

4. DRILLING SUMMARY

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**PHILLIPS PETROLEUM COMPANY NORWAY
INFORMATION SUMMARY SHEET**

WELL NO.: 2/7-28, Eldfisk Jurassic
AFE NO.: 6896
INITIAL APPROVED COST: \$ 21,700,000
FINAL APPROVED COST: \$ 26,000,000
FINAL COST: \$ 24,242,047
RIG: Mærsk Guardian
RKB-MSL: 135'
SPUD DATE: 08/03/92
RIG OFF LOCATION: 07/08/92
TOTAL DEPTH: 12772'

CASING DETAILS (TOP TO BOTTOM)

SIZE IN	WT PPF	GRADE	CONNEC- TION	TOP MD RKB	BOTTOM MD RKB	COMM- ENTS
30"	450	X-52	H90D	384'	444'	Conduc-
30"	390	X-52	H60	444'	718'	tor
20"	133	X-56	E-60	390'	1754'	CSG
13 3/8"	72	95VT	VAM	390'	4904'	CSG
11 3/4"	65	L-80	AB FL4S	4627'	5200'	Liner
11 3/4"	65	S-95	HydriL LX	5200'	9220'	Liner
9 7/8"	62.8	Q-125	Hydr slx sc	9072'	9305'	Liner
9 7/8"	62.8	NT110SS	NSCC	800'	4511'	Tie-
9 7/8"	62.8	NT110SS	Hydr slx sc	4511'	7498'	Back-
9 7/8"	62.8	Q-125	Hydr slx sc	7498'	9037'	Casing
8 3/8"	32.04	P-110	IFJ4	9037'	9151'	Liner
8 3/8"	32.04	Q-125	IFJ4	9151'	9907'	Liner
7"	35	Q-125	Baker HDL	8839'	10930'	Liner

FORMATION TOPS

GROUP/FORMATION TOPS	MD ft-RKB	TVD ft-RKB	TVD ft-SS
HORDALAND GROUP	5304	5304	5169
BALDER	8954	8954	8819
SELE	8996	8996	8861
LISTA	9134	9134	8999
VÅLE (MAUREEN)	9274	9273	9138
EKOFISK	9350	9349	9214
TOR	9508	9507	9372
HOD	9520	9519	9384
BLODØKS	10141	10140	10005
HIDRA	10158	10157	10022
RØDBY (Top L. Cretaceous)	10420	10419	10284
SOLA	10466	10465	10330
MANDAL (Top Jurassic)	10954	10952	10817
SMITH BANK (?)	12456	12445	12310
ZECHSTEIN GROUP	12594	12580	12445

GENERAL COMMENTS

- (1) CBL log ran after the 7 3/8" hole was drilled. The CBL log showed generally good bond except 1/8850' - 1/8780'. (Shoe @ 8807').
- (2) The drilling report says 13.5" for the underreamer size used, however a 14" underreamer was actually used.

CASING SCHEMATIC	MD RKB	TVD RKB	COMMENTS DESCRIPTION	EST. TOC	VERIF. METHOD
	384' & 390'	384', 390'	Top 30" & 20" + 13 3/8"		
Cmt Plug	718'	718'	TOC 30" ann.:	Mudline	Cmt return
	800'	800'	Top of cut 8 7/8" csg		
	1754'	1754'	TOC 20" ann.:	Mudline	contamin. mud return
Cmt Plug EZSV			991' cmt plug @: TOC 9 7/8" csg ann.:	3500' 3750'	Calculated
			EZSV @ 4491'		
	4627'	4627'	Top 11 3/4" liner	4627'	Squeezed
	4904'	4904'	TOC 13 3/8" ann.:	Mudline	Cmt return
Cmt plug	8839'	8839'	400' cmt plug:	8800'	
	9037'	9037'	Top 7" liner		
	9063'	9063'	7"x9 7/8" Liner hanger		
	9070'	9070'	8 7/8"x8 5/8" Tie back		
	9220'	9220'	8 5/8"x11 3/4" packer		
			8 5/8" x 8 3/8" x-over		
			TOC 11 3/4" liner ann.:	7820'	Calculated
	9305'	9305'	TOC 9 7/8" liner ann.:	8072'	Calculated
	9907'	9907'	TOC 8 3/8" liner ann.:	8063'	(1) Calculated + CBL ran
Cmt plug			1595' cmt plug:	10105'	
	10830'	10828'	TOC 7" liner ann.:	8839'	Calculated
	12772'	12754'			
TD					

Well 2/7-28 DRILLING SUMMARY

Well 2/7-28 was drilled in 1992 from the jack up rig Mærsk Guardian to a depth of 12772 ft (3893 m) in 143 days. The rig was on location for 156 days. The well was not tested and was permanently plugged and abandoned.

Three of the major achievements in this well were:

- a) The use of bi-center bits in the 12 1/4" x 14" section and 5 7/8" x 6 1/2" section providing a relatively high ROP and preventing stuck pipe while drilling.
- b) The use of a Teledrift and 9 1/2" CDR (Compensated Dual Resistivity) tool to eliminate the need for costly MWD tools and wireline logging in the 26" and 17 1/2" hole sections.
- c) The successful use of an 8 3/8" liner to cover the depleted reservoir after having set an extra string of casing above the top of the Ekofisk formation.

Most of the time not accounted for in the initial drilling procedure on this well was a result of one of the following problems:

- a) Lost circulation above top of the Ekofisk Formation. This resulted in a change in the casing program.
- b) Junk lost in hole from an underreamer arm at the top of the Hod Formation after drilling the depleted Ekofisk/Tor reservoir. After a succession of mill/fishing runs the well was eventually sidetracked.

36" HOLE SECTION 30" CONDUCTOR

Objectives:

- a) To drill the 36" hole to 360 ft (109.7 m) and run the 30" conductor. The maximum hole angle was to be limited to 0.75° due to the mud line suspension.
- b) To complete drilling of the section in less than a day.
- c) To set the 30" conductor deep enough to provide a leak off result sufficient to allow the next section to be drilled with a weighted mud.

Conclusions:

- a) Problems were experienced remaining within the deviation tolerances, but the final angle before running conductor was 0.25° .
- b) The 36" hole was drilled to 745 ft (227.1 m) in 6 days. The low rates of penetration experienced were a result of boulders. Reaming was required to correct the high inclination angle of the section and to allow the conductor to be run to bottom.
- c) The 30" conductor was finally set at 718 ft (218.8 m) having made two unsuccessful attempts to get the conductor to TD.

Recommendations:

- a) Check the offset wells for boulder related problems.
- b) If boulders are expected consider having the following equipment available:

36" stabilizers
11" drill collars

If boulders are encountered when drilling with a 26"x 36" hole opener, POOH and pick up a 17 1/2" bit and pendulum assembly and drill a pilot hole. An alternative would be a 26" pendulum assembly.

- c) The teledrift tool is accurate to $\pm 0.5^{\circ}$ and should, therefore, only be used in this section as a qualifying tool to see if the angle is building or dropping. Single shot surveys were used to back up the Teledrift surveys.
- d) When running an anti-rotating plate for the quick connector either:
 - i) Strap wire to connect the anti-rotation plate to the conductor as the conductor is lowered into the hole.
 - ii) Run without the wire and put a short sling on the plate for ROV retrieval.
- e) Use anti-rotation dogs on the 30" conductor for the joints above the mudline. A potential problem with their use would be the risk of thread damage if the conductor had to be re-run.
- f) Consider using snap-on (quick stab) connectors for the 30" conductor on jack-ups.
- g) A 30" circulating swage was used during the cement job with success. This should also be used in the future.
- h) The 30" shoe should include inner coning if it is to be stung into.

Discussion:

Core Penetration Test

Numerous problems were experienced during the core penetration tests, carried out to verify soil integrity at the well location. Various factors contributed to these problems. The contractor did not provide a winch. The rigs slickline equipment was not well suited to the task. A combination of the rigs slickline and a 2" tool was eventually used with success. The contractor failed to provide useful technical support. The procedure for taking soil samples must be reviewed for future operations.

Drilling assembly number one:

The first assembly run in hole was a 26" bit and a 26"x36" hole opener. The ROP slowed at 383 ft (116.7 m) due to boulders. The ROP reduced to 14 ft/hr (4.3 m/hr) by 450 ft (137.2 m). The assembly was pulled at 510 ft (155.4 m). The assembly was inspected and the bit was found packed with gumbo. The assembly was rerun. It might in retrospect have been advisable to have run a 17 1/2" pendulum assembly at this stage. The assembly drilled at a low ROP to 662 ft (201.8 m). The assembly was POOH as the inclination (from Totco survey) built to 1.5°.

Assembly number two:

The second assembly run in hole was a 17 1/2" pendulum assembly. The 36" hole had to be reamed, indicating an inclined 36" hole. A 17 1/2" hole was drilled to TD at 735 ft (224 m).

Assembly number three:

A 17 1/2" bit and a 26"x36" hole opener was run in hole and the 17 1/2" hole opened up to 36". An unsuccessful attempt was made to run 30" conductor. The 30" conductor would not pass 440 ft (134.1 m). An overpull of 30 Klbs was recorded when pulling the conductor.

Assembly number four:

After the conductor was POOH, a 26" bit and 26"x36" hole opener was run but POOH at 495 ft (150.9 m) due to low ROP.

Assembly number five:

A 17 1/2" bit and pendulum assembly was run and a 17 1/2" hole was drilled to 745 ft (227.1 m) to have more rat hole.

Assembly number six:

A 17 1/2" bit and two 36" hole openers were run in tandem and the hole reamed to 508 ft (154.8 m). The assembly was POOH as the Teledrift had failed and a single shot Totco could not be recovered. The bit, Teledrift and bottom hole opener were plugged off with sand. The reason for the plugging was probably poor hydraulic cleaning below the upper hole opener.

Assembly number seven:

The BHA was altered placing the Teledrift between the upper and lower hole opener. The remainder of the hole was reamed to 36". The running of the conductor was delayed as a result of bad weather.

Assembly number eight:

Another attempt to run the 30" conductor was made. The 30" conductor would not pass 555 ft (169.2 m). A 17 1/2" bit, two 36" hole openers, 36" near bit stabilizer and a 26" stabilizer were run in the hole. The hole was reamed to 738 ft (224.9 m).

Offset well experience from 2/7-3 (boulder related problems):

Problems with boulders have also been experienced in well 2/7-3. The same assembly was used on 2/7-3 as employed initially on 2/7-28. This assembly was POOH at about the same depth as problems with boulders were reported on 2/7-28. On 2/7-3 the 36" hole opener was laid down and a 26" bit was run to drill the remaining footage. On 2/7-3 the 30" conductor was driven rather than a hole drilled and the conductor set at a much shallower depth than on 2/7-28.

26" HOLE SECTION (12 1/4" PILOT HOLE). 20" CASING

Objectives:

- a) To drill the 26" hole section at the lowest possible cost per foot.
- b) To monitor the well for shallow gas related effects.
- c) To set the 20" casing at a depth where a sufficient leak off is available to safely drill the 17 1/2" hole.

Conclusions:

- a) The 26" hole had to be reamed twice because the 20" casing would not go to bottom.
- b) A 12 1/4" pilot hole was drilled as a precaution as the potential for encountering shallow gas zones in this section had been identified.
- c) The 20" casing was set at 1754 ft (534.6 m) above the level where a kick had been taken on the well 2/7-3. A satisfactory leak off result was obtained.

Recommendations:

- a) For future HP/HT exploration wells where a resistivity/gamma log is required it is recommended to use a memory tool like the CDR. Such a device is cost effective and does not possess internal restrictions.
- b) A tool similar to the Teledrift is recommended for future vertical wells in this section, provided that only inclination readings (less than 10°) are required.
- c) A packed 26" assembly (not pendulum) is recommended when opening up the 12 1/4" pilot hole. A 12 1/4" bit rather than a 26" bit should be used in combination with the hole opener.
- d) The 20" casing should be drifted to fit the 13 3/8" mudline hanger.

Discussion:

Teledrift tool

The Teledrift tool proved useful in this section as it gave an indication of build/drop tendency. The tool measurements were easily made and did not require the involvement of a specialist. The survey technique was time efficient. The engineer contracted to run the Magnetic Multishot Survey (MMS) also supervised the use of the Teledrift further improving the economics of this tool utilization.

CDR (Compensated Dual Resistivity) memory tool

The advantage of using this memory device is the lower cost compared with a real time telemetry device and that the tool is clear bore. The disadvantage of this type of device is that the shallow gas zones can only be identified on the log after the section has been drilled. Care has to be exercised to pump out of the hole on trips, as the risk of shallow gas zones in the section that has been drilled cannot be assessed until the tool has been read at the surface.

26" Reaming assembly

The BHA used to open up the 12 1/4" hole section was a 26" pendulum assembly. The 26" hole proved to be crooked as the 20" casing would not go to bottom initially. A 26" packed assembly was used to ream the hole before successfully running the 20" casing.

Drift of 20" casing

The API drift of this casing was 18.542", as a result of welds between the connectors and the pipe, the casing did not drift to 18.54". This drift was needed to ensure that it would pass through the 13 3/8" mudline hanger. The welds had to be ground down.

17 1/2" HOLE SECTION. 13 3/8" CASING

Objectives:

- a) Drill 17 1/2" hole at the lowest cost per foot by optimizing the drilling parameters to drill at a high rate of penetration and by avoiding the need for wireline logging, by the use of a CDR memory device.
- b) To set the 13 3/8" casing at a safe depth above the high pressure Miocene Hordaland Group section while achieving a sufficient leak off pressure to drill the Ekofisk Formation.

Conclusions:

- a) The 17 1/2" hole was drilled at a low cost per foot by drilling at a high rate of penetration.
- b) The flow rate had to be controlled due to gumbo problems on the shakers. The RPM and WOB were increased to 230 RPM and 40 Klbs respectively to increase the rate of penetration. Drilling had to be stopped quite frequently to unplug the bellnipple and flowline.
- c) Data from the CDR device allowed the wireline logging suite to be eliminated.

- d) The 13 3/8" casing was set at 4904 ft (1494.8 m) in the Miocene above the Hordaland Group without shallow gas related problems. A leak off test of 16.8 ppg (2.02 g/cc) EMW was recorded at 4936 ft (1504.5 m).

Recommendations:

- a) If plans include use of a Dril-Quip surface wellhead in the future, the 13 5/8" wellhead running clutch tool must be rated for a higher torque than 17000 ft-lbs (for opening/closing mudline hanger washports). In addition the seal between the 13 5/8" wellhead and 21 1/4" wellhead should be such that it is energized after the 13 3/8" casing is cemented.
- b) A wiper trip before reaching TD should be made when the gumbo problems become as severe as in this well in order to reduce the risk of stuck pipe.

Discussion:

Rate of penetration - Gumbo problems:

The 17 1/2" section was drilled to TD in three days, one day ahead of schedule. Drilling of the 17-1/2" section was intermittent because of problems related to gumbo. Drilling had to be stopped while surface equipment was unblocked and almost a day was spent backreaming and cleaning the hole.

13 5/8" Surface wellhead - Seals:

The seals on the Dril-Quip 13 5/8" surface wellhead are energized as the 13 3/8" casing is landed. This means that while cementing, the returns have to be taken through the 21 1/4" wellhead outlets which are quite small. To avoid having to take the returns through the small 21 1/4" wellhead outlets while cementing (and risking plugging the outlets) the casing was reciprocated with the seals above the sealing area. The seals on the wellhead should be such that they are not energized until after the cement job.

13 5/8" Surface wellhead - Running clutch tool:

The torque needed to perform this operation was 28000 and 25000 ft-lbs respectively during the opening/closing of the mudline hanger washports after the casing was cemented. When opening and closing the mudline hanger washports at surface only 4000 ft-lbs was required. The rating of the 13 5/8" surface wellhead running clutch tool was only 17000 ft-lbs. The opening and closing of the mudline hanger washports were completed by exceeding the rating of the Dril-Quip clutch tool. The reason for the high torque required to operate the mudline hanger washports could have been due to friction between the two surface wellheads or cement around the mudline hanger running tool. The surface wellhead running clutch tool should have a higher rating.

14" (15") HOLE SECTION, 11 3/4" LINER

Objectives:

- a) To drill the 14" hole at the lowest cost per foot by using a bi-center bit and thereby avoid underreaming.
- b) To drill the 14" hole to 5 ft-10 ft (1.5 - 3.1 m) above the top of Ekofisk and set 11 3/4" liner.

Conclusions:

- a) Two 9 3/4" x 14" bi-center bits were used to drill at an average rate of penetration of 31 ft/hr (9.5 m/hr) including connection time and surveying.
- b) The final hole size is unknown as no caliper was run immediately after the bi-center bits had been used. There were two contradictory indications of hole size. Tight hole when tripping out of hole would indicate that the hole was less than 14" in size, however gas from bottoms up indicated a 14" hole based on theoretical lag time.
- c) The attempt to cure the losses and drill to within 5-10 ft (1.5 - 3.1 m) above the top of the Ekofisk formation was abandoned. The hole was plugged back and the 11 3/4" liner set 54 ft (16.5 m) above the top of the Våle at 9220 ft (2810.3 m). A total of 26 days were lost from the onset of serious losses at 9264 ft (2823.6 m) until the 11 3/4" liner was run.

Recommendations:

- a) When drilling exploration wells through depleted chalk reservoirs on the flanks of fields, plan to run a contingency casing in case there are fractures penetrating the Rogaland Group. A 13-3/8" casing could be set at the top of the loss zone and then an 11-3/4" casing set at the top of the Ekofisk. If the contingency is not required, the 13-3/8" could be set at the top of the Ekofisk. Plan to cure losses and set casing without drilling farther.
- b) When drilling exploration wells through depleted chalk reservoirs on the crest of chalk fields plan on setting a liner or casing in the mid Lista regardless of losses experienced at this depth, anticipating fractures penetrating the claystone formations above the chalk.
- c) If experiencing severe losses pump Flo-check (Econolite, Fresh water, CaCl₂ and cement).
- d) Use the bi-center bit in the future instead of underreaming for reduced cost per foot, reduced chance of losing parts in the hole and minimized chance of getting stuck while drilling the hole.

- e) If there is a need to underream, use a 9.5" body underreamer instead of a 11.75" body underreamer. This reduces swabbing and surge pressure when tripping, especially inside the 13 3/8" casing.

Discussion:

Drilling 14" hole with bi-center bit:

The bi-centered bits were run in order to minimise the risk of losing parts from the under-reamers. The cost per foot when using bi-centered bits was expected to be better than drilling and reaming the section.

The under-reaming of this section was not avoided, however this was related to the hole problems that occurred after circulation was lost at 9264 ft (2823.7 m). The final hole size after bi-center drilling and before circulation was lost at 9264 ft (2823.7 m) is unknown. Tight hole from 9040 ft to 8185 ft (2755.4 - 2494.8 m) when tripping out of the hole after having drilled to 9124 ft (2781 m) would indicate that it was not a 14" hole. Gas from bottoms up indicated 14" hole after having drilled to 6003 ft (1829.7 m). It was noted that tight hole became a problem some time after the onset of lost circulation. This time lag suggests that the hole was indeed larger than 12-1/4" at the time that the losses began, and further indicates that the use of bi-centered bits might help to minimise sticking problems. The cost per foot drilling with the bi-center bit proved to be cheaper than drilling with 12 1/4" bit and underreamer, assuming the estimated ROP and endurance of the rock bit and underreamer were correct. The following assumptions were made in this analysis:

- 1) the entire section would be drilled with two rock bits with the first trip being made at 8500 ft (2590.8 m) after about 800000 revs. The first bit averaged ROP would be 55 ft/hr (16.7 m/hr). The second bit average ROP was estimated to be 30 ft/hr (9.1 m/hr);
- 2) the entire section would be underreamed with two underreamers with the first trip made at 8500 ft (2590.8 m). The first run average ROP would be 55 ft/hr (16.7 m/hr). The second run ROP was estimated to be 30 ft/hr (9.1 m/hr).

The above assumptions concerning the rock bits and underreamers indicate that the section would be drilled and underreamed at 278 USD/ft (912 USD/m). With bi-center bits the section down to 9124 ft (2781 m) was drilled at around 200 USD/ft (656 USD/m) resulting in a cost saving of around 78 USD/ft (256 USD/m). Potential savings of using the bi-center bit assuming a true 14" hole had been drilled would have been approximately USD 330,000 (2.3 mm NOK).

Casing program & lost circulation problem:

The casing program required that the 11 3/4" liner be set at the top of the Ekofisk Formation. No contingency casing was planned in the event of serious losses. Such a contingency would have required that the 13-3/8" casing be set in the mid-Lista. This was impractical as the Mærsk Guardian had been contracted to drill this well, and that this rig is equipped with a 21-1/4" BOP rated only to 2000 psi. Similarly the well head to be used on this well was only rated to 2000 psi. The well head had been used on a previous well and renovated for this project. A higher rated wellhead and BOP would be required to set a 13-3/8" casing in the Lista Formation. It was thought that the risk of losses was low in this well because of the flank position in relation to the Eldfisk structure. The program therefore indicated that any potential losses experience while drilling through the Rogaland Group would be cured and that the 11-3/4" liner would be set 5 to 10 ft (1.5 - 3.1 m) above the Ekofisk formation. Ultimately this attempt was abandoned.

A variety of LCM was pumped in order to control losses. The most successful combination appeared to be Flo-check (CaCl₂, Fresh water, Econolite & cement). The annulus was kept full with seawater during this operation, reducing the mud weight to 12.8 ppg (1.54 g/cc) EMW at times. Drag and tight hole resulted, requiring much back reaming. The hole was swept periodically with high viscosity pills. The well flowed on two occasions with high gas levels recorded from bottom. The hole had been affected by exposure to water based mud for over a month, resulting in sloughing shales causing packing off of the BHA and a deterioration in the mud rheology.

Running of 11 3/4" liner - problems with cross-over

During the running of the 11 3/4" liner it was discovered that the cross over between the 11 3/4", 65#, Hydril SLX and the 11 3/4", 65#, AB FL-4S was cut with 11 3/4", 60#, AB FL-4S threads. This thread is not interchangeable with the 65#, AB FL-4S thread. The 11 3/4", 65#, AB FL-4S pin was cut to fit inside the 11 3/4", 60#, AB FL-4S box on the cross over and Bakerlocked. The incident caused half a day lost time but more importantly the burst rating of the 11 3/4" liner had to be derated to about 3800 psi (262 bars) from 5590 psi (385 bars). The implication of this was that the 11 3/4" liner had to be covered up before drilling into Jurassic.

Casing Program:

At this point the casing program had to be changed as the 11 3/4" liner was set shallower than prognosed. The remaining casing program would be to set a 9 7/8" liner to the top of the Ekofisk Formation, 8 3/8" liner into Hod, tie back the 8 3/8" liner with 9 7/8" casing (above the 9 7/8" liner) to surface before drilling on. If the burst rating of the 11 3/4" liner had not been derated the 9 7/8" tieback casing would not have been run until the 7" liner had been set. Then a 7" liner would be run to 100 ft (30.5 m) into Jurassic and a 5" liner run to TD.

10-5/8"x14" HOLE SECTION. 9 7/8" LINER

Objectives:

- a) To drill the 10-5/8" x 14" hole to 5 ft-10 ft (1.5 - 3.1 m) above the top of the Ekofisk Formation, set a 9 7/8" liner, achieve a good cement job and be able to drill the depleted reservoir with seawater.

Conclusions:

The 10-5/8" hole was successfully drilled to 9305 ft (2836.2 m) thought to be 5 ft (1.5 m) above top of the Ekofisk Formation but later found to be about 45 ft (13.7 m) above top of the Ekofisk Formation. The hole was then underreamed to 14" and the 9 7/8" liner run. The 9 7/8" liner was reciprocated while cementing to improve the chances of a good cement job. The well was displaced to 8.7 ppg (1.04 g/cc) polymer mud after the shoe had been drilled.

Recommendations:

- a) Have 10" liner available for this scenario in the future if deciding to set the 13 3/8" casing above the Miocene Hordaland Group.

Discussion:

The top of the Ekofisk Formation:

The top of the Ekofisk Formation was estimated to be at 9310 ft (2837.7 m). The top of the Ekofisk Formation was later established to be at 9349.9 ft, (2849.9 m), 40 ft (12.2 m) deeper than expected. The mud weight was reduced to 13.2 ppg (1.59 g/cc) and the 10-5/8" hole was drilled to 9275 ft (2827 m) where the resistivity tool failed. The hole was drilled to 9305 ft (2836.2 m) without the resistivity tool and without taking any losses. The 10-5/8" hole was then underreamed to 13 1/2" and the 9 7/8" liner run to 9305 ft (2836.2 m) and cemented without losses.

8 1/2" x 12 1/4" (& 15") HOLE SECTION. 8 3/8" LINER x 9 7/8" TIE BACK CASING

Objectives:

- a) To drill a 8-1/2" hole, 400 ft (121.9 m) into the Hod Formation to ensure a leak off test of 16.5 ppg (1.98 g/cc) EMW or higher, without getting differentially stuck in the chalk reservoir.

- b) To underream the 8-1/2" hole to 12-1/4" and to 15" in the sections where log permeability was highest, to reduce the chances of getting differentially stuck when running the 8-3/8" liner.
- c) To seal off the depleted chalk reservoir by running and cementing an 8-3/8" liner.
- d) To run a 9-7/8" tie back casing to seal off the 11-3/4" liner and place 14 ppg (1.68 g/cc) mud behind the casing for DST purposes.

Conclusions:

- a) The 8-1/2" hole was drilled approximately 500 ft (152.4 m) into the Hod Formation. The section was drilled without stuck pipe problems or losses. A mud weight of 11.8 ppg (1.42 g/cc) was selected to control the well.
- b) The 15" underreamer became stuck, probably mechanically and was freed by the use of the jars and by pumping HCl. The reamer was then back reamed into the 9-7/8" shoe with the arms in the open position, damaging the shoe and causing one arm to be lost in the hole.
- c) The 8-3/8" liner was run successfully and was not affected by the 45 ft (13.7 m) section of higher pressured Våle Formation exposed above the Ekofisk Formation. The liner was set 100 ft (30.5 m) shallower than planned as a result of the junk that remained in the hole after pulling the underreamer. A poor leak off test was recorded at the liner shoe and the liner lap was also found to be leaking.
- d) As the liner lap was leaking, a 12 ppg (1.44 g/cc) fluid was placed behind the 9-7/8" tie back casing rather than the 14 ppg (1.68 g/cc) fluid planned initially. Several problems were encountered with the 9-7/8" clutch tool and seal assembly.

Recommendations:

- a) Avoid having a large rat hole below the casing shoe to reduce cement/mud mixing at the shoe during cementing operations.
- b) Minimize the amount of underreaming. Use bi-center bits where possible.
- c) Use mechanically set liner packers instead of hydraulically set liner packers.

Discussion:

Drilling of the 8 1/2" hole - depleted zone:

The expected reservoir pressure was approximately 3560 psi (245 bars), at the top of the Ekofisk Formation. The 8 1/2" hole was drilled to 10008 ft (3050.4 m), approximately 500 ft (152.4 m) into Hod, with an 8.7 ppg (1.04 g/cc) polymer mud without problems. No drag or losses were reported. The well began flowing during a wiper trip to the shoe. The chloride content of the mud increased confirming an influx.

The mud weight was increased to a final mud weight of 11.8 ppg (1.42 g/cc) to stabilize the well.

Underreaming of the 8 1/2" hole

a) Underreaming to 15"

The 8 1/2" hole was first underreamed to 15" over three sections determined to have the highest log permeability in order to reduce the risk of differentially sticking the 8 3/8" liner.

The 15" underreamer became stuck after completing the underreaming of two of these sections. The underreamer was jarred free after displacing the hole to seawater and having pumped HCl acid. The 15" underreamer was then rotated and "backmilled" into the 9 7/8" liner.

During the freeing of the 15" underreamer one of the cutter arms plus two cutter arm lugs were lost. It was apparent that the cutter arms had locked in a partly open position. A total of 9 days were used attempting to remove the junk. The junk was milled, then a JRC bomb run in an attempt to break up the junk. An 8-1/2" ADT junk retriever was run without success. It was decided after this attempt to set the 8-3/8" liner 100 ft (30.5 m) higher than originally planned and sidetrack the junk in the next hole section.

During the underreaming of the last section circulation was lost. It was likely that this was caused by the removal of the filter cake. Circulation was later re-established after LCM was pumped.

b) Underreaming to 12 1/4":

The remainder of the 8-1/2" hole was underreamed to 12-1/4". One underreamer suffered failure in a piston, another would not surface test and a third was pulled with bent cutter arms.

Cementing 8 3/8" liner - setting packer:

The 8 3/8" liner was set at a depth of 9907 ft (3019.7 m) leaving 100 ft (30.5 m) of rat hole below. The liner was then cemented and the hydraulically set packer inflated. No pressure test was performed on the packer until after the cement had set because of the possibility of pushing the cement down the annulus. The packer proved to be leaking. This resulted in having to put a 12 ppg (1.44 g/cc) fluid behind the 9 7/8" tie back casing instead of the 14 ppg (1.68 g/cc) that was planned. The 14 ppg (1.68 g/cc) fluid rate was a contingency against leakage in the test tubing close to the surface during the DST. The leak off test of 14.5 ppg (1.74 g/cc) EMW was lower than anticipated formation strength of 16 ppg (1.92 g/cc) EMW. This low value for the leak off test was attributed to a poor cement job. If the rat hole section had been cemented before attempting to cement the liner, an improved result may have been obtained.

9 7/8" tie back casing - running clutch tool & seal assembly:

More than a day was lost due to problems with the 9 7/8" clutch tool and 9 7/8" casing hanger seal assembly. The 9 7/8" clutch tool was leaking and a back up tool had to be brought from abroad. A lot of problems were experienced with setting and testing the 9 7/8" seal assembly. The problems with the clutch tool and the seal assembly are covered in a separate report.

7 3/8" x 9" HOLE SECTION, 7" LINER

Objectives:

- a) To drill to 100 ft (30.5 m) into the Jurassic.
- b) To sidetrack the hole around the junk left in the hole, 100 ft (30.5 m) below the 8 3/8" shoe.
- c) To set the 7" liner deep enough to obtain a leak off of 17 ppg (2.04 g/cc) EMW or higher to be able to drill to the planned TD.

Conclusions:

- a) The 7-3/8" hole was drilled to the base of the Lower Cretaceous at 10950 ft (3337.6 m) despite a final FIT value for the 8-3/8" shoe of 15 ppg (1.80 g/cc) EMW. Very little gas was observed while drilling the 7-5/8" hole.
- b) The sidetrack around the junk had to be made three times having made one unsuccessful sidetrack and leaving another fish in the hole. About 14 days were spent from starting the first sidetrack until completing the third.

- c) The 7" liner was set at 10930 ft (3331.5 m) after having met an obstruction at 10935 ft (3333 m). A formation integrity test of 17.5 ppg (2.10 g/cc) EMW was obtained at the 7" shoe.

Recommendations:

- a) When performing deep sidetracks in hard formations, in vertical wells, timedrill until 100% formation is observed in the returns.
- b) The PDC bit performed well. This suggests that a bi-center bit could have been used with success in this formation to avoid underreaming.
- c) The 7", Baker HD-L (true) flush joints were used with good results.

Discussion:

Leak off test

The expected leak off test at the 8 3/8" shoe was 16+ ppg (1.92 g/cc) EMW. The leak off test at the 8 3/8" shoe was repeated four times with the following results:

- i) The formation broke down at 14.5 ppg (1.74 g/cc) EMW.
- ii) After the 8 3/8" shoe had been squeeze cemented, a formation integrity test was performed to 17 ppg (2.04 g/cc) EMW.
- iii) After the first sidetrack a new FIT was performed. The formation broke down at 16.5 ppg (1.98 g/cc) EMW to 14.3 ppg (1.72 g/cc) EMW.
- iv) A fourth integrity test was performed to 15 ppg (1.80 g/cc) EMW, estimated to be sufficient to drill to the base of the Lower Cretaceous.

On the basis of the last result it was decided to drill no farther than 100 ft (30.5 m) into the Jurassic. The 7-3/8" hole was eventually drilled to a depth of 10950 ft (3337.6 m) at the very base of the Lower Cretaceous.

PDC bit:

The TD-13-HQ bit drilled 935 ft (285 m) in 94.5 hours , at an average ROP of 10 ft/hr (3.1 m/hr). This was regarded as a good penetration rate through hard limestone and marl. A 4 3/4" turbine was used for most of the section after the 5" turbine failed. Some mechanical problems were again seen with the underreamers with small parts lost in the hole. Considering the good performance of the PDC bit it is believed that a bi-center bit should have been used instead.

4 3/4" MWD:

No usable data was recorded by the tool during this hole section.

Sidetracks:

Three sidetracks were performed below the 8 3/8" shoe to avoid the junk left in hole.

- a) The first sidetrack failed to get away from the junk probably because time drilling was not employed for more than 40 ft (12.2 m). Only 50% formation was noted in the returns when timedrilling ended.
- b) The second sidetrack was successful. Timedrilling was maintained until 100% formation was observed in the cuttings. The sidetrack was abandoned when the motor backed off after drilling past the junk.
- c) The third attempt to sidetrack the hole was successful. The two last sidetracks were performed with a 6" sidetrack bit (TBT-26) whereas the first was done with a 7 3/8" PDC bit (TD-13-HQ).

6 1/2" HOLE SECTION

Objectives:

- a) To drill the 6 1/2" hole to TD and run the 5" liner and at the lowest cost per foot.
- b) To core and log the reservoir section of the well as safely as possible.

Conclusions:

- a) The 6 1/2" hole was drilled using a bi-center bit. Two sections were cored using 60 ft (18.3 m) corebarrels. Perforated inner tubes were successfully used to allow trapped gas to escape as the core was brought to surface.
- b) The well was not tested and was subsequently permanently plugged and abandoned.

Recommendations:

- a) Continue to use bi-center bits in this type of formation to avoid underreaming.
- b) Continue to use perforated inner tubes when coring, to reduce the risk of bringing trapped gas to surface.

- c) A more rapid technique for pulling the mudline hanger running tools is to cut casing 10 ft-15 ft (3.1 - 4.6 m) above the mudline hanger running tool. Pull the casing and then run the spear on 8" DC to retrieve mudline hanger running tool.
- d) The Thermadrill mud system performed very well and should be considered for the future Jurassic sections.

Discussion:

Bi-center bit:

Bi-center bits were employed successfully. Two bi-center bits were used to drill this section. The first bi-center bit drilled 1287 ft (392.3 m) in 99 hours, 13 ft/hr (4.0 m/hr) average ROP. The bit was reported to be 45% worn. The second bi-center bit drilled 440 ft (134.1 m) in 21 hours, 20 ft/hr (6.1 m/hr) average ROP. Another benefit of the bi-center bit in this section was that it probably reduced the chance of getting stuck when drilling in the salt. The salt was shown to be mobile as the logging tools did not get to bottom through the salt in this section of the well. A disadvantage with the bi-center bit was that directional control was poor. In this section the inclination built from 2.1° at 11164 ft (3402.8 m) to 12.0° at 12772 ft (3893.0 m) at a rate of 0.7°/100 ft (2.3 degrees/100 m)

Coring:

Two sections of the hole were cored using 60 ft (18.3 m) core barrels. The first core cut was 60 ft (18.3 m) with a 97% recovery. The second core cut jammed after 18 ft (5.5 m) with 100% recovery.

4 3/4" MWD:

Problems were experienced with the MWD device in this section. A tool failed and had to be replaced. The second MWD tool run in this section gave intermittent performance with occasional loss of signal.

ABANDONMENT:

Objectives:

To plug back and permanently abandon well 2/7-28 Eldfisk Jurassic.

Conclusions:

The objectives of the abandonment procedures were met although problems were encountered when pulling the 13 3/8" casing and wellhead equipment and the 30" conductor.

Due to these problems a total of 20 hours of downtime were recorded during this section.

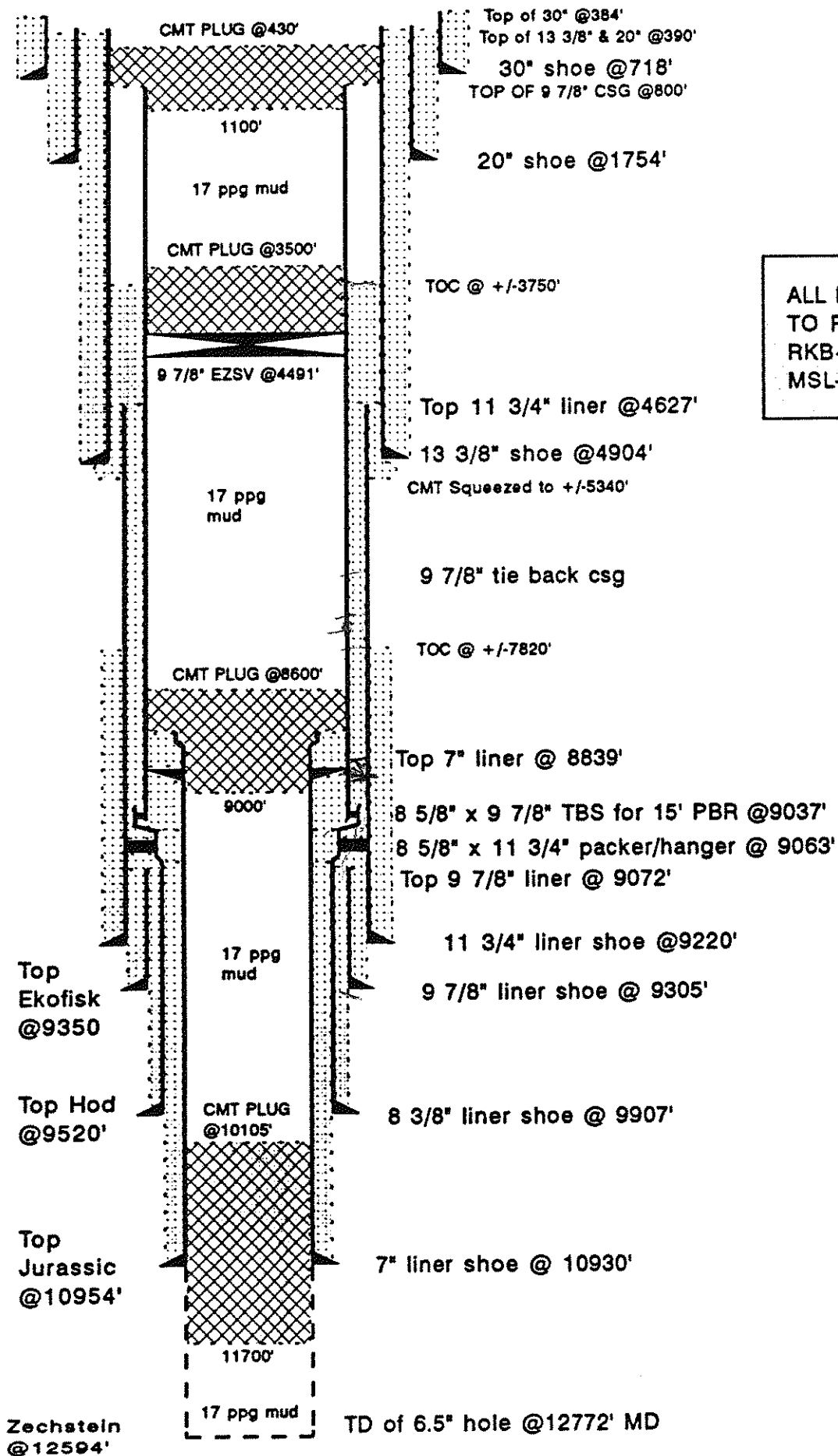
Recommendations:

- a) To avoid back out of 30" conductor threads, anti-rotation pins should always be installed.
- b) Although problems retrieving casing could be anticipated, a closer estimation control of cement tops as possible should be maintained.

Discussion:

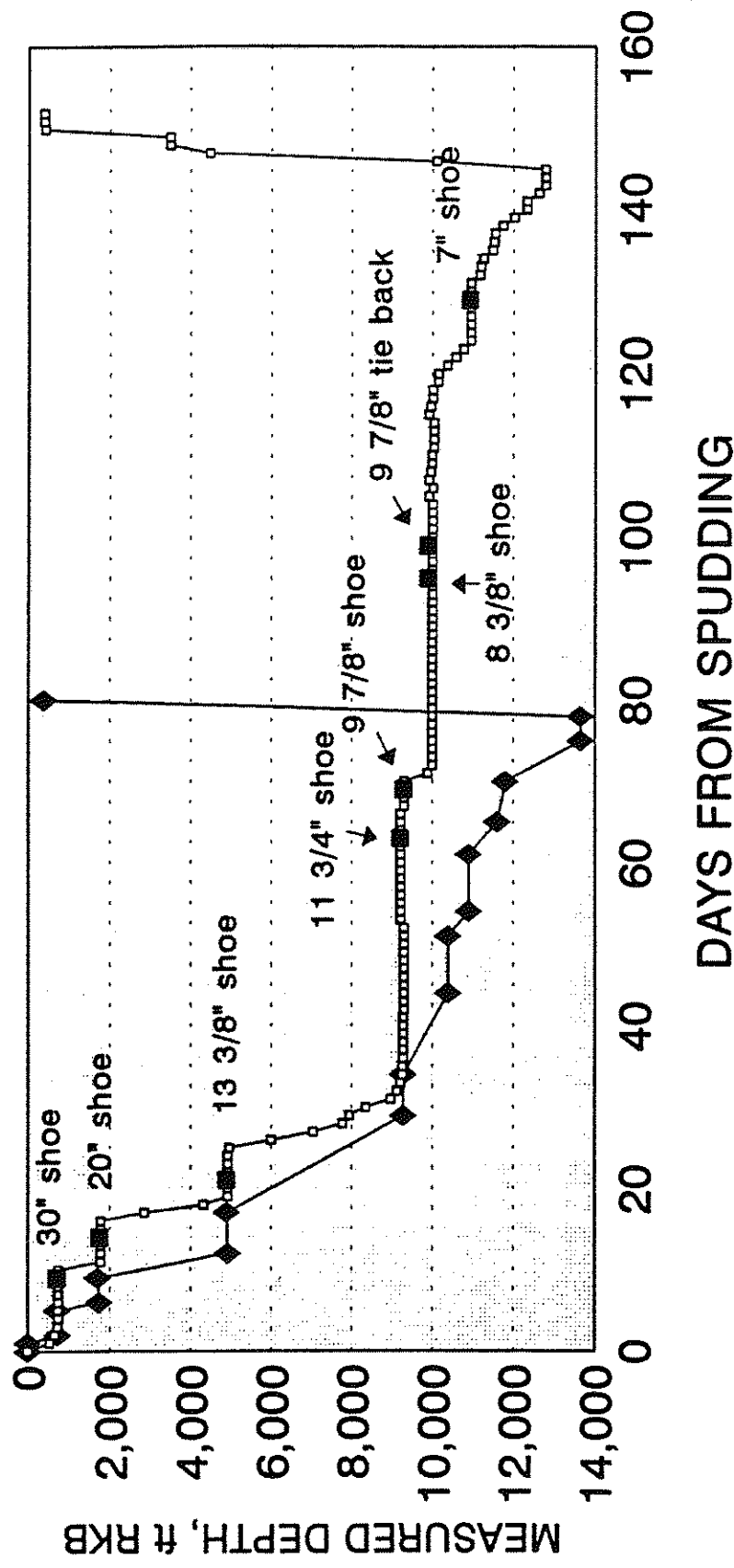
- a) When retrieving the 13 3/8" casing, four cuts had to be made before succeeding in pulling. In addition were problems experienced when attempting to back out the 13 3/8" mudline hanger; this was thought to be caused by cement settling.
- b) The 30" conductor was cut and pulled free easily, but four joints plus the cut-off piece was not recovered. This was caused by the fact that a connection was backed out due to missing anti-rotation pins, which also were missing on all other connections. Two joints were later recovered, the rest was left on the seabed.

WELL 2/7-28, ELDFISK JURASSIC, P&A



MEASURED DEPTH VS DAYS

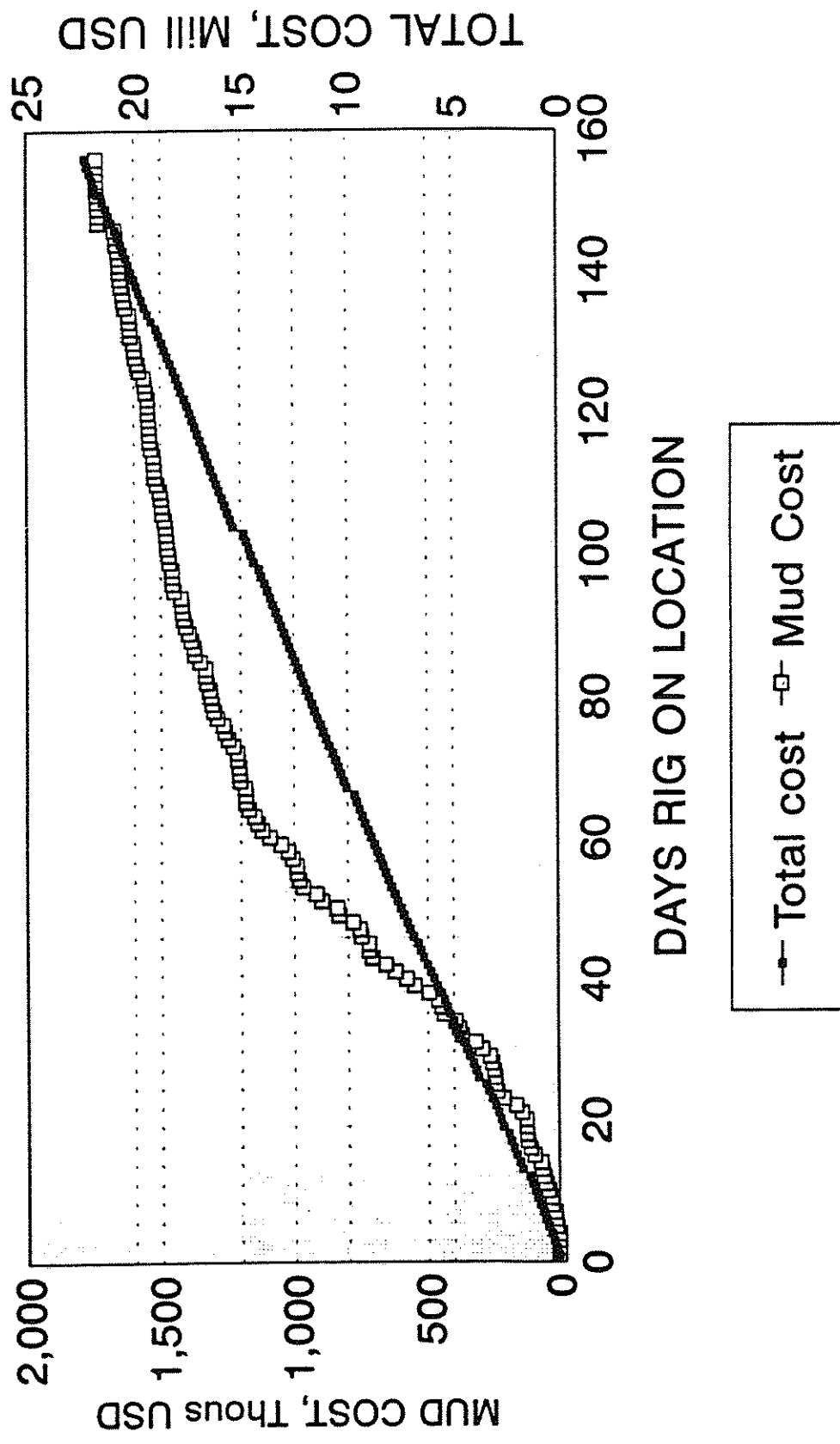
WELL 2/7-28, ELDFISK JURASSIC



Final TD ■ CSG Point ◆ Planned TD

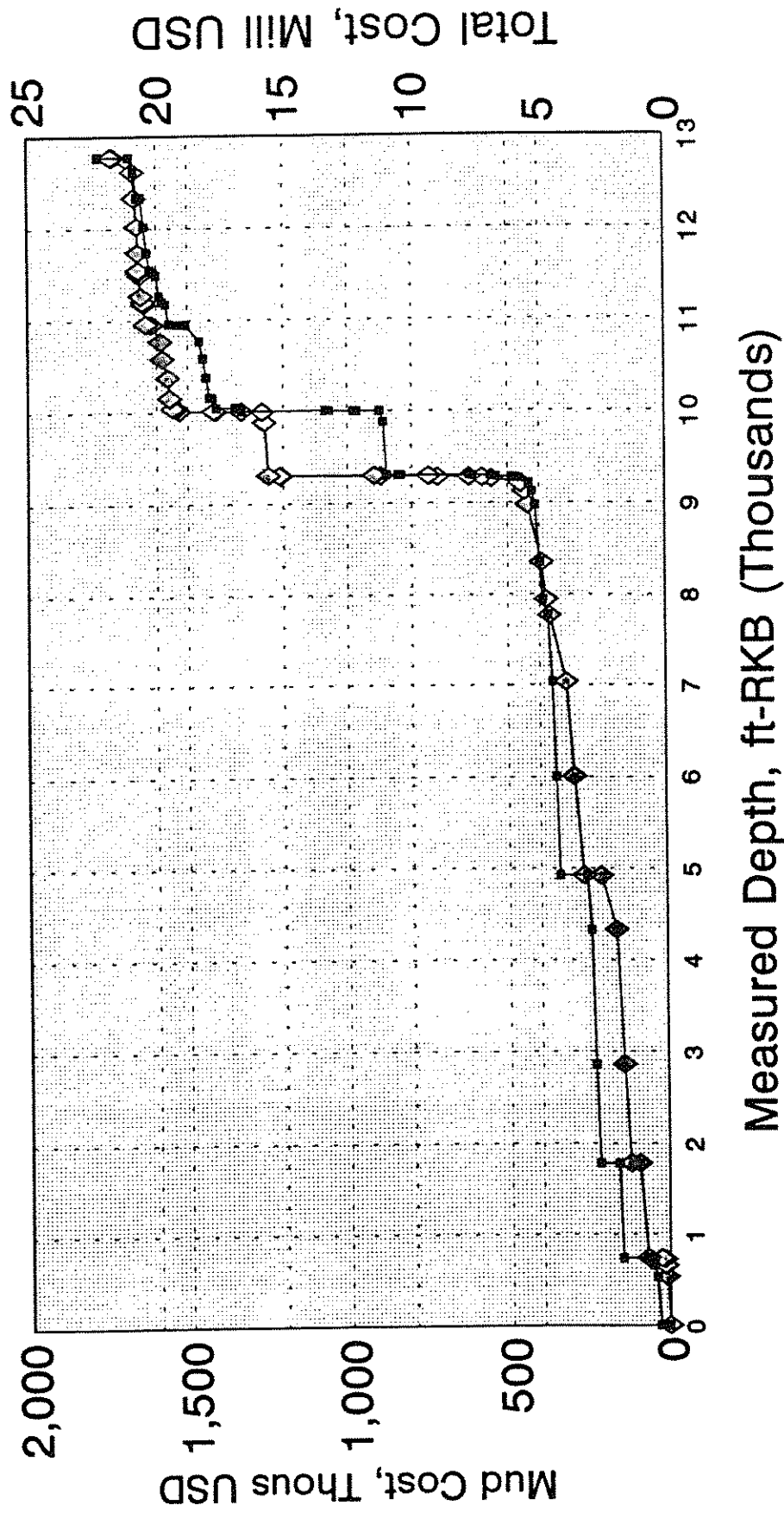
Mud Cost & Total Cost vs Days

WELL 2/7-28, ELDFISK JURASSIC



Mud Cost & Total Cost vs Measured Depth

WELL 2/7-28, ELDFISK JURASSIC



— Total cost —◆— Mud Cost

PHILLIPS PETROLEUM
DAILY REPORT SUMMARY

PAGE:1

WELL:ELDFISK 2/7-28

FIELD:ELDFISK

CNTY/STATE: \NORWAY

RIG:MAERSK DRILLING/MÆRSK GUARDIAN

AFE#:6896

AUTH COST:\$21,700,000

DATE	DEPTH	RPT NO	MW	OPERATIONS SUMMARY	DAILY COST	CUM COST
EVENT TYPE:Orig Drilling						
03/04/92	0	1		RIG ON TOW FROM 2/4-17 TO 2/7-28.	\$37,300	\$37,300
03/05/92	1	2		RIG ON TOW TO NEW LOCATION. POSITION RIG AND JACK UP TO 3 M. AIRGAP. CARRY OUT TEMPORARY PRE-LOAD. SKID RIG & H/U SERVICE HOSES TO RIGFLOOR. ASSEMBLE SWIVEL AND TOP DRIVE.	\$98,800	\$136,100
03/06/92	1	3		ASSEMBLE TOP DRIVE. PERFORM SEABED CORING. PROBLEMS TO GET SAMPLES. RUN REV CIRC JUNK BASKET. NO SUCCESS. RERUN SAMPLE CATCHERS. TAKE SAMPLE EVERY 3' FROM 313'.	\$110,760	\$246,860
03/07/92	1	4		COMPLETE SEABED CORING. SECURE & SKID RIG TO PRELOAD POS. PERFORM PRELOAD & RAISE HULL TO 65.6' AIRGAP. INSTALL DRIVE PIPE SUPPORT DECK. SKID RIG TO FINAL POSITION.	\$116,360	\$363,220
03/08/92	535	5	8.6	SKID RIG & H/U FOR DRILLING. M/U 36" BHA & RIH. TAG SEABED AT 369'.SPUD IN & DRILL TO 510'. DISPLACE HOLE TO MUD. POOH TO CHECK BIT. OK. RIH & DRILL F/510'-T/535'.	\$147,052	\$510,272
03/09/92	662	6	8.6	DRILL 36" HOLE F/535'-T/662'. TAKE SURVEY: 1.5 DEG. POOH & L/O 36" ASSY. RIH W/17.5" BIT & PENDELUM ASSY. REAM & TAKE SURVEYS F/395'-T/645'.	\$118,187	\$628,460
03/10/92	732	7	8.6	DRILL 17.5" HOLE F/662' T/735'.DISP HOLE TO HI-VIS.POOH.M/U 36" H/O & OPEN 17.5" HOLE TO 36" TO 732'.DISP HOLE TO 9.5 PPG MUD.POOH.RIH W/30" CONT.NOT ABLE TO PASS 440'.POOH W/CON	\$117,472	\$745,932
03/11/92	745	8	8.6	CONT POOH L/D 30" COND.M/U 26" BIT & 36" H/O & RIH T/420'. REAM T/495', LOW ROP.POOH.RIH W/17.5" BIT TO TD & DRILL TO 745'.POOH.RIH W/17.5" BIT, 2 EA 36" H/O.REAM F/400' T/448'.	\$124,490	\$870,422
03/12/92	745	9	10.0	CONT REAMING 36" HOLE F/448' T/508'.DROP TOTCO,NOT ABLE TO RETRIEVE.POOH. BIT,TELEDRIFT & LOWER H/O PLUGGED W/SAND. RIH & REAM 36" HOLE T/738'.DISP T/10 PPG.POOH.R/U TO RUN 30"	\$125,485	\$995,907
03/13/92	745	10	10.0	WOW. RUN 4 JNTS 30" COND. DISCONTINUED DUE TO HEAVY SEAS. MAX WAVE +8 METERS. L/U 30" COND. RIH W/36" BHA. CIRC WHILE WOW. WIPER TRIP TO SEABED. CONT CIRC WHILE WOW.	\$126,847	\$1,122,754
03/14/92	745	11	10.0	CONT CIRC WHILE WOW. DISP HOLE TO 1200 BBLS 10 PPG HI-VIS MUD. POOH. RUN 30" CONDUCTOR. NOT ABLE TO PASS 555'. POOH & L/D 30" CONDUCTOR. CLEAR RIH FLOOR.	\$126,232	\$1,248,986
03/15/92	745	12	10.0	RIH W/36" BHA TO 715', 30' FILL. POOH T/400'. REAM F/400' TO 738'. WIPER TRIP TO SEABED. DISP HOLE WITH 1150 BBLS 10 PPG HI-VIS MUD. POOH. R/U & RUN 30" CONDUCTOR. P/U SHOE JNT.	\$123,069	\$1,372,056
03/16/92	745	13		RUN 30" COND. R/U TENSIONING SYSTEM. LAND 30" COND, SHOE AT 718'. CMT 30" COND W/570 BBLS 14.0 PPG LEAD & 215 BBLS 15.8 PPG TAIL. CHANGE DRAWWORK BRAKE BANDS WHILE WOC.	\$336,664	\$1,708,719
03/17/92	745	14	9.5	CONT CHANGING DRAWWORK BRAKE BANDS.CUT 30" COND & N/U DIVERTER SYSTEM.RIH W/26" BIT & DRILL CMT & SHOE. DISP HOLE TO 9.5 PPH MUD.POOH. P/U 12.25" PILOT HOLE BHA.	\$138,463	\$1,847,183
03/18/92	1,780	15	9.6	RIH TO 738'. DRLG & SURVEY 12.25" HOLE F/738' T/1780'. CIRC BTMS UP. PUMP OUT TO 30" SHOE. POOH.	\$142,620	\$1,989,802
03/19/92	1,780	16	9.6	CONT POOH, L/D CDR & 12.25" BIT.M/U 6 STNDS DP.M/U MUDLINE MANIPULATION TOOL & RACK BACK.M/U WELLHEAD & RUNNING TOOL & L/D SAME. RIH W/26" BIT AND OPEN PILOT HOLE F/738' T/1590'.	\$130,556	\$2,120,358
03/20/92	1,780	17	10.0	CONT OPENING PILOT HOLE TO 26".CIRC HOLE CLEAN.DROP MULTI SHOT & POOH. R/U & RUN 20" CSG.NOT ABLE TO PASS 1060'.POOH W/CSG.M/U PACKED 26" BHA & RIH.	\$128,121	\$2,248,479
03/21/92	1,780	18	10.0	CONT M/U PACKED 26" BHA & RIH. REAM 26" HOLE F/718' T/1780'. CIRC HOLE CLEAN, POOH. R/U & RUN 20" CSG.SHOE AT 1754', WELL HEAD AT 53'.BREAK CIRC.R/U FALSE ROTARY & RIH W/CMT STINGER.	\$120,789	\$2,369,268
03/22/92	1,780	19	10.0	CONT RIH W/CMT STINGER.CIRC HOLE CLEAN. PUMP 375 BBLS LEAD & 249 BBLS TAIL.DISP W/34 BBLS MUD.WASH M/H AND SPOT DESCO PILL.POOH W/CMT STINGER.L/D 20" R/T.N/D DIVERTER.N/U BOP.	\$256,047	\$2,625,315
03/23/92	1,780	20	10.0	N/U 21.25" BOP. TEST BOP, ANNULAR 500/1400 PSI & RAMS 500/2000 PSI. PRESS TEST CSG TO 1500 PSI. L/D 26" BHA. M/U 17.5" BHA & RIH TO 1593'.SLIP & CUT DRLG LINE.	\$112,288	\$2,737,603
03/24/92	2,860	21	10.7	RIH.TAG TOC AT 1699'.DRILL CMT T/1712'.HELD KICK DRILL.CONT DRILL CMT/SHOE/CLEAN RATHOLE T/1780'. DRILL NEW FORMATION T/1790'.PERFORM LOT-EMW 15.0 PPG.CONT DRILL 17.5" HOLE T/2860'	\$131,147	\$2,868,750
03/25/92	4,329	22	11.8	DRILL AND SURVEY 17.5" HOLE F/2860' T/4329'.	\$142,558	\$3,011,309

PHILLIPS PETROLEUM
DAILY REPORT SUMMARY

PAGE:2

WELL:ELDFISK 2/7-28

FIELD:ELDFISK

CNTY/STATE: \NORWAY

RIG:MAERSK DRILLING/MÆRSK GUARDIAN

AFE#:6896

AUTH COST:\$21,700,000

DATE	DEPTH	RPT NO	MW	OPERATIONS SUMMARY	DAILY COST	CUM COST
03/26/92	4,925	23	13.0	DRILL AND SURVEY 17.5" HOLE F/4329' T/CSG POINT AT 4925'. (FLOWLINE PLUGGED W/GUMBO SEVERAL TIMES).CIRC TO CLEAN HOLE. BACKREAM TO CSG SHOE(FLOWLINE PLUGGED SEVERAL TIMES).CIRC.	\$172,302	\$3,183,611
03/27/92	4,925	24	13.0	CIRC HOLE CLEAN AT 20" CSG SHOE.POOH T/1305'.NO DRAG.RIH T/ 1700'.ADJUST DRAWWORK BRAKES.CONT RIH T/TO-4925'.NO FILL. CIRC.POOH.M/U 13.375" WH TO R-TOOL.L/D SAME.RUN 13.375" CSG.	\$159,048	\$3,342,659
03/28/92	4,925	25	13.0	CONT RUN 13.375" CSG AND LAND SAME IN MUDLINE HANGER. CIRC.MIX AND PUMP CMT.DISPLACE SAME W/RIGPUMPS.BUMP PLUG. OPEN ML HGR WASHPORTS AND CIRC OUT EXCESS CMT.	\$122,625	\$3,465,284
03/29/92	4,925	26	13.0	PUMP 70 BBL DESCO PILL AROUND ML HANGER. CLOSE WASHPORTS. NIPPLE AND LIFT 21.25" BOP.PULL TENSION ON LDG STRING,ADJUST LANDING COLLAR.TEST PACKOFF.N/D BOP.ISTALL WH FLANGE AND X/O	\$361,156	\$3,826,440
03/30/92	4,925	27	13.0	NIPPLE UP 13.625" BOP.	\$116,337	\$3,942,777
03/31/92	4,925	28	12.7	FINISH N/U BOP.INSTALL GATEVALVES ON WELLHEAD.TEST BOPS.LEAK ON LOWER KILL HCR VALVE AND LOWER CHOKE COFLEX HOSE.TEST CSG L/D EXCESS DCS.P/U AND M/U 12.25" CLEAN UP ASSY AND RIH.	\$124,176	\$4,066,953
04/01/92	4,965	29	13.0	RIH W/12.25" BIT.DRILL FLOAT COLLAR/SHOE/CLEAN RATHOLE.DRILL NEW FORMATION F/4925'T/4926'.CIRC.POOH.M/U 14" BHA.RIH.DRILL 14" HOLE T/4936'.PERFORM LEAK OFF TEST.DRILL 14" HOLE T/4965	\$183,768	\$4,250,721
04/02/92	6,003	30	14.5	DRILL AND SURVEY 14" HOLE F/4965' T/5344'.ATTEMPT TO TAKE SURVEY.NEG.DRILL T/5437'.ATTEMPT TO TAKE SURVEY.NEG.DRILL T/5910'.REPLACE WASHED SGL DP.TAKE SURVEY.DRILL TO 6003'.	\$140,920	\$4,391,641
04/03/92	7,038	31	14.5	DRILL AND SURVEY 14" HOLE F/6003' T/7038'.	\$136,798	\$4,528,439
04/04/92	7,770	32	14.5	DRILL AND SURVEY 14" HOLE F/7038' T/7400'.CIRC/CHANGE WASHED PISTON RUBBER ON MP # 3.CONT DRILL T/7725'.CIRC/RETIGHT BOLTS ON BLOWER MOTOR ON MP # 1.CONT DRILL T/7770'.	\$164,398	\$4,692,837
04/05/92	7,941	33	14.5	DRILL AND SURVEY 14" HOLE F/7770'T/7941'.FOUND CRACK ON DISCHARGE MODULES MP #3.DUE TO PUMP # 3 DOWN - POOH T/6575', NO DRAG.RIH,NO FILL.CIRC.POOH.M/U NEW BIT AND MWD.RIH.	\$182,536	\$4,875,373
04/06/92	8,350	34	14.5	DUE TO MP # 3 DOWN - CONT RIH T/CSG SHOE,CUT AND SLIP DRLG LINE,CONT RIH T/TO,CIRC AND COND MUD. DRILL AND SURVEY 14" HOLE F/7941' T/8350'.	\$128,034	\$5,003,408
04/07/92	8,975	35	14.5	DRILL & SURVEY 14" HOLE F/8,350' - T/8,975'. 625' - 27 FPH.	\$165,248	\$5,168,656
04/08/92	9,124	36	14.5	DRILL 14" HOLE F/8,975'-T/9,124'. LOST 600 PSI PUMP PRESS. POOH WET TO DETECT WASH OUTS. FOUND WASH OUT IN BIT. CHANGE BIT, MWD & JAR. RIH.	\$132,962	\$5,301,618
04/09/92	9,213	37	14.6	RIH W/14" BHA. DRILL F/9,124'-T/9,129'. REMOVE CAVINGS FROM O/BOARD DITCH. DRILL T/9,137'.STRIP & CHECK MP#2. DRILL TO 9,170'.CLEAN SUCTION STRAINERS. DRILL TO 9,213'.	\$134,761	\$5,436,379
04/10/92	9,266	38	14.5	DRILL 14" HOLE F/9,213'-T/9,264'. LOST CIRC. SPOT LCM PILL & PULL BACK T/8,600'. REGAIN CIRC. RIH & TAG BTM. LOST CIRC. SPOT LCM & POOH T/8,600'.CIRC.RIH & DRILL TO 9266'.LOST CIRC	\$160,291	\$5,596,670
04/11/92	9,266	39	14.5	BACKREAM F/9,250'-T/9,180'. TIGHT HOLE-NO RETURNS.SPOT 75 BL LCM PILL.NO RETURNS. REAM TO 9,226'. SPOT 100 BBL LCM PILL. POOH T/8,696'.GOT RETURNS.CIRC B/U.F/CHECK & POOH.RIH W/BIT.	\$177,569	\$5,774,239
04/12/92	9,277	40	14.5	RIH W/12.25" BIT T/8,720'.REAM T/9,261'. CIRC B/U. NO LOSSES DRILL 12.25" HOLE F/9,266'-T/9,277'. LOST CIRC. SPOT SEVERAL LCM PILLS. POOH T/8,637'. FULL RETURNS.WASH & REAM T/9,270'.	\$150,821	\$5,925,060
04/13/92	9,285	41	14.5	DRILL 12.25" HOLE F/9,277'- T/9,285'. LOSING MUD. PUMP SEVERAL 50 PPB LCM PILLS W/OUT SUCCESS. TOP UP ANNULUS W/SW. RIH T/9,285'.SPOT 250 BBL LCM PILL.60% RETURNS.POOH T/8,300'	\$162,352	\$6,087,412
04/14/92	9,285	42	14.5	LET PILL SOAK W/BIT AT 8,300'.FILLING ANN W/SW.START CIRC. MIX & PUMP CMT. NO SUCCESS. MIX NEW MUD & LCM PILL. RIH TO 9,270'. PULL BACK TO 9,070'. CIRC. LOST RETURNS- HIGH GAS.	\$156,653	\$6,244,065
04/15/92	9,285	43	14.5	PUMP 350 BBL LCM PILL. LOST RETURNS. MIX & PUMP ECONOLLITE/ CALCIUM CHLORIDE LCM PILL & 30 BBL CMT. PULL BACK TO 4,800'. CIRC W/OUT LOSSES. WASH & REAM F/4,904'-T/5,761'.	\$177,249	\$6,421,314
04/16/92	9,285	44	14.0	REAM & WASH F/5,761'-T/7,973'. CIRC B/U DUE TO LOSSES. CONT W.& R. F/7,973'-T/9,285'. 2' CMT ON BTM. CIRC B/U. INCREASE PUMPRATE TO 865 GPM. NO LOSSES. SPOT LCM PILL.POOH.	\$135,464	\$6,556,778
04/17/92	9,285	45	14.0	CONT POOH W/BIT F/8,300'. NO DRAG. R/U & RUN SCHLUMBERGER OH.LOGS. R/D SAME. PULL W/BUSHING & TEST BOP TO PPCO'S SPECS M/U 12.25" BIT & RIH.	\$122,372	\$6,679,150
04/18/92	9,298	46	14.0	CONT RIH W/12.25" BIT TO 9,100'. WASH & REAM TO 9,285'. CIRC B/U. DRILL T/9,294'. CIRC B/U. DRILL T/9,298'. CIRC B/U NO LOSSES. FLOWCHECK & POOH.	\$226,157	\$6,905,307

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AFE#: 6896

AUTH COST: \$21,700,000

DATE	DEPTH	RPT NO	MW	OPERATIONS SUMMARY	DAILY COST	CUM COST
04/19/92	9,298	47	14.0	POOH W/BIT. RERUN BIT & M/U 15" U/REAMER & RIH. SLIP & CUT. RIH T/9,295'. CIRC. U/REAM 12 1/4" HOLE TO 15" F/9,195'-TO 9,295'. CIRC B/U & POOH. M/U NEW U/REAMER, RERUN BIT & RIH.	\$142,770	\$7,048,077
04/20/92	9,298	48	14.4	RIH W/UNDERREAMER TO 4,904'. UNDERREAM 12.25" HOLE TO 15" FROM 4,914' TO 6,570'. 1,656' - 77 FPH.	\$136,427	\$7,184,504
04/21/92	9,298	49	14.4	CONT U/R 12.25" HOLE TO 15" F/6570' T/7546'. CIRC & COND MUD. CONT U/R F/7546' TO 7863'. PUMP PRESS INCR F/3400 PSI T/4200 PSI. CIRC. INCR MW F/14.4 T/14.5 PPG. FLOW CHECK. POOH.	\$162,098	\$7,346,602
04/22/92	9,298	50	14.4	POOH TO 7023'. HOLE TIGHT. PUMP/BACKREAM F/7023' T/6417'. CIRC B/U. POOH T/5010'. CIRC TO CLEAN BHA. POOH. 2 NOZZLES PLUGGED. RIH W/BIT T/7720'. BREAKING CIRC EVERY 2000'. REAM T/9072'.	\$118,877	\$7,465,479
04/23/92	9,298	51	14.5	REAM F/9258' T/9295'. LOST RETURNS. PUMP 150 BBL LCM, REGAIN RETURNS. POOH T/8816'. CIRC. REAM T/9284'. LOST RETURNS. PUMP LCM REGAIN CIRC. CUT MW TO 14.3 PPG. WASH/REAM TO TD AT 9298'.	\$167,359	\$7,632,838
04/24/92	9,304	52	14.3	CIRC HOLE CLEAN. RAISE MW TO 14.4 PPG. POOH. STRAP BHA, CORR TO 9304'. M/U 15" U/R & BHA. RIH TO 4915'. REAM TIGHT SPOTS F/4915' T/7863'. OPEN 12.25" HOLE T/15" F/7863' T/8162'.	\$130,787	\$7,763,625
04/25/92	9,304	53	14.4	OPEN 12.25" HOLE TO 15" F/8162' T/9158'. CIRC & COND MUD.	\$161,427	\$7,925,052
04/26/92	9,304	54	14.4	CIRC & COND. OPEN 12.25" HOLE TO 15" F/9158' T/9295'. POOH TO 9229 TO CIRC B/U LOST RETURNS. PUMP LCM, REGAIN FULL RETURNS. CIRC. CLEAN OUT TO 9130'. POOH TO CSG SHOE. CIRC. PUMP OOH.	\$127,527	\$8,052,579
04/27/92	9,304	55	14.4	PUMP OOH. P/U 18 JNTS 3.5" DP & RIH ON 5" DP. RIH T/9114'. WASH T/9294'. CIRC & COND MUD. PUMP & DISP 75 BBLs CMT & SET AS BALANCED PLUG AT TD. CIRC. POOH TO 4917'.	\$141,219	\$8,193,799
04/28/92	9,304	56	14.4	FINISH POOH. M/U AND RIH W/12.25" CLEAN UP ASSY. TOOK WT AT 8040'. WASH/REAM T/9260'. CIRC AND COND MUD. POOH. P/U 18 JNTS 3.5" DP AS CMT STINGER, RIH ON 5" DP T/9083'. WASH T/9176'.	\$114,686	\$8,308,485
04/29/92	9,304	57	14.4	CIRC/COND MUD AT 9260'. SET CMT PLUG F/9260' T/8960'. POOH T/8315'. CIRC/COND MUD. POOH. RIH W/12.25" BIT. TAG TOC AT 9203' DRESS CMT T/9220'. CIRC/INCREASE MWT T/15.0 PPG, NO LOSSES.	\$128,530	\$8,437,015
04/30/92	9,304	58	15.0	POOH T/SHOE. RIH T/9220' (REAM F/8204' T/8319', F/8765' T/8790', F/9200 T/9220'). CIRC. POOH T/8000'. RIH T/9220' (REAM F/8204' T/8319', F/9200 T/9220'). POOH. RIH. WASH W/ U/R F/4904' T/5131'.	\$137,908	\$8,574,923
05/01/92	9,304	59	15.0	WASH AND REAM 15" HOLE F/5131' T/8755'. SEVERAL TIGHT SPOTS.	\$138,694	\$8,713,617
05/02/92	9,304	60	15.0	WASH/REAM 15" HOLE T/BTM-9216'. BIT AT 9220'. SEVERAL TIGHT SPOTS. CIRC. POOH T/CSG SHOE. RIH. REAM F/8043' T/BTM. TIGHT SPOTS POOH T/8000'. REAM T/BTM (TIGHT SPOT F/8945 T/8960). CIRC.	\$155,019	\$8,868,636
05/03/92	9,304	61	15.3	CIRC/COND MUD. POOH T/5100'. MOP 40 KLBS. BACKREAM TO CLEAN BHA WHILE ENTERED SHOE, TEND TO PACK OFF. RIH T/7900'. REAM T/BTM. INC MWT T/15.6 PPG. POOH T/8000'. MOP 100 KLBS. RIH. REAM F/8128	\$140,829	\$9,009,465
05/04/92	9,304	62	15.6	WASH AND REAM T/BTM AT 9220'. SEVERAL TIGHT SPOTS. CIRC. POOH T/8000'. MOP 10 KLBS. RIH T/BTM. HOLE OK. CIRC AND COND MUD. PUMP OUT OF HOLE T/1470' AT RPT TIME.	\$133,240	\$9,142,704
05/05/92	9,304	63	15.6	PUMP OOH T/620'. POOH W/BHA. L/D U/R ASSY. M/U 12.25" BIT, BHA AND RIH, REAMED OUT SEVERAL TIGHT SPOTS. NO FILL AT BTM-9220'. PUMP HI-VISC PILL. POOH T/7900'. RIH T/BTM. REAMED TIGHT SPOTS.	\$128,237	\$9,270,941
05/06/92	9,304	64	15.6	CIRC OUT HI-VISC PILL. POOH T/7916'. MOP 25 KLBS. RIH T/TD, REAMED F/8735' T/8750' AND F/9031' T/9046'. CIRC OUT HI-VISC PILL. POOH T/7900'. RIH T/BTM, HOLE OK. CIRC OUT HI-VISC PILLS.	\$138,184	\$9,409,125
05/07/92	9,304	65	15.6	POOH T/5078'. PUMP INTO CSG SHOE. RIH T/BTM -9220'. HOLE OK. CIRC AND COND MUD. POOH T/CSG SHOE. PUMP OUT OF HOLE T/BHA. POOH W/BHA. R/U AND RUN LINER.	\$128,006	\$9,537,131
05/08/92	9,304	66	15.6	RUN 11.75" LINER. M/U RUNNING TOOL. RUN LINER ON DP LANDING STRING.	\$118,267	\$9,655,398
05/09/92	9,304	67	15.6	RUN 11.75" LINER ON 5" DP T/9216'. CIRC. MIX AND PUMP CMT. DISPLACE SAME AND BUMP PLUG. SET LINER AT BTM - 9220'. WOC - RELEASE RUNNING TOOL. POOH.	\$373,922	\$10,029,320
05/10/92	9,304	68	15.6	POOH. L/D LINER R-TOOL. RIH W/DP T/4610'. PERFORM INJECTION TEST. MIX AND PUMP CMT SLURRY, SQUEEZE SLURRY BETWEEN LINER AND CSG. POOH. L/D 8" DCs. TEST BOPS. M/U 12.25" ASSY. RIH.	\$139,491	\$10,168,811
05/11/92	9,304	69	15.6	RIH T/4160. WASH/REAM CMT T/TOL -4627'. ATTEMPT TO TEST LINER LAP, NEG. POOH. RIH W/CMT STINGER T/TOL. SET CMT PLUG F/4267' T/4108'. POOH T/3890'. SQUEEZE 60 BBLs CMT SLURRY. WOC. POOH.	\$124,738	\$10,293,549
05/12/92	9,304	70	15.6	POOH W/CMT STINGER. RIH WITH 12 1/4" BIT & CLEAN OUT TO TOL AT 4,627'. TEST LINER LAP - OK. POOH. RIH W. 10 5/8" BHA. CLEAN OUT TO LC AT 9,129'. CIRC PRIOR TO P/T LINER.	\$123,636	\$10,417,185

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AUTH COST:\$21,700,000

DATE	DEPTH	RPT NO	MW	OPERATIONS SUMMARY	DAILY COST	CUM COST
05/13/92	9,305	71	13.2	P/T LINER TO 2,000 PSI. DRILL L.C. & SHOE. DRILL & SURVEY RAT HOLE F/9,220'-T/9,305'. CIRC & POOH. L/O MWD TOOL. M/U U.REAMER & NEW MWD TOOL.	\$119,543	\$10,536,728
05/14/92	9,305	72	13.2	RIH W/13.5" U.REAMER & OPEN 10.625" HOLE TO 13.5" F/9,225'-T/9,302'. CIRC HOLE CLEAN & POOH. R/U & RUN 9.875" LINER.	\$125,283	\$10,662,011
05/15/92	9,305	73	13.2	RUN 9 7/8" LINER ON 5" DP TO 9,305'. CIRC STRING VOL. CMT LINER AS PER PROG. RELEASE R/TOOL & PULL BACK TO 8261'. CIRC B/U. POOH. RIH W/10 5/8" CLEAN OUT ASSY.	\$167,023	\$10,829,035
05/16/92	9,305	74	8.7	RIH W/10.625" BIT T/8,993'. WASH & REAM CMT TO TOL AT 9,072' P/T LINERLAP TO 2,000 PSI. DISPLACE TO SW.NO GAS. F.CHECK-OK POOH. RIH W/8.5" BHA. DRILL CMT, L.C. & F.C. TO 9,270'.	\$139,070	\$10,968,105
05/17/92	9,882	75	8.6	DRILL CMT & SHOE TO 9,305'. DRILL & SURVEY 8.5" HOLE F/9,305' T/9,570'. WIPERTRIP TO SHOE. DRILL & SURVEY T/9,823'. CIRC B/U-MAX GAS 1,951 U. DRILL & SURVEY T/9,882'.	\$129,413	\$11,097,518
05/18/92	10,000	76	8.7	DRILL 8.5" F/9,882'-T/10,000'. CIRC B/U & POOH TO SHOE. RIH NO FILL. CIRC B/U. HIGH GAS LEVEL. POOH TO LINER LAP. WELL NOT STATIC. RIH. RAISE MWT TO 9.0 PPG. RAISE MWT TO 9.2 PPG.	\$124,519	\$11,222,038
05/19/92	10,000	77	9.6	RAISE MWT T/9.2 PPG. PUMP OOH T/9,060'. NOT STATIC. RIH. INCR MWT T/9.6 PPG. PUMP OOH T/9,020'. NOT STATIC. RIH. INCREASE MWT T/10.0 PPG. PUMP OOH T/9,305'.	\$141,078	\$11,363,116
05/20/92	10,000	78	10.0	PUMP OOH T/9,020'. CIRC & F.CHECK. STATIC. POOH T/8,100'. WELL NOT STATIC. RIH. INCREASE MWT TO 11.0 PPG IN 0.2 PPG INCREMENTS.	\$130,659	\$11,493,775
05/21/92	10,000	79	11.2	CIRC & INCREASE MWT F/11.0 PPG T/11.6 PPG. PUMP OOH T/8,970' HOLE NOT STATIC. RIH TO TD. INCREASE MWT TO 11.7 PPG. F.CHECK, NOT STATIC. INCREASE MWT TO 11.8 PPG.	\$126,254	\$11,620,030
05/22/92	10,000	80	11.8	INCR MWT TO 11.8 PPG. WELL STATIC. POOH. RIH W/15" U.REAMER. UNDERREAM HOLE TO 15" F/9,350'-T/9,400' & F/9,560' T/9,610'. CIRC PRIOR TO PULL BACK TO 9,450'.	\$133,012	\$11,753,041
05/23/92	10,000	81	11.8	PIPE STUCK AT 9,495'. WORK & JAR UP TO 9,421'. WORK & JAR ON PIPE-NO GO.SPOT 50 BBL PIPELAX-NO GO. SPOT 36 BBL 15% HCL. LET SOAK, PULL STRING FREE.DISPL TO MUD.ATT TO PULL INTO LNR	\$126,765	\$11,879,807
05/24/92	10,000	82	11.8	CONT WORK U.REAMER INTO 9 7/8" LINER. SLIP & CUT DRLG LINE. POOH, FOUND U.REAMER DAMAGED. 1 CUTTER ARM LOST IN HOLE. P/T BOP. M/U & RIH W/8.5" JUNKMILL.	\$135,590	\$12,015,397
05/25/92	10,000	83	11.8	CONT RIH TO 9,305'. WASH TO 9,404'. MILL & PUSH JUNK F/9,404' T/9,414'. MILL ON JUNK THEN PUSH TO TD AT 10,000'. NO TORQUE WIPERTRIP TO SHOE, RIH, HOLE CLEAN. CIRC B/U. POOH.	\$123,045	\$12,138,442
05/26/92	10,001	84	11.8	POOH W/JUNK MILL, RECOVERED 40 LBS JUNK. M/U NEW MILL, RIH. MILL JUNK F/9999'-10000' & 1' FORMATION TO 10001'. CIRC B/U. POOH, RECOVERED 16 LBS JUNK.	\$119,528	\$12,257,970
05/27/92	10,001	85	11.8	RIH W/15" UNDERREAMER TO 9450', UNDERREAM F/9450'-T/9507', LOST RETURNS. PUMP & DISPL LCM PILLS. PULL BACK TO 8900'. DISPL HOLE TO 10.5 PPG MUD. POOH W/UNDERREAMER.	\$148,689	\$12,406,659
05/28/92	10,001	86	10.5	POOH W/UNDERREAMER. RIH W/8.5" JUNKMILL T/10001'. MILL ON JUNK AT 10001'. POOH T/9600'. SPOT 100 BBL LCM PILL. POOH TO 5700'. FAULTFINDING ON PURGE AIR SYSTEMS FOR RIG FLOOR.	\$138,241	\$12,544,900
05/29/92	10,001	87	10.5	POOH W/8.5" JUNK MILL. RIH W/12.25" UNDERREAMER, UNABLE TO PASS 9082'. POOH. RIH W/8.5" JUNK MILL & 8.6" STRING MILL. UNABLE TO PASS 9135', MILL 4". POOH.	\$132,069	\$12,676,969
05/30/92	10,001	88	10.7	CONT POOH W/MILLS TO 2921', WELL FLOWING. RIH T/9072'. CIRC & INCR MUD WT TO 10.7 PPG. POOH. RIH W/MILL & TELECO DPR TOOL.LOG OPEN HOLE.MILL ON JUNK AT 10001'.PUMP OOH TO 9072'.	\$127,713	\$12,804,682
05/31/92	10,001	89	11.1	WELL FLOWING, RIH TO TD. INCR MW TO 10.9 PPG. POOH TO TOP OF LINER, WELL FLOWING. RIH TO TD, INCR MW TO 11.8 PPG. POOH. M/U & RIH W/12.25" UNDERREAMING ASSY TO 9320'.	\$124,196	\$12,928,878
06/01/92	10,001	90	11.0	UNDERREAM 8.5" HOLE TO 12.25" F/9320'-T/9999'.	\$137,681	\$13,066,559
06/02/92	10,001	91	11.8	POOH W/12.25" U/R TO 9320', WASH/REAM TO 9999'. CIRC & INCR MW TO 11.8 PPG. POOH. RIH W/JRC BOMB, TAG JUNK AT 10001'. RUN & FIRE IGNITION CHARGE W/SCHL. CIRC & COND MUD.	\$127,457	\$13,194,016
06/03/92	10,008	92	11.8	POOH. M/U 8.5" MILLING ASSY, RIH TO 10001'. MILL ON JUNK TO 10008'. POOH.	\$133,071	\$13,327,087
06/04/92	10,008	93	11.8	POOH W/8.5" JUNK MILL, MILL 100% WORN. M/U 8.5" JUNK MILL, RIH TAG JUNK AT 10006'. MILL JUNK W/HIGH TORQUE AT 10006', NO PROGRESS. POOH, MILL 40% WORN. M/U JUNK RETRIEVER, RIH.	\$114,429	\$13,441,516

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06/05/92	10,008	94	11.8	RIH W/JUNK RETRIEVER TO 10000'. CIRC B/U. TAG FISH AT 10006' MILL DOWN TO 10008', ENGAGE JUNK GRAPPLE. POOH. RECOVER 10 LBS JUNK FROM CSG & 1' CORE. M/U 12.25" UNDERREAMER, RIH.	\$143,852	\$13,585,369
06/06/92	10,008	95	11.2	RIH W/12.25" UNDERREAMER TO 9320'. UNDERREAM F/9320'-9930', CUT MUD WT TO 11.0 PPG W/UNDERREAMING. POOH TO 9320'. REAM F/9320-9930'. CIRC & INCR MW TO 11.8 PPG.	\$136,817	\$13,722,185
06/07/92	10,008	96	11.8	CONT CIRC & INCR MW TO 11.8 PPG. POOH W/UNDERREAMER, FOUND PISTON BROKEN. M/U NEW 12.25" UNDERREAMER, RIH.	\$126,501	\$13,848,687
06/08/92	10,008	97	11.7	RIH W/12.25" UNDERREAMER TO 9360'. UNDERREAM F/9360'-T/9930' CIRC & COND MUD. POOH. RUN SCHL FMS/GR/AMS, CALIPER SHOWING 12.5" - 20" HOLE SIZE. R/U TO RUN 8.375" CSG.	\$160,364	\$14,009,051
06/09/92	10,008	98	11.8	RUN 836' 8.375" LINER.M/U R-TOOL W/PBR AND PACKER.RIH W/ 8.375" LINER ON 5" DP T/9062'.CIRC AND CUT MWT T/10.0 PPG. CONT RIH 9907'.M/U CMT HEAD.CIRC AND COND MUD T/10.0 PPG.	\$110,546	\$14,119,597
06/10/92	10,008	99	10.0	CIRC/COND MUD.DROP BALL AND CONVERT FLOATS. PUMP SPACER. MIX AND PUMP CMT SLURRY.DISPLACE SAME.BUMP PLUG.RELEASE R-TOOL.CIRC/COND MUD.POOH.M/U POLISH ASSY AND RIH.	\$243,290	\$14,362,886
06/11/92	10,008	100	11.8	RIH TO TOP OF PBR AT 9038'. POLISH SAME. ATTEMPT TO TEST PACKER, NO SUCCESS. CIRC B/U. POOH. R/U AND RUN 9.875" TIE BACK CSG.	\$112,668	\$14,475,554
06/12/92	10,008	101	11.8	RUN 9.875" TIE BACK CSG T/3781.CIRC DUE TO BACK FLOW.RUN CSG T/5500'.ELEVATOR STUCK ON CSG, FREE SAME.RUN CSG AND LAND ON PBR.PRESSURE TEST SEALS,OK.PULL OUT OF PBR AND CIRC.	\$122,544	\$14,598,098
06/13/92	10,008	102	12.0	CIRC/COND MUD.POOH W/10 JNTS CSG FOR SPACE-OUT. M/U 9.875" ML HGR.RUN LANDING STRING.M/U WH HGR.R/U TO CMT.ATTEMPT TO TEST PBR/CSG,CLUTCH TOOL LEAKING.WORK ON CLUTCH TOOL.	\$116,693	\$14,714,791
06/14/92	10,008	103	12.0	ASSEMBLY NEW CLUTCH TOOL.RIH W/CSG LANDING STRING. ENTER PBR, TEST SAME T/2000 PSI,OK. MIX AND PUMP CMT.PLUG DID NOT BUMP. LAND CSG.ATTEMPT TO SET SEAL ASSY.NO SUCCESS.	\$124,397	\$14,839,188
06/15/92	10,008	104	12.0	TEST BTM SEALS ON SEAL ASSY,OK. TEST BETWEEN TOP/BTM SEALS ON SEAL ASSY,OK. CHANGE AUTO INSIDE BOP ON TOPDRIVE. TEST BOPS. M/U 8.5" CLEAN UP ASSY AND RIH.	\$508,629	\$15,347,818
06/16/92	10,008	105	12.0	RIH W/8.5" BIT T/8782'.DRILL CMT T/CSG X/O AT 9033'.POOH. RIH W/7.375' BIT T/9033'.DRILL CMT T/9050'.RIH T/9300'.CIRC/ REP TO.RIH T/9690'.DRILL CMT T/LC-9773'.TEST CSG.DRILL ON LC	\$114,126	\$15,461,944
06/17/92	10,008	106	12.0	DRILL LC/FC/CMT T/9880'.TEST LINER/CSG.DRILL SHOE & CMT T/ 9922'.PERFORM LEAK OFF TEST,EMW 14.5.DRILL CMT/CLEAN RATHOLE T/10006'.POOH T/8941'.REP DW BRAKE.POOH.RIH W/CMT STINGER.	\$130,525	\$15,592,469
06/18/92	10,008	107	12.0	RIH T/10006'.CIRC.MIX AND PUMP CMT.DISPLACE SAME.POOH T/ 9550'.REVERSE CIRC.SQUEEZE 8 BBLs CMT INTO FORMATION.CIRC. POOH.M/U RTTS & RIH T/9005'.SET RTTS.TEST CSG,OK.POOH.	\$130,153	\$15,722,622
06/19/92	10,008	108	12.1	POOH W/RTTS.RIH W/7.375" BIT.TAG CMT AT 9717'.DRILL CMT T/9917'.CIRC B/U.PERFORM F.I.T. T/2600 PSI,EMW 17.0 PPG. POOH.M/U 7.375" SIDETRACK ASSY.	\$120,259	\$15,842,881
06/20/92	9,963	109	12.0	CONT M/U BHA AND RIH T/7318'. REPAIR BRAKE ON DRAW WORK. CONT RIH T/BTM AT 9917'.KICK OFF/ORIENT & DRILL 7.375" HOLE F/9917' T/9963'.	\$147,808	\$15,990,689
06/21/92	10,018	110	12.0	ATTEMPT TO K/O,ORIENT/DRILL F/9963'T/10018'.STRING TORQUED UP.CIRC B/U.POOH.RIH W/CMT TBG T/10018'.MIX AND PUMP CMT,SET A CMT PLUG F/10018 T/9700'.POOH T/9700'.REVERSE CIRC.	\$134,690	\$16,125,379
06/22/92	10,018	111	12.0	POOH, L/D CMT TBG. CUT & SLIP DRG LINE. FUNCTION TEST BOP. RIH W/7.375' BIT. TAG TOC AT 9727'. DRILL SOFT CMT T/9917', 10' BELOW CSG SHOE. CIRC B/U. POOH.	\$122,238	\$16,247,617
06/23/92	10,018	112	12.0	POOH W/DRESS OFF ASSY & B/O BIT. M/U 6" KICK OFF ASSY & RIH TO 9,920'. TIME DRILL & SIDETRACK FROM 9,920' TO 9,963'.	\$133,406	\$16,381,023
06/24/92	10,018	113	12.0	CONT SIDETRACK F/9,963'-9,988'. CIRC & POOH. M/U U.REAMER ASSY & RIH. UNDERREAM 6" HOLE TO 8.5" F/9,912'-T/9,933'.	\$128,014	\$16,509,037
06/25/92	10,018	114	12.0	UNDERREAM 6" HOLE F/9,933'-T/9,977'. CIRC B/U & DROP S.SHOT. POOH & L/O U.REAMER ASSY. RET S.SHOT-MISRUN. M/U 7 3/8" BHA & RIH TO 9,907'. WASH & REAM TO 9,988'. DRILL TO 9,991'.	\$134,948	\$16,643,985
06/26/92	10,038	115	13.0	DRILL 7.375" HOLE TO 10,028'. PERFORM F.I.T.. DISPLACE HOLE TO NEW MUD. DRILL TO 10,038'. MWD FAILURE. PERFORM F.I.T. POOH. FOUND STRING PARTED IN MWD. M/U O.SHOT & RIH TO 9,970'	\$122,152	\$16,766,137
06/27/92	10,043	116	13.0	ENGAGE FISH AT 9,996'. POOH & RECOVER SAME.M/U NEW BHA & RIH TAKE SURVEY & DRILL 7 3/8" HOLE F/10,038'-T/10,043'. GOT INDICATION OF POSSIBLE TWIST-OFF. POOH.	\$120,945	\$16,887,081

PHILLIPS PETROLEUM
DAILY REPORT SUMMARY

PAGE:6

WELL:ELDFISK 2/7-28

FIELD:ELDFISK

CNTY/STATE: \NORWAY

RIG:MAERSK DRILLING/MÆRSK GUARDIAN

AFE#:6896

AUTH COST:\$21,700,000

DATE	DEPTH	RPT NO	MW	OPERATIONS SUMMARY	DAILY COST	CUM COST
06/28/92	10,043	117	13.0	POOH, FOUND NAVIDRILL BACKED OUT. P/T BOP, SLIP & CUT. M/U FISH ASSY & RIH. WORK DOWN OVER FISH. FLOWCHECK & POOH. NO RECOVERY. MODIFY LIP GUIDE & INSTALL BENT SUB. RIH.	\$124,954	\$17,012,035
06/29/92	10,043	118	13.0	RIH W/FISHING ASSY & ATTEMPT TO ENGAGE FISH. NO GO. POOH. RIH W/CMT STINGER. CIRC B/U. SET CMT PLUG F/10,038'-T/9,720' PULL BACK TO 9,700'. CIRC B/U & POOH.	\$124,803	\$17,136,839
06/30/92	10,043	119	13.0	POOH W/CMT STINGER. RIH W.7 3/8" BIT & DRESS OFF CMT TO 9,917', 10' BELOW SHOE. POOH. M/U 6" SIDETRACK ASSY & RIH.	\$119,664	\$17,256,502
07/01/92	10,043	120	13.0	CONT RIH W/6" SIDETRACK ASSY. BRAK CIRC & TAG CMT AT 9,917'. RUN SPERRY SUN TO ORIENT TOOLFACE. TIMEDRILL & SIDETRACK 6" HOLE FROM 9,914' TO 9,958'. 44' - 2.6 FPH.	\$122,374	\$17,378,876
07/02/92	10,014	121	13.0	CONT TIMEDRILL & SIDETRACK 6" HOLE F/9,958' - T/10,014'. 56' - 2.33 FPH.	\$120,814	\$17,499,690
07/03/92	10,015	122	13.0	CONT DRILL TO 10,015'. CIRC & POOH. RIH W/8.5" U.REAMER. U.REAM 6" HOLE TO 8.5" F/9,912' - T/10,008'. FLOWCHECK. DROP SINGLE SHOT. PUMP SLUG & POOH.	\$126,395	\$17,626,085
07/04/92	10,149	123	13.0	POOH W/U.REAMER & L/O SAME. M/U 7.375" BHA & RIH. DRILL & SURVEY 7.375" HOLE F/10,015' - T/10,149'. 134' - 12.2 FPH.	\$155,069	\$17,781,154
07/05/92	10,154	124	13.0	DRILL F/10,149'-T/10,154'.GOT 300 PSI PRESS LOSS. POOH. FOUND 4 WASH-OUTS. TURBINE DAMAGED, L/O SAME. M/U 4 3/4" TURBINE. SURF.TEST TURBINE & MWD. RIH, INSPECT HMDP & DP.	\$117,967	\$17,899,122
07/06/92	10,372	125	13.0	CONT RIH TO 9,038'. SLIP & CUT DRLG LINE. RIH TO 10,154'. DRILL 7 3/8" HOLE T/10,184'.CIRC OUT GAS.INCR MWT T/13.5 PPG DRILL & SURVEY 7 3/8" HOLE T/10,374'. 17 FPH.	\$121,946	\$18,021,068
07/07/92	10,580	126	14.0	DRILL 7.375" HOLE F/10372'-T/10580'.	\$133,797	\$18,154,865
07/08/92	10,768	127	14.0	DRILL 7.375" HOLE F/10580'-T/10768'.	\$137,396	\$18,292,261
07/09/92	10,950	128	14.0	DRILL 7.375" HOLE F/10768'-T/10950'. POOH TO CSG SHOE AT 9907'. RIH TO 10600', ATTEMPT TO GET SIGNALS FROM MWD GAMMA SENSOR, NO SUCCESS.	\$136,135	\$18,428,396
07/10/92	10,950	129	14.0	RIH TO 10950'. CIRC B/U. POOH. R/U SCHL, RUN GR/DLL/SONIC/ MSFL/AMS, R/D SCHL. M/U UNDERREAMER ASSY, RIH.	\$133,812	\$18,562,208
07/11/92	10,950	130	14.0	RIH W/9" UNDERREAMER TO 9917'. U/R HOLE TO 9" F/9917'- T/10405', NOT ABLE TO CONFIRM SHOULDER. POOH. M/U NEW UNDERREAMER, RIH.	\$129,896	\$18,692,104
07/12/92	10,950	131	14.0	RIH W/9" UNDERREAMER TO 10405'. UNDERREAM F/10405'-T/10941'. WIPER TRIP TO SHOE. CIRC B/U. POOH.	\$134,977	\$18,827,081
07/13/92	10,950	132	14.0	POOH & L/D UNDERREAMER. R/U & RUN SCHL LOG LDL/CNL/AMS/GR. P/U & RUN 7"LINER, TOT 2067'. CONT RIH W/LINER ON 5" DP.	\$119,593	\$18,946,674
07/14/92	10,950	133	14.0	RIH W/7" LINER ON DP T/10920'.P/U CMT HEAD,BREAK CIRC.NOT ABLE TO PASS 10935'.PULL BACK T/10930'.CIRC.SET HGR.MIX/PUMP AND DISPLACE CMT.BUMP PLUG.POOH.TEST BOP.RIH W/POLISH ASSY.	\$216,559	\$19,163,232
07/15/92	10,960	134	14.0	RIH.CLEAN OUT PBR.CIRC.TEST 7" LINER T/7500 PSI.POOH.REP RIG RIH W/5.875" BIT T/7700'.SLIP/CUT.CONT RIH.DRILL CMT F/10760 ,LC,FC,SHOE-CLEAN RATHOLE.DRILL 10'NEW FORMATION T/10960'.	\$176,771	\$19,340,003
07/16/92	10,960	135	16.5	CIRC AND COND MUD. PERFORM F.I.T. TO EMW 17.5 PPG. CIRC AND INCREASE MWT TO 16.5 PPG. POOH. M/U 6.5" BI-CENTER BIT, DRLG ASSY AND RIH.	\$163,552	\$19,503,555
07/17/92	11,175	136	16.5	RIH W/BI-CENTER BIT T/10900'.WASH DOWN T/TD-10960'.PULL BACK T/10950'.REAM T/BTM.DRILL/SURVEY 6.5" HOLE F/10960' T/11027' CIRC B/U.DRILL T/11175'.CIRC B/U FOR SAMPLES.	\$118,376	\$19,621,931
07/18/92	11,202	137	16.5	CIRC B/U FOR SAMPLES.DRILL F/11175' T/11202'.CIRC B/U FOR SAMPLES.POOH T/10905'.RELOG W/MWD F/10885' T/11025'.POOH. REPAIR TOPDRIVE.M/U 60' COREBBL AND RIH.	\$135,127	\$19,757,058
07/19/92	11,264	138	16.5	RIH W/COREBBL TO 11100'.WASH DOWN TO BTM AT 11202'.CIRC BTM UP.DROP BALL & CUT CORE F/11202' T/11264'.POOH.RECOVER CORE. 97 % RECOVERY.RIH W/BI-CENTER BIT.	\$119,336	\$19,876,394
07/20/92	11,488	139	16.5	RIH T/11150'. WASH AND LOG T/11202'. REAM AND LOG 5.875" HOLE T/BTM-11264'. DRILL AND SURVEY 6.5" HOLE F/11264' T/11488'.	\$118,210	\$19,994,604
07/21/92	11,524	140	16.5	DRILL F/11488' T/11514'.CIRC FOR SAMPLES.100 % SAND.DRILL T/ 11524'.CIRC,100 % SAND.POOH T/SHOE.SLIGHT FLOW.RIH.INC MWT T/16.7 PPG.PO T/SHOE.SLIGHT FLOW.RIH.INC MWT T/16.9 PPG.POOH	\$116,587	\$20,111,190

PHILLIPS PETROLEUM
DAILY REPORT SUMMARY

PAGE:7

WELL:ELDFISK 2/7-28

FIELD:ELDFISK

CNTY/STATE: \NORWAY

RIG:MAERSK DRILLING/MÆRSK GUARDIAN

AFE#:6896

AUTH COST:\$21,700,000

DATE	DEPTH	RPT NO	MW	OPERATIONS SUMMARY	DAILY COST	CUM COST
07/22/92	11,547	141	16.9	RIH W/CORE BARREL TO 11524'. CUT CORE # 2 F/11524' T/11547'. CORE JAMMED. POOH. RECOVER CORE. 79 % RECOVERY. SERVICE CORE BBL. M/U 6.5" BI-CENTER BIT. RIH.	\$120,183	\$20,231,373
07/23/92	11,735	142	16.9	RIH T/SHOE AT 10930'. SLIP/CUT DRLG LINE. RIH T/11500'. REAM/ LOG T/BTM-11547'. DRILL/SURVEY 6.5" HOLE F/11547' T/11635'. CIRC B/U. DRILL T/11722'. REPAIR RIG. DRILL T/11735'.	\$113,581	\$20,344,954
07/24/92	12,019	143	16.9	DRILL AND SURVEY 6.5" HOLE F/11735' T/12019'. MWD STOPPED WORKING AT 12005', ATTEMPT TO START SAME, NEG.	\$114,440	\$20,459,394
07/25/92	12,332	144	16.9	DRILL 6.5" HOLE F/12019' T/12258'. CIRC BTM UP FOR SAMPLES. CONT DRILL T/12332'. CIRC TO CLEAN HOLE PRIOR TO POOH.	\$124,830	\$20,584,224
07/26/92	12,332	145	16.9	CIRC. OBS WELL-STATIC. POOH. BIT 45 % WORN. CHANGE MWD AND BIT. REPAIR RIG. CONT RIH T/11980'. LOG/REAM T/12275'. POOR LOG QUALITY F/12181'. RELOG F/12181' T/12250'.	\$153,967	\$20,738,190
07/27/92	12,612	146	16.9	REAM AND LOG F/12250' T/12332'. DRILL/SURVEY 6.5" HOLE F/12332' T/12396'. LOST MWD SIGNALS. DRILL F/12396' T/12612'. CIRC BTM UP FOR SAMPLES, ANHYDRITE.	\$118,372	\$20,856,563
07/28/92	12,772	147	17.0	CIRC & COND MUD. DRILL 6.5" HOLE F/12,612' -T/12,772'. PULL BACK TO 12,550'. CIRC & COND MUD. RAISE MWT TO 17.0 PPG POOH FOR LOGGING.	\$182,189	\$21,038,751
07/29/92	12,772	148	17.0	POOH FOR LOGGING. R/U & RUN SCHLUMBERGER O.H. LOGS AS PER PROGRAMME.	\$119,008	\$21,157,759
07/30/92	12,772	149	17.0	CONT RUNNING SCHLUMBERGER OPEN HOLE LOGS AS PER PROGRAMME.	\$114,065	\$21,271,824
07/31/92	12,772	150	17.0	COMPLETE O.H. LOGGING. RIH WITH 2 7/8" CMT STINGER. CIRC B/U. SET CMT PLUG F/11,800' -T/10,800'. PULL BACK TO 10,000'. CIRC B/U. L/O EXCESS DP WHILE WOC.	\$169,788	\$21,441,612
08/01/92	12,772	151	17.0	L/O EXCESS DP. TAG HARD CMT AT 10,105'. PULL BACK TO 9,100'. SET CMT PLUG #2 AT 9,000' -8,600'. REV. CIRC. POOH & L/O DP. RUN & SET EZSV PLUG ON WIRELINE AT 4,491'. R/D W.LINE.	\$258,422	\$21,700,034
08/02/92	12,772	152	12.0	TEST BRIDGE PLUG. SET CMT PLUG AT 4,500' -4,000'. PULL WEAR BUSHING & SEAL ASSY. CUT 9 7/8" CSG AT 800'. ENGAGE CSG & PULL SAME. PULL & L/O 9 7/8" CSG.	\$125,936	\$21,825,970
08/03/92	12,772	153		L/O 9.875" CSG. CUT 13.375" CSG, UNABLE TO CIRC UP ANN. DISPLACE HOLE TO SW. N/D DIV. & BOP. M/U WELLHEAD R/TOOL. BACK OUT LNDNG COLLAR. UNABLE TO BACK OUT 13 3/8" MLH R/TOOL.	\$110,963	\$21,936,933
08/04/92	12,772	154		CUT 13 3/8" CSG AT 385' & RETRIEVE SAME. RELEASE 20" MLH R/TOOL & RETRIEVE 20" CSG. SPOT CMT AT 1,100' -410'. RIH & CUT 30" COND AT 384'.	\$115,524	\$22,052,457
08/05/92	0	155		CUT 30" COND. NO GO. CHANGE KNIVES. CUT AT 384'. SPEAR COND PULL 149' COND. BACKED OFF. SPEAR COND AT 301'. PULL FREE WITH 28 KLBS. PULL 2 JNTS COND TO SURFACE & RELEASE SPEAR.	\$108,350	\$22,160,807
08/06/92	0	156		L/D SPEAR, STABS & 2 30" COND. L/D DP F/ DRK. PREP TO SKID CANTILEVER. JUMP ROV & LOCATE MISSING COND. SKID CANTILEVER. REMOVE TEXAS DECK AND PREPARE TO MOVE OFF LOCATION.	\$105,100	\$22,265,907
08/07/92	0	157		PREP TO MOVE. JACK DOWN AT 5 M AIRGAP. CONN TUGS. JACK DOWN TO 2 M DRAFT AND INSP HULL FOR LEAKS. JACK UP LEGS. 200 M OFF LOC AT 12:40 HRS. RELEASE STAND BY BOAT AT 12:40 HRS.	\$62,384	\$22,328,291

DAYSUM.RP1 03/04/93

PHILLIPS
DIMS Time Distribution Summary

GENERAL INFORMATION

WELL NAME: ELDFISK 2/7-28

DEPTH:

DRILLING CONTRACTOR:

SPUD DATE: 08/03/92

AFE NO: 6896

RIG NO:

RIG RELEASED DATE: / /

TIME DISTRIBUTION SUMMARY

TIME CODE	OPERATION	PLANNED		UNPLANNED		TROUBLE	
		HOURS	PCT	HOURS	PCT	HOURS	PCT
CE	CEMENTING	302.50	8	49.00	1		
CM	COMPLETION						
CR	CORING	43.50	1				
CS	CASING	354.00	9	54.50	1		
DR	DRILLING	1801.00	48	536.00	14	230.00	6
FI	FISHING	34.50	1			8.00	0
FT	FORMATION TESTING	3.50	0				
LG	LOGGING/FORMATION EVAL	71.50	2				
MV	MOVING	91.50	2				
PA	ABANDONMENT	124.00	3	1.50	0	18.00	0
RM	RIG MAINTENANCE	6.00	0				
WC	WELL CONTROL						
WO	WAITING ON . . .	7.50	0	29.00	1		
	TOTALS	2839.50	75	670.00	18	256.00	7

AFE Time Estimate:		Days	UNPLANNED	670.00	Hrs
Actual time:	156.9	Days	UNPLANNED	17.79	% Total
Difference:	156.9	Days	UNPLANNED		D/1000ft
Percent Difference:		%	Total Time		D/1000ft

PHILLIPS
DIMS Time Sub Feature Summary

GENERAL INFORMATION

WELL NAME: ELDFISK 2/7-28
DEPTH:
DRILLING CONTRACTOR:
SPUD DATE: 08/03/92

AFE NO: 6896
RIG NO:
RIG RELEASED DATE: / /

TIME SUB FEATURE SUMMARY

TIME CODE	OPERATION	PLANNED		UNPLANNED		TROUBLE	
		HOURS	PCT	HOURS	PCT	HOURS	PCT
	DRILLING						
DR0	SAFETY MEETINGS & DRILL	0.50	0				
DR1	NORMAL	492.50	13				
DR2	PICK UP/ LAY DOWN	9.50	0				
DR4	TRIPPING	570.00	15	195.00	5	26.00	1
DRm	PILOT HOLE			1.50	0		
DRc	SLIP & CUT	11.50	0	1.00	0		
DRd	WASHING	17.00	0	5.00	0		
DR5	CIRCULATE	202.00	5	112.50	3	7.50	0
DR7	EQUIPMENT REPAIR	16.00	0	58.00	2	2.50	0
DR8	EQUIPMENT TEST	5.00	0			1.00	0
DRg	OBSERVE WELL FOR FLOW	28.00	1	3.50	0		
DRn	HOLE OPENING, UNDERREAM	169.50	5	48.00	1		
DRb	HOLE SURVEY	23.00	1	2.50	0	5.50	0
DRA	JARRING	0.50	0			19.00	1
DRh	MILLING	30.50	1				
DR9	PRESSURE TEST	36.50	1	0.50	0	0.50	0
DRp	REAMING	77.00	2	69.50	2	19.00	1
DRq	DIRECTIONAL DRILLING	57.00	2				
DRz	OTHER	55.00	1	39.00	1	149.00	4
	MOVING						
MV1	NORMAL	3.50	0				
MV6	RIG UP / RIG DOWN	21.00	1				
MVn	TRANSIT	10.00	0				
MVq	LOCATION SURVEY	5.00	0				
MVr	POSITIONING	5.00	0				
MVu	JACKING	3.50	0				
MVv	SKID	6.50	0				
MVz	OTHER	37.00	1				
	CORING						
CR1	NORMAL	11.50	0				
CR4	TRIPPING	29.00	1				
CRg	OBSERVE WELL FOR FLOW	0.50	0				
CR5	CIRCULATE	2.50	0				
	CASING						
CS0	SAFETY MEETINGS & DRILL	1.00	0				

PHILLIPS
DIMS Time Sub Feature Summary

GENERAL INFORMATION

WELL NAME: ELDFISK 2/7-28
DEPTH:
DRILLING CONTRACTOR:
SPUD DATE: 08/03/92

AFE NO: 6896
RIG NO:
RIG RELEASED DATE: / /

TIME SUB FEATURE SUMMARY

TIME CODE	OPERATION	PLANNED		UNPLANNED		TROUBLE	
		HOURS	PCT	HOURS	PCT	HOURS	PCT
CS1	NORMAL	173.50	5	0.50	0		
CS2	PICK UP/ LAY DOWN	8.50	0	8.50	0		
CS4	TRIPPING	50.00	1	10.00	0		
CSc	SLIP & CUT			1.00	0		
CS5	CIRCULATE	35.00	1	3.50	0		
CS7	EQUIPMENT REPAIR	1.00	0	3.00	0		
CSe	NIPPLE UP / NIPPLE DOWN	59.00	2				
CS9	PRESSSURE TEST	13.50	0	1.50	0		
CS6	RIG UP / RIG DOWN	7.50	0	1.00	0		
CSz	OTHER	5.00	0	25.50	1		
	CEMENTING						
CE0	SAFETY MEETINGS & DRILL	0.50	0				
CE1	NORMAL	63.50	2	4.00	0		
CE4	TRIPPING	165.50	4	19.50	1		
CE5	CIRCULATE	38.50	1	9.00	0		
CE7	EQUIPMENT REPAIR			8.00	0		
CE9	PRESSSURE TEST	7.00	0				
CE6	RIG UP / RIG DOWN	1.50	0				
CEv	PLUG	8.50	0	1.00	0		
CEz	OTHER	17.50	0	7.50	0		
	LOGGING/FORMATION EVAL						
LG1	NORMAL	70.50	2				
LG6	RIG UP / RIG DOWN	1.00	0				
	FORMATION TESTING						
FT1	NORMAL	1.00	0				
FTz	OTHER	2.50	0				
	RIG MAINENTANCE						
RM3	RIG SERVICE	2.50	0				
RMm	RIG REPAIR	3.50	0				
	WAITING ON . . .						
WOj	CEMENT	7.50	0				
WOW	WEATHER			29.00	1		
	ABANDONMENT						
PA1	NORMAL	14.00	0				

PHILLIPS
DIMS Time Sub Feature Summary

GENERAL INFORMATION

WELL NAME: ELDFISK 2/7-28
DEPTH:
DRILLING CONTRACTOR:
SPUD DATE: 08/03/92

AFE NO: 6896
RIG NO:
RIG RELEASED DATE: / /

TIME SUB FEATURE SUMMARY

TIME CODE	OPERATION	PLANNED		UNPLANNED		TROUBLE	
		HOURS	PCT	HOURS	PCT	HOURS	PCT
PA4	TRIPPING	35.50	1				
PA5	CIRCULATE	11.00	0				
PAX	CUT PIPE	20.50	1	1.50	0	18.00	0
PA9	PRESSSURE TEST	0.50	0				
PAj	CEMENT	16.00	0				
PA6	RIG UP / RIG DOWN	8.50	0				
PAY	RETRIEVE WELLHEAD	2.00	0				
PAZ	OTHER	16.00	0				
	FISHING						
FI4	TRIPPING	22.00	1			6.00	0
FIy	PULL & RECOVER	7.00	0				
FIz	OTHER	5.50	0			2.00	0

PHILLIPS
DIMS Sorted Time Code Summary

GENERAL INFORMATION

WELL NAME: ELDFISK 2/7-28
 DEPTH:
 DRILLING CONTRACTOR:
 SPUD DATE: 08/03/92

AFE NO: 6896
 RIG NO:
 RIG RELEASED DATE: / /

SORTED TIME CODE SUMMARY

TIME	OPERATION	HOURS	PCT	DAYS	D/1000ft
DR	DRILLING	2567.00	68	106.96	
CS	CASING	408.50	11	17.02	
CE	CEMENTING	351.50	9	14.65	
PA	ABANDONMENT	143.50	4	5.98	
MV	MOVING	91.50	2	3.81	
LG	LOGGING/FORMATION EVAL	71.50	2	2.98	
CR	CORING	43.50	1	1.81	
FI	FISHING	42.50	1	1.77	
WO	WAITING ON . . .	36.50	1	1.52	
RM	RIG MAINTENANCE	6.00	0	0.25	
FT	FORMATION TESTING	3.50	0	0.15	

WELL 2/7-28 DOWN TIME RELATED PROBLEMS

MAIN ITEM	ROOT PROBLEM & ACTIVITIES RELATED TO ROOT PROBLEM	TROUBLE TIME IN HOURS	UNPLANNED TIME (change in csg design) IN HOURS	TOTAL DOWN TIME PER MAIN ITEM, IN HOURS
1	DOWN TIME RELATED TO UNSTABLE HOLE Boulder related hole problems in 38" hole Assembly related hole problems in 26" hole Gumbo related hole problems in 17 1/2" hole	96 28.5 16		140.5
2	DOWN TIME RELATED TO RIG EQUIPMENT 13 5/8" BOP leaking Problems with MUD PUMPS	6.5 32.5		39
3A	DOWN TIME RELATED TO LOST CIRCULATION PROBLEMS Lost circulation above the Top of Ekofisk Attempting to drill to top Ekofisk while curing losses, unable to drill on, plug back to run 11 3/4" liner -- Drill to top Ekofisk, U/R, run, cmt & clean out 9 7/8" liner -- Milling inside 9 7/8" liner to have more clearance for the 8 3/8" liner -- Test 8 3/8" liner separately with an RTTS	624	92.5 18 13.5	748
3B	Lost circulation other than above the Top of Ekofisk Lost circulation while underreaming chalk to 15"	12.5		12.5
4	DOWN TIME RELATED TO EQUIPMENT FAILURE (OR WRONG EQUIPMENT), SERVICE COMPANIES Wrong x-over for the 11 3/4" liner (modified) Seabed coring Washout in 4 3/4" Drill Collars Drill - Quip wellhead problems (clutch tool + seal assembly) Reunderreaming 12 1/4" hole due to U/R worn to 9" - 10" & one U/R failure 9" Underreamer failed. POOH and RIH with new. Teleco MWD 4 3/4" Smith MWD	2 18.5 30.5 26.5 76 10.5 1 16		181
5	DOWN TIME RELATED TO CEMENTING PROBLEMS Top of 11 3/4" liner had to be squeezed twice	18		18
6	DOWN TIME RELATED TO WELL CONTROL Well control problems in top Hod Well control problems in the 6.5" hole	89.5 11.5		101
7	DOWN TIME RELATED TO STUCK PIPE 15" Underreamer stuck in chalk	24		24
8	DOWN TIME RELATED TO FISHING/MILLING DUE TO PARTS/EQUIPMENT L/H a) Lost 15" U/R arm while backmilling inside 9 7/8" liner Milling on junk (U/R arm among other junk) JRC bomb on junk ADT junk retriever (fishing) Sidetrack around junk twice + U/R b) Twisted off drill pipe when drilling 7 3/8" hole Fishing for twisted off string c) Backed out Navidrill when drilling 7 3/8" hole Pull out of hole to pick up fishing equipment Fishing for Navidrill Sidetrack around Navidrill, U/R & drill 7 3/8" hole back to previous TD	12.5 162.5 11.5 17 173 14 8 28.5 121		548
9	DOWN TIME RELATED TO WAITING ON WEATHER Waiting on weather to run 30" conductor	36		36
	TOTAL DOWN TIME, IN HOURS			1848
	TOTAL DOWN TIME, IN DAYS			77
	TIME RIG SPENT ON LOCATION, IN DAYS			158
	PERCENTAGE DOWN TIME			48.73%
	PRODUCTIVE TIME, IN DAYS Time planned on location using a contingency 7 3/4" liner @ Jurassic, w/o running 5 1/2" liner & w/o DST's, in days			81
				79

Well Name: ELDFISK 2/7-28
API NUMBER: NO

FIELD: ELDFISK

PHILLIPS PETROLEUM COMPANY
DRILLING MUD RECAP

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REPT NO	DATE	DEPTH	TYPE	MW	VIS	PV	YP	GELS 10S/10M	PH	API WL	HTHP TEMP FL	FLT CKE	PF	MF	CL	CA	EXC LINE	S'LDS OIL TOTAL %	MBT RATIO	O/W RATIO	ES	COMMENTS
22	03/25/92	3095	Polymer	11.80	78	39	32	4 8	7.90	2.8	/	1	0.05	0.65	19200	220			9.00	/		
22	03/25/92	3669	Polymer	12.00	59	41	39	3 3	8.10	2.7	/	1	0.03	0.50	19200	220			8.00	/		
22	03/25/92	4253	Polymer	12.80	69	34	16	3 7	7.80	2.2	/	1	0.12	0.52	21000	200			12.50	/		
23	03/26/92	4580	Polymer	13.00	70	22	26	3 15	8.10	2.4	/	1	0.05	0.50	19000	200			12.00	0/		
23	03/26/92	4805	Polymer	13.00	64	24	18	3 9	8.20	2.8	/	1	0.05	0.50	19200	200			11.00	/		
23	03/26/92	4925	Polymer	13.00	75	41	43	8 25	8.10	2.6	/	1	0.03	0.40	19000	180			10.00	/		
24	03/27/92	4925	Polymer	13.00	73	28	14	3 4	8.20	4.1	/	1	0.03	0.30	19000	150			9.00	/		
24	03/27/92	4925	Polymer	13.00	75	28	14	3 4	8.10		/									/		
25	03/28/92	4925	Polymer	13.00	75	28	14	3 4	8.10	3.2	/	1	0.03	0.30	19000	150			9.00	/		
25	03/28/92	4925	Polymer	13.00	60	19	11	1 1	10.10	3.2	/	1	0.15	0.50	17500	200			8.00	/		
26	03/29/92	4925	Polymer	13.00	70	26	12	2 7	10.90	2.8	/	1	0.05	0.50	18000	180			9.00	/		
26	03/29/92	4925	Polymer	13.00	111	34	20	3 13	9.00	2.3	/	1	0.02	0.50	18000	180			9.00	/		
27	03/30/92	4925	Polymer	13.00	75	26	12	3 6	8.50	2.2	/	1	0.02	0.50	18000	180			9.00	/		
27	03/30/92	4925	Polymer	12.50	170	43	43	5 20	8.40	2.7	/		0.02	0.50	20000	200		1.0	7.00	/		BACTERIOLOGICAL CONTAMINATION IN MUD.
27	03/30/92	4925	Polymer	12.50	112	42	32	3 10	8.30	2.9	/	1	0.02	0.50	20000	200			7.00	/		
28	03/31/92	4925	Polymer	12.70	70	26	12	3 4	8.00	3.2	/	1	0.02	0.40	18000	180			7.00	/		
28	03/31/92	4925	Polymer	12.50	77	34	16	5 5	7.90	2.6	/	1	0.02	1.00	19400	220			6.00	/		
28	03/31/92	4925	Polymer	13.00	80	35	18	5 6	7.90	2.6	/	1	0.02	1.00	19400	220			6.00	/		
29	04/01/92	4905	Polymer	13.00	54	20	22	6 8	9.00	2.2	/	1	0.03	0.40	18000	300			6.00	/		
29	04/01/92	4926	Polymer	13.00	55	20	21	6 8	8.90	2.4	/	1	0.02	0.40	17000	280			6.00	/		
29	04/01/92	4936	Polymer	14.50	53	27	21	5 11	8.00	2.8	/	1		1.00	17000	220			6.00	/		
30	04/02/92	5218	Polymer	14.50	64	29	36	9 15	8.10	4.4	/	1	0.01	1.20	20000	240			9.00	/		
30	04/02/92	5351	Polymer	14.50	75	36	45	14 20	7.90	4.1	/	1	0.01	2.00	20000	280			10.00	/		
30	04/02/92	5960	Polymer	14.50	74	39	42	21 50	7.70	5.3	/	1		1.40	19000	200			15.00	/		INCR RATE OF DILUTION TO REDUCE RHEOLOGY

Well Name: ELDFISK 2/7-28		FIELD: ELDFISK														PHILLIPS PETROLEUM COMPANY DRILLING MUD RECAP										PAGE 4	
API NUMBER: NO																											
REPT NO	DATE	DEPTH	TYPE	MW	VIS	PV	YP	GELS 10S/10M	PH	API WL	HTHP TEMP FL	FLT CKE	PF	MF	CL	CA	EXC LIME	S'ILDS TOTAL	OIL %	MBT	O/W RATIO	ES	COMMENTS				
41	04/13/92	9285	SW/DRIS/SO	14.50	51	21	17	20 26	8.10	5.0	/	1		0.30	20000	120				10.00	/		FIGHTING LOSSES.				
41	04/13/92	9285	SW/DRIS/SO	14.50	52	22	8	5 35	10.00	3.2	/	1	0.20	2.00	12000	140		26.5		11.50	/		MUD RECEIVED FROM BOATS.				
42	04/14/92	9285	SW/DRIS/SO	14.50	59	26	16	6 16	9.80	4.0	/	1	0.10	0.60	12000	100		34.4		11.50	/		FIGHTING LOSSES. CIRC OUT GAS.				
42	04/14/92	9285	SW/DRIS/SO	14.50	52	21	9	8 30	11.00	3.4	/	1	0.20	1.80	12000	150		24.4		11.50	/		FIGHTING LOSSES.				
43	04/15/92	9285	SW/DRIS/SO	14.50	66	26	8	7 16	8.00	4.8	/	1		0.40	16000	110		24.2		10.00	/		PUMPING LCM/CMT PILL. BIT AT 9,111'.				
43	04/15/92	9285	SW/DRIS/SO	14.00	56	24	12	6 18	8.60	4.8	/	1	0.05	0.60	15000	100		22.2		9.00	/		WASH & REAM AT 5,300'.				
44	04/16/92	9285	SW/DRIS/SO	14.00	62	22	12	7 27	8.40	4.5	/	1	0.05	0.40	16000	100		23.2		10.00	/		REAMING F/4,904' - T/9,285'.				
44	04/16/92	9285	SW/DRIS/SO	14.00	60	23	15	8 26	8.30	3.4	/	1	0.10	1.40	16300	120		23.0		8.00	/		POOH FOR LOGGING. NO LOSSES.				
45	04/17/92	9285	SW/DRIS/SO	14.00	67	21	13	11 31	8.10	4.3	/	1		0.25	17500	80		22.0		8.00	/		POOH FOR LOGGING				
46	04/18/92	9285	SW/SOL/DR1	14.00	62	22	14	14 34	8.10	4.0	/	1	0.05	1.00	17	100		22.0		8.00	/		RIN W/12.25" BIT.				
46	04/18/92	9298	SW/DRIS/SO	14.00	55	21	13	9 27	8.20	4.1	/	1	0.05	1.00	17000	100		22.0		8.00	/		POOH AFTER DRILLED TO 9,298'. NO LOSSES.				
47	04/19/92	9298	SW/DRIS/SO	14.00	58	19	10	11 30	8.00	4.4	/	1		0.70	17000	80		22.0		10.00	/		RIN TO U/REAM F/9,195' - T/9,295'.				
47	04/19/92	9298	SW/DRIS/SO	14.00	56	22	14	10 29	8.30	6.0	/	1	0.60	1.25	15000	160		22.0		10.00	/		UNDERREAMING 12.25" HOLE TO 15" AT 9295'.				
48	04/20/92	6451	SW/DRIS/SO	14.40	56	25	23	21 31	8.20	5.3	/	1	0.10	1.10	15700	140		27.5		16.00	/		REAMING 15" HOLE. RUNNING CENTRIFUGE.				
48	04/20/92	5519	DW/DRIS/SO	14.40	55	24	26	20 40	8.10	5.1	/	1	0.10	1.10	16000	110		24.0		11.30	/		REAMING 12.25" T/15".RUNNING CENTRIFUGE				
49	04/21/92	7015	SEA/DR1/SO	14.40	65	24	26	23 36	7.90	5.4	/	1		1.00	18500	120		28.0		16.90	/						
49	04/21/92	7546	SEA/DR1/SO	14.40	60	20	37	22 38	8.30	6.4	/	2		1.10	18500	110		26.0		18.90	/						
49	04/21/92	7676	SEA/DR1/SO	14.40	51	16	32	19 30	8.20	6.3	/	2	0.05	1.00	16500	120		25.0		15.00	/						
49	04/21/92	7863	SEA/DR1/SO	14.50	50	18	25	12 25	8.20	6.3	/	2	0.05	1.00	16500	130		26.0		14.00	/						
50	04/22/92	9298	SEA/SOL/DR	14.40	62	22	32	22 30	8.20	5.4	/	2	0.15	0.70	20000	120		28.0		16.00	/						
50	04/22/92	8600	SEA/SOL/DR	14.50	60	15	24	22 30	8.20	6.0	/	2	0.15	0.80	19800	120				17.00	/						

Well Name: ELDFISK 2/7-28														PHILLIPS PETROLEUM COMPANY										PAGE 6			
API NUMBER: NO														DRILLING MUD RECAP													
FIELD: ELDFISK																											
REPT NO	DATE	DEPTH	TYPE	MW	VIS	PV	YP	GELS 10S/10M	PH	API WL	HTHP TEMP FL	FLT CKE	PF	MF	CL	CA	EXC LIME	S'LDS TOTAL	OIL %	MBT	O/W RATIO	ES	COMMENTS				
60	05/02/92	9218	SW/DRISP/S	15.00	56	26	23	16 35	8.40	5.7	/	1	0.03	1.70	19000	180				14.50	/						
60	05/02/92	8000		15.30	56	23	19	17 38	8.30	6.2	/	1	0.02	1.10	18000	180				16.00	/						
60	05/02/92	9220		15.30	59	28	17	15 36	8.20	6.0	/	1	0.01	1.00	18000	180				16.00	/						
61	05/03/92	9218	SW/DRISP/S	15.30	55	28	10	13 27	8.00	4.8	/	1	0.02	1.10	18000	180				13.20	/						
61	05/03/92	8000		15.50	58	23	13	9 30	8.00	5.2	/	1		0.70	18000	180				13.70	/						
61	05/03/92	9220		15.60	57	26	15	12 31	8.00	5.5	/	1		0.70	18000	170				13.70	/						
62	05/04/92	9220	SW/DRISP/S	15.60	58	28	16	16 27	8.00	5.2	/	1	0.10	1.10	18000	200				13.80	/						
62	05/04/92	9220		15.60	60	27	22	19 40	8.00	6.1	/	1		0.70	18000	180				15.00	/						
62	05/04/92	9220		15.60	60	28	17	12 32	8.00	5.4	/	1		0.80	18000	160				14.50	/						
63	05/05/92	9220	SW/DRISP/S	15.60	57	27	12	9 28	7.50	5.2	/	1	0.01	1.10	19000	180				13.50	/						
63	05/05/92	9220		15.60	64	30	22	12 30	7.80	4.8	/	1		0.70	18000	180				15.00	/						
63	05/05/92	7900		15.60	74	35	21	9 26	7.90	4.0	/	1		0.70	18000	160				14.50	/						
64	05/06/92	9220	SW/DRISP/S	15.60	69	43	35	15 30	7.70	5.0	/	1	0.01	0.90	18000	200				12.50	/						
64	05/06/92	9220		15.60	80	37	31	12 36	7.90	4.8	/	1		0.70	18000	180				14.00	/						
64	05/06/92	9220		15.60	75	37	29	12 34	7.90	4.9	/	1		0.70	18000	180				14.00	/						
65	05/07/92	9220	SW/DRISP/S	15.60	76	47	35	11 33	7.80	4.1	/	1	0.08	0.80	18000	200				12.50	/						
65	05/07/92	9220		15.60	73	40	28	10 32	7.80	4.6	/	1		0.60	18000	180				13.80	/						
66	05/08/92	9220	SW/DRISP/S	15.60	73	40	28	10 32	7.80	4.6	/	1		0.60	18000	180				13.80	/						
67	05/09/92	9220	SW/DRISP/S	15.60	78	39	27	13 36	7.70	4.1	/	1		0.75	18000	180				13.10	/						
67	05/09/92	9216		15.60	69	26	21	21 43	7.70	3.9	/	1		1.20	18000	160				12.50	/			24 MT BARITE USED IN CEMENT SPACER.			
68	05/10/92	9220	SW/DRISP/S	15.60	69	26	21	21 45	8.40	4.2	/	1	0.01	1.00	18000	160				12.50	/						
69	05/11/92	4627	SW/DRISP/S	15.60	61	26	20	22 44	9.50	4.8	/	1	0.05	0.65	20000	200				12.50	/						
69	05/11/92	3290		15.60	56	27	19	18 36	11.10	5.2	/	1	0.12	0.60	18000	160				12.50	/						
70	05/12/92	4521	SW/DRIS/SD	15.60	56	27	14	8 17	11.40	5.0	/	2	0.15	0.95	19000	160		29.0			12.50	/					
70	05/12/92	9118	SW/DRIS/SD	15.60	56	27	14	8 17	10.90	5.6	/	2	0.10	0.60	19000	140		29.0			12.50	/					

Well Name: ELDFISK 2/7-28
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FIELD: ELDFISK

PHILLIPS PETROLEUM COMPANY
DRILLING MUD RECAP

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REPT NO	DATE	DEPTH	TYPE	MW	VIS	PV	GELS 10S/10M	PH	API WL	HTRP TEMP FL	FLT CKE	PF	MF	CL	CA	EXC LIME	S'LDS TOTAL	OIL %	MBT	O/W RATIO	ES	COMMENTS
84	05/26/92	9635	Polymer	11.80	50	15	32	8.11	8.60	3.4	/	1	0.05	0.80	22000	160	14.3		2.00	/		
84	05/26/92	10001	Polymer	11.80	49	15	31	7.9	8.40	3.4	/	1	0.05	0.80	22000	160	14.3		2.00	/		
85	05/27/92	10001	Polymer	11.80	51	13	34	8.9	8.20	3.5	/	1	0.05	1.00	21000	160	14.3		2.00	/		
85	05/27/92	10001	Polymer	10.50	50	13	19	2.3	8.40	4.0	/	1	0.10	0.90	20000	140	8.2		1.00	/		
86	05/28/92	10001	Polymer	10.50	43	11	16	2.3	8.30	4.0	/	1		0.70	20000	140	8.3		1.00	/		
86	05/28/92	10001	Polymer	10.50	49	13	19	2.3	8.00	3.9	/	1		0.80	20000	140	8.2		1.00	/		
87	05/29/92	10001	Polymer	10.50	48	9	15	3.3	7.60	4.1	/	1		1.00	20000	180	8.8		1.00	/		
87	05/29/92	10001	Polymer	10.50	49	13	18	3.4	8.10	4.1	/	1		0.70	20000	200	8.8		1.00	/		
88	05/30/92	9100	Polymer	10.70	43	10	14	3.3	8.80	3.6	/	1	0.05	1.10	20000	200	8.8		1.00	/		
88	05/30/92	10001	Polymer	10.70	45	9	13	2.3	7.70	4.4	/	1		0.70	20000	200	8.8		1.00	/		
88	05/30/92	10001	Polymer	10.70	57	16	25	2.3	8.50	3.8	/	1	0.05	0.80	20000	220	8.8		1.00	/		
89	05/31/92	10001	Polymer	11.10	53	15	27	4.4		3.4	/	1		1.10	20000	220	9.8		2.00	/		
89	05/31/92	10001	Polymer	11.80	52	17	23	3.4	8.10	3.6	/	1		0.80	20000	200	13.8		1.00	/		
89	05/31/92	10001	Polymer	11.80	50	17	20	3.4	8.00	3.8	/	1		0.80	20000	200	13.8		1.00	/		
90	06/01/92	9500	Polymer	11.00	50	15	20	2.3	8.30	3.6	/	1		1.20	20000	220	9.8		2.00	/		
90	06/01/92	9750	Polymer	11.00	52	18	25	3.4	9.00	3.6	/	1	0.05	0.80	20000	220	10.8		2.00	/		
90	06/01/92	9993	Polymer	11.00	52	18	24	3.4	8.50	3.2	/	1	0.02	0.80	20000	240	10.8		2.00	/		
91	06/02/92	10001	Polymer	11.80	54	15	18	1.2	8.00	3.2	/	1		0.80	20000	240	13.8		2.00	/		
91	06/02/92	10001	Polymer	11.80	54	16	20	2.3	8.80	3.4	/	1	0.05	0.80	20000	240	13.8		2.00	/		
92	06/03/92	10001	Polymer	11.80	50	15	24	2.3	7.90	2.6	/	1		0.80	20000	260	13.8		2.00	/		
92	06/03/92	10001	Polymer	11.80	53	16	25	3.4	8.80	3.0	/	1	0.05	0.80	20000	260	13.8		2.00	/		
92	06/03/92	10005	Polymer	11.80	53	16	24	3.4	8.60	3.0	/	1	0.05	0.80	20000	240	13.8		2.00	/		
93	06/04/92	10008	Polymer	11.80	51	16	25	2.3	8.40	2.8	/	1		0.80	20000	280	13.8		1.00	/		
93	06/04/92	10008	Polymer	11.80	50	15	25	3.4	8.40	3.2	/	1		0.70	20000	280	13.8		1.00	/		
94	06/05/92	10008	Polymer	11.80	56	16	25	2.6	8.50	3.1	/	1	0.05	0.80	20000	260	13.8		1.00	/		

Well Name: ELDFISK 2/7-28
API NUMBER: NO

FIELD: ELDFISK

PHILLIPS PETROLEUM COMPANY
DRILLING MUD RECAP

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REPT NO	DATE	DEPTH	TYPE	MW	VIS	PV	YP	GELS 10S/10M	PH	API WL	HTHP TEMP FL	FLT CKE	PF	MF	CL	CA	EXC LIME	S/LDS TOTAL %	MBT	O/M RATIO	ES	COMMENTS
94	06/05/92	10008	Polymer	11.80	51	16	25	2 3	9.00	3.1	/	1	0.10	1.40	20000	280		13.8	1.00	/		
94	06/05/92	10008	Polymer	11.80	53	16	24	3 4	8.60	3.2	/	1	0.05	0.80	20000	280		13.8	1.00	/		
95	06/06/92	9710	Polymer	11.20	49	17	25	4 7	9.30	3.4	/	1	0.10	1.30	23000	320		11.6	1.00	/		
95	06/06/92	9799	Polymer	11.00	52	16	30	5 8	9.30	3.4	/	1	0.10	0.70	22000	280		10.2	1.00	/		
95	06/06/92	9919	Polymer	11.80	50	17	25	4 5	8.80	3.4	/	1	0.05	0.70	22000	280		13.8	1.00	/		
96	06/07/92	10008	Polymer	11.80	50	17	30	5 10	8.40	3.6	/	1	0.05	0.60	23000	300		13.2	1.00	/		
96	06/07/92	10008	Polymer	11.80	52	18	29	4 9	8.30	3.5	/	1		0.60	23000	300		13.2	1.00	/		
97	06/08/92	9517	Polymer	11.70	53	16	26	7 8	9.10	5.1	/	1	0.10	0.80	24000	180		12.6	1.00	/		
97	06/08/92	10008	Polymer	11.80	51	17	24	5 6	8.40	4.6	/	1		0.70	23000	220		13.2	1.00	/		
98	06/09/92	10008	SW/DRISPAC	11.80	53	15	27	5 8	8.50	4.4	/	1	0.05	0.60	23000	180			1.00	/		
98	06/09/92	9907		10.00	46	11	12	3 4	9.10	4.9	/	1	0.10	0.70	23000	240			1.00	/		
99	06/10/92	9907	SW/DRISPAC	10.00	58	17	32	7 8	8.30	3.2	/	1		0.50	23000	240			1.00	/		
99	06/10/92	9907		11.80	52	16	26	5 8	9.20	4.2	/	1	0.30	0.80	23000	270			1.00	/		
100	06/11/92	9030	SW/DRISPAC	11.80	53	17	25	5 8	9.40	4.0	/	1	0.40	1.00	23000	280			1.00	/		
100	06/11/92	10008		11.80	46	14	12	2 3	8.10	4.9	/	2		1.00	22000	400			1.00	/		
101	06/12/92	10008	SW/DRISPAC	11.80	41	14	11	3 4	7.90	5.8	/	2		1.20	22000	640			1.00	/		
101	06/12/92	9000		12.00	47	15	14	2 4	8.80	6.0	/	2	0.10	1.20	22000	320			1.00	/		
102	06/13/92	10008	SW/DRISPAC	12.00	47	19	16	3 5	9.40	5.8	/	1	0.20	1.40	22000	480			1.00	/		
102	06/13/92	10008		12.00	44	16	12	2 3	9.00	5.8	/		0.20	1.20	22000	520			1.00	/		
103	06/14/92	10008	SW/DRISPAC	12.00	44	16	11	3 4	8.00	5.5	/	1		1.00	22000	600			1.00	/		
104	06/15/92	10008	SW/DRISPAC	12.00	43	13	15	2 3	8.60	6.4	/	1		1.10	22000	640			1.00	/		
104	06/15/92	10008		12.00	43	15	12	3 4	8.40	6.4	/	1	0.10	1.20	22000	640			1.00	/		
105	06/16/92	9033	GEL/SW/DRISPAC	12.00	44	13	14	3 4	10.10	7.6	/	2	0.20	1.00	22000	800			1.00	/		
105	06/16/92	10008	SW/DRISPAC	12.00	75	23	16	2 3	11.40	2.9	/	1	0.20	1.40	20000	640			3.10	/		
105	06/16/92	9773	SW/DRISPAC	12.00	44	15	8	2 3	10.40	4.4	/	1	0.10	1.30	21000	800			3.10	/		

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REPT NO	DATE	DEPTH	TYPE	MW	VIS	PV	YF	GELS 10S/10M	PH	API WL	HTHP TEMP FL	FLT CKE	PF	MF	CL	CA	EXC LIME	S'LDS TOTAL	OIL %	MBT RATIO	ES	COMMENTS
106	06/17/92	9880	SW/GEL/DRI	12.00	54	14	18	3 10	9.60	4.8	/	1	0.15	1.60	20000	800				6.00	/	
106	06/17/92	10008		12.00	53	19	19	4 18	10.60	5.4	/	1	0.10	1.70	18000	880				6.00	/	
107	06/18/92	10006	SW/GEL/DRI	12.00	50	19	16	3 14	9.70	4.8	/	1	0.15	0.70	22000	680				6.00	/	SOLIDS CONTENT : RETORT NOT ARRIVED.
107	06/18/92	9711	SW/GEL/DRI	12.10	45	21	17	5 18	11.50	4.2	/	1	0.25	3.00	22000	880				6.00	/	
107	06/18/92	9711	SW/GEL/DRI	12.00	50	16	16	3 18	10.70	4.6	/	1	0.15	0.35	22000	960				6.00	/	
108	06/19/92	9711	SW/GEL/DRI	12.10	50	19	14	5 16	11.04	4.4	/	1	0.15	1.90	20000	880				6.50	/	
108	06/19/92	9917	SW/GEL/DRI	12.00	53	17	12	3 16	11.00	5.0	/	1	0.15	1.75	22000	880				6.00	/	
109	06/20/92	9917	SW/GEL/DRI	12.00	46	16	12	4 18	11.10	5.2	/	1	0.10	1.80	21000	900				6.00	/	
109	06/20/92	9920		12.00	58	17	15	3 15	11.00	4.6	/	1	0.20	1.40	20000	720				6.00	/	
109	06/20/92	9951		12.00	56	16	15	3 15	10.90	4.6	/	1	0.20	1.20	20000	700				6.00	/	
110	06/21/92	10005	SW/GEL/DRI	12.00	52	19	16	5 18	11.20	5.6	/	1	0.20	1.70	20000	680				6.30	/	
110	06/21/92	10018	SW/GEL/DRI	12.00	53	18	16	3 13	11.20	5.4	/	1	0.15	1.90	20000	800				6.00	/	
111	06/22/92	9727	SW/GEL/DRI	12.00	52	17	16	4 15	11.70	5.2	/	1	0.20	1.90	20000	800				6.50	/	
111	06/22/92	9917	SW/GEL/DRI	12.00	55	17	17	4 15	11.60	4.8	/	1	0.20	1.90	20000	840				6.00	/	
111	06/22/92	1	THERMADRI	13.00	44	16	8	4 16	11.25	2.0	300/ 10.0	1	0.30	1.50	8000	480				6.50	/	THERMADRI.
112	06/23/92	9917	SW/GEL/DRI	12.00	53	17	18	3 13	11.50	5.0	/	1	0.15	1.70	20000	800		14.9		6.00	/	RIN WITH SIDETRACK ASSY
112	06/23/92	9960	SW/GEL/DRI	12.00	55	16	15	3 11	11.30	5.6	/	1	0.20	1.60	20000	800		15.9		6.00	/	TIMEDRILLING/SIDETRACKING
113	06/24/92	9980	SW/GEL/DRI	12.00	55	24	16	2 12	11.20	4.8	/	1	0.20	2.00	20000	900		17.0		5.50	/	SIDETRACK
113	06/24/92	9920	SW/GEL/DRI	12.00	54	19	16	3 10	11.20	4.6	/	1	0.15	1.90	20000	860		16.0		3.70	/	UNDERREAMING
114	06/25/92	9988	SW/GEL/DRI	12.00	60	22	17	3 12	11.00	4.0	/	1	0.15	1.80	20000	1100		17.0		3.50	/	UNDERREAMING
114	06/25/92	9985	SW/GEL/DRI	12.00	61	22	16	3 11	10.90	4.2	/	1	0.15	1.60	20000	1000		17.0		3.50	/	REAM 6" HOLE W.7 3/8" BIT.
115	06/26/92	10027	THERMADRI	13.00	46	17	8	4 18	11.20	2.0	/ 0.0	1	0.30	1.50	8000	500		22.0		6.00	/	
115	06/26/92	10038	THERMA-DRI	13.00	47	16	10	4 17	11.10	2.2	300/ 10.6	1	0.30	1.20	8000	500		22.0		6.00	/	RIN WITH OVERSHOT
116	06/27/92	10038	THERMADRI	13.00	40	15	10	5 20	10.20	2.0	300/ 10.0	1	0.15	1.70	7500	500		22.0		6.30	/	POOH & RECOVER FISH.
116	06/27/92	10043	THERMADRI	13.00	45	17	9	2 21	10.30	2.3	300/ 10.3	1	0.15	0.75	7500	520		21.6		6.20	/	DRILLING 7 3/8" HOLE.

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137	07/18/92	11202		16.60	47	21	19	4 14	11.30	1.6	300/ 15.0	21	0.80	3.20	8000	320				8.00	/	
138	07/19/92	11202	THERMA-DRI	16.50	43	23	16	5 14	11.30	1.8	300/ 15.0	21	0.80	3.50	7500	320				8.00	/	
138	07/19/92	11242		16.50	44	23	14	3 10	11.30	1.8	300/ 15.0	21	0.80	3.20	7500	340				8.20	/	
138	07/19/92	11264		16.60	45	20	14	3 9	11.40	1.8	300/ 14.2	21	0.80	3.20	7500	320				8.00	/	
139	07/20/92	11270	THERMA-DRI	16.50	43	21	9	3 9	11.60	1.6	300/ 14.0	21	1.00	3.30	7500	340				8.50	/	
139	07/20/92	11315		16.50	43	17	13	3 8	11.60	1.7	300/ 12.0	21	0.85	3.40	7500	260				8.50	/	
139	07/20/92	11445		16.50	40	18	17	4 11	11.10	1.7	300/ 12.8	21	1.00	3.10	8000	360				8.50	/	
140	07/21/92	11524	THERMA-DRI	16.50	43	21	12	3 10	11.40	1.7	300/ 14.0	21	1.00	3.40	7500	300				8.50	/	
140	07/21/92	11524		16.90	42	19	14	3 12	11.00	1.6	300/ 12.0	21	0.40	2.40	8000	380				8.50	/	
141	07/22/92	11524	THERMA-DRI	16.90	42	21	9	3 10	11.40	1.7	300/ 14.0	11	0.70	3.20	7500	320				8.70	/	
141	07/22/92	11524		16.90	45	20	11	4 15	11.00	1.5	300/ 16.0	11	0.90	3.60	7500	300				8.50	/	
141	07/22/92	11547		16.90	45	17	18	4 10	11.40	1.5	300/ 12.0	11	1.10	4.80	8000	300				8.50	/	
142	07/23/92	11527	THERMA-DRI	16.90	41	22	10	3 10	11.30	1.6	300/ 12.0	11	0.90	3.70	7500	300	0.7			8.70	/	
142	07/23/92	11568		16.90	43	20	10	3 10	11.30	1.4	300/ 12.0	11	1.10	3.50	7500	300	0.7			8.70	/	
142	07/23/92	11643		16.90	47	20	10	3 12	11.50	1.4	300/ 12.0	11	1.40	3.60	7500	280	0.7		1	8.70	/	
142	07/23/92	11722		16.90	45	19	11	2 13	11.40	1.3	300/ 11.2	11	1.20	3.20	7300	240	0.7		2	10.00	/	
143	07/24/92	11830	THERMA-DRI	16.90	45	33	15	3 14	11.20	1.4	300/ 8.0	11	1.10	3.60	8000	300	0.6			8.70	/	
143	07/24/92	11858		16.90	44	23	15	4 14	11.30	1.5	300/ 10.0	11	0.90	3.30	8000	280	0.7			8.70	/	
143	07/24/92	11995		16.90	46	21	11	1 14	11.20	1.6	300/ 10.8	11	1.10	3.60	7500	200	0.7		1	8.70	/	
144	07/25/92	12072	THERMA-DRI	16.90	48	24	10	4 15	11.60	1.4	300/ 11.0	11	1.20	3.40	8000	240	0.5		1	8.70	/	
144	07/25/92	12173		16.90	53	23	14	5 20	11.30	1.6	300/ 9.6	11	1.20	3.40	8000	220	0.7		1	8.70	/	
144	07/25/92	12308		16.90	48	19	12	4 18	11.50	1.4	300/ 10.2	11	1.50	4.10	7500	200	0.8		1	10.00	/	
145	07/26/92	12332	THERMA-DRI	16.90	42	20	9	2 14	11.50	1.5	300/ 9.0	11	1.30	3.90	7500	240	0.8			8.80	/	
145	07/26/92	12200		16.90	47	19	9	3 20	11.20	1.6	300/ 10.2	11	1.30	3.80	7500	220	0.8			8.80	/	
146	07/27/92	12356	THERMA-DRI	16.90	41	19	7	2 11	11.50	1.6	300/ 10.0	11	1.30	4.20	7500	280	0.7			8.80	/	

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BIT NO	MAKE	TYPE	SIZE	IADC CODE	BIT COST	COST \$/FT	DEPTH(feet) IN OUT	BIT GRADING/CONDITION 1/0/D /LOC /B/G /O /T/RSN	CUMULATIVE FEET HRS	FLOW PUMP RATE PRES	RPM RANGE	MOB RANGE	COMMENTS			
19	DBS	TBT-26	6.00	D8X6	15000	603.53	9917.00 9988.00	1/2/NO/S /D/1 /NO/ /BHA	43 15.5 86 31.0	2.77 190 2.77 190	1325 1325	2\ 3 2\ 3	SIDETRACK			
1	Reed	Y11	26.00	111	14000	54.12	369.00 662.00	1/1/SS/A /1/1 /SS/ /PR	166 12.0 293 22.0	13.83 1700 13.32 1500	1600 2100	40\ 80 40\ 90	1\ 8 1\ 8	HIGH ANGLE		
2	Hughes	ATX-G1	17.50	115	12000	192.44	662.00 735.00	1/1/NO/A /1/1 /NO/ /TD	0 0.0 73 1.5	0.00 1400 48.67 1350	1850 1900	80\120 80\120	1\ 3 3\ 9			
1	Reed	Y11	26.00	111	14000	205.10	420.00 495.00	1/1/NO/ /1/1 /NO/ /PR	75 3.0	25.00 1402	740	60\	1\ 5	HIGH ANGLE		
2	Hughes	ATX-G1	17.50	115	12000	43.31	420.00 745.00	2/2/MT/ /1/1 /NO/ /TD	0 0.0	0.00 1500	740	60\100	1\ 3	REAMING		
2	Hughes	ATX-G1	17.50	115	12000	40.80	400.00 745.00	2/2/MT/A /1/1 /NO/ /TD	0 0.0	0.00 1500	800	60\	1\ 5	RUN BELOW 36" H/O.		
2	Hughes	ATX-G1	17.50	115	12000	0.00	745.00 745.00	2/2/MT/A /1/1 /NO/ /TD	0 0.0	0.00 740	475	25\	0\ 0	RUN BELOW 36" H/O, WHILE CI		
2	Hughes	ATX-G1	17.50	115	12000	0.00	745.00 745.00	2/2/MT/A /1/1 /NO/ /TD	0 0.0	0.00 1760	2500	40\	0\ 0	RUN BELOW 36" H/O		
1	Reed	Y11	26.00	111	14000	501.77	706.00 738.00	1/1/SS/ /1/1 /NO/ /TD	0 0.0	0.00 1750	2950	40\ 60	5\ 15	HIGH ANGLE		
1	Reed	Y11	26.00	111	14000	18.20	738.00 1780.00	2/2/MT/A /2/1 /NO/ /TD	0 0.0 380 3.5	0.00 1480 108.57 1424	1800 1900	140\200 140\160	3\ 10 5\ 10	OPENED 12.25" PILOT HOLE.		
1	Reed	Y11	26.00	111	14000	17.85	718.00 1780.00	2/2/MT/A /2/1 /NO/ /TD	0 0.0 1480 7.5	0.00 1388 197.33 1400	1400	100\150	0\ 0 5\ 10	REAM 26" HOLE.		
4	Hughes	MAX-G1	17.50	114	17000	9.52	1699.00 4925.00	2/2/BU/C /2/1 /NO/ /TD	0 0.0 1161 19.0 2630 42.0 3226 50.5	0.00 1268 61.11 2130 62.62 1269 63.88 1269	2130 200\230 3600	1200 40\ 50 200\230	0\ 0 5\ 15 40\ 50			
3	Hughes	ATM-G1	12.25	117	13000	23973.31	3925.00 3926.00	1/1/NO/A /2/1 /NO/ /BHA	-3243 32.0 -1464 31.5 0 0.0 835 31.5 1042 17.5 2094 31.5	-101.34 1066 -46.48 0.00 26.51 59.54 1355 66.48 1505	2400 2400 1180 1800	180 130\150 130\150	10\ 15 0\ 0 0\ 0 0\ 0 5\ 10 5\ 10	CLEAN OUT CMT.DRILL 1" NEW F		
5	DBS	TD-13L-BC	14.00		60000	27.24	4926.00 7941.00	0/0/CT/A /D/1 /BT/ /RR	39 1.5 1077 24.0 2112 48.0 2844 70.0 3015 75.5	26.00 1066 44.88 1066 44.00 1045 40.63 1013 39.93 1013	3900 4300 4400 4400 4500	80\100 100\120 80\120 80\120 80\120	1\ 5 500\ 5 500\ 5 2\ 5 2\ 5	PILOT BIT:80 % USED. 14" SE		
6	DBS	TD-13L-BC	14.00		60000	72.21	7941.00 9124.00	1/1/NO/A /D/1 /NO/ /MO	0 0.0 409 15.0 1034 38.0 1183 45.0	0.00 938 27.27 938 27.21 938 26.29 938	4500 4500 4500 4500	80\120 80\120 80\120 80\120	0\ 0 500\ 5 500\ 5 500\ 5	WASH OUT		

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5	DBS	TD-13L-BC	14.00		60000	604.39	9124.00	9266.00	6/7/BT/A /D/1 /BT/ /HP	0 89 142	0.0 12.0 19.5	0.00 7.42 7.28	881 4500 881	4500 140 4500	140 140 140	0 10 10	0 15 12	PILOT BIT:80 % USED. 14" SE
7	Hughes	ATM-11C	12.25	447	0	1361.91	9266.00	9285.00	2/2/NO/A /3/4 /NO/ /LOG	0 11 19	0.0 1.5 3.0	0.00 7.33 6.33	503 140 503	140 135 140	135 135 135	0 5 1	0 10 5	DRILL 19'. REAM & WASH 4381
8	Hughes	ATM-11C	12.25	447	13960	3067.30	9285.00	9298.00	0/0/NO/A /0/1 /NO/ /TD	13	2.5	5.20	520	1000	140\150	10\ 14	DRILLED TO TD	
8	Hughes	ATM-11C	12.25	447	13960	0.00	9298.00	9298.00	0/0/NO/A /0/1 /NO/ /TD	100	3.0	33.33	840	2600	150\	1\ 15	U/REAM HOLE T/15" F/9,195'-	
8	Hughes	ATM-11C	12.25	447	13960	12.12	4904.00	7863.00	2/2/NO/A /2/1 /NO/ /PN	0 1656 2949 5908	0.0 21.5 35.5 49.5	0.00 77.02 83.07 119.35	920 3900 920 920	4050 140\165 4200 4200	120\150 500\ 13 140\165 500\ 13	0\ 0 500\ 13 500\ 13 500\ 13	0 13 13 13	U/R
7	Hughes	ATM-11C	12.25	447	0	4321.53	9298.00	9304.00	2/2/NO/A /4/4 /NO/ /TD	0 1098 2196	0.0 0.0 0.0	0.00 0.00 0.00	896 370 370	2800 900 900	200\250 200\250 200\250	0\ 10 0\ 10 0\ 10	CLEANOUT RUN/REAMING (DRILL	
8	Hughes	ATM-11C	12.25	447	13960	0.00	9304.00	9298.00	2/2/NO/A /2/1 /PN/ /BHA	299 1265 1402 1539	6.0 28.5 32.5 36.5	49.83 44.39 43.14 42.16	900 900 900 900	4050 4000 4000 4000	120\150 120\150 120\150 120\150	0\ 10 0\ 10 0\ 10 0\ 10	0 10 10 10	RUN BELOW 15" U/R
3	Hughes	ATM-G1	12.25	117	13000	0.00	9260.00	9260.00	1/1/NO/A /2/1 /NO/ /HP	0	17.5	0.00	714	2800	140	0\ 15	CLEAN OUT CMT.	
3	Hughes	ATM-G1	12.25	117	13000	0.00	9203.00	0.00	1/1/NO/A /2/1 /NO/ /BHA	17	0.5	34.00	611	1800	100	0\ 10	DRILL CMT.	
8	Hughes	ATM-11C	12.25	447	13960	0.00	9220.00	9220.00	2/2/NO/A /2/1 /NO/ /BHA	0	0.0	0.00	938	3900	0\125	0\ 0	0	RUN BELOW 15" U/R
3	Hughes	ATM-G1	12.25	117	13000	0.00	9220.00	9220.00	1/1/NO/A /2/1 /NO/ /TD	0	0.0	0.00	1066	4200	0\150	2\ 25		
3	Hughes	ATM-G1	12.25	117	13000	0.00	4627.00	4627.00	1/1/NO/A /2/1 /NO/ /DP	0	0.0	0.00				0\ 0	0	WASHED/REAMED SOFT CMT
3	Hughes	ATM-G1	12.25	117	13000	189.03	4490.00	4627.00	1/1/NO/A /2/1 /NO/ /BHA	490	2.0	245.00	880	2400	70\	5\ 15	DRILL CMT.	
10	Reed	HP12J	10.63	126	9000	410.99	9220.00	9305.00	1/1/NO/A /0/1 /NO/ /TD	77	2.0	38.50	875	3700	140\	500\ 5	UNDERREAM.	
9	Reed	HP12Y	10.63	126	9000	59.93	8500.00	9072.00	2/2/NO/A /2/1 /NO/ /BHA	0 20	0.0 0.5	0.00 40.00			50\ 80	0\ 0	0	DRILL CMT.
11	Hughes	ATM-11H	8.50	437	6000	48.73	9305.00	10000.00	2/2/NO/A /2/1 /NO/ /TD	0 577 695	0.0 23.0 28.5	0.00 25.09 24.39	475 510 510	2000 1800 1900	20\ 60 130\ 0 130\ 0	5\ 22 5\ 8 5\ 10	5 5 5	
11	Hughes	ATM-11H	8.50	437	6000	126.11	9350.00	9610.00	2/2/NO/A /2/1 /NO/ /DTF	100 200 300	5.5 11.0 16.5	18.18 18.18 18.18	725 725 725	3150 3150 3150	120\ 120\ 120\	500\ 5 500\ 5 500\ 5	5 5 5	U. REAMING

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12	Smith	JUNKMILL	8.50		1440	0.00	10000.00	10000.00	0	0.0	0.00				0\ 0	100 % WORN
13	Smith	JUNK MILL	8.50		0	27880.14	10000.00	10001.00	1	8.5	0.12	660	1940	90\ 90	2\ 4	100% WORN
14	Smith	MILL	8.50		0	0.00	10001.00	10001.00	0	4.0	0.00	600	1100	90\	2\ 5	100% WORN
15	Smith	RB JUNKML	8.50		0	0.00	10001.00	10001.00	0	0.0	0.00	540	1050	50\100	1\ 0	MILL 10% WORN
16	Smith	MSDGH	8.50	135S	0	0.00	10001.00	10001.00	0	24.0	0.00	705	2800	90\120	4\ 6	12.25" U/R ASSEMBLY.
17	Smith	RB JUNKMILL	8.50		0	3985.66	10001.00	10008.00	0	8.5	0.00	750	2400	30\100	5\ 20	MILL 100% WORN.
15	Smith	RB JUNKML	8.50		0	0.00	10008.00	10008.00	0	3.5	0.00	700	1250	80\ 90	2\ 3	MILL 40% WORN
16	Smith	MSDGH	8.50	135S	0	0.00	10008.00	10008.00	0	0.0	0.00				0\ 0	12.25" U/R ASSEMBLY.
16	Smith	MSDGH	8.50	135S	0	0.00	10008.00	10008.00	0	0.0	0.00				0\ 0	12.25" U/R ASSEMBLY.
18	Smith	F17	7.38	517Y	5000	0.00	9038.00	9038.00	0	0.0	0.00				0\ 0	
16	Smith	MSDGH	8.50	135S	0	0.00	10008.00	10008.00	0	0.0	0.00				0\ 0	DRILLED 200' CMT.
18	Smith	F17	7.38	517Y	5000	0.00	10008.00	10008.00	0	0.0	0.00				1\ 30	DRILLED CMT.
18	Smith	F17	7.38	517Y	5000	163.19	9717.00	9917.00	0	0.0	0.00	366	3000	50\ 60	10\ 20	DRILLED CMT.
19	DBS	TD13HQ	7.38		27000	543.84	9917.00	10018.00	46	9.0	5.11	252	2300	1260	500\ 3	DRILLED ON JUNK.
18	Smith	F17	7.38	517Y	5000	171.78	9727.00	9917.00	0	0.0	0.00	266	1850	0\ 55	5\ 10	DRILLED 190' CMT
20	DBS	TD 290	7.38	0646	20000	0.00	9988.00	1038.00	3	1.0	3.00	330	3000	150\	1\ 5	TWIST-OFF
20	DBS	TD 290	7.38	0646	20000	9598.14	10038.00	10043.00	5	2.0	2.50	240	2300	70\ 0	4\ 5	TWIST-OFF. L.I.H.
19	DBS	TBT-26	6.00	D8X6	15000	425.03	9914.00	10015.00	44	17.0	2.59	220	1720	220\	500\ 2	SIDETRACK
18	Smith	F17	7.38	517Y	5000	216.16	9766.00	9917.00	151	2.0	75.50	334	2200	50\ 60	5\ 10	DRILL 151' CMT
21	DBS	TD 13 HQ	7.38	D5X6	27000	397.91	10015.00	10154.00	134	11.0	12.18	184	4100	50\ 80	4\ 10	WASH-OUT
21	DBS	TD 13 HQ	7.38	D5X6	27000	72.27	10154.00	10950.00	218	12.5	17.44	193	4000	80\	2\ 4	

WELL NAME: ELDFISK 2/7-28													
API NUMBER: NO													
PHILLIPS PETROLEUM COMPANY													
BIT RECORD													
PAGE: 4													
BIT NO	MAKE	TYPE	SIZE	IADC CODE	BIT COST	COST \$/FT	DEPTH(feet) IN OUT	BIT GRADING/CONDITION I/O/D /LOC /B/G /O /T/RSN	CUMULATIVE FEET HRS ROP	FLOW PUMP RATE PRES	RPM RANGE	WOB RANGE	COMMENTS
21	DBS	TD 13 HQ	7.38	D5X6	27000	0.00	10950.00	3/5/WT/N /D/1 /BT/ /LOG	0 0.0 0.00		\	0\ 0	U/R 10% WORN W/2 LOST CUTTE
22	Smith	CMT MILL	5.88		0	0.00	10950.00	1/1/NO/A /O/2 /NO/ /BHA	0 0.0 0.00		\	0\ 0	
23	Hughes	J4	5.88	216	1810	3235.63	10950.00	6/4/BT/A /E/1 /NO/ /BHA	10 2.0 5.00 20 4.0 5.00	345 2880 345 2880	40\ 70 40\ 70	5\ 20 5\ 20	
24	DBS	TD13HQ-BIC	5.88	0645	37710	284.83	10960.00	1/1/NO/A /D/1 /PN/ /CP	0 0.0 0.00 215 18.0 11.94 242 19.0 12.74	288 4100 277 4000	135\150 135\150	0\ 0 2\ 15 10\ 15	5.875" - 6.5" TD-13 HQ BICE
25	DBS	CT303/133	5.88	T5X9	10285	672.20	11202.00	1/1/NO/A /D/1 /NO/ /BHA	0 0.0 0.00 62 5.0 12.40	160 2100	\120	0\ 0 2\ 8	5 % WORN.
24	DBS	TD13HQ-BIC	5.88	0645	37710	0.00	11264.00	1/3/RO/A /D/1 /NO/ /CP	0 0.0 0.00 224 20.0 11.20 260 21.5 12.09	284 4100 284 4100	130\150 130\150	0\ 0 10\ 15 1\ 15	0 25 % WORN.
25	DBS	CT303/133	5.88	T5X9	10285	1846.44	11524.00	1/2/NO/ /D/1 /NO/ /BHA	23 3.0 7.67	142 1800	\110	0\ 7 10\ 10	10 % WORN.
24	DBS	TD13HQ-BIC	5.88	0645	37710	91.82	11547.00	4/4/NO/A /D/1 /NO/ /DTF	0 0.0 0.00 188 14.0 13.43 472 37.5 12.59 785 58.5 13.42 1098 79.5 13.81	285 4085 285 4060 285 4060 285 4060	130\150 130\150 130\150 130\150	0\ 0 5\ 15 5\ 15 5\ 15	0 45 % WORN.
26	DBS	TD13HQ-BIC	5.88	0645	35000	160.44	12332.00	1/1/NO/A /D/1 /NO/ /LOG	0 0.0 0.00 280 17.5 16.00 440 21.0 20.95	285 4100 285 4100 285 4100	\100 130\150 130\150	0\500 5\ 15 5\ 10	5.875" - 6.5" BI-CENTER PDC

RIG COST: \$850/HR

BITREC01 PRINT DATE: 03/04/93

PHILLIPS PETROLEUM COMPANY NORWAY
Eldfisk expro. wells 34/7,2/728
ELDFISK, North Sea (Norwegian Sector)

SURVEY LISTING Page 1
Your ref : 2/7-28B ST2 MWD 9917-
Last revised : 3-Sep-92

Measured Depth	Inc. Degs	Azi. Degs	True Vert. Depth	RECTANGULAR COORDINATES	GRID COORDINATES Easting Northing	GEOGRAPHIC COORDINATES
0.00	0.00	0.00	0.00	17478.28s 7091.35e	514740.51 6248666.67 n56 22 52.16 e3 14 19.29	
313.00	0.00	0.00	313.00	17478.28s 7091.35e	514740.51 6248666.67 n56 22 52.16 e3 14 19.29	
490.00	1.00	0.00	489.99	17476.73s 7091.35e	514740.51 6248667.14 n56 22 52.17 e3 14 19.29	
672.00	0.50	0.00	671.97	17474.35s 7091.35e	514740.51 6248667.87 n56 22 52.20 e3 14 19.29	
710.00	0.25	0.00	709.97	17474.10s 7091.35e	514740.51 6248667.94 n56 22 52.20 e3 14 19.29	
787.00	0.05	359.08	786.97	17473.90s 7091.35e	514740.51 6248668.00 n56 22 52.20 e3 14 19.29	
818.00	0.53	118.07	817.97	17473.95s 7091.47e	514740.55 6248667.99 n56 22 52.20 e3 14 19.29	
914.00	0.48	71.15	913.97	17474.03s 7092.25e	514740.78 6248667.96 n56 22 52.20 e3 14 19.30	
1011.00	0.65	193.60	1010.97	17474.44s 7092.50e	514740.86 6248667.84 n56 22 52.19 e3 14 19.31	
1108.00	0.05	357.62	1107.97	17474.93s 7092.37e	514740.82 6248667.69 n56 22 52.19 e3 14 19.31	
1205.00	0.44	219.66	1204.96	17475.17s 7092.13e	514740.75 6248667.61 n56 22 52.19 e3 14 19.30	
1299.00	0.42	31.15	1298.96	17475.16s 7092.08e	514740.73 6248667.62 n56 22 52.19 e3 14 19.30	
1393.00	0.71	36.41	1392.96	17474.39s 7092.60e	514740.89 6248667.85 n56 22 52.19 e3 14 19.31	
1486.00	0.99	265.49	1485.95	17473.99s 7092.14e	514740.75 6248667.97 n56 22 52.20 e3 14 19.30	
1580.00	0.48	123.05	1579.95	17474.27s 7091.66e	514740.61 6248667.89 n56 22 52.20 e3 14 19.29	
1675.00	0.61	167.59	1674.95	17474.98s 7092.11e	514740.74 6248667.67 n56 22 52.19 e3 14 19.30	
1769.00	0.53	40.90	1768.94	17475.14s 7092.50e	514740.86 6248667.62 n56 22 52.19 e3 14 19.31	
2063.00	0.50	0.00	2062.93	17472.83s 7093.39e	514741.13 6248668.33 n56 22 52.21 e3 14 19.32	
3198.00	1.00	0.00	3197.83	17457.98s 7093.39e	514741.13 6248672.86 n56 22 52.36 e3 14 19.33	
3481.00	0.50	0.00	3480.81	17454.27s 7093.39e	514741.13 6248673.99 n56 22 52.39 e3 14 19.33	
4048.00	1.00	0.00	4047.76	17446.85s 7093.39e	514741.13 6248676.25 n56 22 52.47 e3 14 19.33	
4331.00	1.00	0.00	4330.71	17441.91s 7093.39e	514741.13 6248677.75 n56 22 52.51 e3 14 19.33	
4425.00	1.00	0.00	4424.70	17440.27s 7093.39e	514741.13 6248678.25 n56 22 52.53 e3 14 19.33	
4610.00	1.00	0.00	4609.67	17437.04s 7093.39e	514741.13 6248679.24 n56 22 52.56 e3 14 19.33	
4865.00	0.51	304.80	4864.65	17434.17s 7092.46e	514740.85 6248680.11 n56 22 52.59 e3 14 19.31	
4957.00	0.80	290.00	4956.65	17433.71s 7091.52e	514740.56 6248680.25 n56 22 52.60 e3 14 19.29	
5051.00	0.60	303.00	5050.64	17433.22s 7090.49e	514740.25 6248680.40 n56 22 52.60 e3 14 19.28	
5334.00	0.00	0.00	5333.63	17432.42s 7089.24e	514739.87 6248680.65 n56 22 52.61 e3 14 19.25	
5427.00	0.00	0.00	5426.63	17432.42s 7089.24e	514739.87 6248680.65 n56 22 52.61 e3 14 19.25	
5900.00	0.10	42.50	5899.63	17432.11s 7089.52e	514739.95 6248680.74 n56 22 52.61 e3 14 19.26	
6183.00	0.20	30.20	6182.63	17431.50s 7089.94e	514740.08 6248680.93 n56 22 52.62 e3 14 19.27	
6465.00	0.10	64.30	6464.63	17430.97s 7090.41e	514740.22 6248681.09 n56 22 52.62 e3 14 19.27	
6749.00	0.20	185.60	6748.63	17431.36s 7090.58e	514740.28 6248680.97 n56 22 52.62 e3 14 19.28	
7031.00	0.20	186.30	7030.63	17432.33s 7090.48e	514740.25 6248680.67 n56 22 52.61 e3 14 19.28	
7314.00	0.30	161.00	7313.63	17433.53s 7090.67e	514740.30 6248680.31 n56 22 52.60 e3 14 19.28	
7597.00	0.40	137.20	7596.62	17434.95s 7091.58e	514740.52 6248679.87 n56 22 52.58 e3 14 19.29	
7879.00	0.80	103.50	7878.61	17436.13s 7094.16e	514741.37 6248679.51 n56 22 52.57 e3 14 19.34	
7931.00	0.80	102.60	7930.60	17436.30s 7094.87e	514741.58 6248679.46 n56 22 52.57 e3 14 19.35	
8150.00	0.90	93.80	8149.58	17436.74s 7098.08e	514742.56 6248679.33 n56 22 52.57 e3 14 19.41	
8437.00	0.70	83.60	8436.55	17436.70s 7102.07e	514743.78 6248679.34 n56 22 52.57 e3 14 19.48	
8720.00	0.80	71.80	8719.52	17435.89s 7105.66e	514744.87 6248679.59 n56 22 52.57 e3 14 19.55	
9005.00	0.80	63.10	9004.50	17434.37s 7109.33e	514745.99 6248680.05 n56 22 52.59 e3 14 19.61	
9207.00	0.77	245.00	9206.49	17434.28s 7109.37e	514746.00 6248680.08 n56 22 52.59 e3 14 19.61	
9360.00	0.90	57.10	9359.49	17434.17s 7109.40e	514746.01 6248680.11 n56 22 52.59 e3 14 19.61	
9453.00	0.70	47.60	9452.48	17433.39s 7110.44e	514746.33 6248680.35 n56 22 52.60 e3 14 19.63	
9548.00	0.50	38.90	9547.47	17432.68s 7111.13e	514746.54 6248680.57 n56 22 52.61 e3 14 19.64	
9646.00	0.30	41.80	9645.47	17432.16s 7111.56e	514746.67 6248680.73 n56 22 52.61 e3 14 19.65	
9741.00	0.50	299.90	9740.47	17431.76s 7111.37e	514746.61 6248680.85 n56 22 52.61 e3 14 19.65	
9835.00	1.10	282.70	9834.46	17431.36s 7110.14e	514746.24 6248680.97 n56 22 52.62 e3 14 19.62	
9917.00	0.58	282.70	9916.45	17431.10s 7108.96e	514745.88 6248681.05 n56 22 52.62 e3 14 19.60	
9920.00	2.30	249.90	9919.45	17431.11s 7108.89e	514745.86 6248681.04 n56 22 52.62 e3 14 19.60	
9930.00	2.70	244.90	9929.44	17431.28s 7108.49e	514745.73 6248680.99 n56 22 52.62 e3 14 19.60	
9940.00	3.20	241.20	9939.42	17431.52s 7108.03e	514745.60 6248680.92 n56 22 52.62 e3 14 19.59	
9950.00	3.70	238.50	9949.41	17431.82s 7107.51e	514745.44 6248680.83 n56 22 52.61 e3 14 19.58	
9957.00	4.00	235.60	9956.39	17432.08s 7107.12e	514745.32 6248680.75 n56 22 52.61 e3 14 19.57	
9964.00	4.40	233.50	9963.37	17432.37s 7106.70e	514745.19 6248680.66 n56 22 52.61 e3 14 19.56	

All data is in feet unless otherwise stated
Coordinates are from slot 2/07-1x and TVDs are from rkb.
Vertical section is from wellhead on azimuth 180.00 degrees.
Grid coordinates are in METRES and are computed using the Hayford spheroid
Calculation uses the minimum curvature method.

Measured Depth	Inc. Degs	Azi. Degs	True Vert. Depth	RECTANGULAR COORDINATES	GRID COORDINATES Easting Northing	GEOGRAPHIC COORDINATES
9969.00	4.70	231.20	9968.36	17432.62s 7106.39e	514745.09 6248680.59	n56 22 52.61 e3 14 19.56
10020.00	5.00	225.40	10019.17	17435.49s 7103.18e	514744.12 6248679.71	n56 22 52.58 e3 14 19.50
10060.00	4.50	214.00	10059.04	17438.01s 7101.06e	514743.47 6248678.94	n56 22 52.55 e3 14 19.46
10094.00	3.70	223.90	10092.95	17439.91s 7099.55e	514743.01 6248678.36	n56 22 52.53 e3 14 19.44
10186.00	3.00	216.00	10184.79	17443.99s 7096.08e	514741.95 6248677.12	n56 22 52.49 e3 14 19.37
10383.00	2.70	212.90	10381.55	17452.06s 7090.53e	514740.26 6248674.66	n56 22 52.41 e3 14 19.28
10683.00	2.30	181.80	10681.28	17464.01s 7086.50e	514739.03 6248671.02	n56 22 52.30 e3 14 19.20
10778.00	2.20	153.40	10776.21	17467.55s 7087.26e	514739.26 6248669.94	n56 22 52.26 e3 14 19.22
10857.00	2.50	147.20	10855.14	17470.35s 7088.87e	514739.75 6248669.09	n56 22 52.23 e3 14 19.24
11008.00	2.50	139.10	11006.00	17475.61s 7092.81e	514740.95 6248667.48	n56 22 52.18 e3 14 19.31
11164.00	2.10	165.70	11161.88	17480.95s 7095.74e	514741.85 6248665.85	n56 22 52.13 e3 14 19.37
11405.00	2.30	193.30	11402.70	17489.93s 7095.72e	514741.84 6248663.12	n56 22 52.04 e3 14 19.37
11487.00	3.90	219.50	11484.59	17493.69s 7093.57e	514741.19 6248661.97	n56 22 52.00 e3 14 19.33
11551.00	3.50	226.90	11548.45	17496.70s 7090.76e	514740.33 6248661.05	n56 22 51.97 e3 14 19.28
11660.00	4.90	248.10	11657.16	17500.71s 7084.01e	514738.27 6248659.83	n56 22 51.94 e3 14 19.16
11693.00	5.10	255.70	11690.04	17501.60s 7081.28e	514737.44 6248659.56	n56 22 51.93 e3 14 19.11
11737.00	5.50	251.50	11733.85	17502.75s 7077.39e	514736.25 6248659.21	n56 22 51.92 e3 14 19.04
11849.00	6.60	258.40	11845.23	17505.75s 7065.99e	514732.78 6248658.30	n56 22 51.89 e3 14 18.84
11862.00	6.60	249.20	11858.14	17506.17s 7064.56e	514732.34 6248658.17	n56 22 51.88 e3 14 18.81
11958.00	7.30	255.90	11953.44	17509.61s 7053.49e	514728.97 6248657.12	n56 22 51.85 e3 14 18.61
12051.00	8.20	258.80	12045.59	17512.34s 7041.25e	514725.24 6248656.29	n56 22 51.82 e3 14 18.40
12145.00	9.00	259.70	12138.53	17514.96s 7027.44e	514721.03 6248655.49	n56 22 51.80 e3 14 18.15
12240.00	9.70	260.40	12232.27	17517.62s 7012.24e	514716.40 6248654.68	n56 22 51.77 e3 14 17.88
12295.00	10.60	261.20	12286.40	17519.17s 7002.67e	514713.48 6248654.21	n56 22 51.76 e3 14 17.71
12359.00	10.70	259.80	12349.30	17521.12s 6991.00e	514709.92 6248653.61	n56 22 51.74 e3 14 17.50
12397.00	11.00	259.90	12386.62	17522.38s 6983.96e	514707.78 6248653.23	n56 22 51.73 e3 14 17.38
12427.00	10.90	258.80	12416.08	17523.43s 6978.36e	514706.07 6248652.91	n56 22 51.72 e3 14 17.28
12458.00	11.30	259.80	12446.50	17524.54s 6972.50e	514704.28 6248652.57	n56 22 51.70 e3 14 17.17
12490.00	11.40	260.70	12477.87	17525.60s 6966.29e	514702.39 6248652.24	n56 22 51.69 e3 14 17.06
12772.00	12.00	260.00	12754.01	17535.20s 6909.92e	514685.21 6248649.32	n56 22 51.60 e3 14 16.06

All data is in feet unless otherwise stated
Coordinates are from slot 2/07-1x and TVDs are from rkb.
Vertical section is from wellhead on azimuth 180.00 degrees.
Grid coordinates are in METRES and are computed using the Hayford spheroid
Calculation uses the minimum curvature method.

PHILLIPS PETROLEUM COMPANY NORWAY
 Eldfisk expro. wells 34/7, 2/728
 ELDFISK, North Sea (Norwegian Sector)

SURVEY LISTING Page 3
 Your ref : 2/7-28B ST2 MWD 9917-
 Last revised : 3-Sep-92

				Comments in wellpath
MD	TVD	Rectangular Coords.		Comment
9920.00	9919.45	17431.11s	7108.89e	INTERF. ON AZ
12772.00	12754.01	17535.20s	6909.92e	EXTRAPOLATED TO TD

Casing positions in string 'A'							
Top MD	Top TVD	Rectangular Coords.		Bot MD	Bot TVD	Rectangular Coords.	Casing
0.00	0.00	17478.28S	7091.35E	9907.00	9906.45	17431.12S 7109.07E	8 3/8"

Targets associated with this wellpath				
Target name	Position	T.V.D. Local rectangular coords.		Date revised
	not specified	8000.00	16000.00S 6000.00E	20-Sep-91

All data is in feet unless otherwise stated
 Coordinates are from slot 2/07-1x and TVDs are from rkb.
 Vertical section is from wellhead on azimuth 180.00 degrees.
 Grid coordinates are in METRES and are computed using the Hayford spheroid
 Calculation uses the minimum curvature method.

PHILLIPS

DIMS Casing Report

Well: ELDFISK 2/7-28
Date: 16/03/92

Page : 1
Day #: 13

Hole Size : 36.000 in	Total Depth : 745.00 ft	CSG FLANGE/WELLHEAD
Wt. in Slips : 260000 lb	Time Landed : 09:30	TYPE :
K.B. - Wellhead: ft	Casing Set @ : 718.00 ft	MFG :
K.B. - Ground : ft	Top of Casing : ft	MODEL :
K.B. - Mud Line: 369.00 ft	Casing Cut Off: ft	SIZE : 30.000 in
Water Depth : 234.00 ft	Liner Overlap : ft	RATING: psi
Air Gap : 65.89 ft		

PIPE INFORMATION

Description	Manufacturer	Size	Weight	Grade	Cnd	Threads	Joints	Length	Interval
CASING JOINT	DRIL-QUIP	30.000	390.00	X-52	1	H60	7	274.28	718.87 - 444.59
CASING JOINT	DRIL-QUIP	30.000	450.00	X-52	1	H90D	9	355.75	444.59 - 88.84
PUP JOINT	DRIL-QUIP	30.000	450.00	X-52	1	H90D	1	15.00	88.84 - 73.84
JNT W/TENSINO RING	DRIL-QUIP	30.000	450.00	X-52	1	H90D	1	15.61	73.84 - 58.23

ACCESSORIES INFORMATION

Item	Type	Manufacturer	Number	Spacing	Interval
SHOE	CONVENTIONAL	HALLIBURTON	1		716.00 - 718.00
MUDLINE HANGER		PLEXUS	1		390.00 -

Mud Type:SPUD MUD	Torque Turned :N	Avg. Drag : lb
Density : 10.00	Avg. Make-up Torq :30000 ft-lb	Max Drag : lb
Visc :100	Movement: RPM:	Fluid Lost :N
PV/YP : /	Average Torq. Rot.: ft-lb	Percent Lost: %
API WL :	Maximum Torq. Rot.: ft-lb	Volume Lost : bbl
Filled each 2 jts.	Moved Until Bumped:N	
Cementer:		
Remarks :HOLE WAS FILLED WITH 10.0 PPG MUD BEFORE RUNNING CASING. CASING WAS CIRCULATED WITH SEAWATER PRIOR TO CEMENTING.		

PHILLIPS

DIMS Casing Report

Well: ELDFISK 2/7-28
Date: 21/03/92

Page : 1
Day #: 18

Hole Size : 26.000 in	Total Depth : 1780.00 ft	CSG FLANGE/WELLHEAD
Wt. in Slips : 195000 lb	Time Landed : 22:00	TYPE : UNITIZED
K.B. - Wellhead: 53.40 ft	Casing Set @ : 1754.43 ft	MFG : DRIL-QUIP
K.B. - Ground : ft	Top of Casing : 53.40 ft	MODEL : SU-90
K.B. - Mud Line: 369.00 ft	Casing Cut Off: ft	SIZE : 21.250 in
Water Depth : 234.00 ft	Liner Overlap : ft	RATING: 2,000 psi
Air Gap : 65.89 ft		

PIPE INFORMATION

Description	Manufacturer	Size	Weight	Grade	Cnd	Threads	Joints	Length	Interval
FLOAT SHOE	HALLIBURTON	20.000	133.00	X-56	1			2.00	1754.43 - 1752.43
CASING JOINT	DRIL-QUIP	20.000	133.00	X-56	1	E-60	1	39.09	1752.43 - 1713.34
FLOAT COLLAR	HALLIBURTON	20.000	133.00	X-56	1	E-60		2.00	1713.34 - 1711.34
CASING JOINT	DRIL-QUIP	20.000	133.00	X-56	1	E-60	33	1302.36	1711.34 - 408.98
MUDLINE HANGER JNT	PLEXUS	20.000	133.00	X-56	1	E-60	1	42.79	408.98 - 366.19
CASING JOINT	DRIL-QUIP	20.000	133.00	X-56	1	E-60	7	275.36	366.19 - 90.83
PUP JOINT	DRIL-QUIP	20.000	133.00	X-56	1	E-60	1	16.02	90.83 - 74.81
PUP JOINT	DRIL-QUIP	20.000	133.00	X-56	1	E-60	1	18.66	74.81 - 56.15
WELLHEAD	DRIL-QUIP	21.250			1			2.75	56.15 - 53.40

ACCESSORIES INFORMATION

Item	Type	Manufacturer	Number	Spacing	Interval
CENTRALIZER	Bowstring Cent.	WEATHERFORD	8	80	1744.00 - 1198.00
CENTRALIZERS	Straight Rigid Cnt	PLEXUS	5	80	345.00 - 60.00

Mud Type: Polymer	Torque Turned : N	Avg. Drag : 10000 lb
Density : 10.00	Avg. Make-up Torq : 15000 ft-lb	Max Drag : 15000 lb
Visc : 66	Movement: None RPM:	Fluid Lost : N
PV/YP : 31 / 32	Average Torq. Rot.: ft-lb	Percent Lost: %
API WL : 2.1	Maximum Torq. Rot.: ft-lb	Volume Lost : bbl
Filled each 1 jts.	Moved Until Bumped: N	
Cementer: HALLIBURTON		
Remarks : CASING JNTS BELOW MUDLINE HANGER MADE UP TO 15,000 FT.LBS. CASING JNTS BETWEEN MUDLINE HANGER & WELLHEAD MADE UP TO 25,000 FT.LBS.		

PHILLIPS

DIMS Casing Report

Well: ELDFISK 2/7-28
Date: 29/03/92

Page : 1
Day #: 26

Hole Size : 17.500 in	Total Depth : 4925.00 ft	CSG FLANGE/WELLHEAD
Wt. in Slips : 285000 lb	Time Landed : 10:30	TYPE : DRIL-QUIP
K.B. - Wellhead: 49.25 ft	Casing Set @ : 4904.36 ft	MFG :
K.B. - Ground : ft	Top of Casing : ft	MODEL :
K.B. - Mud Line: 369.00 ft	Casing Cut Off: ft	SIZE : 13.625 in
Water Depth : 234.00 ft	Liner Overlap : ft	RATING: 15,000 psi
Air Gap : 135.00 ft		

PIPE INFORMATION

Description	Manufacturer	Size	Weight	Grade	Crd	Threads	Joints	Length	Interval
FLOAT SHOE JNT		13.375	72.00	95VT	1	VAM	1	40.50	4904.36 - 4863.86
FLOAT COLLAR JNT		13.375	72.00	95VT	1	VAM	1	40.53	4863.86 - 4823.33
CASING	VALOUREC	13.375	72.00	95VT	1	VAM	114	4379.85	4823.33 - 443.48
PUP JOINT	VALOUREC	13.375	72.00	95VT	1	VAM	1	9.94	443.48 - 433.54
PUP JOINT	VALOUREC	13.375	72.00	95VT	1	VAM	1	20.37	433.54 - 413.17
MLH JOINT	ING CACTUS	13.375	72.00	95VT	1	VAM	1	41.98	413.17 - 371.19
CASING	VALOUREC	13.375	72.00	95VT	1	VAM	8	308.68	371.19 - 62.51
WELLHEAD+PUP	DRIL-QUIP	13.625	72.00	95VT	1	VAM	1	13.12	62.51 - 49.25

ACCESSORIES INFORMATION

Item	Type	Manufacturer	Number	Spacing	Interval
CENTRALIZERS	BOW	WEATHERFORD	2	40	4904.00 - 4823.00
CENTRALIZERS	BOW	WEATHERFORD	7	120	4823.00 - 4011.00

Mud Type: Polymer	Torque Turned : N	Avg. Drag : lb
Density : 13.00	Avg. Make-up Torq : 15900 ft-lb	Max Drag : lb
Visc : 60	Movement: Reciprocating RPM:	Fluid Lost : N
PV/YP : 19 / 11	Average Torq. Rot.: ft-lb	Percent Lost: %
API WL : 3.2	Maximum Torq. Rot.: ft-lb	Volume Lost : bbl
Filled each 5 jts.	Moved Until Bumped: N	
Cementer: HALLIBURTON		
Remarks : 13 3/8" MUDLINE HANGER HANG OFF POINT AT 389.86'.		
TOP WELLHEAD TO RKB : 49.25'.		
HAD MAX 100000 LBS DRAG WITH CASING AT ABOUT 4800'.		

PHILLIPS

DIMS Casing Report

Well: ELDFISK 2/7-28
Date: 09/05/92

Page : 1
Day #: 67

Hole Size : 15.000 in	Total Depth : 9220.00 ft	CSG FLANGE/WELLHEAD
Wt. in Slips : 220000 lb	Time Landed : 17:00	TYPE :
K.B. - Wellhead: 53.40 ft	Casing Set @ : 9220.00 ft	MFG : DRIL-QUIP
K.B. - Ground : ft	Top of Casing : 4627.00 ft	MODEL :
K.B. - Mud Line: 369.00 ft	Casing Cut Off: ft	SIZE : 13.625 in
Water Depth : 234.00 ft	Liner Overlap : 277.00 ft	RATING: 10,000 psi
Air Gap : 135.00 ft		

PIPE INFORMATION

Description	Manufacturer	Size	Weight	Grade	Cnd	Threads	Joints	Length	Interval
FLOAT SHOE JNT		11.750	65.00	S-95	1	HYDRIL	1	47.20	9220.00 - 9172.80
CASING JNT		11.750	65.00	S-95	1	HYDRIL	1	42.17	9172.80 - 9130.33
LANDING COLLAR		11.750	65.00	S-95	1	HYDRIL	1	1.12	9130.33 - 9129.51
CASING JOINT		11.750	65.00	S-95	1	HYDRIL	89	3887.73	9129.51 - 5241.78
CROSSOVER JOINT		11.750	65.00	S-95	1	HYDRIL	1	41.27	5241.78 - 5200.51
CASING JOINT		11.750	65.00	L-80	1	BRATFORD	22	564.32	5200.51 - 4636.19
CASING JNT - R		11.750	65.00	L-80	1	BRATFORD	1	18.66	4636.19 - 4617.53

ACCESSORIES INFORMATION

Item	Type	Manufacturer	Number	Spacing	Interval

Mud Type:SW/DRISP/SOLTEX	Torque Turned :N	Avg. Drag : lb
Density : 15.60	Avg. Make-up Torq :18300 ft-lb	Max Drag : lb
Visc : 69	Movement: Reciprocating RPM:	Fluid Lost :N
PV/YP : 26 / 21	Average Torq. Rot.: ft-lb	Percent Lost: %
API WL : 3.9	Maximum Torq. Rot.: ft-lb	Volume Lost : bbl
Filled each jts.	Moved Until Bumped:Y	
Cementer:HALLIBURTON		
Remarks :TOP OF LINER AT 4627', 10' DEEPER THAN CALCULATED DUE TO COMPRESSION AND BUCKLING.		

DIMS Casing Report

Page : 1
Day #: 73

Hole Size	: 13.500 in	Total Depth	: 9305.00 ft	CSG FLANGE/WELLHEAD
Wt. in Slips	: 12000 lb	Time Landed	: 11:00	TYPE :
K.B. - Wellhead:	53.40 ft	Casing Set @	: 9305.00 ft	MFG : DRIL-GUIP
K.B. - Ground :	ft	Top of Casing :	9071.77 ft	MODEL :
K.B. - Mud Line:	369.00 ft	Casing Cut Off:	ft	SIZE : 13.625 in
Water Depth	: 234.00 ft	Liner Overlap :	148.00 ft	RATING: 15,000 psi
Air Gap	: 135.00 ft			

[illegible][illegible]

Mud Type:SW/DRIS/SOL/DMS	Torque Turned :N	Avg. Drag :	lb
Density : 13.20	Avg. Make-up Torq :20500 ft-lb	Max Drag :	lb
Visc : 71	Movement: Reciprocating RPM:	Fluid Lost :N	
PV/YP : 28 / 15	Average Torq. Rot.: ft-lb	Percent Lost:	%
API WL : 4.0	Maximum Torq. Rot.: ft-lb	Volume Lost :	bbl
Filled each jts.	Moved Until Bumped:N		
Cementer:HALLIBURTON			
Remarks :SHEAR WIPER PLUG WITH 1,600 PSI.			

PHILLIPS

DIMS Casing Report

Well: ELDFISK 2/7-28
Date: 10/06/92

Page : 1
Day #: 99

Hole Size : 12.250 in	Total Depth : 10008.00 ft	CSG FLANGE/WELLHEAD
Wt. in Slips : 20000 lb	Time Landed : 10:00	TYPE :
K.B. - Wellhead: 53.40 ft	Casing Set @ : 9907.00 ft	MFG :
K.B. - Ground : ft	Top of Casing : 9038.00 ft	MODEL :
K.B. - Mud Line: 369.00 ft	Casing Cut Off: ft	SIZE : 8.375 in
Water Depth : 234.00 ft	Liner Overlap : 267.00 ft	RATING: psi
Air Gap : 135.00 ft		

PIPE INFORMATION

Description	Manufacturer	Size	Weight	Grade	Cnd	Threads	Joints	Length	Interval
FLOAT SHOE		8.375	32.04	Q-125	1	IFJ4	1	2.22	9907.52 - 9905.30
CASING JOINT		8.375	32.04	Q-125	1	IFJ4	1	41.15	9905.30 - 9864.15
FLOAT COLLAR		8.375	32.04	Q-125	1	IFJ4	1	2.17	9864.15 - 9861.98
CASING JOINT		8.375	32.04	Q-125	1	IFJ4	2	80.61	9861.98 - 9781.43
LANDING COLLAR		8.375	32.04	Q-125	1	IFJ4	1	7.72	9781.43 - 9773.71
CASING JOINT		8.375	32.04	Q-125	1	IFJ4	15	621.89	9773.71 - 9151.82
CASING JOINT		8.375	32.04	P-110	1	IFJ4	4	72.63	9151.82 - 9079.19
PUP JOINT		8.375	32.04	P-110	1	IFJ4	1	7.19	9079.19 - 9072.00
CROSSOVER JOINT		8.375	32.04	P-110	1		1	1.17	9072.00 - 9070.83
TOP SET PACKER					1		1	7.44	9070.83 - 9063.39
CASING EXT JNT					1		1	9.25	9063.39 - 9054.14
PB RECEPTACLE					1		1	15.38	9054.14 - 9038.76

ACCESSORIES INFORMATION

Item	Type	Manufacturer	Number	Spacing	Interval

Mud Type:SW/DRISPAC
Density : 10.00
Visc : 46
PV/YP : 11 / 12
API WL : 4.9
Filled each jts.
Cementer:HALLIBURTON.
Remarks :

Torque Turned :N
Avg. Make-up Torq : 8000 ft-lb
Movement: Reciprocating RPM:
Average Torq. Rot.: ft-lb
Maximum Torq. Rot.: ft-lb
Moved Until Bumped:Y

Avg. Drag : lb
Max Drag : lb
Fluid Lost :Y
Percent Lost: %
Volume Lost : 36 bbl

DIMS Casing Report

Page : 1
Day #: 103

CSG FLANGE/WELLHEAD
TYPE :
MFG : DRIL-QUIP
MODEL :
SIZE : 13.625 in
RATING: 15,000 psi

Description	Manufacturer	Size	Weight	Grade	End	Threads	Joints	Length	Interval
SEAL STEM	NODECO	10.250	62.80	Q-125	1	BUTT	1	0.89	9037.00 - 9036.11
CROSSOVER JOINT		9.875	62.80	Q-125	1	HSLX	1	2.81	9036.11 - 9033.30
CASING JOINT	NIPPON STEEL	9.875	62.80	Q-125	1	HSLX	1	43.63	9033.30 - 8989.67
FC JNT	NIPPON STEEL	9.875	62.80	Q-125	1	HSLX	1	43.26	8989.67 - 8946.41
CASING JOINT	NIPPON STEEL	9.875	62.80	Q-125	1	HSLX	35	1448.42	8946.41 - 7497.99
CASING JOINT	NIPPON STEEL	9.875	62.80	NT110	1	HSLX	81	2986.78	7497.99 - 4511.21
CROSSOVER JOINT	NIPPON STEEL	9.875	62.80	NT110	1	NSCC	1	38.59	4511.21 - 4472.62
CASING JOINT	NIPPON STEEL	9.875	62.80	NT110	1	NSCC	102	4042.04	4472.62 - 430.58
CASING JOINT	NIPPON STEEL	9.875	62.80	NT110	1	NSCC	2	15.48	430.58 - 415.10
PUP MLH HANG OFF	PLEXUS		62.80	NT110	1	NSCC	1	23.30	415.10 - 391.80
MUD LINE HGR	PLEXUS				1	NSCC	1	22.70	391.80 - 369.10
CASING JOINT	NIPPON STEEL	9.875	62.80	NT110	1	NSCC	7	276.73	369.10 - 92.37
CASING JOINT	NIPPON STEEL	9.875	62.80	NT110	1	NSCC	2	23.98	92.37 - 68.39
WH HOF TOOL OPEN	DRILL-QUIP				1		1	17.35	68.39 - 51.04

[illegible]

Mud Type:SW/DRISPA	Torque Turned :N	Avg. Drag :	lb
Density : 12.00	Avg. Make-up Torq :	ft-lb	Max Drag :
Visc : 44	Movement:	RPM:	Fluid Lost :Y
PV/YP : 16 / 11	Average Torq. Rot.:	ft-lb	Percent Lost: %
API WL : 5.5	Maximum Torq. Rot.:	ft-lb	Volume Lost : 220 bbl
Filled each jts.	Moved Until Bumped:N		
Cementer:HALLIBURTON			
Remarks :9.875" TIEBACK STRING.			

DIMS Casing Report

Page : 2
Day #: 103

CSG FLANGE/WELLHEAD
TYPE :
MFG : DRIL-QUIP
MODEL :
SIZE : 13.625 in
RATING: 15,000 psi

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Remarks :9.875" TIEBACK STRING.

PHILLIPS

DIMS Casing Report

Well: ELDFISK 2/7-28
Date: 14/07/92

Page : 1
Day #: 133

Hole Size : 9.000 in	Total Depth : 10950.00 ft	CSG FLANGE/WELLHEAD
Wt. in Slips : lb	Time Landed : :	TYPE :
K.B. - Wellhead: 49.25 ft	Casing Set @ : 10930.00 ft	MFG : DRIL-QUIP
K.B. - Ground : ft	Top of Casing : 8839.00 ft	MODEL :
K.B. - Mud Line: 369.00 ft	Casing Cut Off: ft	SIZE : 13.625 in
Water Depth : 234.00 ft	Liner Overlap : 1075.00 ft	RATING: 15,000 psi
Air Gap : 135.00 ft		

PIPE INFORMATION

Description	Manufacturer	Size	Weight	Grade	Cnd	Threads	Joints	Length	Interval
FLOAT SHOE		7.000			1			1.50	10930.00 - 10928.50
CASING JOINT		7.000	35.00	Q-125	1	HD-L	1	36.88	10928.50 - 10891.62
FLOAT COLLAR		7.000			1	HD-L	1	1.35	10891.62 - 10890.27
CASING JOINT		7.000	35.00	Q-125	1	HD-L	1	39.59	10890.27 - 10850.68
LANDING COLLAR		7.000			1	HD-L	1	0.94	10850.68 - 10849.74
CASING JOINT		7.000	35.00	Q-125	1	HD-L	53	1987.38	10849.74 - 8862.36
LINER HANGER					1			23.19	8862.36 - 8839.17

ACCESSORIES INFORMATION

Item	Type	Manufacturer	Number	Spacing	Interval

Mud Type: THERMA-DRIL	Torque Turned : N	Avg. Drag : lb
Density : 14.00	Avg. Make-up Torq : 8300 ft-lb	Max Drag : lb
Visc : 46	Movement: RPM:	Fluid Lost : N
PV/YP : 18 / 15	Average Torq. Rot.: ft-lb	Percent Lost: %
API WL : 2.2	Maximum Torq. Rot.: ft-lb	Volume Lost : bbl
Filled each jts.	Moved Until Bumped: N	
Cementer: HALLIBURTON.		
Remarks :		

Page: 1

	COMMENTS
USED +/- 400 % EXCESS CEMENT SLURRY	

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**DIMS CEMENT REPORT
PHILLIPS**

Page: 1

WELL: ELDFISK 2/7-28				DATE: 22/03/92			
JOB TYPE : Primary - casing		STARTED : 22/03/92 @: 06:00		COMPLETED : 22/03/92 @: 08:30			
CEMENTER : Halliburton		STRING CEMENTED : 20" csg		RETURNS : N			
CEMENTED INTERVAL : 390.00 - 1,754.00				TOTAL NUMBER OF STAGES : 01			
CBL RUN : N		CET RUN : N		BHT LOG :		TIME WOC :	

HOLE DESCRIPTION					LEAK OFF INFORMATION		
FROM	TO	SIZE	% OVER	DISP.EFF.	CASING TEST : 1500 psi	for :	10.00 min
718.00	1,780.00	26.0			DRILLED : 10.00 ft	new :	17.50 in hole
					LEAK OFF TEST : 437 psi	with :	10.20 ppg
					AT A DEPTH OF : 1,754.00 ft	EQUIVALENT FLUID DENSITY :	15.15 ppg
						PRESSURE @ TEST DEPTH :	1368 psi

STAGE INFORMATION									
STAGE NUMBER : 001of 01		STAGE TYPE : NO STAGE			PLANNED INTERVAL : 390.00 - 1,754.00				
DRILL STRING DEPTH : 1,711.00 ft		TOOL DEPTH : 1,711.00 ft		DRILL STRING PRESSURE INITIAL :		FINAL :		psi	
				ANNULAR PRESSURE INITIAL :		FINAL :		psi	
STARTED MIXING : 07:05 Hrs		COMPLETED : 08:30 Hrs		MIXING RATE :		gpm		MIXING PRESSURE :	
BREAK PRESSURE :		psi		TIME CIRC. @ BOT :		Hrs		CIRC. RATE :	
						gpm		CIRC. PRESSURE :	
DISPLACED WITH: 34.00 bbls of MUD		FLUID WT.: 10.0 ppb		TOP PLUG: N		BOTTOM PLUG: N		PLUG DOWN: / / @ :	
BUMPED : N		HELD : N		BLED OFF TO :		psi			
DISP. RATE INITIAL :		231.00		FINAL :		231.00		MIN : 210.00	
DISP. PRESS INITIAL:		500.00		FINAL :		500.00		MIN :	
								MAX : 800.00 gpm	
LOST CIRC. : N		% LOST :		VOL :		ft3 FOAM CMT. : N N2 :		cfm START :	
								END :	
								scfn/bbl TOT:	
FLUID VOL. TOTAL : 634.00		FLUID VOL. RETURNED : 634.00		SLURRY VOL. TOTAL : 624.00		SLURRY VOL. RETURNED : 624.00			
FIRST PREFLUSH USED : 10.00bbls of SEAWATER		FLUID WT. : 8.6 ppb		ADDITIVES :					
SECOND PREFLUSH USED :		bbls of		FLUID WT. :		ppb		ADDITIVES :	
TIME STAGE STARTED:		TIME STAGE COMPLETED:		HRS. BEFORE OPEN:		Hrs(2nd stage)		HRS. CIRC. BTWN STAGES:	
TIME BROKE CIRC.:		TIME PIPE MOVE START:		TIME PIPE MOVE END:				TIME RELEASE PLUG:	

COMMENTS

THIS REPORT WAS NOT INPUT AT THE TIME THE CASING WAS CEMENTED. THE REPORT WAS DONE 21/08/92.
100% RETURNS WAS REPORTED WHILE CEMENTING. SOME CONTAMINATED MUD IN RETURNS.

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WELL: ELDFISK 2/7-28		DATE: 22/03/92
JOB TYPE : Primary - casing	STARTED : 22/03/92 @: 06:00	COMPLETED : 22/03/92 @: 08:30
CEMENTER : Halliburton	STRING CEMENTED : 20" csg	RETURNS : N
CEMENTED INTERVAL : 390.00 - 1,754.00		TOTAL NUMBER OF STAGES : 01
CBL RUN : N	CET RUN : N	BHT LOG : TIME WOC : :

[illegible]

**DIMS CEMENT REPORT
PHILLIPS**

Page: 1

WELL: ELDFISK 2/7-28			DATE: 29/03/92		
JOB TYPE : Primary - casing		STARTED : 28/03/92 @: 16:00		COMPLETED : 28/03/92 @: 20:45	
CEMENTER : HALLIBURTON		STRING CEMENTED : 13 3/8" CASING		RETURNS : Y	
CEMENTED INTERVAL : 390.00 - 4,904.00		TOTAL NUMBER OF STAGES : 01			
CBL RUN : N		CET RUN : N		BHT LOG :	
				TIME WOC : :	

HOLE DESCRIPTION					LEAK OFF INFORMATION			
FROM	TO	SIZE	% OVER	DISP.EFF.	CASING TEST :	psi	for :	min
1,754.00	1,780.00	26.0			DRILLED :		new :	in hole
1,780.00	4,925.00	17.5			LEAK OFF TEST :	psi	with :	ppg
					AT A DEPTH OF :	ft	EQUIVALENT FLUID DENSITY :	ppg
							PRESSURE @ TEST DEPTH :	psi

STAGE INFORMATION									
STAGE NUMBER : 001of 01		STAGE TYPE : NO STAGE			PLANNED INTERVAL : 754.00 - 4,904.00				
DRILL STRING DEPTH :		ft	TOOL DEPTH :		ft	DRILL STRING PRESSURE INITIAL :		FINAL :	psi
						ANNULAR PRESSURE INITIAL :		FINAL :	psi
STARTED MIXING : 16:15 Hrs		COMPLETED : 19:00 Hrs			MIXING RATE : 283.50 gpm		MIXING PRESSURE :		500 psi
BREAK PRESSURE : psi		TIME CIRC. @ BOT : 5.00 Hrs			CIRC. RATE : 420.00 gpm		CIRC. PRESSURE :		psi
DISPLACED WITH: 721.30 bbls of MUD		FLUID WT.: 13.0 ppb			TOP PLUG: Y		BOTTOM PLUG: Y		PLUG DOWN: 28/03/92 @20:45
BUMPED : Y		HELD : Y		BLED OFF TO : psi					
DISP. RATE INITIAL : 373.80		FINAL : 208.17		MIN : 208.17		MAX : 373.80 gpm			
DISP. PRESS INITIAL: 750.00		FINAL : 1,000.00		MIN :		MAX : 1,000.00 gpm			
LOST CIRC. : N		% LOST :	VOL : ft3		FOAM CMT. : N		N2 :	cfn	START : END : scfn/bbl TOT: scf
FLUID VOL. TOTAL : 1,518.30		FLUID VOL. RETURNED : 1,518.30			SLURRY VOL. TOTAL : 757.00		SLURRY VOL. RETURNED : 130.00		
FIRST PREFLUSH USED : 40.00bbls of DUAL SPACER E		FLUID WT. : 13.0 ppb			ADDITIVES :				
SECOND PREFLUSH USED : bbls of		FLUID WT. : ppb			ADDITIVES :				
TIME STAGE STARTED:		TIME STAGE COMPLETED:		HRS. BEFORE OPEN:		Hrs(2nd stage)		HRS. CIRC. BTWN STAGES:	
TIME BROKE CIRC.:		TIME PIPE MOVE START:		TIME PIPE MOVE END:		TIME RELEASE PLUG:			

COMMENTS
PUMPING RATE WHILE MIXING LEAD SLURRY WAS ABOUT 6.75 BBL/MIN AT 500 PSI AND FOR THE TAIL ABOUT 4.5 BBL/MIN AT 250 PSI. DISPLACED 20 BBLs WITH THE HALLIBURTON PUMPS, THE REST WITH THE RIG PUMPS. DISPLACED AT ABOUT 8.9 BPM. BUMPED PLUG WITH 7072 STR VS 7076 STR CALCULATED W/94.5% EFF (NOT BAD). DUMPED 130 BBLs OF EXCESS CEMENT. PLANNED TOP OF CEMENT WAS 1000' INTO THE 20" CASING (I.E. DESIGN TOP OF CEMENT: 754'). HAD PROBLEMS TO OPEN WASHPORTS IN MUDLINE HANGER. OPENED SAME WITH 28000 FT-LBS TORQUE AND CLEANED OUT THE CEMENT IN THE 13 3/8" X 20" ANNULUS WITH SEAWATER. HAD RETURNS THROUGH THE 21 1/4" WELLHEAD. DISPLACED A DESCO PILL AROUND THE MUDLINE HANGER BEFORE CLOSING THE WASHPORTS. PRESSURED UP TO 1000 PSI WHEN BUMPING PLUG.

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COMMENTS
AFTER PUMPING SEVERAL 50 PPB LCM PILLS TO CURE LOSSES AT 9,266'-9,285' (IN MAUREEN, JUST ABOVE DEPLETED EKOFISK RES) WITHOUT SUCCESS, A 50 BBL, 68 PPB, LCM WAS PUMP FOLLOWED BY 10 BBL DWTR AND 40 BBL, 15.8 PPG CMT. IT WAS DISPLACED OUT OF STRING BY 155 BBL 14.5 PPG MUD. 50% RETURNS. PULL BACK F/9,050'-T/8,700'. FILL ANNULUS W/210 BBL SW. CMT PILL WAS OF LITTLE SUCCESS.

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COMMENTS	

**DIMS CEMENT REPORT
PHILLIPS**

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WELL: ELDFISK 2/7-28		DATE: 15/04/92
JOB TYPE : Squeeze - Open Hole	STARTED : 15/04/92 @: 08:00	COMPLETED : 15/04/92 @: 10:30
CEMENTER : HALLIBURTON	STRING CEMENTED : 09	RETURNS : N
CEMENTED INTERVAL : 9,266.00 - 9,285.00	TOTAL NUMBER OF STAGES : 01	
CBL RUN : N	CET RUN : N	BHT LOG : TIME WOC : :

HOLE DESCRIPTION					LEAK OFF INFORMATION			
FROM	TO	SIZE	% OVER	DISP.EFF.	CASING TEST : 4000 psi	for :	10.00 min	
4,904.00	9,266.00	14.0			DRILLED : 10.00 ft	new :	12.25 in hole	
9,266.00	9,285.00	12.3			LEAK OFF TEST : 580 psi	with :	14.50 ppg	
					AT A DEPTH OF : 4,904.00 ft	EQUIVALENT FLUID DENSITY :	16.83 ppg	
						PRESSURE @ TEST DEPTH :	4278 psi	

STAGE INFORMATION									
STAGE NUMBER : 001of 01		STAGE TYPE : CMT PILL		PLANNED INTERVAL : 9,266.00 - 9,285.00					
DRILL STRING DEPTH : 9,111.00 ft		TOOL DEPTH :		ft		DRILL STRING PRESSURE INITIAL : 1800		FINAL : 100 psi	
						ANNULAR PRESSURE INITIAL :		FINAL : psi	
STARTED MIXING : 08:00 Hrs		COMPLETED : 08:15 Hrs		MIXING RATE : 84.00 gpm		MIXING PRESSURE :		psi	
BREAK PRESSURE : psi		TIME CIRC. @ BOT : Hrs		CIRC. RATE : 2.50 gpm		CIRC. PRESSURE :		psi	
DISPLACED WITH: 133.00 bbls of MUD		FLUID WT.: 14.5 ppb		TOP PLUG: N		BOTTOM PLUG: N		PLUG DOWN: / / @ :	
BUMPED : N		HELD : N		BLED OFF TO : psi					
DISP. RATE INITIAL : 2.50		FINAL : 1.50		MIN :		MAX :		gpm	
DISP. PRESS INITIAL: 1,800.00		FINAL : 100.00		MIN :		MAX :		gpm	
LOST CIRC. : Y		% LOST : 100		VOL : 175.00 ft3		FOAM CMT. : N N2 :		cfn START : END : scfn/bbl TOT: scf	
FLUID VOL. TOTAL :		FLUID VOL. RETURNED :		SLURRY VOL. TOTAL :		SLURRY VOL. RETURNED :			
FIRST PREFLUSH USED :		bbls of		FLUID WT. : ppb		ADDITIVES :			
SECOND PREFLUSH USED :		bbls of		FLUID WT. : ppb		ADDITIVES :			
TIME STAGE STARTED:		TIME STAGE COMPLETED:		HRS. BEFORE OPEN:		Hrs(2nd stage) HRS. CIRC. BTWN STAGES:			
TIME BROKE CIRC.:		TIME PIPE MOVE START:		TIME PIPE MOVE END:		TIME RELEASE PLUG:			

COMMENTS
PUMPED ECONOLITE/CALCIUM CHLORIDE LCM PILL & CMT AS FOLLOWS:
25 BBL 10% CALCIUM CHLORIDE (39 LBS/BBL WATER)
10 BBL FRESH WATER
24 BBL ECONOLITE (SODIUM SILICATE)
10 BBL FRESH WATER
25 BBL 10% CALSIUM CHLORIDE
10 BBL FRESH WATER
24 BBL ECONOLITE
10 BBL FRESH WATER
30 BBL 13.5 PPG CEMENT SLURRY
10 BBL FRESH WATER
133 BBL 14.5 PPG MUD.
.
DISPLACED 15 BBL CMT OUT OF STRING & PULLED BACK TO 4,800'.
HAD NO RETURN DURING LCM/CMT JOB. LOST 160 BBL MUD WHILE
PULLING BACK TO 7,211'. NO LOSSES THEREAFTER.
BIT DEPTH WHILE PUMPING AWAY PILLS: 9,111'.

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**DIMS CEMENT REPORT
PHILLIPS**

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WELL: ELDFISK 2/7-28			DATE: 27/04/92		
JOB TYPE : Plug - Plug back		STARTED : 27/04/92 @: 16:00		COMPLETED : 27/04/92 @: 17:30	
CEMENTER : HALLIBURTON		STRING CEMENTED : 09		RETURNS : Y	
CEMENTED INTERVAL : 8,950.00 - 9,304.00			TOTAL NUMBER OF STAGES : 01		
CBL RUN : N		CET RUN : N		BHT LOG : TIME WOC : :	

HOLE DESCRIPTION					LEAK OFF INFORMATION			
FROM	TO	SIZE	% OVER	DISP.EFF.	CASING TEST :	psi	for :	min
9,295.00	9,304.00	12.3			DRILLED :		new :	in hole
8,950.00	9,295.00	15.0			LEAK OFF TEST :	psi	with :	ppg
					AT A DEPTH OF :	ft	EQUIVALENT FLUID DENSITY :	ppg
							PRESSURE @ TEST DEPTH :	psi

STAGE INFORMATION									
STAGE NUMBER : 001of 01		STAGE TYPE : 1		PLANNED INTERVAL : 8,950.00 - 9,304.00					
DRILL STRING DEPTH : 9,280.00 ft		TOOL DEPTH : 9,280.00 ft		DRILL STRING PRESSURE INITIAL : 1300		FINAL : 1400		psi	
				ANNULAR PRESSURE INITIAL :		FINAL :		psi	
STARTED MIXING : 16:20 Hrs		COMPLETED : 17:00 Hrs		MIXING RATE : 80.00 gpm		MIXING PRESSURE : 1300		psi	
BREAK PRESSURE : 1270 psi		TIME CIRC. @ BOT : 2.50 Hrs		CIRC. RATE : 420.00 gpm		CIRC. PRESSURE : 1270		psi	
DISPLACED WITH: 147.00 bbls of MUD		FLUID WT.: 14.4 ppb		TOP PLUG: N		BOTTOM PLUG: N		PLUG DOWN: / / @ :	
BUMPED : N		HELD : N		BLED OFF TO : psi					
DISP. RATE INITIAL : 205.00		FINAL : 205.00		MIN : 205.00		MAX : 205.00		gpm	
DISP. PRESS INITIAL: 1,250.00		FINAL : 1,250.00		MIN : 1,000.00		MAX : 1,500.00		gpm	
LOST CIRC. : N		% LOST :		VOL : ft3		FOAM CMT. : N		N2 : cfn	
START : END :		scfn/bbl		TOT: scf					
FLUID VOL. TOTAL : 242.00		FLUID VOL. RETURNED : 212.00		SLURRY VOL. TOTAL : 75.00		SLURRY VOL. RETURNED :			
FIRST PREFLUSH USED :		bbls of		FLUID WT. : ppb		ADDITIVES :			
SECOND PREFLUSH USED :		bbls of		FLUID WT. : ppb		ADDITIVES :			
TIME STAGE STARTED:		TIME STAGE COMPLETED:		HRS. BEFORE OPEN:		Hrs(2nd stage)		HRS. CIRC. BTWN STAGES:	
TIME BROKE CIRC.:		TIME PIPE MOVE START:		TIME PIPE MOVE END:		TIME RELEASE PLUG:			

COMMENTS
CEMENT PLUG WAS SET TO STOP LOSSES. PUMPED 20 BBLS DRILL WATER IN FRONT AND 0.75 BBLS DRILL WATER BEHIND. HAD NO RETURNS WHEN PUMPING WATER IN FRONT AND 30 % RET WHILE PUMPING CEMENT. OBTAINED FULL RETURNS W/30 BBLS OF DISPLACEMENT PUMPED (CMT STILL INSIDE STRING). LOST +/- 40 BBLS WHEN POOH 10 STNDS AND STARTING CIRC.

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WELL: ELDFISK 2/7-28	DATE: 29/04/92
JOB TYPE : Plug - Plug back STARTED : 29/04/92 @: 02:30 COMPLETED : 29/04/92 @: 03:30 CEMENTER : HALLIBURTON STRING CEMENTED : 09 RETURNS : Y CEMENTED INTERVAL : 8,960.00 - 9,260.00 TOTAL NUMBER OF STAGES : 01 CBL RUN : N CBY RUN : N BHT LOG : TIME WOC : :	

HOLE DESCRIPTION					LEAK OFF INFORMATION			
FROM	TO	SIZE	% OVER	DISP.EFF.	CASING TEST :	psi	for :	min
8,960.00	9,260.00	12.3			DRILLED :	ft	new :	in hole
					LEAK OFF TEST :	psi	with :	ppg
					AT A DEPTH OF :	ft	EQUIVALENT FLUID DENSITY :	ppg
							PRESSURE @ TEST DEPTH :	psi

STAGE INFORMATION

STAGE NUMBER : 001 of 01	STAGE TYPE : 1	PLANNED INTERVAL : 8,960.00 - 9,260.00
DRILL STRING DEPTH : 9,260.00 ft	TOOL DEPTH : 9,260.00 ft	DRILL STRING PRESSURE INITIAL : FINAL : psi ANNULAR PRESSURE INITIAL : FINAL : psi
STARTED MIXING : 02:38 Hrs	COMPLETED : 03:00 Hrs	MIXING RATE : 17.60 gpm MIXING PRESSURE : 1000 psi
BREAK PRESSURE : psi	TIME CIRC. @ BOT : 2.00 Hrs	CIRC. RATE : 728.00 gpm CIRC. PRESSURE : 3000 psi
DISPLACED WITH: 150.00 bbls of MUD	FLUID WT.: 14.4 ppb	TOP PLUG: N BOTTOM PLUG: N PLUG DOWN: / / @ :
BUMPED : N HELD : N BLED OFF TO : psi		
DISP. RATE INITIAL : 264.00	FINAL : 222.00	MIN : 222.00 MAX : 264.00 gpm
DISP. PRESS INITIAL: 1,250.00	FINAL : 1,000.00	MIN : 700.00 MAX : 1,250.00 gpm
LOST CIRC. : N % LOST :	VOL : ft3 FOAM CMT. : N N2 :	cfm START : END : scfm/bbl TOT: scf
FLUID VOL. TOTAL :	FLUID VOL. RETURNED :	SLURRY VOL. TOTAL : SLURRY VOL. RETURNED :
FIRST PREFLUSH USED : 20.00 bbls of DW	FLUID WT. : 8.3 ppb	ADDITIVES :
SECOND PREFLUSH USED : 1.00 bbls of DW	FLUID WT. : 8.3 ppb	ADDITIVES :
TIME STAGE STARTED:	TIME STAGE COMPLETED:	HRS. BEFORE OPEN: Hrs(2nd stage) HRS. CIRC. BTWN STAGES:
TIME BROKE CIRC.:	TIME PIPE MOVE START:	TIME PIPE MOVE END: TIME RELEASE PLUG:

COMMENTS

SET A BALANCED CMT PLUG F/9260' T/8960'. PUMPED 20 BBL DW
AHEAD AND 1 BBL DW BEHIND SLURRY. NO LOSSES DURING CMT JOB.

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**DIMS CEMENT REPORT
PHILLIPS**

Page: 1

WELL: ELDFISK 2/7-28		DATE: 09/05/92
JOB TYPE : Primary - liner	STARTED : 09/05/92 @: 15:00	COMPLETED : 09/05/92 @: 16:50
CEMENTER : HALLIBURTN	STRING CEMENTED : 11	RETURNS : Y
CEMENTED INTERVAL : 7,820.00 - 9,220.00	TOTAL NUMBER OF STAGES : 01	
CBL RUN : N	CET RUN : N	BHT LOG : TIME WOC : :

HOLE DESCRIPTION					LEAK OFF INFORMATION			
FROM	TO	SIZE	% OVER	DISP.EFF.	CASING TEST :	psi	for :	min
9,216.00	9,220.00	12.3			DRILLED :	ft	new :	in hole
4,904.00	9,216.00	15.0			LEAK OFF TEST :	psi	with :	ppg
					AT A DEPTH OF :	ft	EQUIVALENT FLUID DENSITY :	ppg
							PRESSURE @ TEST DEPTH :	psi

STAGE INFORMATION									
STAGE NUMBER : 001of 01		STAGE TYPE :		PLANNED INTERVAL : 7,820.00 - 9,220.00					
DRILL STRING DEPTH :		ft	TOOL DEPTH :		ft	DRILL STRING PRESSURE INITIAL :		FINAL :	psi
						ANNULAR PRESSURE INITIAL :		FINAL :	psi
STARTED MIXING : 13:40 Hrs		COMPLETED : 14:50 Hrs		MIXING RATE : 147.00 gpm		MIXING PRESSURE : 900 psi			
BREAK PRESSURE : 200 psi		TIME CIRC. @ BOT : 3.00 Hrs		CIRC. RATE : gpm		CIRC. PRESSURE : psi			
DISPLACED WITH: 578.00 bbls of MUD		FLUID WT.: 15.6 ppb		TOP PLUG: Y		BOTTOM PLUG: N		PLUG DOWN: 09/05/92 @16:50	
BUMPED : Y		HELD : Y		BLED OFF TO : psi					
DISP. RATE INITIAL : 210.00		FINAL : 210.00	MIN : 210.00	MAX : 210.00 gpm					
DISP. PRESS INITIAL: 800.00		FINAL : 800.00	MIN : 800.00	MAX : 800.00 gpm					
LOST CIRC. : N		% LOST :	VOL :	ft3	FOAM CMT. : N	N2 :	cfm	START :	END : scfn/bbl TOT: scf
FLUID VOL. TOTAL : 617.60		FLUID VOL. RETURNED :		SLURRY VOL. TOTAL : 1,051.00		SLURRY VOL. RETURNED :			
FIRST PREFLUSH USED : 50.00bbls of DUAL "E" SPACER		FLUID WT. : 15.5 ppb		ADDITIVES :					
SECOND PREFLUSH USED :		bbls of		FLUID WT. : ppb		ADDITIVES :			
TIME STAGE STARTED:		TIME STAGE COMPLETED:		HRS. BEFORE OPEN:		Hrs(2nd stage)		HRS. CIRC. BTWN STAGES:	
TIME BROKE CIRC.:		TIME PIPE MOVE START:		TIME PIPE MOVE END:		TIME RELEASE PLUG:			

COMMENTS
PUMPED 50 BBLS 15.5 PPG DUAL "E" SPACER AHEAD OF CMT SLURRY, AND 5 BBLS BEHIND. BUMPED PLUG W/1000 PSI.

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**DIMS CEMENT REPORT
PHILLIPS**

Page: 1

WELL: ELDFISK 2/7-28		DATE: 10/05/92
JOB TYPE : Remedial Squeeze	STARTED : 10/05/92 @: 07:30	COMPLETED : 10/05/92 @: 08:30
CEMENTER : HALLIBURTON	STRING CEMENTED : 11	RETURNS : N
CEMENTED INTERVAL : -	TOTAL NUMBER OF STAGES : 01	
CBL RUN : N	CET RUN : N	BHT LOG : TIME WOC : :

HOLE DESCRIPTION					LEAK OFF INFORMATION			
FROM	TO	SIZE	% OVER	DISP.EFF.	CASING TEST :	psi	for :	min
					DRILLED :	ft	new :	in hole
					LEAK OFF TEST :	psi	with :	ppg
					AT A DEPTH OF :	ft	EQUIVALENT FLUID DENSITY :	ppg
							PRESSURE @ TEST DEPTH :	psi

STAGE INFORMATION									
STAGE NUMBER : 001of 01		STAGE TYPE :		PLANNED INTERVAL : -					
DRILL STRING DEPTH :		ft	TOOL DEPTH :		ft	DRILL STRING PRESSURE INITIAL :		FINAL :	psi
						ANNULAR PRESSURE INITIAL :		FINAL :	psi
STARTED MIXING : 07:30 Hrs		COMPLETED : 08:00 Hrs		MIXING RATE : 168.00 gpm		MIXING PRESSURE :		psi	
BREAK PRESSURE : psi		TIME CIRC. @ BOT : Hrs		CIRC. RATE : gpm		CIRC. PRESSURE :		psi	
DISPLACED WITH: bbls of		FLUID WT.: ppb		TOP PLUG: N BOTTOM PLUG: N PLUG DOWN: / / @ :					
BUMPED : N HELD : N BLED OFF TO :		psi							
DISP. RATE INITIAL :		FINAL :	MIN :	MAX :	gpm				
DISP. PRESS INITIAL:		FINAL :	MIN :	MAX :	gpm				
LOST CIRC. : N % LOST :		VOL :	ft3	FOAM CMT. : N N2 :	cfm	START :	END :	scfn/bbl TOT:	scf
FLUID VOL. TOTAL :		FLUID VOL. RETURNED :		SLURRY VOL. TOTAL :		SLURRY VOL. RETURNED :			
FIRST PREFLUSH USED :		bbls of		FLUID WT. :		ppb	ADDITIVES :		
SECOND PREFLUSH USED :		bbls of		FLUID WT. :		ppb	ADDITIVES :		
TIME STAGE STARTED:		TIME STAGE COMPLETED:		HRS. BEFORE OPEN:		Hrs(2nd stage) HRS. CIRC. BTWN STAGES:			
TIME BROKE CIRC.:		TIME PIPE MOVE START:		TIME PIPE MOVE END:		TIME RELEASE PLUG:			

COMMENTS
RIH TO TOP 4610', (TOL AT 4627').PERFORM INJECTION TEST. MIX AND PUMP 40 BBLS 15.8 PPG CMT SLURRY. MIXRATE 4 BPM, 600 PSI PRESSURE.DISPLACED CMT SLURRY TO END OF DP.CLOSE RAM.SQUEEZED 35 BBLS SLURRY,3 BPM - 450 TO 730 PSI SQUEEZE PRESSURE,BETWEEN 11.75" LINER AND 13.375" CSG.DUMP 5 BBLS SLURRY ON TOP OF LINER.POOH T/4130',WHILE POOH WELL FLOWED 13 BBLS.CIRC AT 4130',NO CMT IN RETURN.

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**DIMS CEMENT REPORT
PHILLIPS**

Page: 1

WELL: ELDFISK 2/7-28	DATE: 11/05/92
JOB TYPE : Remedial Squeeze STARTED : 11/05/92 @: 12:00 COMPLETED : 11/05/92 @: 12:00 CEMENTER : STRING CEMENTED : 11 RETURNS : N CEMENTED INTERVAL : - TOTAL NUMBER OF STAGES : 01 CBL RUN : N CET RUN : N BHT LOG : TIME WOC : :	

HOLE DESCRIPTION					LEAK OFF INFORMATION			
FROM	TO	SIZE	% OVER	DISP.EFF.	CASING TEST :	psi	for :	min
					DRILLED :	ft	new :	in hole
					LEAK OFF TEST :	psi	with :	ppg
					AT A DEPTH OF :	ft	EQUIVALENT FLUID DENSITY :	ppg
							PRESSURE @ TEST DEPTH :	psi

STAGE INFORMATION									
STAGE NUMBER : 001 of 01		STAGE TYPE :		PLANNED INTERVAL :					
DRILL STRING DEPTH : 4,627.00 ft		TOOL DEPTH :		ft		DRILL STRING PRESSURE INITIAL :		FINAL : psi	
						ANNULAR PRESSURE INITIAL :		FINAL : psi	
STARTED MIXING : 12:00 Hrs		COMPLETED : 13:00 Hrs		MIXING RATE : 168.00 gpm		MIXING PRESSURE : 700 psi			
BREAK PRESSURE : psi		TIME CIRC. @ BOT : Hrs		CIRC. RATE : gpm		CIRC. PRESSURE : psi			
DISPLACED WITH: 72.00 bbls of MUD		FLUID WT.: 15.6 ppb		TOP PLUG: N		BOTTOM PLUG: N		PLUG DOWN: / / @ :	
BUMPED : N		HELD : N		BLED OFF TO : psi					
DISP. RATE INITIAL : 210.00		FINAL : 210.00		MIN : 210.00		MAX : 210.00		gpm	
DISP. PRESS INITIAL: 700.00		FINAL : 700.00		MIN : 700.00		MAX : 700.00		gpm	
LOST CIRC. : N		% LOST :		VOL : ft3		FOAM CMT. : N		N2 : cfn	
START : END :		scfn/bbl		TOT: scf					
FLUID VOL. TOTAL : 47.50		FLUID VOL. RETURNED :		SLURRY VOL. TOTAL : 80.00		SLURRY VOL. RETURNED :			
FIRST PREFLUSH USED : 10.00 bbls of DRILLWATER		FLUID WT. : 8.3 ppb		ADDITIVES :					
SECOND PREFLUSH USED : bbls of		FLUID WT. : ppb		ADDITIVES :					
TIME STAGE STARTED:		TIME STAGE COMPLETED:		HRS. BEFORE OPEN:		Hrs(2nd stage)		HRS. CIRC. BTWN STAGES:	
TIME BROKE CIRC.:		TIME PIPE MOVE START:		TIME PIPE MOVE END:		TIME RELEASE PLUG:			

COMMENTS
RIH W/CMT STINGER TO T.O.L. AT 4627'. PUMP 10 BBLS DRILLWATER. MIX AND PUMP 80 BBLS 15.8 PPG CMT SLURRY. DISPLACE SAME. SET A BALANCED CMT PLUG F/4627' T/4108'. CIP AT 13:00 HRS. POOH T/3890'. PUMP 50 BBLS NUTPLUG PILL AND DISPLACE SAME OUT OF HOLE. CLOSE PIPERAM. SQUEEZE 60 BBLS CMT SLURRY BETWEEN LINER AND CASING, RATE 8 BPM, PRESSURE 1300 PSI. WOC - HOLD 500 BACKPRESSURE.

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**DIMS CEMENT REPORT
PHILLIPS**

Page: 1

WELL: ELDFISK 2/7-28			DATE: 15/05/92		
JOB TYPE : Primary - liner		STARTED : 15/05/92 @: 09:50		COMPLETED : 15/05/92 @: 10:53	
CEMENTER : HALLIBURTON		STRING CEMENTED : 11		RETURNS : Y	
CEMENTED INTERVAL : 9,071.80 - 9,305.00		TOTAL NUMBER OF STAGES : 01			
CBL RUN: N		CET RUN : N		BHT LOG : TIME WOC : 12:	

HOLE DESCRIPTION					LEAK OFF INFORMATION			
FROM	TO	SIZE	% OVER	DISP.EFF.	CASING TEST :	psi	for :	min
9,220.00	9,305.00	13.5	50.0		DRILLED :	ft	new :	in hole
					LEAK OFF TEST :	psi	with :	ppg
					AT A DEPTH OF :	ft	EQUIVALENT FLUID DENSITY :	ppg
							PRESSURE @ TEST DEPTH :	psi

STAGE INFORMATION									
STAGE NUMBER : 001of 01		STAGE TYPE : LINER			PLANNED INTERVAL : 9,071.00 - 9,305.00				
DRILL STRING DEPTH :		ft	TOOL DEPTH :		ft	DRILL STRING PRESSURE INITIAL :		FINAL :	psi
						ANNULAR PRESSURE INITIAL :		FINAL :	psi
STARTED MIXING : 09:50 Hrs		COMPLETED : 10:12 Hrs			MIXING RATE : 190.00 gpm		MIXING PRESSURE : 470 psi		
BREAK PRESSURE : 200 psi		TIME CIRC. @ BOT : 60.00 Hrs			CIRC. RATE : 265.00 gpm		CIRC. PRESSURE : 950 psi		
DISPLACED WITH: 179.00 bbls of MUD		FLUID WT.: 554.4 ppb			TOP PLUG: Y BOTTOM PLUG: N		PLUG DOWN: 15/05/92 @10:53		
BUMPED : Y		HELD : Y		BLED OFF TO :		psi			
DISP. RATE INITIAL : 252.00		FINAL : 126.00		MIN : 126.00		MAX : 252.00 gpm			
DISP. PRESS INITIAL: 680.00		FINAL : 1,000.00		MIN : 680.00		MAX : 1,000.00 gpm			
LOST CIRC. : N		% LOST :	VOL :	ft3	FOAM CMT. : N	N2 :	cfm	START :	END :
FLUID VOL. TOTAL : 50.00		FLUID VOL. RETURNED : 50.00			SLURRY VOL. TOTAL : 50.00		SLURRY VOL. RETURNED :		
FIRST PREFLUSH USED :		bbls of			FLUID WT. :		ppb ADDITIVES :		
SECOND PREFLUSH USED :		bbls of			FLUID WT. :		ppb ADDITIVES :		
TIME STAGE STARTED:		TIME STAGE COMPLETED:			HRS. BEFORE OPEN:		Hrs(2nd stage) HRS. CIRC. BTWN STAGES:		
TIME BROKE CIRC.:		TIME PIPE MOVE START:			TIME PIPE MOVE END:		TIME RELEASE PLUG:		

COMMENTS
PUMP 50 BBL 14.0 PPG DUAL "E" SPACER. MIX & PUMP 50 BBL 15.0 PPG "G" CMT, FOLLOWED BY 5 BBL 14.0 PPG DUAL "E" SPACER DISPLACED CMT WITH 13.2 PPG MUD AT 6 BPM. RECIPROCATED STRING THROUGHOUT CMT JOB. SHEAR WIPER PLUG WITH 1,600 PSI. BUMP PLUG WITH 2,000 PSI. RELEASE NODECO LINER R/TOOL WITH 10 RH TURNS. PULL BACK TO 8,261' & CIRC B/U. NO CMT IN RETURNS. POOH.

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WELL: ELDFISK 2/7-28		DATE: 15/05/92
JOB TYPE : Primary - liner	STARTED : 15/05/92 @: 09:50	COMPLETED : 15/05/92 @: 10:53
CEMENTER : HALLIBURTON	STRING CEMENTED : 11	RETURNS : Y
CEMENTED INTERVAL : 9,071.80 - 9,305.00		TOTAL NUMBER OF STAGES : 01
CBL RUN : N	CET RUN : N	BHT LOG : TIME WOC : 12:

[illegible]

**DIMS CEMENT REPORT
PHILLIPS**

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WELL: ELDFISK 2/7-28		DATE: 10/06/92
JOB TYPE : Primary - liner STARTED : 10/06/92 @: 06:30 COMPLETED : 10/06/96 @: 10:00 CEMENTER : HALLIBURTON STRING CEMENTED : 14 RETURNS : Y CEMENTED INTERVAL : 9,038.00 - 9,907.00 TOTAL NUMBER OF STAGES : 01 CBL RUN : N CET RUN : N BHT LOG : TIME WOC : :		

HOLE DESCRIPTION					LEAK OFF INFORMATION			
FROM	TO	SIZE	% OVER	DISP.EFF.	CASING TEST :	psi	for :	min
9,305.00	9,907.00	12.3	20.0		DRILLED :	ft	new :	in hole
					LEAK OFF TEST :	psi	with :	ppg
					AT A DEPTH OF :	ft	EQUIVALENT FLUID DENSITY :	ppg
							PRESSURE @ TEST DEPTH :	psi

STAGE INFORMATION									
STAGE NUMBER : 001 of 01		STAGE TYPE :		PLANNED INTERVAL : 9,038.00 - 9,907.00					
DRILL STRING DEPTH : 9,907.00 ft		TOOL DEPTH :		ft	DRILL STRING PRESSURE INITIAL :		FINAL :	psi	
					ANNULAR PRESSURE INITIAL :		FINAL :	psi	
STARTED MIXING : 07:10 Hrs		COMPLETED : 08:30 Hrs		MIXING RATE : 126.00 gpm		MIXING PRESSURE :		psi	
BREAK PRESSURE : psi		TIME CIRC. @ BOT : Hrs		CIRC. RATE : 105.00 gpm		CIRC. PRESSURE :		psi	
DISPLACED WITH: 200.00 bbls of MUD				FLUID WT.: 10.0 ppb		TOP PLUG: Y		BOTTOM PLUG: N	
BUMPED : Y HELD : Y BLED OFF TO : psi				PLUG DOWN: 10/06/92 @10:00					
DISP. RATE INITIAL : 105.00		FINAL : 105.00		MIN : 105.00	MAX : 105.00 gpm				
DISP. PRESS INITIAL:		FINAL : 600.00		MIN :	MAX : 600.00 gpm				
LOST CIRC. : Y		% LOST :	VOL : 202.00 ft3		FOAM CMT. : N N2 :		cfm	START :	END :
FLUID VOL. TOTAL : 440.00		FLUID VOL. RETURNED : 404.00		SLURRY VOL. TOTAL : 200.00		SLURRY VOL. RETURNED :		scf	
FIRST PREFLUSH USED :		40.00 bbls of DUAL "E" SPACER		FLUID WT. : 13.0 ppb		ADDITIVES :			
SECOND PREFLUSH USED :		bbls of		FLUID WT. : ppb		ADDITIVES :			
TIME STAGE STARTED:		TIME STAGE COMPLETED:		HRS. BEFORE OPEN:		Hrs(2nd stage)		HRS. CIRC. BTWN STAGES:	
TIME BROKE CIRC.:		TIME PIPE MOVE START:		TIME PIPE MOVE END:		TIME RELEASE PLUG:			

COMMENTS

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**DIMS CEMENT REPORT
PHILLIPS**

Page: 1

WELL: ELDFISK 2/7-28	DATE: 14/06/92
JOB TYPE : STARTED : 14/06/92 @: 06:00 COMPLETED : 14/06/92 @: 10:00 CEMENTER : HALLIBURTON STRING CEMENTED : 14 RETURNS : Y CEMENTED INTERVAL : 3,750.00 - 9,037.00 TOTAL NUMBER OF STAGES : 01 CBL RUN : N CET RUN : N BHT LOG : TIME WOC : :	

HOLE DESCRIPTION					LEAK OFF INFORMATION			
FROM	TO	SIZE	% OVER	DISP.EFF.	CASING TEST : psi	for : min		
					DRILLED : ft	new : in hole		
					LEAK OFF TEST : psi	with : ppg		
					AT A DEPTH OF : ft	EQUIVALENT FLUID DENSITY : ppg		
						PRESSURE @ TEST DEPTH : psi		

STAGE INFORMATION									
STAGE NUMBER : 001of 01		STAGE TYPE :		PLANNED INTERVAL : 3,500.00 - 9,037.00					
DRILL STRING DEPTH :		ft		TOOL DEPTH :		ft		DRILL STRING PRESSURE INITIAL : FINAL : psi	
								ANNULAR PRESSURE INITIAL : FINAL : psi	
STARTED MIXING : 06:00 Hrs		COMPLETED : 06:30 Hrs		MIXING RATE : 4.50 gpm		MIXING PRESSURE : 600 psi			
BREAK PRESSURE : psi		TIME CIRC. @ BOT : Hrs		CIRC. RATE : gpm		CIRC. PRESSURE : psi			
DISPLACED WITH: 650.00 bbls of MUD		FLUID WT.: 12.0 ppb		TOP PLUG: Y		BOTTOM PLUG: N		PLUG DOWN: / / @ :	
BUMPED : N		HELD : Y		BLED OFF TO : psi					
DISP. RATE INITIAL : 400.00		FINAL : MIN : 105.00		MAX : 126.00 gpm					
DISP. PRESS INITIAL:		FINAL : MIN : MAX : gpm							
LOST CIRC. : Y		% LOST : VOL : 123.50 ft3		FOAM CMT. : N		N2 : cfn		START : END : scfn/bbl TOT: scf	
FLUID VOL. TOTAL : 3,650.00		FLUID VOL. RETURNED : 2,414.00		SLURRY VOL. TOTAL : 758.00		SLURRY VOL. RETURNED :			
FIRST PREFLUSH USED : bbls of		FLUID WT. : ppb		ADDITIVES :					
SECOND PREFLUSH USED : bbls of		FLUID WT. : ppb		ADDITIVES :					
TIME STAGE STARTED:		TIME STAGE COMPLETED:		HRS. BEFORE OPEN:		Hrs(2nd stage)		HRS. CIRC. BTWN STAGES:	
TIME BROKE CIRC.:		TIME PIPE MOVE START:		TIME PIPE MOVE END:		TIME RELEASE PLUG:			

COMMENTS
CEMENTED 9.875" CSG TIEBACK STRING. AFTER CMT ENTERED ANNULUS LOST 15 BBLs.

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WELL: ELDFISK 2/7-28	DATE: 14/06/92
JOB TYPE :	STARTED : 14/06/92 @: 06:00
CEMENTER : HALLIBURTON	COMPLETED : 14/06/92 @: 10:00
CEMENTED INTERVAL : 3,750.00 - 9,037.00	STRING CEMENTED : 14
CBL RUN : N	RETURNS : Y
CET RUN : N	TOTAL NUMBER OF STAGES : 01
BHT LOG :	TIME WOC : :

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**DIMS CEMENT REPORT
PHILLIPS**

Page: 1

WELL: ELDFISK 2/7-28			DATE: 18/06/92		
JOB TYPE : Plug - Sidetrack		STARTED : 18/06/92 @: 04:00		COMPLETED : 18/06/92 @: 07:15	
CEMENTER : HALLIBURTON		STRING CEMENTED : 14		RETURNS : Y	
CEMENTED INTERVAL : 9,711.00 - 10,006.00			TOTAL NUMBER OF STAGES : 01		
CBL RUN : N		CET RUN : N		BHT LOG : TIME WOC : :	

HOLE DESCRIPTION					LEAK OFF INFORMATION			
FROM	TO	SIZE	% OVER	DISP.EFF.	CASING TEST :	psi	for :	min
9,907.00	9,990.00	7.4	25.0		DRILLED :	ft	new :	in hole
9,990.00	10,006.00	12.5	25.0		LEAK OFF TEST :	psi	with :	ppg
					AT A DEPTH OF :	ft	EQUIVALENT FLUID DENSITY :	ppg
							PRESSURE @ TEST DEPTH :	psi

STAGE INFORMATION									
STAGE NUMBER : 001of 01		STAGE TYPE :			PLANNED INTERVAL : 9,711.00 - 10,006.00				
DRILL STRING DEPTH : 10,006.00 ft		TOOL DEPTH :		ft	DRILL STRING PRESSURE INITIAL :		FINAL :	psi	
					ANNULAR PRESSURE INITIAL :		FINAL :	psi	
STARTED MIXING : 04:00 Hrs		COMPLETED : 04:20 Hrs		MIXING RATE : 84.00 gpm		MIXING PRESSURE :		250 psi	
BREAK PRESSURE : psi		TIME CIRC. @ BOT : Hrs		CIRC. RATE : gpm		CIRC. PRESSURE :		psi	
DISPLACED WITH: 156.00 bbls of MUD		FLUID WT.: 12.0 ppb		TOP PLUG: N BOTTOM PLUG: N		PLUG DOWN: / / @ :			
BUMPED : N		HELD : N		BLED OFF TO : psi					
DISP. RATE INITIAL : 6.30		FINAL : 6.30		MIN : 6.30		MAX : 6.30 gpm			
DISP. PRESS INITIAL: 700.00		FINAL : 800.00		MIN : 700.00		MAX : 850.00 gpm			
LOST CIRC. : N % LOST :		VOL : ft3		FOAM CMT. : N N2 :		cfm START :		END : scfn/bbl TOT: scf	
FLUID VOL. TOTAL : 353.00		FLUID VOL. RETURNED : 343.00		SLURRY VOL. TOTAL : 157.00		SLURRY VOL. RETURNED :		157.00	
FIRST PREFLUSH USED : 35.00bbls of DUAL "E" SPACER		FLUID WT. : 13.0 ppb		ADDITIVES :					
SECOND PREFLUSH USED : bbls of		FLUID WT. : ppb		ADDITIVES :					
TIME STAGE STARTED:		TIME STAGE COMPLETED:		HRS. BEFORE OPEN:		Hrs(2nd stage)		HRS. CIRC. BTWN STAGES:	
TIME BROKE CIRC.:		TIME PIPE MOVE START:		TIME PIPE MOVE END:		TIME RELEASE PLUG:			

COMMENTS
SET A KICK OFF PLUG F/10006' T/9570'. POOH T/9550'. REVERSE CIRC. SQUEEZED 8 BBLS CMT INTO FORMATION, MAX PRESSURE 2600 PSI. ESTIMATED T.O.C. AT 9711'. CIP AT 07:15 HRS.

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**DIMS CEMENT REPORT
PHILLIPS**

Page: 1

WELL: ELDFISK 2/7-28			DATE: 21/06/92		
JOB TYPE : Plug - Sidetrack		STARTED : 21/06/92 @: 21:10		COMPLETED : 21/06/92 @: 22:15	
CEMENTER : HALLIBURTON		STRING CEMENTED : 14		RETURNS : Y	
CEMENTED INTERVAL : 9,700.00 - 10,018.00			TOTAL NUMBER OF STAGES : 01		
CBL RUN : N		CET RUN : N		BHT LOG : TIME WOC : :	

HOLE DESCRIPTION					LEAK OFF INFORMATION			
FROM	TO	SIZE	% OVER	DISP.EFF.	CASING TEST :	psi	for :	min
9,907.00	10,018.00	7.4	25.0		DRILLED :	ft	new :	in hole
					LEAK OFF TEST :	psi	with :	ppg
					AT A DEPTH OF :	ft	EQUIVALENT FLUID DENSITY :	ppg
							PRESSURE @ TEST DEPTH :	psi

STAGE INFORMATION									
STAGE NUMBER : 001 of 01		STAGE TYPE :		PLANNED INTERVAL : 9,700.00 - 10,018.00					
DRILL STRING DEPTH : 10,018.00 ft		TOOL DEPTH :		ft	DRILL STRING PRESSURE INITIAL :		FINAL :		psi
					ANNULAR PRESSURE INITIAL :		FINAL :		psi
STARTED MIXING : 21:28 Hrs		COMPLETED : 21:46 Hrs		MIXING RATE :		1.50 gpm	MIXING PRESSURE :		90 psi
BREAK PRESSURE : psi		TIME CIRC. @ BOT : Hrs		CIRC. RATE :		gpm	CIRC. PRESSURE :		psi
DISPLACED WITH: 137.00 bbls of MUD		FLUID WT.: 12.0 ppb		TOP PLUG: N		BOTTOM PLUG: N		PLUG DOWN: / / @ :	
BUMPED : N		HELD : N		BLED OFF TO :		psi			
DISP. RATE INITIAL : 6.00		FINAL : 6.00		MIN : 6.00		MAX : 6.40 gpm			
DISP. PRESS INITIAL: 1,000.00		FINAL : 1,380.00		MIN : 950.00		MAX : 1,380.00 gpm			
LOST CIRC. : N		% LOST :	VOL :	ft3	FOAM CMT. : N	N2 :	cfm	START :	END : scfn/bbl TOT: scf
FLUID VOL. TOTAL : 1,078.00		FLUID VOL. RETURNED : 1,078.00		SLURRY VOL. TOTAL : 112.00		SLURRY VOL. RETURNED :			
FIRST PREFLUSH USED : 31.00 bbls of DUAL "E" SPACER		FLUID WT. : 13.0 ppb		ADDITIVES : DUAL SPACER BLEND, BARIT					
SECOND PREFLUSH USED : bbls of		FLUID WT. :		ppb		ADDITIVES :			
TIME STAGE STARTED:		TIME STAGE COMPLETED:		HRS. BEFORE OPEN:		Hrs(2nd stage)		HRS. CIRC. BTWN STAGES:	
TIME BROKE CIRC.:		TIME PIPE MOVE START:		TIME PIPE MOVE END:		TIME RELEASE PLUG:			

COMMENTS
SIDETRACK PLUG # 2. F/TD-10018' T/9700'. CSG SHOE AT 9907'. PUMP 31 BBLS 13.0 PPG DUAL "E" SPACER. MIX AND PUMP 20 BBLS 17.0 PPG CMT SLURRY, FOLLOWED BY 4 BBLS DUAL "E" SPACER. DISPLACE WITH 137 BBLS 12.0 PPG MUD. CMT IN PLACE AT 22:10 HRS. POOH T/9700'. REVERSE CIRC. DUMP 50 BBLS SPACER CMT AND CONTAMINATED MUD.

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WELL: ELDFISK 2/7-28		DATE: 21/06/92
JOB TYPE : Plug - Sidetrack	STARTED : 21/06/92 @: 21:10	COMPLETED : 21/06/92 @: 22:15
CEMENTER : HALLIBURTON	STRING CEMENTED : 14	RETURNS : Y
CEMENTED INTERVAL : 9,700.00 - 10,018.00	TOTAL NUMBER OF STAGES : 01	
CBL RUN : N	CET RUN : N	BHT LOG : TIME WOC : :

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HOLE DESCRIPTION					LEAK OFF INFORMATION			
FROM	TO	SIZE	% OVER	DISP.EFF.	CASING TEST :	psi	for :	min
9,720.00	9,907.00	7.6			DRILLED :	ft	new :	in hole
9,907.00	9,977.00	8.5	25.0		LEAK OFF TEST :	psi	with :	ppg
9,977.00	10,043.00	7.4	25.0		AT A DEPTH OF :	ft	EQUIVALENT FLUID DENSITY :	ppg
							PRESSURE @ TEST DEPTH :	psi

COMMENTS
RUN 336' 2 7/8" CMT STINGER, RIH TO 10,041'. CIRC B/U.
PUMP 30.5 BBL 14.0 PPG DUAL "E" SPACER AHEAD.
MIX & PUMP 20 BBL 17.0 PPG CMT SLURRY.
PUMP 4.5 BBL DUAL "E" SPACER BEHIND.
DISPLACE CMT WITH 137 BBL 13.0 PPG MUD USING CMT UNIT.
PULL BACK TO 9,700'. NO DRAG. CIRC B/U, NO CMT IN RETURNS.
C.I.P. 20:50 HRS. EST.TOC AT 9,700'.

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**DIMS CEMENT REPORT
PHILLIPS**

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WELL: ELDFISK 2/7-28			DATE: 14/07/92		
JOB TYPE : Primary - liner		STARTED : 14/07/92 @: 06:00		COMPLETED : 14/07/92 @: 08:35	
CEMENTER : HALLIBURTON		STRING CEMENTED : 15		RETURNS : Y	
CEMENTED INTERVAL : 8,839.00 - 10,930.00			TOTAL NUMBER OF STAGES : 01		
CBL RUN : N		CET RUN : N		BHT LOG : TIME WOC : :	

HOLE DESCRIPTION					LEAK OFF INFORMATION			
FROM	TO	SIZE	% OVER	DISP.EFF.	CASING TEST :	psi	for :	min
9,907.00	10,950.00	9.0	25.0		DRILLED :	ft	new :	in hole
					LEAK OFF TEST :	psi	with :	ppg
					AT A DEPTH OF :	ft	EQUIVALENT FLUID DENSITY :	ppg
							PRESSURE @ TEST DEPTH :	psi

STAGE INFORMATION									
STAGE NUMBER : 001of 01		STAGE TYPE :		PLANNED INTERVAL : 8,839.00 - 10,930.00					
DRILL STRING DEPTH :		ft	TOOL DEPTH :		ft	DRILL STRING PRESSURE INITIAL :		FINAL :	psi
						ANNULAR PRESSURE INITIAL :		FINAL :	psi
STARTED MIXING : 07:00 Hrs		COMPLETED : : Hrs		MIXING RATE : 252.00 gpm		MIXING PRESSURE : 1500 psi			
BREAK PRESSURE : 700 psi		TIME CIRC. @ BOT : Hrs		CIRC. RATE : 185.00 gpm		CIRC. PRESSURE : 1000 psi			
DISPLACED WITH: 223.50 bbls of MUD		FLUID WT.: 14.0 ppb		TOP PLUG: Y		BOTTOM PLUG: Y		PLUG DOWN: 14/07/92 @08:35	
BUMPED : Y		HELD : Y		BLED OFF TO : psi					
DISP. RATE INITIAL : 147.00		FINAL : 147.00		MIN : 147.00		MAX : 147.00 gpm			
DISP. PRESS INITIAL: 1,600.00		FINAL : 1,600.00		MIN : 1,600.00		MAX : 1,600.00 gpm			
LOST CIRC. : N		% LOST :	VOL :	ft3	FOAM CMT. : N	N2 :	cfm	START :	END :
								scfn/bbl	TOT: scf
FLUID VOL. TOTAL : 340.50		FLUID VOL. RETURNED : 340.50		SLURRY VOL. TOTAL : 92.00		SLURRY VOL. RETURNED :			
FIRST PREFLUSH USED : 25.00bbls of DUAL "E" SPACER				FLUID WT. : 14.5 ppb		ADDITIVES :			
SECOND PREFLUSH USED : bbls of				FLUID WT. : ppb		ADDITIVES :			
TIME STAGE STARTED:		TIME STAGE COMPLETED:		HRS. BEFORE OPEN:		Hrs(2nd stage)		HRS. CIRC. BTWN STAGES:	
TIME BROKE CIRC.:		TIME PIPE MOVE START:		TIME PIPE MOVE END:		TIME RELEASE PLUG:			

COMMENTS

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WELL: ELDFISK 2/7-28		DATE: 14/07/92
JOB TYPE : Primary - liner	STARTED : 14/07/92 @: 06:00	COMPLETED : 14/07/92 @: 08:35
CEMENTER : HALLIBURTON	STRING CEMENTED : 15	RETURNS : Y
CEMENTED INTERVAL : 8,839.00 - 10,930.00	TOTAL NUMBER OF STAGES : 01	
CBL RUN : N	CET RUN : N	BHT LOG : TIME WOC : :

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COMMENTS
TEST SURFACE LINES TO 3,000 PSI. PUMP 10 BBL 17.2 PPG DUAL E SPACER. MIX & PUMP 46 BBLS 17.5 PPG SLURRY. 256 SX HI-DENS CMT. PUMP 2.85 BBL DUAL E SPACER BEHIND. DISPLACE CMT WITH 138.5 BBL 17.0 PPG MUD, USING CMT UNIT. NO BACKFLOW. PULL BACK TO 10,000' & CIRC. NO CMT IN RETURNS.

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WELL: ELDFISK 2/7-28	DATE: 31/07/92
JOB TYPE : Plug - Abandonment STARTED : 31/07/92 @: 18:05 COMPLETED : 31/07/92 @: 18:55 CEMENTER : HALLIBURTON STRING CEMENTED : 19 RETURNS : Y CEMENTED INTERVAL : 10,700.00 - 11,700.00 TOTAL NUMBER OF STAGES : 01 CBL RUN : N CET RUN : N BHT LOG : TIME WOC : 8:	

SLURRY INFORMATION

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**DIMS CEMENT REPORT
PHILLIPS**

Page: 1

WELL: ELDFISK 2/7-28		DATE: 01/08/92
JOB TYPE : Plug - Plug back STARTED : 01/08/92 @: 07:00 COMPLETED : 01/08/92 @: 08:00 CEMENTER : HALLIBURTON STRING CEMENTED : 19 RETURNS : Y CEMENTED INTERVAL : 8,600.00 - 9,000.00 TOTAL NUMBER OF STAGES : 01 CBL RUN : N CET RUN : N BHT LOG : TIME WOC : :		

HOLE DESCRIPTION					LEAK OFF INFORMATION			
FROM	TO	SIZE	% OVER	DISP.EFF.	CASING TEST :	psi	for :	min
8,600.00	8,839.00	8.6			DRILLED :	ft	new :	in hole
8,839.00	9,000.00	6.0			LEAK OFF TEST :	psi	with :	ppg
					AT A DEPTH OF :	ft	EQUIVALENT FLUID DENSITY :	ppg
							PRESSURE @ TEST DEPTH :	psi

STAGE INFORMATION									
STAGE NUMBER : 001of 01		STAGE TYPE : PLUG BACK		PLANNED INTERVAL : 8,600.00 - 9,000.00					
DRILL STRING DEPTH :		ft	TOOL DEPTH :		ft	DRILL STRING PRESSURE INITIAL :		FINAL :	psi
						ANNULAR PRESSURE INITIAL :		FINAL :	psi
STARTED MIXING : 07:20 Hrs		COMPLETED : 07:50 Hrs		MIXING RATE :		50.00 gpm	MIXING PRESSURE :		psi
BREAK PRESSURE :		psi	TIME CIRC. @ BOT :		Hrs	CIRC. RATE :		gpm	CIRC. PRESSURE : psi
DISPLACED WITH: 97.00 bbls of MUD		FLUID WT.: 17.0 ppb		TOP PLUG: N		BOTTOM PLUG: N		PLUG DOWN: / / @ :	
BUMPED : N		HELD : N	BLED OFF TO :		psi				
DISP. RATE INITIAL :		5.40	FINAL :	5.40	MIN :	MAX :	gpm		
DISP. PRESS INITIAL: 2,200.00		FINAL :	2,200.00	MIN :	MAX :	gpm			
LOST CIRC. : N		% LOST :	VOL :	ft3	FOAM CMT. : N	N2 :	cfm	START :	END : scfn/bbl TOT: scf
FLUID VOL. TOTAL :		FLUID VOL. RETURNED :		SLURRY VOL. TOTAL :		36.00	SLURRY VOL. RETURNED :		
FIRST PREFLUSH USED :		bbls of		FLUID WT. :		ppb	ADDITIVES :		
SECOND PREFLUSH USED :		bbls of		FLUID WT. :		ppb	ADDITIVES :		
TIME STAGE STARTED:		TIME STAGE COMPLETED:		HRS. BEFORE OPEN:		Hrs(2nd stage)		HRS. CIRC. BTWN STAGES:	
TIME BROKE CIRC.:		TIME PIPE MOVE START:		TIME PIPE MOVE END:		TIME RELEASE PLUG:			

COMMENTS

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WELL: ELDFISK 2/7-28		DATE: 01/08/92
JOB TYPE : Plug - Plug back	STARTED : 01/08/92 @: 07:00	COMPLETED : 01/08/92 @: 08:00
CEMENTER : HALLIBURTON	STRING CEMENTED : 19	RETURNS : Y
CEMENTED INTERVAL : 8,600.00 - 9,000.00	TOTAL NUMBER OF STAGES : 01	
CBL RUN : N	CET RUN : N	BHT LOG : TIME WOC : :

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