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WELL RECOMPLETION REPORT
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NR01605126

GEOLOGY FILE

FROM:
PHILLIPS PETROLEUM COMPANY-NORWAY
P.O.BOX 72
4001 STAVANGER, NORWAY

TO

WELL RECOMPLETION REPORT

WELL 2/4-3X

Form 7956 2-62

INTERNATIONAL DEPARTMENT

INDEX – INDIVIDUAL WELL RECORD

COUNTRY NORWAY LEASE 2/4 WELL NO. 3X

FIELD EKOFISK DATE COMPLETED August 29, 1972

- [x] 1. Index, Form 7956
- [x] 2. Proposal and Authorization to Drill
- [ ] 3. Location Plat
- [x] 4. Reports to Governmental Agencies
- [ ] 5. Well Graph on Correlation Log
- [ ] 6. Individual Well Completion Record, Form 2266
- [x] 7. Perforating & Squeeze Record, Form 822
- [ ] 8. Exploration Record, Form 883
- [ ] 9. Hydrocarbon Mud Log
- [ ] 10. Well Logs –
- [ ] Logs –
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- [ ] 11. Drill Stem Tests
- [ ] 12. Columnar Core Record, Form 2069
- [ ] 13. Core Analysis
- [x] 14. Individual Well Production Tests
- [ ] 15. Bottom Hole Pressure and Productivity Index Tests, Form 884
- [ ] 16. Water Analysis
- [ ] 17. Research Reports
- [ ] 18. Drilling Time and Bit Records
- [ ] 19. Hole Deviation Record
- [ ] 20. Mud Program and Record
- [ ] 21. Geological Summary
- [x] 22. Daily Report Detailed, Form 911
- [ ] 23. Proposal to Change Individual Well Status or to Repair or Replace Equipment, Form 902
- [ ] 24. Final Report Individual Well Status, Form 903
- [ ]
- [ ]
- [ ]
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- [ ]

2. 2/4-3 X Completion
FISKERIES

DET KONGELIGE DEPARTEMENT FOR INDUSTRI OG HÅNDVERK
KONTOR: AKERSGT. 42 - TLF. 11 90 90 - RIKSTELEFONER OG FJERNVALG TLF. 02. 41 79 00
POSTADRESSE: OSLO-DEP. OSLO 1

Phillips Petroleum Company Norway
Akersgt. 45

OSLO 1

Translation attached.

Deres ref.	Vår ref. (bes oppgitt ved svar)	Dato
	ID/Olje 429/71 DMH/Esk	22.2.71

Gjenpart:

Fiskeridepartementet
Forsvarsdepartementet
Kommunal- og arbeidsdepartementet
Direktoratet for arbeidstilsynet
Elektrisitetstilsynet
Fiskeridirektoratet
Fyrdirektoratet
Helsedirektoratet
Luftfartsdirektoratet
Politimesteren i Stavanger
Sjøfartsdirektoratet
Sprengstoffinspeksjonen
Skattedirektøren
Statens oljeråd
Statens utlendingskontor
Teledirektoratet
Tolldirektoratet
Sjøstridskreftene i Sør-Norge, Stavanger
Statens strålehygieniske institutt

RECEIVED
23 FEB. 1971
PHILLIPS PETROLEUM CO.

KONTINENTALSOKKELEN. TILLATELSE TIL Å KLARGJØRE BOREHULL 2/4-3 FOR PRODUKSJON

Man viser til Deres brev av 3.d.m.

Industridepartementet finner å kunne gi tillatelse til at borehull 2/4-3 i posisjon:

56°32'42,121"N
03°14'55,485"Ø

klargjøres for produksjon etter den fremlagte plan.

Mottatt 24 FEB. 1971

Med hensyn til Phillips-gruppens erstatningsansvar for skader etc. i forbindelse med dette arbeidet vises det til departementets brev av 11.11.70 og 4.12.70.

I god tid før arbeidet påbegynnes, skal underretning om plassering av boreplattformen "Ocean Viking" gis i samsvar med bestemmelsen i § 6 i kgl. res. av 25. august 1967.

Departementets inspektører vil være tilstede under den avsluttende del av arbeidet.

Etter fullmakt

Knut Dæhlin

Nils Gulnes

The Royal Ministry of Industry and Handicraft
Oslo - Dep. Oslo 1

PPCo-N
Nkongl. 15
Oslo 1

Our ref:	Date
10/Oyj 429/71 DHH/Esk	Feb. 22. 1971

cc:

The Continental Shelf. Permit to make Well 2/4-3X ready for Production.

Reference is made to your letter of February 3.

The Ministry of Industry grants permission to that well 2/4-3 in position

56° 32' 42.121" N
03° 14' 55.485" E

is being made ready for production according to the submitted plan.

With regard to the Phillips Group's

liability for damages, etc, in connection with this work, reference is made to the Ministry's letters of Nov. 11. 1970 and Dec. 4. 1970.

Well in advance of the commencement of the work, notice of the positioning of the drillingplatform "Ocean Viking" is to be given in accordance with the regulation in § 6 of Royal Decree of 25. August, 1967.

The Ministry's inspectors will be present during the finishing part of the work.

By authority

Knut Dahlen

Nils Gulnes

gf

INTER-OFFICE CORRESPONDENCE
STAVANGER OFFICE

WELL 2/4-3X

REVISED COMPLETION PROCEDURE

To : Drilling Supervisors
From: Paul Reynolds
Based on the 2/4-2X completion experience, the following revised procedure is issued for use in the field.

GENERAL

		Viking
RKB to Ocean Floor	-	322' RKB
RKB to Mean Sea Level	-	89' RKB
Water Depth	-	233' RKB
Top of Existing Mational head	- ±	301' RKB

Well location:

Longitude = 56° 30' 47.9"N
Latitude = 03° 12' 39.5"E

PROCEDURE

1. Insert and replace any worn anchor chain when pulling anchors. Make arrangements with Decca to locate the wellhead using their side scanning sonar. Decca will also set buoys at each required anchor location. Do not drop anchors near flow line.

2. Use two tugs for holding "Ocean Viking" over wellhead while setting anchors. Viking heading shall be approximately 310°. Test each anchor to maximum pull.

3. Divers will perform following work:
   (a) Attach guide lines
   (b) Make provision for attaching and running TV and Diving Bell (Guide Frames, Guide lines etc.)
   (c) Drift guide base using 4 arm guide
   (d) Confirm compass direction of existing guide base and TV extension arms on base and location of flow line.
   (e) Assist in retrieving corrosion cap. Handling tool 530057-A will be run on drill pipe with guide arm and cap pulled.
   (f) Inspect and clean all seal surfaces on exposed wellhead and latch grooves (Top and I.D. - especially seal ring surface) and confirm bore protector absence. Brush and clean all surfaces.

(g) Confirm 15' guide frame beam height above ocean floor using 14' pipe.
(h) Install Brown & Root clamp on 30" casing as soon as possible.

NOTE: After divers determine beam height have NORSCO cut off and install unions on flow line extensions. The completed extensions should then be sent to the Ocean Viking.

Modify BOP stack for running as shown in Figure No. 2. Assemble and test on rig - using BOP test procedure. Remove hydrill rubber and cut. This is to allow free passage of tubing hanger reentry tool.

NOTES:
1. Replace present upper body with part No. 530780-46-A with orienting slot.
2. When assembling BOP stack, orient slot in upper body as per drawing CC 2279.
3. Install Payne Pod and check all BOP and valves for proper operations before running stack.

4. Run the BOP stack (w/kill and choke lines) on drill pipe using bumper subs. Follow Phillips Procedure for running and testing BOP stack to prevent damage to seal surface and to test seals. Land BOP stack on the 13 5/8" wellhead housing, pressure test stack and 9 5/8" casing to 4300 psi using pipe rams followed by a blind ram test after COOH w/drill pipe. Test kill and choke lines to 5000 psi.

5. Run 16" riser assembly with snap lock connector. Attach weight cans to riser assembly. Install short bore protector 531144-A w/handling tool 531167-A.

6. GIH w/8½" rock bit and drill out cement and bridge plug, (5000') inside 9 5/8" casing to the top of the 7" liner COOH. Test csg. to 4300 psi. Use light soda ash pretreatment drilling cement. Use fine screens, double shaker etc. Bottom hole drlg. assembly - bit, stabilizer, collars, B.S. etc. Use 8½" casing scraper above bit on last bit run and rotate scraper through 9770 to 9870' interval for setting subsequent packer.

7. Under supervision by Mr. Pope, have Baroid catch an undiluted and a cement contaminated mud samples while circulating mud from the top of the 7" liner hanger. Run packer mud test at 275° F in order to determine mud treatment required to prevent high temperature gelation and barite settlement for a 14.3 lbs/gal. mud weight. (450 psi overbalance.

8. GIH with 6" rock bit and drill out bridge plug (9937') and cement down to top of bridge plug set at 10,530' COOH.

9. To clear junk from BOP recasses

   (1) Close hydrill on last stand of collars while COOH

   (2) After COOH starting at top of stack and working down, close and open each set of rams two time.

   (3) Run jetting tool on D.P. and wash out entire stack.

10. GIH with D.P. opened, condition mud with final treatment for desired packer mud properties and for a 14.3 lbs/gal. weight. Use fine screens, double shaker, desilters, etc. Prior to COOH reverse circulate hole until shaker is cleaned up. While COOH, paint tool joints on last 6 stands of D.P. white.

11. Make trip to 7" liner with 8½" wire line junk basket. Make trip to PTD with 6" wire line junk basket. Perforate well as per attached schedule. Continuous hole observation will be required to assure that hole remains full and stable through out the perforating operation.

12. Run 6 stands of drill pipe in hole with white painted tool joints to determine low side of hole. Repaint these tool joints white when POOH.

13. Pull Bore Protector from well head using 531167-A bore protector retrieving tool. Obtain exact pipe footage distance to bore protector with respect to fixed mark on the guide line. This measurement is critical for tubing hanger space-out in step 16.

14. Run 7" spacer packoff bushing no. 531105-A using installation and retrieving tool for 9 5/8" - 7" packing units. Run no. 532348-A test plug for 7" packoff unit. CLose rams and test packoff to 5000psi. Retrieve test plug and handling string.

    NOTE: Have Baker pass running tools, shifting tools, etc., through all down-hole nipples before running tubing string.

15. Run Baker Model "DB" production packer on wire line and set at ± 9820 ft. Use collar locator to insure that packer is not set in casing coupling.

16. GIH with tubing string (with space out drill pipe on top) as shown in attached sketch. Drift each joint during pick-up, and pressure test each threaded connection while running string. The Gator-Hawk unit will be used to test each pipe coupling to 5999 psi. (Price break is at 6000 psi). On connections that cannot be tested with Gator-Hawk unit, a 6000 psi internal pressure test will be made using end plugs.

    (a) Pipe will be numbered, tallied drifted and each thread will be visually inspected and cleaned just prior to shipment to the rig.

(b) A special Baker packer grease will be applied to the Baker seal assembly. Grind off all burrs on tail pipe coupling.

(c) Baker-seal thread lubricant will be used on all the 3½" and 4½" API 8rd. thread connections. API modified lubricant will be used on all seal lock connections.

(d) Tubing torque recommendation

3½" EUE 8rd. Opt 2200 Min 2000 Max 2700 Ft. lbs.

4½" Seal-lock Establish torque required to make up 5 1/4 to 5½ turns (1 - 1 1/4 turns from hand tight). This will probably be between 1000-1600 ft/lbs.

(e) Run Lynes sidemount pressure sentry nipple with pressure sentry installed, 3 jts. above seal assembly. Attach Lynes steel encased single conductor to sentry unit and band to tubing on high side of hole (as previously determined). Sentry unit will be elctrically tested upon installation and at regular intervals while GIH.

(f) Use 5" drill pipe in top part of 4½" tubing string during spaceout (see fig. 3A). Last 6 stands to have white painted tool joints.

(g) Land seal nipples in packer and set down maximum of 5000 lbs weight. Obtain exact pipe measurement with respect to guide line mark. Close hydril, pressure annulus to 3000 psi to test packer and seals.

(h) Space out string so that there will be maximum of 5000 lbs weight on packer when hanger is landed. Install tubing space out pups below Baker "F" landing nipple.

(i) Observe painted tool joints to determine low side of hole.

(j) Connect 1/4" hydraulic tubing to Safety valve landing nipple using swedge lock connector. Rotate 4½" tubing so the 1/4" will be on high side of hole.

(k) Use Monel Straps to band 1/4" to 4½" tubing. Fill 1/4" tubing with Bray Oil. After installing National hanger attach both 1/4" lines as per National and Baker-Lynes procedures. Land Dummy mandrel in Model "A" ported nipple. Pressure test 1/4" tubing to 10,000 psi.

(l) Install tubing hanger installation tool no. 532114-A on top of tubing hanger and orient pin in _____ degrees direction, run assembly on 5" X-hole, drill pipe and bumper subs. Land hanger in wellhead body, slack off on bumper subs and turn handling string to right.

(m) Right hand rotation automatically locates, seats and latches the tubing hanger and also releases the installation tool. Retrieve the tubing hanger installation tool and handling string.

After retrieving handling string, pick up tubing hanger reentry tool no. 532343-A and attach 1/4" 10,000 psi WP hose to reentry tool safety valve control port. Orient slot in reentry tool _____ degrees direction and run on 4½" tubing riser. Stingers in tool will automatically release when the tool is properly oriented on tubing hangers. The 4½" stinger will drop down, seal and latch into the tubing hanger and the 1/4" stinger will plug into the safety valve control port. Pick up weight of riser and torque string to left 35% of make up torque. Release torque.

(a) Pressure test 1/4" S.S. tubing to 10,000 psi. thru 1/4" hose. Release pressure.

(b) Pull "Dummy" mandrel from ported nipple and pump Bray Oil down 1/4" Hose to check for restrictions.

(c) GIH with plug and land in "F" nipple at ± 9686. Pressure test tubing to 6000 psi. Retrieve plug. Land plug in "F" nipple.

(d) GIH and open sliding sleeve at ± 9651. Pressure tubing to 3000 psi to test tubing hanger packing. Retrieve plug from "F" nipple. Land plugs in Model "A" ported nipple at ± 550' to hold pressure from below and in Model "F" nipple at ± 335' to hold pressure from above. Pressure test tubing and plug to 6000 psi.

18. Pull strain on 4½" riser using air tugger w/swivel hook. Back-out riser assembly using right hand rotation and power tongs. COOH standing riser in derrick.

19. Pull 16" riser, BOPs, hydraulic operated Snaplock connector, choke and kill lines as per Phillips procedure ref. per folio 85.

20. Before running tree, make dive to check orientation of tubing hanger. Also clean and inspect all seal surfaces on hanger.

21. Prior to running tree assembly. (with tree on test stump.)

(a) Install vertical flow line extensions to tree unit and pressure test to 7000 psi. Fill tree with 1:10 Kontol - Diesel mixture.

(b) Attach 500' Payne Hose Bundle to tree at junction box. Test all valves for proper operations. Carefully observe and subsurface control hoses and valves. Color code all hoses and stamp Payne junction box.

(c) Attach 2" 2500 psi WP hose to service flow line outlet and pressure test to 2500 psi.

(d) Attach 3000 psi WP hydraulic hose to ½" needle valve on swab valve, ½" 10,000 psi hose to tree test port, and 2 hoses to auto-lock tree connector - open and close ports. Attach electrical conductor to Lynes Sentry outlet.

(e) Actuate and open valves as shown in fig. 4.

(f) Orient tree flow line outlets to conform with tubing hanger orientation when attaching tree to guide lines.

(g) Run tree on 4½" tubing. Use special auto-lock with stab in seal in upper body. Do not use LAURENT SEAL with this connector. Close auto-lock and pull test with 70,000 lbs.

(h) Pressure to 7000 psi through tree test port line. This will test the 13 5/8" auto-lock seal, stinger seals, tubing hanger seals and packoff seals, release pressure. Monitor tubing and annulus pressure while performing test.

(i) The tree - flow line connection will be made immediately following final production test.

NOTE: Do not operate manual master valve except in an emergency. If valve is used open to firm stop, then close ½ turn.

22. Fig. 4 shows valve positions when tree is landed. Valves III, V, VI are closed. Pressure tubing to 6000 psi and monitor 9 5/8" casing annulus pressure. Maintain tension on riser.

NOTE: Do not exceed 3000 psi annulus pressure. As soon as possible after test have divers remove hoses from tree test port and autolock open and close ports.

23. Pull plugs from "F" nipple at ± 335' and "A" nipple at ± 550'.

24. Make "Dummy Run" to sliding sleeve mandrel with sliding sleeve shifting tool. Displace tubing with water and xp polymer spacer to within 200' but not below sliding sleeve. Close sliding sleeve and come out of hole with shifting tool. Pressure test annulus to 2500 psi.

25. Set separation sleeve in safety valve seating nipple.

26. Connect the flow lines to the separator and pressure test surface equipment.

27. After checking out all equipment and approval is given by test foreman, open well wide open immediately to clear perforations. Continue to flow well wide open for 10 hrs or until cleaned up. If reduced rate production test is required instructions will be issued later.

28. After cleaning up perforation, acidize well as per instructions. Allow acid to work for 3 hrs. Open well wide open and flow at maximum rate for 10 hrs or until cleaned.

29. Immediately after cleaning up well, actuate each hydraulic valve several times to flush valves. Do not operate manual master valve at this time.

30. After clean up period, shut in well to install subsurface safety valve. Pull "Dummy Mandrel" from model "A" ported nipple. Run and install Baker safety valve in nipple. Bleed pressure off 1/4" tube then 4½" tubing and observe wall for

1 hr. to check safety valve seals. Pressure 4½" tubing to ± 4000 psi to equal well pressure. Pressure 1/4" tubing to 6000 psi to test for leak in operating system. Open well and perform production test if required. Do not close safety valve except in an emergency.

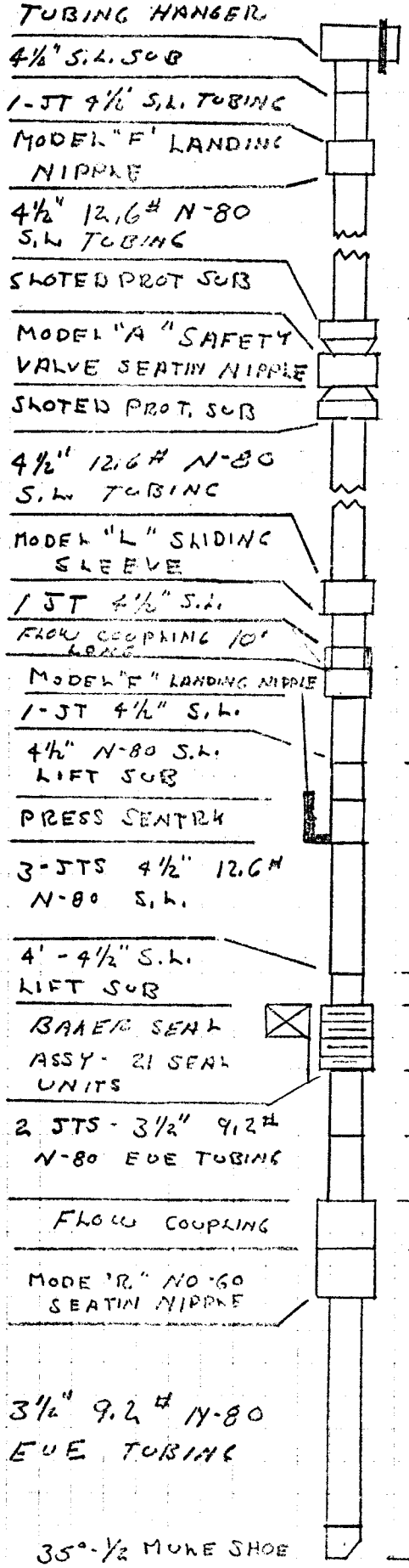
31. To close well following test, close test tree then master, swab and annulus valves. Release hydraulic pressure on all hydraulic hoses to valves. Have diver remove rig hoses from ½" valve on swab valve and close. Disconnect 500' hose bundle from Payne junction box. Remove 2" hose from service flow line outlet. Release auto-lock connector and pull 4½" riser. Install corrosion cap on top of tree with corrosion cap handling tool.

32. Make flow line tree tie and pressure test. Connect Payne hose bundle from Gulgtide to tree. Connect electrical conductor from Gulftide.

33. Release guide lines and attach surface spare bouy to No. 1 Guide spear using polypropylene rope.

2/4 - 3X

COMPLETION STRING



NATIONAL 6 PORT TUBING HANGER		
4½" S.L. SUB	3.00	301.00
1-JT 4½" S.L. TUBING	31.00	304.00
MODEL "F" LANDING NIPPLE	1.00	335.00
4½" 12.6# N-80 S.L. TUBING	213.00	336.00
SLOTED PROT SUB		
MODEL "A" SAFETY VALVE SEATIN NIPPLE	1.00	549.00
SLOTED PROT. SUB	5.00	550.00
4½" 12.6# N-80 S.L. TUBING	1.00	555.00
MODEL "L" SLIDING SLEEVE	908.00	556.00
1 JT 4½" S.L.	4.00	964.00
FLOW COUPLING 10' LONG	31.00	968.00
MODEL "F" LANDING NIPPLE	10.00	967.00
1-JT 4½" S.L.	1.00	968.00
4½" N-80 S.L. LIFT SUB	31.00	968.00
PRESS SENTRY	3.00	971.00
3-JTS 4½" 12.6# N-80 S.L.	2.00	972.00
4' - 4½" S.L. LIFT SUB	93.00	973.00
BAKER SEAL ASSY - 21 SEAL UNITS	4.00	981.00
2 JTS - 3½" 9.2# N-80 EUE TUBING	20.00	982.00
FLOW COUPLING	31.00	984.00
MODEL "R" NO-GO SEATIN NIPPLE	31.00	987.00
3½" 9.2# N-80 EUE TUBING	4.00	990.00
	1.00	990.00
	583.00	990.00
35°-½ MULE SHOE		10,470.00

Fig 7

PHILLIPS PETROLEUM COMPANY - NORWAY
STAVANGER

August 11, 1971

RE: WELL NO. 2/4-3X - PROCEDURE FOR RUNNING AND SETTING 5" LINER

General

The purpose of this liner is to case off the opening in the casing that has caused the formation to enter and plug the 4½" x 3½" tubing string.

Procedure

1. Run the following liner assembly (also shown in Figure 1): (Bottom to top)

1 - Type "V" BOT set shoe	1.60
1 - BOT landing collar (H.F.Jt.)	0.75
- 5"N80 - 18 lbs/ft F.J. Hydril Pipe w/LT & C 8rd. X-over Joint at top	687.00
1 - BOT liner swivel	2.50
1 - 5" LT & C 8rd. x 7" LT & C X-over	1.00
1 - 9 5/8" x 7" liner hanger (4' from top to slips)	10.00
1 - BOT screw set packer (S.S.) packer w/7.5" I.D. x 8 1/4" O.D. x 6' bore tie back sleeve	9.00
Total liner length	711.85

(a) Install liner centralizers ( ) approximately 30', 200 and 320' above the shoe

(b) Use API modified thread lubricant

(c) Use the following make-up torques:

for 5" Hydril Flush Jt. 1900 ft. lbs.

for 5" LT & API 8rd.: 2650 to 3200 ft. lbs.

for 7" LT & C API 8rd.: 3800 to 5700 ft. lbs.

(d) Install a pressure tested 7 3/4" bumper sub approximately 2000' above the liner hanger.

(e) Space out 5" drill pipe so that 12'± pipe will be above rotary when liner tags bottom.

2. Tag top of fish at 10478' pick up at least 5' and hang-off liner using left hand torque to Un-jay then lower to set. Rotate about 8 turns to release setting tool. Pick-up about 6' to check for release of tool then set weight on liner.

3. Circulate bottoms up + then pump in 8 bbls. of fresh water. Mix and pump in 180 sxs 16.2 lbs/gal± Class "E" cement mixed with fresh water (good soupy mixture - not too thin) using 4.5± gal. of fresh water per sack.

4. Disconnect chicksan at cementing head, displace line to floor with water and release cementing plug, pump in 1½ bbls. water and displace plug to bottom using 180± bbls. 14.3 lbs/gal mud. Bump plug and release pressure.

5. Set liner pack-off by right hand rotation (approximately 20 - 28 turns or to proper torque) and as supervised by Les Smith w/BOT.

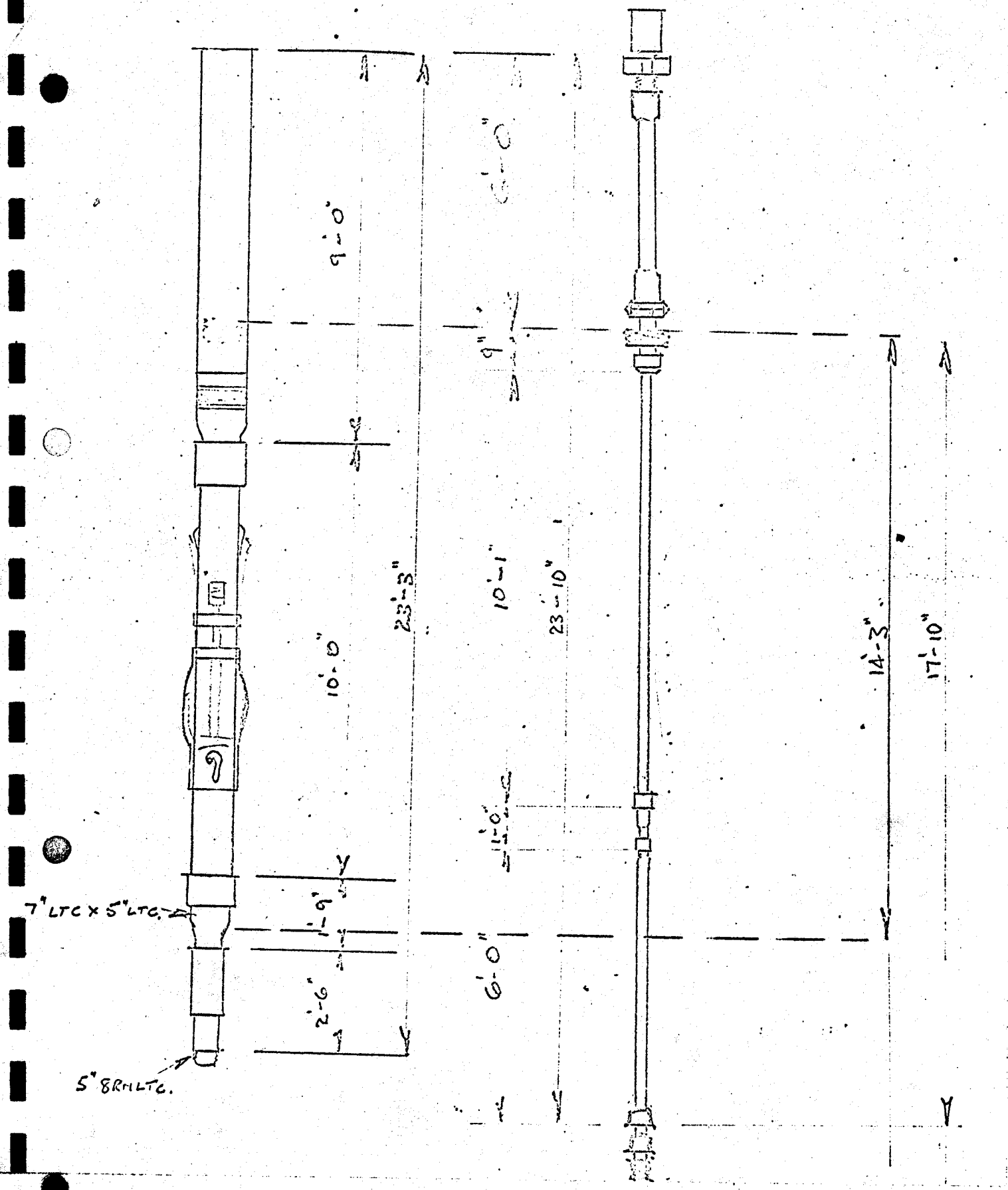
6. Pull out of liner, close Hydril and reverse out cement, and COOH.

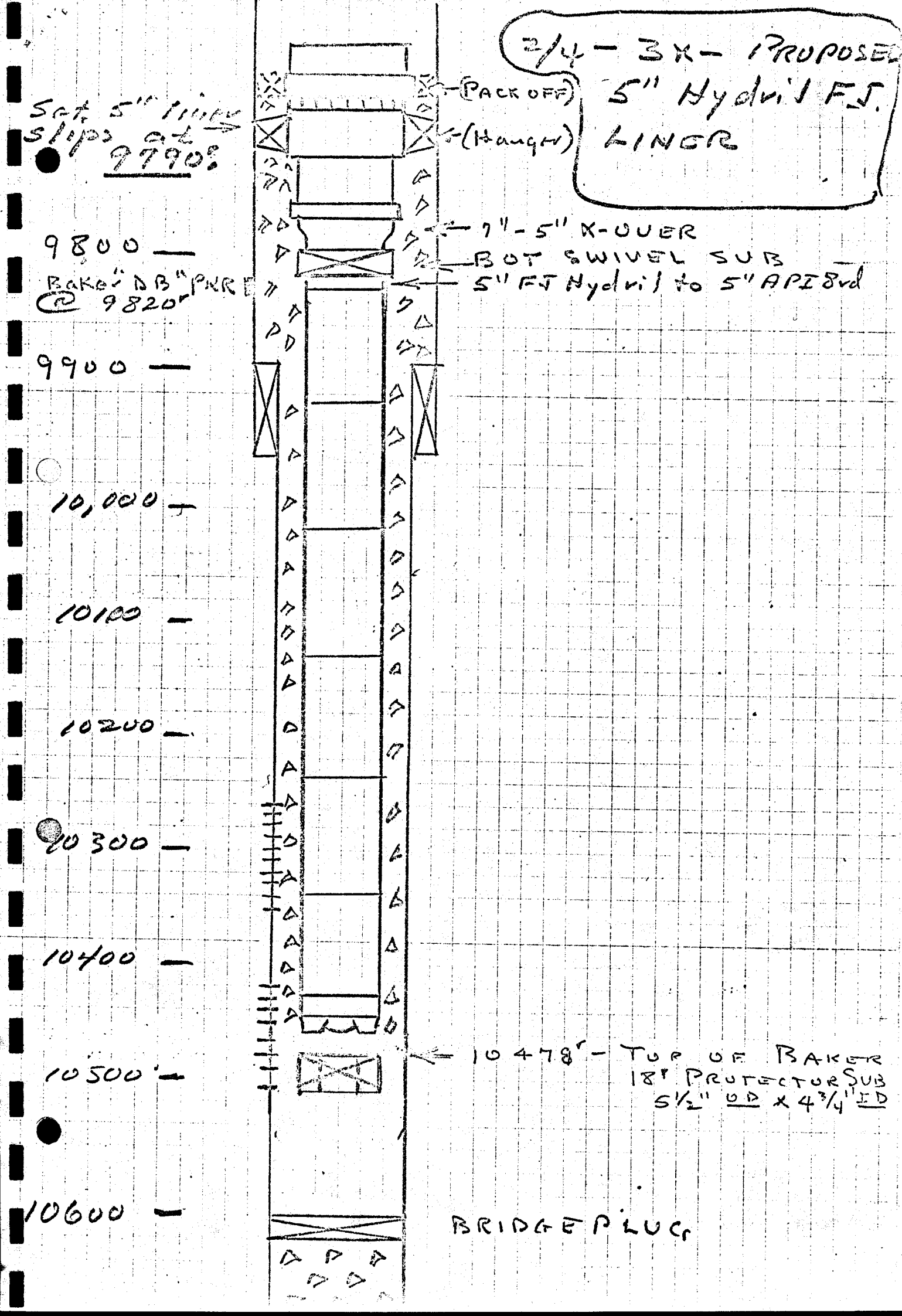
7. GIH w/8½" bit and scraper and clean out to top of liner (rotate and clean casing from 9600' to top of liner) COOH.

8. GIH w/6" bit and clean out 7" liner hanger to 7" x 5" X-over sub, and COOH, GIH w/4 1/8 open ended bit and reverse out for final hole clean up. COOH

+ Do not allow circulation pressure to exceed 2000 psi at slow pumping rates (less than 2 BPM) or to exceed 8 BPM or 2500 psi.

RE: 7/4 - 3X - 5" LINER ASSEMBLY
LINER HANGER UNIT




2/4 - 3X - PROPOSED 5" Hydril FJ. LINER
Set 5" liner slips at 9790'
(PACK OFF)
(Hanger)
7" - 5" X-OVER
BOT SWIVEL SUB
5" FJ Hydril to 5" API 8rd
Baker "DB" PKR @ 9820'
9800
9900
10,000
10100
10200
10300
10400
10500
10600
10478' - TOP OF BAKER 18' PROTECTOR SUB 5 1/2" OD x 4 3/4" ID
BRIDGE PLUG

INTER-OFFICE CORRESPONDENCE
STAVANGER OFFICE

January 25, 1972

WELL 2/4-3X

WORK OVER PROCEDURE

Well Status

On January 8th the down hole safety valve on the 3X well was closed for an operational test. On January 21st. when production was again started, the well would not flow. Function testing of the X-mas tree valves indicates either that the down hole safety valve will not open, or that the tubing is pl ged.

Procedure

1. A "spar buoy" was installed approximately 50' south west of the well by the Choctaw last September. Positioning the barge over the wellhead should be done using the buoy and the Decca Surveyors with a hydrodist and theodolite.

2. Position barge over location. Run out anchors and pump down following standard procedures. Care must be taken in running out anchor so that they are kept clear of the flow lines. A drawing of the line location is attached.

3. Prior to making first dive, fill Otis high pressure hose with Bray Oil and pressure test hose to 10,000 psi.

4. Check with Gulftide to confirm that all of the X-mas tree valves are closed, and that the high pressure control system is bled to "0" psi.

5. Make inspection dive. If all appears ok, have diver:

   a. Close the needle valve on the Down Hole Safety valve (DS) X-mas tree out let.

   b. Disconnect the normal control hose from the DS needle valve.

   c. Connect the Otis high pressure hose to the needle valve. (Ocean Viking end of hose should be connected to the Otis pump)

   d. Open the DS needle valve. (Monitor the pressure at the Otis pump.)

6. If there is sufficient time on this dive, have diver observe end of normal, DS, control hose while Gulftide pumps through hose to check for plugging.

7. Have Gulftide open the production wing valve and the hydraulic master valve, and pressure the production flow line to 4500 psi. Attempt to open the safety valve with following procedure:

a. Pressure control hose to 6000 psi, bleed to "0"

b. Pressure control hose to 7000 psi, bleed to "0"

c. Pressure control hose to 8000 psi, bleed to "0"

d. Pressure control hose to 9000 psi, bleed to "0"

e. Pressure control hose to 10,000 psi, bleed to "0"

f. Repeat step "e" 3 times do not bleed of control pressure after final try.

g. Holding 10,000 psi control pressure, have Gulftide bleed pressure on production line to "0" as quickly as possible.

h. Repressure the production line and repeat step "g" 3 times.

8. If opening procedure is not successful: bleed safety valve control pressure to "0", have Gulftide bleed production line pressure to "0", close all tree valves, and bleed accumulator to "0".

9. Have divers perform following work:

a. Close needle valve on DS outlet.

b. Disconnect Otis hose from needle valve.

c. Connect normal operating hose.

d. Open needle valve.

e. Install guide lines and T.V. guide lines.

f. Disconnect Payne control hose from Gulftide.

g. Connect Payne control hose from "Ocean Viking". ("Ocean Viking" hose should have Bray Oil in the P-2 DHV control hose).

h. Connect separate control hose to swab valve operator and open needle valve.

10. Pressure test the DS control hose, have diver observe the X-mas tree DS outlet while pressure testing.

11. Function test the tree as follows:

a. With all tree valves in closed position, have Gulftide pump through the open by-pass valve.

b. Open the hydraulic master valve, closing the by-pass valve. Have Gulftide pressure service line (4000 psi) to confirm the by-pass valve is closed. Bleed pressure to "0".

c. Open the production wing and service wing valves, have the Gulftide pump through the open wing valves.

12. Have Gulftide bleed flow lines to "0" psi with wing valves open. Open the swab valve to release pressure trapped above it.

13. Close all tree valves, and bleed the low pressure accumulator to "0" psi.

14. Have divers open the needle valve on the side of the corrosion cap, and back out the corrosion cap hold down screws (16 - 3" hex. nuts around out side of corrosion cap).

15. Retrieve the corrosion cap using corrosion cap running and retrieving tool National part No. (530057-A)

16. Run the "National Auto Lock" type X-mas tree reentry tool on the 5" riser and latch to tree. Test each connection in the riser with 6000 psi using the Gator Hawk unit.

17. Rig up the Otis test tree and Baker wire line lubricator. Pressure test riser, test tree and lubricator with 6000 psi.

18. Open the swab and hydraulic master valves. Run sinker bars on wire line to top of safety valve at 551' RKB.

19. If the tubing is plugged above the safety valve. Rig up wire line bailer and bail out plug. If it is not possible to bail out the plug some alternate method will be tried.

20. After reaching the top of the safety valve with wire line tools, GIH with pulling tool and retrieve the down hole safety valve. Pressure riser to 4000 psi before attempting to pull valve.

21. After retrieving the safety valve, flow the well for 15 min. to insure that the tubing is clear.

22. Pump 5 gals of Bray Oil through safety valve control line at maximum pump rate.

23. Run new or rebuilt safety valve and set in landing nipple. Flow well at maximum rate for 30 min. through clean up line.

24. Shut in well. Pump 10 bbls methanol into riser and displace to tree with diesel.

25. Close safety valve and bleed riser to atmosphere. Observe well for 1 hr. to check safety valve.

26. Close hydraulic master and swab valves. Bleed control pressure to "0" psi.

27. Release the X-mas tree reentry tool and pull the riser.

28. Install the high pressure corrosion cap. Have divers make up the 16 hold down screws around out side of cap and close needle on the side of the cap.

29. Disconnect the "Ocean Viking" control hose and reconnect the Gulftide control hose. Close needle valve on the swab valve operator and disconnect hose from needle valve. Disconnect and retrieve the guide lines.

30. Observe well with U.T.V. and divers for 24 hrs. while Gulftide test flows well.

31. Release rig.

MAR 20, 1971

RE: Well 2/4-3X — DESCRIPTION OF 4 1/2" - 12.60# N80 SEAL LOCK TUBING STRING [redacted] INCLUDING 3 1/2" TAIL PIPE AND OTHER DOWN HOLE EQUIPMENT

NOTE: (1) COMMENCED RUNNING TUBING 8:30 PM MAR 19
(2) BOTTOM OF TUBING HANGER W/ REFERENCE TO GUIDE LINE MARK: 301.

TUBING TALLY (BOTTOM TO TOP)

		LENGTH	RKB DEPTH
1 JT. -	3 1/2 EUE 8rd 10.2# N80 TBG (MULE SHOED)	30.52	
18 Jts. -	D.H.O.	561.34	9908.19
—	BAKER 3 1/2" EUE MODEL "R" 2.75 Bore w/ 2.738" No-Go	.88	9907.31
—	BAKER 3 1/2" EUE FLOW CPLG. (4 1/2" O.D.) 3.00 Bore	3.92	9903.39
2 Jts. -	3 1/2" EUE 8rd 10.2# N80 TBG.	62.17	9841.22
—	BAKER SEAL ASSEMBLY FOR "DB" PKR. (INCLUDING X-OVER TO 3 1/2" TBG)	22.23	9818.99
—	BAKER LOCATOR SUB	1.10	9817.89
3 Jts.	4 1/2" 12.6# N80 SEAL LOCK TBG (NON-UPSET)	97.10	9720.79
—	BAKER-LYNE PRESSURE SENTRY (10 CHANNEL - 12000 PSI RATED UNIT)	1.98	9718.81
—	4 1/2" 12.6# N80 SEAL LOCK PUP JT.	11.84	9706.97
1 Jt.	4 1/2" 12.6# N80 SEAL LOCK TBG.	30.70	9676.27
—	BAKER 4 1/2" MODEL "R" NIPPLE 3.688 Bore w/ 3.676" No-Go	0.95	9676.27
—	BAKER FLOW CPLG.	9.97	9666.30
1 Jt	4 1/2 12.6# N80 SEAL LOCK TBG	29.30	9637.00
—	BAKER SLIDING SLEEVE VALVE (CLOSED - VALVE DOWN) 3.688" MIN. BORE	3.65	9633.35
279 Jts	4 1/2" 12.6# N80 SEAL LOCK TBG ?	9076.47	556.61
—	BAKER SLOTTED TUBING GUIDE	0.83	555.78
—	BAKER MODEL "A" SAFETY VALVE (3.750" BORE)	5.00	550.78
—	BAKER SLOTTED TUBING GUIDE	0.83	549.95
6	Jts 4 1/2" 12.6# N80 SEAL LOCK TBG (Drifted to ?	189.28	360.67
1	—-4 1/2" 12.6# N80 PUP Jts. (Drifted to	12.12	348.55
—	BAKER "F" NIPPLE (3.812" BORE)	1.07	347.48
	4 1/2" 12.6# N80 [illegible]		

4½ TUBING STRING TALLY (Bottom to Top - Continued from May 20, 1971 - 2/4-3X WELL

		LENGTH	RKB Dep
1 Jt	4½ 12.6# N80 Seal Lock Tubing	31.32	302.4
1	1-4½" 12.6# N80 Seal Lock Pup Joint	3.33	302.6
—	NAT'L. 4½" TUBING HANGER	1.55	301.0
	TOTAL TUBING & TOOLS	~~10,199.04~~ ~~10,189.67~~ ~~10,188.79~~	

0' RKB TO TOP OF TBG. HANGER 300.40'

+ 10

RKB DEPTH OF TUBING STR: ~~10,490.08~~ ~~10,490.08~~ 10,500.05

PHILLIPS PETROLEUM COMPANY-NORWAY
UTENLANDSK AKSJESELSKAP
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Stavanger, May 18, 1971

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The Ministry of Industry
Akersgaten 42
OSLO 1

ATTENTION: Petroleum Section

PHILLIPS PETROLEUM COMPANY-NORWAY - WEEKLY DRILLING REPORT

From May 10 To May 16 Well No. 2/4-3X

	M	T	W	Th	F	S	S
Total Depth Beginning:		-	-	-	-	-	961
Total Depth End:		-	-	-	-	-	1468
Hole Size:							

Geological Formations Drilled:
1.
2. Drld. cement from 961' to 1468' RKB
3.
4.

Drilling Fluid Characteristics:
Mud Density (lbs/gal) 14.4 Viscosity (API) 48 sec
Water Loss 9 Chloride 20,000 ppm pH 11,9
Plastic Viscosity 29 Yield Point 13 Oil trace

Casing Details:

Diameter (Inches)	Weight (lbs/ft.)	Grade (API)	Length (Feet)	Condition	Depth (Feet)

Cementing Details:

Shows: (Oil, Gas, Water, etc.):

Logging Details:

Deviation Surveys, Formation Tests, Pressure Tests, Temperature Measurements, etc: Tested B.O.P. to 5000 psi, ok
Tested 9 5/8" casing to 4300 psi, ok

Details of Fishing Jobs, Shooting, Perforating, Fracturing, Acidizing, Completion or Abandonment: Moved O.V. from 2/4-2X to 2/4-3X on May 11, 1971

Details of Steps taken to protect Underwater Telecables, if requested:

Details of Accidents, Damages, Injuries and other as Ministry deems necessary: None

Details of Fire Drills held: May 16 One safety drill - results good.

P.W. Reynolds
for PHILLIPS PETROLEUM COMPANY-NORWAY

PHILLIPS PETROLEUM COMPANY-NORWAY
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Stavanger, May 24, 1971

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Akersgaten 42
OSLO 1

ATTENTION: Petroleum Section

PHILLIPS PETROLEUM COMPANY-NORWAY - WEEKLY DRILLING REPORT

From May 17 To May 23 Well No. 2/4-3X

	M	T	W	Th	F	S	S
Total Depth Beginning:	1468	9898	9952	10530	-	-	-
Total Depth End:	9898	9952	10530	-	-	-	10530
Hole Size:	8½"	8½"	6"	-	-	-	6"

Geological Formations Drilled:
1.
2.
3.
4.

Drilling Fluid Characteristics:
Mud Density (lbs/gal) 14.4 Viscosity (API) 51 sec
Water Loss 7.6 Chloride 20,000 ppm pH 11.5
Plastic Viscosity 36 Yield Point 15 Oil 1%

Casing Details:

Diameter (Inches)	Weight (lbs/ft.)	Grade (API)	Length (Feet)	Condition	Depth (Feet)

Cementing Details:

Shows: (Oil, Gas, Water, etc.):

Logging Details:

Deviation Surveys, Formation Tests, Pressure Tests, Temperature Measurements, etc:

Tested 9 5/8" casing to 4300 psi, ok
Tested 4½" tubing to 6000 psi, ok

Details of Fishing Jobs, Shooting, Perforating, Fracturing, Acidizing, Completion or Abandonment:

Perforated 10420' - 10510' & 10260' - 10350'
with 4" Hyperjets, 2 shots per foot.
Set model "DB" packer at 9822' and ran 4½" tubing.

Details of Steps taken to protect Underwater Telecables, if requested:

Details of Accidents, Damages, Injuries and other as Ministry deems necessary

NONE

Details of Fire Drills held:

NONE

P.W. Reynolds (by BZ)
P.W. Reynolds
for PHILLIPS PETROLEUM COMPANY-NORWAY

PHILLIPS PETROLEUM COMPANY-NORWAY
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Stavanger, June 2, 1971

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Akersgaten 42
OSLO 1

ATTENTION: Petroleum Section

PHILLIPS PETROLEUM COMPANY-NORWAY - WEEKLY DRILLING REPORT

From May 24 To May 30 Well No. 2/4-3x

	M	T	W	Th	F	S	S
Total Depth Beginning:	10530	-	-	-	-	-	-
Total Depth End:	-	-	-	-	-	-	10530
Hole Size:							

Geological Formations Drilled:
1.
2.
3.
4.

Drilling Fluid Characteristics:
Mud Density (lbs/gal) 14.3 Viscosity (API) 47 sec
Water Loss 8.9 Chloride 20,000 ppm pH 11.3
Plastic Viscosity 28 Yield Point 14 Oil Trace

Casing Details:

Diameter (Inches)	Weight (lbs/ft.)	Grade (API)	Length (Feet)	Condition	Depth (Feet)

PHILLIPS PETROLEUM COMPANY - NORWAY
STAVANGER

Cementing Details:

Shows: (Oil, Gas, Water, etc.):

Logging Details:

Deviation Surveys, Formation Tests, Pressure Tests, Temperature Measurements, etc:

Details of Fishing Jobs, Shooting, Perforating, Fracturing, Acidizing, Completion or Abandonment:

Fished for "FWG" plug, retrieved same.
Pulled 16" Riser and B.O.P. and ran X-mas tree.

Details of Steps taken to protect Underwater Telecables, if requested:

Details of Accidents, Damages, Injuries and other as Ministry deems necessary

May 27 - One half of 20" casing bushing fell through Rotary table hitting Mr. Odd Magne Røyrvik and knocking him overboard. Lost man in sea.

Details of Fire Drills held:

May 27 - One Safety drill, results good
May 30 - One fire drill, results good.

P.W. Reynolds (BZ)

P.W. Reynolds
for PHILLIPS PETROLEUM COMPANY-NORWAY

PHILLIPS PETROLEUM COMPANY-NORWAY
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Stavanger, June 8 1971

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OSLO 1

ATTENTION: Petroleum Section

PHILLIPS PETROLEUM COMPANY-NORWAY - WEEKLY DRILLING REPORT

From 31/5 To 6/6 Well No. 2/4-3X

	M	T	W	Th	F	S	S
Total Depth Beginning:							
Total Depth End:							
Hole Size:							

Geological Formations Drilled:
1.
2.
3.
4.

Drilling Fluid Characteristics:
Mud Density (lbs/gal) 14.4 Viscosity (API) 50 sec
Water Loss 10.5 Chloride 20,000 ppm pH 11.4
Plastic Viscosity 30 Yield Point 14 Oil Trace

Casing Details:

Diameter (Inches)	Weight (lbs/ft.)	Grade (API)	Length (Feet)	Condition	Depth (Feet)

Cementing Details:

Shows: (Oil, Gas, Water, etc.):

Logging Details:

Deviation Surveys, Formation Tests, Pressure Tests, Temperature Measurements, etc: Tested X-mass tree to 7000 psi on test stump, OK. Tested tubing to 6000 psi, OK

Details of Fishing Jobs, Shooting, Perforating, Fracturing, Acidizing, Completion or Abandonment: Fishing for "FWG" plug at 347' from "F" Nipple

Details of Steps taken to protect Underwater Telecables, if requested:

Details of Accidents, Damages, Injuries and other as Ministry deems necessary: NONE

Details of Fire Drills held: 3/6 One safety drill
6/6 One safety drill

Fred A Kvamme

for P.W. Reynolds
for PHILLIPS PETROLEUM COMPANY-NORWAY

PHILLIPS PETROLEUM COMPANY-NORWAY
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Stavanger, June 15, 1971

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OSLO 1

ATTENTION: Petroleum Section

PHILLIPS PETROLEUM COMPANY-NORWAY - WEEKLY DRILLING REPORT

From June 7 To June 13 Well No. 2/4-3X

	M	T	W	Th	F	S	S
Total Depth Beginning:							
Total Depth End:							
Hole Size:							

Geological Formations Drilled:
1.
2.
3.
4.

Drilling Fluid Characteristics:
Mud Density (lbs/gal) 14.4 Viscosity (API) 52 sec
Water Loss 10.2 Chloride 20,000 ppm pH 10.5
Plastic Viscosity 29 Yield Point 14 Oil Tr.

Casing Details:

Diameter (Inches)	Weight (lbs/ft.)	Grade (API)	Length (Feet)	Condition	Depth (Feet)

Cementing Details:

Shows: (Oil, Gas, Water, etc.):

Logging Details:

Deviation Surveys, Formation Tests, Pressure Tests, Temperature Measurements, etc: Tested B.O.P. to 5000 psi, OK. Tested tubing to 6000 psi, OK

Details of Fishing Jobs, Shooting, Perforating, Fracturing, Acidizing, Completion or Abandonment: Pulled tubing & recovered "FWG" plug

Details of Steps taken to protect Underwater Telecables, if requested:

Details of Accidents, Damages, Injuries and other as Ministry deems necessary: NONE

Details of Fire Drills held: June 13 - One Safety Drill, results good

P.W. Reynolds
for PHILLIPS PETROLEUM COMPANY-NORWAY

PHILLIPS PETROLEUM COMPANY-NORWAY
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Stavanger, June 22 1971

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OSLO 1

ATTENTION: Petroleum Section

PHILLIPS PETROLEUM COMPANY-NORWAY - WEEKLY DRILLING REPORT

From 14 June 71 To 20 June 1971 Well No. 2/4-3X

	M	T	W	Th	F	S	S
Total Depth Beginning:							
Total Depth End:							
Hole Size:							

Geological Formations Drilled:
1.
2.
3.
4.

Drilling Fluid Characteristics:
Mud Density (lbs/gal) 14.3 Viscosity (API) 49 sec
Water Loss 9.8 Chloride 20,000 ppm pH 11,6
Plastic Viscosity 29 Yield Point 13 Oil

Casing Details:

Diameter (Inches)	Weight (lbs/ft.)	Grade (API)	Length (Feet)	Condition	Depth (Feet)

Cementing Details:

Shows: (Oil, Gas, Water, etc.):

Logging Details:

Deviation Surveys, Formation Tests, Pressure Tests, Temperature Measurements, etc: Tested BOP stack to 5000 psi on 14/6/71 - OK. Tested tubing hanger pack off and packer seals to 2500 psi on 15/6/71 - OK. Tested tree to 6000 psi on 16/6/71- OK. Tested tubing to 4100 psi on 18/6/71 - tubing leaking. Tested annulus to 3000 psi - OK.

Details of Fishing Jobs, Shooting, Perforating, Fracturing, Acidizing, Completion or Abandonment: Retrieved tubing hanger and repaired. Reran tubing hanger. Pulled BOP and installed subsea tree. Open well and flowed 2 hrs,well died. Found tubing had developed leak and plugged at 2760 Ft. Now bailing plug from tubing with wire line tools.

Details of Steps taken to protect Underwater Telecables, if requested:

Details of Accidents, Damages, Injuries and other as Ministry deems necessary: NONE

Details of Fire Drills held: 19th - One safety drill
20th - One safety drill

P.W. Reynolds

P.W. Reynolds
for PHILLIPS PETROLEUM COMPANY-NORWAY

PHILLIPS PETROLEUM COMPANY-NORWAY
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Stavanger, June 29, 1971.

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OSLO 1

ATTENTION: Petroleum Section

PHILLIPS PETROLEUM COMPANY-NORWAY - WEEKLY DRILLING REPORT

From June 21 To June 25 Well No. 2/4-3x

	M	T	W	Th	F	S	S
Total Depth Beginning:							
Total Depth End:							
Hole Size:							

Geological Formations Drilled:
1.
2.
3.
4.

Drilling Fluid Characteristics:
Mud Density (lbs/gal) 14.3 Viscosity (API) 49 sec
Water Loss 9.8 Chloride 20.000 ppm pH 11.6
Plastic Viscosity 29 Yield Point 13 Oil -

Casing Details:

Diameter (Inches)	Weight (lbs/ft.)	Grade (API)	Length (Feet)	Condition	Depth (Feet)

Cementing Details:

Shows: (Oil, Gas, Water, etc.):

Logging Details:

Deviation Surveys, Formation Tests, Pressure Tests, Temperature Measurements, etc:

Set "ANP" plug in "A" nipple at 550' and tested plug to 5000 psi. O.K..
Set "FWG" plug in "F" nipple at 347'

Details of Fishing Jobs, Shooting, Perforating, Fracturing, Acidizing, Completion or Abandonment:

Bailed mud, sand and limestone from 3807' to 4084
Pulled anchors and under towed to 2/4-2x location 1000 hrs. June 24, 1971.

Details of Steps taken to protect Underwater Telecables, if requested:

Details of Accidents, Damages, Injuries and other as Ministry deems necessary

None

Details of Fire Drills held:

None

P.W. Reynolds
for PHILLIPS PETROLEUM COMPANY-NORWAY

PHILLIPS PETROLEUM COMPANY-NORWAY
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BAZ/ÅSH

Stavanger, July 13 1971

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Akersgaten 42
OSLO 1

ATTENTION: Petroleum Section

PHILLIPS PETROLEUM COMPANY-NORWAY - WEEKLY DRILLING REPORT

From July 5 To July 11 Well No. 2/4-3X

	M	T	W	Th	F	S	S
Total Depth Beginning:							
Total Depth End:							
Hole Size:							

Geological Formations Drilled:
1.
2.
3.
4.

Drilling Fluid Characteristics:
Mud Density (lbs/gal) 14.3 Viscosity (API) 50 sec
Water Loss 10 Chloride 20,000 ppm pH 10
Plastic Viscosity 30 Yield Point 15 Oil Trace

Casing Details:

Diameter (Inches)	Weight (lbs/ft.)	Grade (API)	Length (Feet)	Condition	Depth (Feet)

Cementing Details:

Shows: (Oil, Gas, Water, etc.):

Logging Details:

Deviation Surveys, Formation Tests, Pressure Tests, Temperature Measurements, etc:

Tested 13 5/8" B.O.P. to 5000 psi, OK.
Pulled "FWG" plug from "F" Nipple at 347'

Details of Fishing Jobs, Shooting, Perforating, Fracturing, Acidizing, Completion or Abandonment:

Details of Steps taken to protect Underwater Telecables, if requested:

Details of Accidents, Damages, Injuries and other as Ministry deems necessary

July 8 - Magne Arnestad smashed his finger
July 10 - Douglas Downey broke his toe.

Details of Fire Drills held:

July 7 - One safety drill - results good.

P. W. Reynolds
for PHILLIPS PETROLEUM COMPANY-NORWAY

PHILLIPS PETROLEUM COMPANY-NORWAY
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· BAZ/ÅSH

Stavanger, July 20, 1971

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Akersgaten 42
OSLO 1

ATTENTION: Petroleum Section

PHILLIPS PETROLEUM COMPANY-NORWAY - WEEKLY DRILLING REPORT

From July 12 To July 18 Well No. 2/4-3X

	M	T	W	Th	F	S	S
Total Depth Beginning:							
Total Depth End:							
Hole Size:							

Geological Formations Drilled:
1.
2.
3.
4.

Drilling Fluid Characteristics:
Mud Density (lbs/gal) 20 Viscosity (API) 78 sec
Water Loss 12 Chloride 17,000 ppm pH 10
Plastic Viscosity 80 Yield Point 28 Oil Trace

Casing Details:

Diameter (Inches)	Weight (lbs/ft.)	Grade (API)	Length (Feet)	Condition	Depth (Feet)

PHILLIPS PETROLEUM COMPANY - NORWAY
STAVANGER

Cementing Details:

Shows: (Oil, Gas, Water, etc.):

Logging Details:

Deviation Surveys, Formation Tests, Pressure Tests, Temperature Measurements, etc: Ran B.O.P. & tested Laurent seal to 2000 psi, OK
Pulled FWG & ANP plug

Details of Fishing Jobs, Shooting, Perforating, Fracturing, Acidizing, Completion or Abandonment: Ran in hole with 2 3/8" drill pipe washed & reverse circulated to 4450'

Details of Steps taken to protect Underwater Telecables, if requested:

Details of Accidents, Damages, Injuries and other as Ministry deems necessary: None

Details of Fire Drills held: July 15 & 16 - had one safety drill , results good
July 18 - One safety drill & one pit drill
Reaction good

P.W. Reynolds
for PHILLIPS PETROLEUM COMPANY-NORWAY

PHILLIPS PETROLEUM COMPANY-NORWAY
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BAZ /ks

Stavanger, July 27, 1971

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The Ministry of Industry
Akersgaten 42
OSLO 1

ATTENTION: Petroleum Section

PHILLIPS PETROLEUM COMPANY-NORWAY - WEEKLY DRILLING REPORT

From July 19 To July 25 Well No. 2/4-3x

	M	T	W	Th	F	S	S
Total Depth Beginning:							
Total Depth End:							
Hole Size:							

Geological Formations Drilled:
1.
2.
3.
4.

Drilling Fluid Characteristics:
Mud Density (lbs/gal) 15.6 Viscosity (API) 53 sec
Water Loss 10.5 Chloride 12.000 ppm pH 10
Plastic Viscosity 32 Yield Point 24 Oil 2%

Casing Details:

Diameter (Inches)	Weight (lbs/ft.)	Grade (API)	Length (Feet)	Condition	Depth (Feet)

Cementing Details:

Shows: (Oil, Gas, Water, etc.):

Logging Details:

Deviation Surveys, Formation Tests, Pressure Tests, Temperature Measurements, etc: Washed & reverse circulated inside 4 ½" tubing from 5210' to 9810'

Details of Fishing Jobs, Shooting, Perforating, Fracturing, Acidizing, Completion or Abandonment:

Details of Steps taken to protect Underwater Telecables, if requested:

Details of Accidents, Damages, Injuries and other as Ministry deems necessary: 19th - One safety drill - results good
2 pit drills - reaction time - 10 sec and 14 sec.
25th - 1 fire drill - results good
2 safety meeting

Details of Fire Drills held:

for P.W. Reynolds
for PHILLIPS PETROLEUM COMPANY-NORWAY

PHILLIPS PETROLEUM COMPANY-NORWAY
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Stavanger, August 3, 1971

CONFIDENTIAL

The Ministry of Industry
Akersgaten 42
OSLO 1

ATTENTION: Petroleum Section

PHILLIPS PETROLEUM COMPANY-NORWAY - WEEKLY DRILLING REPORT

From July 26, 1971 To August 1, 1971 Well No. 2/4-3x

	M	T	W	Th	F	S	S
Total Depth Beginning:							
Total Depth End:							
Hole Size:							

Geological Formations Drilled:
1.
2.
3.
4.

Drilling Fluid Characteristics:
Mud Density (lbs/gal) 16.3 Viscosity (API) 50 sec
Water Loss 12,8 Chloride 18,000 ppm pH 10,8
Plastic Viscosity 34 Yield Point 17 Oil 2

Casing Details:

Diameter (Inches)	Weight (lbs/ft.)	Grade (API)	Length (Feet)	Condition	Depth (Feet)

Cementing Details:

Shows: (Oil, Gas, Water, etc.):

Logging Details:

Deviation Surveys, Formation Tests, Pressure Tests, Temperature Measurements, etc:

Pulled 4½" tubing, tubing was parted at 8585 ft. RKB
Fished for and retrieved tubing left in hole.

Details of Fishing Jobs, Shooting, Perforating, Fracturing, Acidizing, Completion or Abandonment:

Details of Steps taken to protect Underwater Telecables, if requested:

Details of Accidents, Damages, Injuries and other as Ministry deems necessary

28th July, 1971: Weatherford man, Mr. Samsonsen, hit in head by a pipe. Brought to hospital. Now O.K.

Details of Fire Drills held:

27th July: One Pit Drill, reaction time: 15 sec.
28th July: 1 safety drill, 2 pit drills - reaction time (15 sec., 22 sec.)

Fred A Kiesow
for P.W. Reynolds
for PHILLIPS PETROLEUM COMPANY-NORWAY

PHILLIPS PETROLEUM COMPANY-NORWAY
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BAZ/GJ

Stavanger, August 10, 1971

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The Ministry of Industry
Akersgaten 42
OSLO 1

ATTENTION: Petroleum Section

PHILLIPS PETROLEUM COMPANY-NORWAY - WEEKLY DRILLING REPORT

From August 2 To August 8 Well No. 2/4-3X

	M	T	W	Th	F	S	S
Total Depth Beginning:							
Total Depth End:							
Hole Size:							

Geological Formations Drilled:
1.
2.
3.
4.

Drilling Fluid Characteristics:
Mud Density (lbs/gal) 14.4 Viscosity (API) 55 sec
Water Loss 10.5 Chloride 18000 ppm pH 10.7
Plastic Viscosity 25 Yield Point 19 Oil 1%

Casing Details:

Diameter (Inches)	Weight (lbs/ft.)	Grade (API)	Length (Feet)	Condition	Depth (Feet)

Cementing Details:

Shows: (Oil, Gas, Water, etc.):

Logging Details:

Deviation Surveys, Formation Tests, Pressure Tests, Temperature Measurements, etc:

Details of Fishing Jobs, Shooting, Perforating, Fracturing, Acidizing, Completion or Abandonment: Fished for packer. Recovered junk, milled packer and recovered packer junk.

Details of Steps taken to protect Underwater Telecables, if requested:

Details of Accidents, Damages, Injuries and other as Ministry deems necessary: None

Details of Fire Drills held: August 2 - 1 safety drill - results good

P. W. Reynolds

P.W. Reynolds
for PHILLIPS PETROLEUM COMPANY-NORWAY

PHILLIPS PETROLEUM COMPANY-NORWAY
UTENLANDSK AKSJESELSKAP
P.O.BOX 72 - STAVANGER, NORWAY - PHONE 41 340, 41 391 - CABLE: PHILLSTAV - TELEX: 33081

Stavanger, August 17, 1971

CONFIDENTIAL

The Ministry of Industry
Akersgaten 42
OSLO 1

ATTENTION: Petroleum Section

PHILLIPS PETROLEUM COMPANY-NORWAY - WEEKLY DRILLING REPORT

From August 9 To August 15 Well No. 2/4-3X

	M	T	W	Th	F	S	S
Total Depth Beginning:	10530					10530	10470
Total Depth End:						10470	10470
Hole Size:							

Geological Formations Drilled:
1.
2.
3.
4.

Drilling Fluid Characteristics:
Mud Density (lbs/gal) 14.3 Viscosity (API) 47 sec
Water Loss 10.2 Chloride 19,000 ppm pH 10.5
Plastic Viscosity 23 Yield Point 14 Oil 1%

Casing Details:

Diameter (Inches)	Weight (lbs/ft.)	Grade (API)	Length (Feet)	Condition	Depth (Feet)
5"	18	N-80	725	1	10470

Cementing Details: Cemented 5" liner with 180 sxs. class "E" cement mixed to 16.2 ppg slurry. Reversed out 17 bbls cement.

Shows: (Oil, Gas, Water, etc.):

Logging Details:

Deviation Surveys, Formation Tests, Pressure Tests, Temperature Measurements, etc: Tested BOP to 5000 psi, OK

Details of Fishing Jobs, Shooting, Perforating, Fracturing, Acidizing, Completion or Abandonment: Fished packer out of hole & left 18' packer protector sleeve. Set bridge plug at 9982' and tested 9 5/8" csg. & liner to 4100 psi, OK. Drld. out plug & ran liner

Details of Steps taken to protect Underwater Telecables, if requested:

Details of Accidents, Damages, Injuries and other as Ministry deems necessary: NONE

Details of Fire Drills held: Aug. 10, 14, & 15 - Safety Drills - results good

R.W. Reynolds

for PHILLIPS PETROLEUM COMPANY-NORWAY

PHILLIPS PETROLEUM COMPANY-NORWAY
UTENLANDSK AKSJESELSKAP
P.O.BOX 72 - STAVANGER, NORWAY - PHONE 41 340, 41 391 - CABLE: PHILLSTAV - TELEX: 33081

Stavanger, August 24, 1971

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The Ministry of Industry
Akersgaten 42
OSLO 1

ATTENTION: Petroleum Section

PHILLIPS PETROLEUM COMPANY-NORWAY - WEEKLY DRILLING REPORT

From August 16 To August 22 Well No. 2/4-3X

	M	T	W	Th	F	S	S
Total Depth Beginning:							
Total Depth End:							
Hole Size:							

Geological Formations Drilled:
1.
2.
3.
4.

Drilling Fluid Characteristics:
Mud Density (lbs/gal) 14.3 Viscosity (API) 52 sec
Water Loss 7.4 Chloride 18,000 ppm pH 11
Plastic Viscosity 32 Yield Point 18 Oil 1%

Casing Details:

Diameter (Inches)	Weight (lbs/ft.)	Grade (API)	Length (Feet)	Condition	Depth (Feet)

Cementing Details:

Shows: (Oil, Gas, Water, etc.): Cleaning up well before flowing thru separator for flow period before acidizing.

Logging Details:

Deviation Surveys, Formation Tests, Pressure Tests, Temperature Measurements, etc: Tested x-mass tree to 7000, OK
Displaced tubing with x-c polymer & water

Details of Fishing Jobs, Shooting, Perforating, Fracturing, Acidizing, Completion or Abandonment: Perf. 5" liner from 10465' to 1042' & from 10350' to 10267' with 2 shots per foot.
Ran 4½" tubing with 2 7/8" taile pipe.

Details of Steps taken to protect Underwater Telecables, if requested:

Details of Accidents, Damages, Injuries and other as Ministry deems necessary: 17th Einar Johansen, Assistant Train Operator, bruised is foot by drill pipe
No broken bones.

Details of Fire Drills held:

P. W. Reynolds

P. W. Reynolds
for PHILLIPS PETROLEUM COMPANY-NORWAY

PHILLIPS PETROLEUM COMPANY-NORWAY
UTENLANDSK AKSJESELSKAP
P.O.BOX 72 - STAVANGER, NORWAY - PHONE 41 340, 41 391 - CABLE: PHILLSTAV - TELEX: 33081

Stavanger, September 1, 1971

CONFIDENTIAL

The Ministry of Industry
Akersgaten 42
OSLO 1

ATTENTION: Petroleum Section

PHILLIPS PETROLEUM COMPANY-NORWAY - WEEKLY DRILLING REPORT

From 23 August 1971 To 29 August 1971 Well No. 2/4-3X

	M	T	W	Th	F	S	S
Total Depth Beginning:	10470	-	-	-	-	-	-
Total Depth End:	-	-	-	-	-	-	10470
Hole Size:							

Geological Formations Drilled:
1. _____
2. _____
3. _____
4. _____

Drilling Fluid Characteristics:
Mud Density (lbs/gal)____ Viscosity (API)____ sec
Water Loss_____ Chloride_____ ppm pH_____
Plastic Viscosity____ Yield Point____ Oil_____

Casing Details:

Diameter (Inches)	Weight (lbs/ft.)	Grade (API)	Length (Feet)	Condition	Depth (Feet)

PHILLIPS PETROLEUM COMPANY - NORWAY
STAVANGER

Cementing Details:

Shows: (Oil, Gas, Water, etc.):

Logging Details:

Deviation Surveys, Formation Tests, Pressure Tests, Temperature Measurements, etc: Flowed well on 1" choke. 1240 BOPD & 610 psi tubing pressure. Shut well in = 3950 psi. Acidized & flowed well on 26/64" choke, 3074 BOPD, GOR=975 & FTP = 3610 psi. Shut in well = 4015 psi

Details of Fishing Jobs, Shooting, Perforating, Fracturing, Acidizing, Completion or Abandonment: Installed safety valve & moved to well 2/4-lax (Ministry No. 2) on August 29.

Details of Steps taken to protect Underwater Telecables, if requested:

Details of Accidents, Damages, Injuries and other as Ministry deems necessary: N O N E

Details of Fire Drills held: 24th August - One safety drill

P.W. Reynolds
for PHILLIPS PETROLEUM COMPANY-NORWAY

PHILLIPS PETROLEUM COMPANY-NORWAY
UTENLANDSK AKSJESELSKAP
P.O.BOX 72 - STAVANGER, NORWAY - PHONE 41 340, 41 391 - CABLE: PHILLSTAV - TELEX: 33081

Stavanger, 22/2/72

CONFIDENTIAL

The Ministry of Industry
Akersgaten 42
OSLO 1

ATTENTION: Petroleum Section

PHILLIPS PETROLEUM COMPANY-NORWAY - WEEKLY DRILLING REPORT

From Feb. 14 1721 To Feb. 20 1972 Well No. 2/4-3X

	M	T	W	Th	F	S	S
Total Depth Beginning:	10470	10470	10470	10470	10470		
Total Depth End:	-	-	-	-	-		
Hole Size:							

Geological Formations Drilled:
1. _____
2. _____
3. _____
4. _____

Drilling Fluid Characteristics:
Mud Density (lbs/gal)____ Viscosity (API)____ sec
Water Loss_____ Chloride_____ ppm pH_____
Plastic Viscosity____ Yield Point____ Oil_____

Casing Details:

Diameter (Inches)	Weight (lbs/ft.)	Grade (API)	Length (Feet)	Condition	Depth (Feet)

Cementing Details:

Shows: (Oil, Gas, Water, etc.):

Logging Details:

Deviation Surveys, Formation Tests, Pressure Tests, Temperature Measurements, etc:

Details of Fishing Jobs, Shooting, Perforating, Fracturing, Acidizing, Completion or Abandonment: Connected "Ocean Viking" control hose to x-mas tree. "Gulf Tide" pressured prod. line to 4100 psi and "O.V." pressured to 6000 psi on Otis pump P-2 line DHS opened. Flowed well for 7 hours

Details of Steps taken to protect Underwater Telecables, if requested:

Details of Accidents, Damages, Injuries and other as Ministry deems necessary: Jan. 26 - Steinar Tengs, derrickman, struck on right shoulder and left hip by top end of wire. Had some bruises but no breaks.
Jan. 22 - J. Urke twisted his knee - ok.
Feb. 16 - T. Edvardsen cut his fingers while letting tow line out for tug Pacific, cought right hand between wire and cat head.

Details of Fire Drills held: NONE

Fred A Lamp Jr
P.W. Reynolds
for PHILLIPS PETROLEUM COMPANY, NORWAY

Form 882 12-57 A 59362
Printed in U.S.A.

Lease 2/4 North Sea - Norway

PERFORATING AND SQUEEZE RECORD

Well 3X

Date	Size of Casting	Perforating		No. of Feet Perforated	No. of Holes	Size of Holes	Gun Diameter	Gun Type	Perforating Company
		To	From						
20.5.71	7"	10350	10260	90	2/ft.				Schlumberger
20.5.71	7"	10510	10420	90	2/ft.				"
16.8.71	7"	10465	10421	44	2/ft				"
16.8.71	7"	10350	10262	88	2/ft.				"

DAILY REPORT DETAILED

LEASE 2/4 WELL NO. 3X SHEET NO. 1

DATE	TOTAL DEPTH	NATURE OF WORK PERFORMED
May 12		2½ hrs Undertow from 2/4-2X to 2/4-3X 11 hrs Making approach to wellhead. Dropped No. 7 anchor at 1605 hrs & No. 6 anchor at 1630 hrs. 3 hrs Pumped barge to drilling draft & ran anchors N. 1, 2, 3, 4, 5 & 8. Reran No. 5 & 7. While pumping barge to drilling draft, made dive & located wellhead approx. 70' southeast of bell - to the stern & port side of the rig. Flow lines appeared to be cocked & not running as per drawing - will recheck later - one was at 5' above seabed & one was at 2' above seabed. 0700: Prep. to run TV to locate wellhead before making dive. Tugboats: Abeille, G. Letzer, Lei & Wellington at OV.
May 13		All tugboats were released at 10 AM. 5/12/71. 6½ hrs Fin positioning barge over wellhead. Heading 320°. Divers attached 4 guide lines & 2 TV lines. Re-ran nos. 7 & 8 anchors. 5½ hrs Decompressing divers. 1½ hrs Made dive in bell to check flow lines diver became sick. Brought bell to surface and changed out diver. Diver was ok - ears would not "pop" & was slightly seasick. 1 hr. Made dive to inspect flow lines & take measurements. From guide base frame beam to ocean floor - 2 meters & 4 centimeters. From guide base to flow line clamp = 4 meters & 20 centimeters. Removed some rope & wire from guide base - lack some. 7½ hrs Decompressing divers & rigging up 30" pipe line clamp. 1½ hrs Divers installed Brown & Root 30" pipeline clamp. Removed some junk from around guide base - lack some. Became too cold for divers to work. ½ hr. Decompressing divers & rigging up 4-arm guide. 0700: Decompressing divers. NOTE: Flow lines are heading directly into No. 3 guide post at 45° angle. Flow lines are cocked up at 1½' & 4' respectively. Clamp placed on south side of guide base. Guide base slightly damaged by No. 7 drifting anchor chain on the port side when making approach w/barge.

DAILY REPORT DETAILED

LEASE 2/4 WELL NO. 3X SHEET NO. 2

DATE	TOTAL DEPTH	NATURE OF WORK PERFORMED
May 14		6 hrs Fin decompressing divers & rigging up 4-arm guide & Corr. cap retrieving handli tool. 8 hrs Ran 4-arm guide & corr. cap handling tool - stopped on No. 1 spear - divers cut off wire around No. 1 spear. Drifted perm. guide base to TV cross memeber ok - 4-arm guide hung up, but worked lookse with two air tuggers Cooh-4-arm guide damaged. Made two runs with 2-arm guide & corr. retrieving handling tool. Unable to retrieve corr. cap due to shearing lifting pins in retrieving tool at 50,000 & 70,000 lbs. pull. 10 hrs Installed orientating hub in 13 5/8 autolok (upper body). Pulled, split Hydril packing element between two of the steel inserts 90° from the lifting plugs and re-inst. in Hydril. Changing out upper bodies on kill & choke connectors. 0700: Changing out choke & kill connectors - upper bodies. NOTE: Set of lifting pins for corr. cap retr. tool will be sent out on Today's heli-copter flight.
May 15		3 hrs Installing Choke and Kill Line upper bodies in Choke and kill line auto-locks On 13 5/8" BOP stack. 4 hrs Test BOP stack 5000 psi ok Hydrill 2500 psi.ok. Test operation of Blue and yellow pod - ok. 3½ hrs Pulled corrosion cap. after divers pulled 2 shear pins. 4½ hrs While De-compressing divers, installed new Laurent Seal in Auto-lock on BOP stack. and moved BOP stack over slot in cellar deck. 1 hr. Made dive and inspect well head and confirm that short bore protector had been removed. 3 hrs Ran and stab stinger into well head in preparing to run BOP stack. 4 hrs Ran 13 5/8" BOP stack as per Phillips running procedure latched up and tested BOP stack and C&K lines w/2500 psi and pulled running Auto-lock and drillpipe stinger. 1 hr. Preparing to run 16" mud riser. 0700 hrs. Connecting operating hoses to snap lock on 16" mud riser in cellar dec

DAILY REPORT DETAILED

LEASE 2/4 WELL NO. 3X SHEET NO. 3

DATE	TOTAL DEPTH	NATURE OF WORK PERFORMED
May 16 P.T.D. 1468'		11½ hrs Run 16" mud riser found 2 box ends not made to standard. Ground 1/16" from box. of 2 joints mud riser. Nippled up cellar deck. 6½ hrs Picked bottom hole assembly. Run test plug and tested BOPs and choke and kill line to 5000 psi ok. 95/8" casing to 4300 psi ok. Pulled test plug and tested kelly cock and TIW safety valve to 5000 psi ok. Run bore protector. ½ hr. Lay down bore protector running tool ½ hr. Pick up 5" drill pipe and go in hole tag top of cement at 961'. 5 hrs Drilling hard cement to 1468' ------ 0700 Drilling cement at 1498'. On BOP test top kill valve leaked - leak in choke manifold low torque valve will repair same. Will repair outside kill valve when stack is pulled nect time. Mw. 14.4, Vis: 48, Pv: 29 Yp:13
May 17 P.T.D. 9898' O.T.D. 1468'		1½ hr. Drilling cement from 1468' to 1521' ½ hr. Circulate and condition mud. 2 hrs Go in hole to 4100' 1 hr. Circulate and condition mud 8 hrs Pick up 5" drill pipe going in hole, washed down from 4100' to 4780' 4780' top of hard cmt. Drilled hard cement to 5046'. 2 hrs Drill brige plug at 5046' ½ hr. Circulate and cond mud. 6 hrs Going in hole picking up 5" drill pipe to top of liner at 9898' 2 hrs Circulate and condition mud. ½ hr. COOH: 0700 hrs COOH 90 ton bulk baryite OB. and 750 Sacks Class "E" cement. Mw: 14.3, Vis: 48, Pv: 27, yp: 7
May 18 P.T.D. 9952' O.T.D. 9898'		1 hr. Cut and slip drilling line. 2½ hr Finish COOH 1 hr. test 95/8" casing with 4300 psi (½hr) ok. 4½ hrs GIH with 8½" bit and casing scraper Rotate casing scraper through interval 9770' to 9870'

DAILY REPORT DETAILED

LEASE 2/4 WELL NO. 3X SHEET NO. 4

DATE	TOTAL DEPTH	NATURE OF WORK PERFORMED
May 18 continued		1 hr. Circulate at 9898' 4½ hrs COOH 5 hrs Pick up 6" bit and BHA and GIH 2½ hrs Drilling on junk at top of liner 9898' 2 hrs Drilling B/plug at 9952' 0700 Drlg Cement at 9980' 145 tons barite bulk-95 tons sack baryite 750sx Class "E" cement on board. 600 BBL mud on Gulgtide 14.4 ppg 44vis 13.5WL 19000 ppm Mw: 14.4, Vis: 44, Pv: 27, Yp: 6
May 19 P.T.D. 10530		3 hrs Finished drilling cement Hard from 9973' to 10023' Soft stringers from 10023' to bottom 1 hr. Circulate bottoms up 4 hrs COOH and worked Hydrill on drill dollars on COOH 1 hr. Worked BOP stack and run jet tool to wash out stack. 3 hrs Rig repair reostat electric failure. 3½ hrs Run in hole openended 8 hrs Circulate and condition mud 0700 hrs reversing out Mw: 14.4, Vis: 51, Pv: 36, Yp: 15
May 20		
May 20 P.T.D. 10530		2 hrs Reversing out 3½ hrs COOH 3 hrs Rig up Schlumberger and run junk basket in 95/8" casing to top of liner at 9898'. Recovered 4 pieces of junk iron from bridge plug and 2 pieces of rubber 7½ hrs Perforating from 10510' to 10420' From 10350' to 10260' using 4". Hyperjets 2 shots per foot-- 4-45' runs-- Had 1 missrun. 4½ hrs GIH open ended ½ hr. Cut and slip drilling line 2½ hrs reversing out. Recovered 3 pieces of Bridge plug junk. ½ hr. COOH 0700 Laying down Drill pipe Have 145 tons bulk--95 tons in sacks--Have 750 sacks "E" cement. Mw: 14.4, Vis: 65, Pv: 37, Yp: 17

DAILY REPORT DETAILED

LEASE 2/4 WELL NO. 3X SHEET NO. 5

DATE	TOTAL DEPTH	NATURE OF WORK PERFORMED
May 21 P.T.D. 10530' PBD		5 hrs Finish layding down drill pipe up to bore protector. 2 hrs Pull bore protector and run 7" spacer pack off bushing and test to 5000 ok. 1 hr. Finish laying down drill pipe 5 hrs Run wire line junk basket, run Baker production packer and set at 9822' model "DB" Baker packer. 1½ hr. Rig up to run 4½" tubing. 3½ hrs Running tubing and psi sentry 6 hrs Looking for leak in sentry line & tubing, found tubing leak to be in top mod "R" no go nipple and in connection in top of side mount sentry, found electrical leak, spliced electrical cable - ok - tested tubing to 6000 psi ok. 0700 hrs running tubing Finished testing X-tree for 3X well from G/Tid to O/V hose for down hole safety valve checked out OK---AOK
May 22 P.T.D. 10530' PBD		½ hr. Testing tubing 6000 psi ok. 19 hrs Running 4½" armco seal lock tubing 1½ hr. Run tubing in hole with DP to get spac out. 3 hrs Running 4½" tubing 0700 hrs Running 4½" tubing Making dive O/V to disconnect junction box from well 3X-tree to G/T. Preparing to make dive with Supply boat Holsten tor well 2X.
May 23 P.T.D. 10530'PBD		24 hrs Made trip, made up tubing hanger, attached 1/4" stainless stell tbg. Band 1/4" to tubing w/Monel Straps. Installed tbg.hgr. installation tool on top of hgr. Run on B.Sub & D.P. landed hgr. w/6-8,000 lbs. on packer. WIH w/Reentry tool on 4½" tbg. riser & 1/4" otis hose. Tested hose & tbg. to 10,000 psi. Pull dummy mandrel & pump oil down hose, tbg. WIH w/plug & landed in "R" nipple at 9676' Tested tbg. to 6000 psi. Pull plug out. Went in to open sliding sleeve at 9636. Tool failed to work. Run new tool & open sleeve. WI & landed plug in "R" nipple at 9676. Measuring

DAILY REPORT DETAILED

LEASE 2/4 WELL NO. 3X SHEET NO. 6

DATE	TOTAL DEPTH	NATURE OF WORK PERFORMED
May 23 (continued)		device broke, repair same. Tested tbg. hanger to 3000 psi run Dummy Mandrell at 562'. Running plug in "F" nipple at 347.
		Mw: 8.9, Vis: 57, Pv: 16, Yp: 31
May 24		0700 Preparing to test plug in "F" nipple.
		6 hrs Attempt to pressure plug in "F" nipple, it leaked. Pulled "FWG" plug (plug in "F" nipple), stuck 60' from RKB. Retrieved plug. Ran 4½" Pulled 4½" Riser. Riser & lubricator.
		2½ hrs Rung plug to test "F" nipple, it leaked. Pulled plug out & hold plug at 227' from RKB.
		1½ hrs Pulling riser tubing to retrieve plug. Lost plug in hole.
		4½ hrs Fishing for tool. Fished on top of tubing hanger. Pulling tubing out of hole, weather deterioting.
		7 hrs W.O.W.
		0700 hrs W.O.W.
May 25		
		6 hrs Worked on impression box while WOW.
		½ hr. Ran impression box, we had had indication "FWG" plug was sitting o top of tubing hanger, and was 45-50° angle.
		1 hr. Ran pulling tool & attempt to pull plug, no success.
		½ hr. Fabricating overshot to pull plug.
		2 hrs Ran overshot on wireline, failed to get hold of fish.
		2 hrs Picked up tubing & WIH with oversho
		½ hr. Ran over fish & pulled same out of hole.
		4½ hrs Picked up 4½" mud riser, WIH, latched on to hanger & pulled same out of hole. Atteded & did some minor repairs on hanger.
		0700 hrs Preparing to run tubing hanger in hole.

DAILY REPORT DETAILED

LEASE 2/4 WELL NO. 3X SHEET NO. 7

DATE	TOTAL DEPTH	NATURE OF WORK PERFORMED
May 26 P.T.D. 10530		2½ hrs Running tubing hanger 4½ hrs Tested Dummy mandrell, will not hold pressure, pullued dummy, changed "O" Ring, retested, OK. 1 hr. Made up re-entry tool & ran same 5½ hrs Rig up Otis tree & lubricator. Ran "RP" plug to test hanger, plug stuck in nipple. While attempted to free same, wireline 092 parted, leaving sinker bar & running tool in hole. 1 hr. Rig down Otis tree, pulled Riser. 2 hrs Picked up Riser w/re-entry tool stinger WIH, stinger failed to test, pulled same out of hole. Snap ring in bottom of re-entry tool fell out. 3½ hrs Picked up hanger retrieving tool, pulled tbg. hgr. & retr. tool out of hole. Retrieved Snap ring. One piece of Snap ring broke off, we assume it fell in tubing. 3 hrs Cir. & cond. mud (in an attempt to move piece of snap ring out of hole) 1 hr. Rig up Otis tree & WIH w/wireline grapple. 0700 hrs Pulling out of hole w/wireline grapple. Mw: 14.3, Vis: 47, Pv: 28, Yp: 14
May 27		15½ hrs Fishing for wireline tools out of tubing. At present tubing is clear. 3 hrs Circl. & Cond. mud. 5½ hrs Picked up tubing hanger, _icked up pressure sentry & safety valve lines & tested same, OK. Attempted to test stinger in tubing hanger, fail to screw in. Pulled stinger out, dressed same & return, OK, Ran plug in "F" nipple to test stinger, will not hold. Pulled plug out, ran another plug and tested to 5000 psi,OK. 0700 hrs Running tubing hanger Mw: 14.3 Vis: 46, Pv: 29, Yp: 7

DAILY REPORT DETAILED

LEASE 2/4 WELL NO. 3X SHEET NO. 8

DATE	TOTAL DEPTH	NATURE OF WORK PERFORMED
May 28 P.T.D. 10530		2 hrs Finish latching tubing hanger in Well-head. 2 hrs Started pulling mud riser, when one half of 20" casing bushing fell thru rotary table hitting one of the rousabouts working on the cellar deck & knocking him over board. Lost man in sea. 8 hrs Shut down due to accident. 2 hrs Made dive to search for body, fail to find same. 3½ hrs Finish pulling Riser, choke & kill line 3 hrs Picked up autolock, went in & latched to B.O.P. and pulled same thru cellar deck. 3½ hrs Rig hydraulic jack & pulled B.O.P. Placed same on cellar deck on test stump. 0700 hrs Preparing to make dive to inspect Wellhead & Hanger and clean same. Connecting Payne Unit on the rig to X-mass tree on cellar deck.
May 29		2 hrs Made dive to finish removing loop on pipeline. 10½ hrs Finish hooking up Payne hose, annulus hose & checking all valves on tree & removed tree from test stump. 7½ hrs W.O.W. (heave 2½ to 3 feet) 3½ hrs RUnning tree to bottom & latching down all hoses while going down. ½ hr. Attempted to latch tree to Wellhead, failed, tree would not go down far enough to latch. It lacks 10 to 12" to latch. 0700 hrs Making dive to determine problem.
May 30 P.T.D. 10530'		1 hr. Attempt to latch X-mas tree failed 2 hrs Made dive to check tubing hanger and well head and to check orientation A-OK. Divers did remove cable debre from Permanite guide base. 4½ hrs Waiting on divers to re-charge bell and to de-compress. 1½ hrs Made dive to cut No 3 guide arm from flow line guide frame, attempt to latch tree failed. 2 hrs Waiting to recharge bell and prep for dive.

DAILY REPORT DETAILED

LEASE 2/4 WELL NO. 3X SHEET NO. 9

DATE	TOTAL DEPTH		NATURE OF WORK PERFORMED
May 30 Continued		2 hrs	Made dive to cut payne pod support post under pod recepticle and attempt to latch tree, failed.
		3½ hrs	Waiting on divers to recharge bell and prepare for next dive.
		2 hrs	Made dive and cut guide arm No 2 from flo-line guide and attempt to latch tree failed.
		3½ hrs	Waiting on divers to decompress and attempt to latch tree failed
		2 hrs	Waiting on weather to dive
		0700	Waiting on weather to dive
May 31 P.T.D. PBD 10530		24 hrs	WOW to dive. prep to pull X-tree and nee to make dive to attach ~~guide~~ lower guide frame to X-tree. When X-tree is on cellerdeck will re-attach X-tree to lowe guide by re-installing shear pins. When X-tree is on celler deck will make dive and measure stick up of tubing hanger to be sure the tubing hanger is in its proper position. Made two test runs with diving bell only through surf-bell jerked and jumped going through surf, to dangerous for men to be inside. 0700 W.O.W. to dive.
June 1 P.T.D. PBD 10530'		1 hr.	Made dive to attach slings to G/ARM
		4 hrs	WOW to dive
		4½ hrs	Working tree free and pulling to celler deck.
		14 hrs	Repairing 13 5/8" auto lock. Found 4 bolts sheared on latching segments on auto-lock. Replaced 4 segments and all "O"-ring seals and new Laurent seal. Made dive and found some cement around top of 20" well head. Cleaned and inspected 20" and 13 5/8" well head all ok Measured tubing hanger stick up and foun it to be exactly in place.
		½ hr.	Test tree in celler deck on test stump t 7000 psi--AOK--
		0700	Prep to run tree
		Note	on lower flow line guide frame found one bent shear pin that could have been jammed on side of 20" well head. Have removed No 3 guide arm on X-tree leaving No 2 & 4. No 4 when retrieved tree showed to have been in a bind. Prep to make dive on well 2X to open flow line valve.

DAILY REPORT DETAILED

LEASE 2/4 WELL NO. 3X SHEET NO. 10

DATE	TOTAL DEPTH	NATURE OF WORK PERFORMED
June 2 P.T.D. 10530'		4 hrs Run X-mas tree and attempt to latch 1 hr. Divers cutNo4 Guide arm from tree (leaving only 1 Guide arm No 2) 4½ hrs Latched tree & tested with 100000 lb. pull and then 7000 psi on laurent seal A-OK--- made dive to check measurement on auto-lock A-OK 3 hrs Made dive to close needle valves ½" & disconnect hoses on 13 5/8" autolock Connect psi sentry line to G/T. Install turn-buckles from auto lock to guide frame & measured templates for flowlines. 1 hr. Pull landing string & running autolock. 3½ hrs Install upper body on (13 5/8" autolock) with special PPCO stinger & run on 4½" seal lock riser-land and latch--rig up OTIS test tree and test to 6000 psi A-OK. 7 hrs Attempting to pull FWG at 347'-- Had 10' of fill on top of plug (baryite)---Run Baker wireline sand pump and Hydrostatic bailer. Bailed down to top of plug--sheared equalizing pin. 0700 Jaring on plug
June 3 P.T.D. 10530'		2 hrs Jarring and pulling on FWG plug ½ hr. Reverse circulating 8 hrs Jarring and pulling on FWG plug at 347' 4 hrs Reverse circulating 1 hr. Jarring and pulling on FWG plug ½ hr. Reverse circulating 7 hrs Jarring and pulling on FWG plug 0700 Preparing Chain on drum of Baker wire line unit. Mw: 14.4, Vis: 50, Pv: 30, Yp: 14
June 4 P.T.D. 10530'		1 hr. Repair chain on Baker wire line unit 1 hr. Jaring and pulling on FWG plug at 347' 1½ hr. Repairing chain on Baker wire line unit 4½ hrs Mixed and spot pipe lax around FWG plug 16 hrs Jaring and pulling on FWG plug 0700 hrs Reversing out pipe lax.

DAILY REPORT DETAILED

LEASE 2/4 WELL NO. 3X SHEET NO. 11

DATE	TOTAL DEPTH		NATURE OF WORK PERFORMED
June 5		4 hrs	Reverse circulating
P.T.D. 10530'PBD		2 hrs	Jaring on FWG plug with Baker wire line unit
		11 hrs	Waiting on tubing and unloading from boat.
		4 hrs	Make up 23/8 tubing and wash around top of FWG plug with 3000 to 3500 pump psi.
		1 hr.	Run Baker wire line tools and jar on plug.
		2 hrs	Make up Houston Engineers Bull nose spea and bowen 3 1/8" oil jars & GIH and jaring on fish with 18000 to 280001b on plug at 347'
		0700	Jaring on plug "FWG"
		Mw: 14.4, Vis: 52, Pv: 32, Yp: 15	
June 6			
P.T.D. 10530PBD		6 hrs	Jarring on FWG plug with Bowen 3 1/8" Hydraulic jars.
		3 hrs	Rig down tree pick up 4 3/4" bumper sub & jar down on spear to release spear. released spear.
		2 hrs	Pull 23/8" tubing and lay down spear and jars.
		4 hrs	Reverse circulate. Made dive connect hydraulic hoses to 135/8" autolock dis-connect psi sentry line and turnbuckles from autolock. Prepair tree for pulling
		9 hrs	Waiting on otis plug.
		0700	Rigging up to run Otis type "W" plug
		Mw: 14.4, Vis: 52, Pv: 40, Yp: 14	
June 7			
P.T.D. 10530'PBD		3½ hrs	Run Otis type "W" plug and set at 341' tested plug 950 psi for ½hr.-AOK
		2½ hrs	Rig down test tree and pull 4½" riser ar 13 5/8" autolock
		3½ hrs	Rig up and run 13 5/8" reteriving auto - lock on drill pipe and latch on to tree.
		1 hr.	Repair under water television.
		4 hrs	Pull tree and secure on celler deck.
		4 hrs	Rig up to run 14 5/8" BOPS
		1 hr.	Repair yellow pod.
		2½ hrs	Test BOP stack to 5000 psi and H-drill to 2500 psi-AOK
		2 hrs	Run BOP stack
		0700	Prep. to latch BOP stack

DAILY REPORT DETAILED

LEASE 2/4 WELL NO. 3X SHEET NO. 12

DATE	TOTAL DEPTH		NATURE OF WORK PERFORMED
June 8		1 hr.	Finished running & latching BOP stack
		1 hr.	Pulled & laid down landing string
		6 hrs	Rigged up & ran 16" mud riser & latched same
		1 hr.	Rigged up cellar deck
		½ hr.	Started to displace water in riser with mud and found crack in slip joint
		2 hrs	Rigged down cellar deck & pulled slip joint into cellar deck
		3½ hrs	Reparing slip joint
		1 hr.	Rigging up cellar deck
		1 hr.	Picked up national rubing hanger retrieving tool
		1 hr.	Latched to tubing hanger & pulled same & laid down
		½ hr.	Laid down Baker F nipple w/FWG plug
		1 hr.	Picked up kelly & circulated displacement of tubing thru sliding sleeve.
		4½ hrs	Rigged up Baker wireline unit, pulled separation tool and closed sliding sleeve at 0700 picking up kelly to circulate
		Mw: 14.4, Vis: 52, Pv: 29, Yp: 14	
June 9			
P.T.D. 10530 PBTD		1 hr.	Pull shifting tool from sliding sleeve
		2 hrs	Circl. & cond. mud
		2½ hrs	Closed sliding sleeve
		1½ hrs	Made up "F" nipple & tested same to 6000 psi, OK
		2 hrs	Run separation sleeve & pump bray oil before setting. Tested separation sleeve will not hold pressure. Pulled, repaired and reran same. Tested w/ 10,000 psi, OK.
		3 hrs	Run tubing hanger & orient.
		4 hrs	Run re-entry tool, pulled separation sleeve, could not pump thru 1/4" stainless steel
		8 hrs	Retrieved tubing hanger, pulled to rig floor, 1/4" tubing plugged with seal cuttings and barite. 1/4" pressure sentry broken, spliced just below tubing hanger. Repaired same. Pumped thru 1/4" line, land separation sleeve & tested to 9000 psi.
		0700 hr GIH w/tubing hanger	
		Mw: 14.4, Vis: 52, Pv: 29, Yp: 14	

DAILY REPORT DETAILED

LEASE 2/4 WELL NO. 3X SHEET NO. 13

DATE	TOTAL DEPTH	NATURE OF WORK PERFORMED
June 10 P.T.D. 10530		3 hrs Preparing tubing hanger for running and tested 1/4" stainless steel conn. to 6000 psi, ok, then tested 1/4" to separation sleeve to 9500 psi, OK. Ran tubing hanger, latched up & pulled landing string. 1 hr. Ran re-entry tool & latched same. 7 hrs Pulled sparation sleeve, ran plug. Tested tubing hanger packing seal with 2500 psi for ½ hour, OK. Ran "RPI" & "FBI" plugs. Rig down lubrication & pulled 4½" Riser. 3½ hrs Attempted to repair UTV 5 hrs Made observation dive, observed auto-lock latch up, pulled BOP & secured cellar deck. 1½ hrs Preparing to run X-mass tree. 0700 Preparing to run X-mass tree
June 11 P.T.D. 10530 PBD		6 hrs Preparing X-tree for running, made dive and checked well head, OK. 8 hrs Testing tree found leak in auto lock replaced following segment bolts. Replaced laurent seal test tree to 7000 psi-AOK. 10 hrs Run tree and latch onto 13 5/8" well-head, pull test to 70000 lbs AOK, test with 7000 psi through otis hose, AOK, Test Sentry line-shorted out- made dive to connect sentry line to G/T--still shorted out. Disconnect line to G/T---COOH with X-tree 0700 Coming through cellar deck with X-tree. Stabbed X-tree by observing from diving bell had no U.T.V. Frank Redford Rig superintendent O/V made observation dive to guide x-tree via telephone to surface AOK. U.T.V. must be on helicopter

DAILY REPORT DETAILED

LEASE 2/4 WELL NO. 3X SHEET NO. 14

DATE	TOTAL DEPTH	NATURE OF WORK PERFORMED
June 12 P.T.D. 10530' PBD		4½ hrs Pull X-mas tree to cellar deck. Check psi sentry line on tree. Made dive and stung into psi sentry line in tubing hanger, shows short below tubing hanger. 3½ hrs Rig tree down on cellar deck and set on test stump 3½ hrs Moved 13 5/8" stack over slot in cella deck and rig stack for running and tested with 5000 psi, and Hydrill to 2500 psi AØK. 11½ hrs WOW to run stack had 18' seas during this period. 1 hr. Running BOP stack. 0700 Preparing to latch stack to 13 5/8" Well head.
June 13 P.T.D. 10530' PBD		4 hrs Run BOP stack, UTV out made observatio dive to land stack 1 hr. Pulling landing string 4½ hrs Run 16" mud riser made observation div to latch riser 14½ hrs Pull tubing, checked tubing hanger for short in psi sentry line, found line parted 100' below hanger, repaired same, pulled Baker plugs at 347' and at 550', went in hole with tubing tested collars with 6000 psi Gator-Hawk, run tubing with tubing hanger on drill pipe. Hanger did not shear to orient, Ran retrieving tool and pulled tubing--hanger to check, replaced shear bolts and started back in hole. 0700--- Going in hole with tubing hanger
June 14 P.T.D. 10530'		6 hrs Dressed installation tool & checked sentry line and landed tubing. Pulled landing string. Picked up reentry tool and 4½" Riser, attempt to latch reentry tool, tool would not latch up, pulled out reentry tool, left part of tool in hole. 1½ hrs Fishing forparts of reentry tool with magnet, recovered 1 activiated pin, left 1 activiation pin, 2 springs & 1 washer. 4½ hrs Rigged Baker wireline, pulled separati sleeve & made dummy run to 9640'. Ran

DAILY REPORT DETAILED

LEASE 2/4 WELL NO. 3X SHEET NO. 15

DATE	TOTAL DEPTH	NATURE OF WORK PERFORMED
June 14 continued		check valve in "A" nipple at 560' & check valve in "F" nipple at 347' 10½ hrs Rig down cellar deck, pulled choke & kill line & 16" mud riser. Rigged autolock to pull B.O.P. Attempt to latc autolock, hydraulic hose to autolock broke, pulled autolock, repair hose, ran & latched autolock, pulled B.O.P. UTV out, made dive. 1½ hrs Made dive to check hanger for orient ation. Orientation of tubing hanger 0ff 60°. While diver on bottom, found junk between autolock & tubing hanger (a piece 20" long of sentry line, 1 washer off activiated pi & tootht of bit) 0700 hrs Running B.O.P. stack.
June 15 P.T.D. 10530 PBTD		1½ hrs Tested stack before running to 5000 ps 4 hrs RAN BOP, latched up & pull tested OK 1½ hrs Pulled landing string &preparing to ru 16" mud riser 3½ hrs Ran 16" Riser &latched up same & pull tested OK 1 hr. RU cellar deck 1½ hrs RU hanger retrieving tool & WIH & latched on hanger & pulled same out of of hole. ½ hr. Ran Baker wireline & pulled FBI check valve & pulled "RBI" plug from "A" nipple. 1½ hrs Circl. & cond. mud. 1 hr. Started in hole w/wireline,mud started flowing thru tbg. COOH w/wireline 1½ hrs Circl. & cond. mud to balance the coloumn of fluid. 4 hrs RU Otis tree & WIH w/shifting tool & closed sliding sleeve valve. 2½ hrs Circl. & cond. mud around bottom up t bg. 0700 GIH w/shifting tool to open sleeve. Mw: 14.2, Vis: 50, Pv: 29, Yp: 17

DAILY REPORT DETAILED

LEASE 2/4 WELL NO. 3X SHEET NO. 16

DATE	TOTAL DEPTH	NATURE OF WORK PERFORMED
June 16 P.T.D. 10530 PBTD	2 hrs	Ran in hole with shifting tool & open sliding sleeve valve.
	½ hr.	Ran in hole and set separation sleeve & tested.
	2 hrs	Made up tubing hanger & checked same fo defects. Checked sentry line & 1/4" safety valve line,all OK.
	1 hr.	Picked up landing string and landed hanger.
	½ hr.	Pull out of hole with landing string.
	1 hr.	Picked up and ran reentry tool. Rigged up Otis tree and lubricator.
	1½ hrs	Pulled separation sleeve and ran "RBI" plug.
	½ hr.	Tested hanger pack off & packer seal to 2500 psi, OK
	3 hrs	Pulled "RBI" plug & ran check valve in "A" nipple & "FBI" plug in "F" nipple
	½ hr.	Pulled 4½" riser & reentry too, lost snap ring, washer & nut.
	5 hrs	Rig down cellar deck & pulled choke & kill lines, 16" riser.
	1 hr.	Rigged up to pull B.O.P.
	1½ hrs	Repair U.T.V.
	2½ hrs	Pulled B.O.P. & set on cellar deck.
	1 hr.	Made dive to checked orientation of tubing hanger, OK. Picked up snap rin leaving washer & nut in hole
	½ hr.	Picked up X-mas tree & rig up to test.
	0700 hrs	Testing X-mas tree prior to running.
		Mw: 14.4, Vis: 50, Pv: 30, Yp: 13
June 17 P.T.D. 10530 PBTD	5½ hrs	Finish hooking up lines & test tree on test stump.
	6½ hrs	Ran tree & landed same & latched up, tested to 6000 psi thru the tree test hole and pull tested to 150.000 psi. Divers made up hook up on sentry line from G/T,OK. Pulled landing string
	3 hrs	Picked up 5" Riser & latched up same.
	2 hrs	Rigged up Otis tree, Baker lubricator & service lines & tested to 5000 psi.
	1½ hrs	Attempted to test 5" Riser, had a leak on collar on floor.
	1 hr.	Tested 5" riser to 5000 psi & tested annulus to 2500 psi, Ok.
	1½ hrs	Pulled check valves from "F" & "A" nipples. Ran in hole with separation sleeve.

DAILY REPORT DETAILED

LEASE 2/4 Y WELL NO. 3X SHEET NO. 17

DATE	TOTAL DEPTH	NATURE OF WORK PERFORMED
June 17 continued		1½ hrs Pumped 20 bbls xp-polymer mud & displaced w/132 bbls of water. ½ hr. Pulled separation sleeve. 1 hr. Closed sliding sleeve at 9622 & teste the sliding sleeve thru annulus to 2500 psi. OK. 0700 hrs Rigging up dead weight tester prior to opening up well. Mw: 8.7, Vis: 60, Pv: 15, Yp: 32
June 18		½ hr. Running Baker Separation sleeve & testing w/Otis Hydraulic pumps to 10,00 psi thru operating hose OK. 1 hr. Rig down Baker wire line lubricator & rig up dead wt. tester. 3½ hrs Open well at 0755 hrs to flow & clen up Tubing pressure 1505 psi after opening tubing. Pressure bled to "O" psi & flowing on "O" psi at 0900 hrs flowing water & mud. 0915 hrs-Tbg pressure 500 psi at 0920 hrs tbg. Pressure 320 psi well flowing mud & water at 0930 hrs Tbg. Pressure 460 psi flowing water gas & oil flare was Lit. 0945 hrs Tubing pressure "O" psi well dead very little blow thru tubing 2½ hrs started B.J. pump to pump water in tubing. B.J. pumper was told to open wrong valve on pump manifold by mistake. Instead of pumping down tubing he was pumping in annulus 2" hose, when pressure reach 3800 p pressure gauge drop off to zero. Pump was shut down. Looked at X-mas tree thru UTV, water was very cloudy on bottom & around X-mas tree. Closed annulus valve, attempted test 2" hose. Pump 1 bbl of water. No pressure. BUild up water became more cloudy around X-mas tree. 10 hrs divers disconnected hose & pulled sam Test hose to 2500 psi OK. Divers inspected X-mas tree & all lines. Report everything look ok. 3 hrs Divers decompression 12 hrs W.O.W. 0600 Tubing pressure zero, well is shut in on Otis wing valves.

DAILY REPORT DETAILED

LEASE 2/4 WELL NO. 3X SHEET NO. 18

DATE	TOTAL DEPTH	NATURE OF WORK PERFORMED
June 19	12 hrs	W.O.W. to make dive
	2 hrs	Ran 2" annulus hose,divers connected sam
	1 hr.	Test tree & tree valves. Pump 22 bbls mud down annulus, filled annuluse, watch for external leaks on UTV.
	1 hr.	Pump 22.5 bbls mud down tubing to fill same.
	½ hr.	Tested annulus 3000 psi, OK
	½ hr.	Tested tubing to 4100 psi. Pressure brok back to 3000 psi.Annulus increased to 1500 psi.
	1 hr.	Pump down tubing 4 bbls with casing open Recovered 4 bbls mud through annulus.
		Attempted pump down annulus with tubing open. Pressure increase to 2700 psi with not return through tubing.
	½ hr.	Rig up Baker lubricator.
	½ hr.	Ran blanking plug in "F" nipple.Test tree 5000 psi, OK.
	2 hrs	Pulled seperation sleeves from "A" nippl Attempted go in hole to Otis sliding sleeve bridge 2760'.
	1 hr.	Made up "ANP" plug. Ran & set in "A" nipple to hold pressure both ways.
		Attempted to test tubing 1200 psi. Pressure brok back to 1100 psi w/returns on annulus at surface
	2 hrs	Rig down Baker lubricator.
	0700	Rig up to pull 5" Riser, divers going down to hook up operating hose to auto-lock.
		Mw: 14.3, Vis: 50, Pv: 30, Yp: 13
June 20	2 hrs	Made dive to hook up hydraulic lines to tree connector.
	1 hr.	Pulled 5" Riser
	4 hrs	Rigged to pull tree & reparied auto lock on tree pulling string.
	1 hr.	Picked up autolock & checked same.
	1½ hrs	Made up 2 3/8" OD tubing annulus line & repaired guides.
	1½ hrs	Made dive to disconnect annulus hose fro tree & install 3 additional bolts in Vetco union on annulus connection to service lin
	2 hrs	Picked up 5" Riser & latched same.
	3 hrs	Rigged up & ran 2 3/8" OD tubing,annulus line.
	2 hrs	Made dive to connect annulus line & in-stall blind flange on tree production line.

DAILY REPORT DETAILED

LEASE 2/4 WELL NO. 3X SHEET NO. 19

DATE	TOTAL DEPTH	NATURE OF WORK PERFORMED
June 20 continued		1 hr. RIgged up Baker lubricator & annulus line ½ hr. Tested annulus line, Riser, & serivice line to 5000 psi. Retested casing to 3000 psi. Retested tubing, pumped in tubing at 1100 psi with communication to annulus. ½ hr. Pulled ANP plug from "A" nipple 4 hrs Rigged up wireline Bailer and started bailing at 2760, Bailed to 3612. At 0700 hrs Bailing at 3622. Mw: 14.3, Vis: 50, Pv: 30, Yp: 12
June 21		At 0700 Bailing tubing at 3807'. 16½ hrs Bailing mud and sand from tubing. Holding 300 psi on tubing and 1000 psi on annulus with bailing. ½ hr. Pressured tubing to 4900 psi while holding 2900 psi on annulus. Could not pump into well. 7 hrs Bailing mud, sand and small chips of lime stone (approx. 1 cup per run) from tubing. Mw: 14,3, Vis: 49, Pv: 29, Yp: 13
June 22		9 hrs Bailing from 3807 - 3865. 1 hr. Test annulus w/3000 bled pressure, batch test tubing w/2900 w/500 on annulus & pressure came up to 600 psi, then put 3000 on annulus & 3900 on tubing, held OK. Bled pressure off, close master annulus valve & test surface lines and equipment to 5000 psi 14 hrs Bailing 3865 - 4051 0700 Bailing at 4059
June 23		12 hrs Bailing 4051 to 4084 1 hr. Displace mud w/diesel thru tree & to 360', used 8 bbls diesel, worked all valves to clean & to leave diesel in same. 1½ hrs Set A.N.P. plug in "A" nipple at 550 test plug w/5000 psi thru 1/4" line w/ otis pump, set F.W.G. plug in "F" nipple 347'. 2 hrs Rigged Baker lub. and otis test tree down & pulled 5" riser. 2 hrs Rigged & run corrosion cap. 5 grs WOW, made run w/bell to check sea. At 0700 getting ready to dive.

DAILY REPORT DETAILED

LEASE 2/4 WELL NO. 3X SHEET NO. 20

DATE	TOTAL DEPTH	NATURE OF WORK PERFORMED
June 24		2 hrs WOW Sea too rough for diving 1½ hrs Made dive, disconnect annulus hose, Pod hose, swab valve operating hose & manual master valve. 1½ hrs Disconnect & pull 2 3/8" line from service flow valve, pulled corrosion cap running tool. 1 hr. Rig spar marker buoy on no 1 spar . 2 hrs Divers disconnect guide wires 6 hrs Waiting on tugs 2 hrs Hook 2 tugs forward & remove bumper plate that was foulde in no 2 anchor chain. 8 hrs Pulling no 1, 3, 4, 5, 6, 8 anchors no 2 & 7 still out. Work boat Anskari-turm winch broke down at 0100 hrs while pulling no 5 anchor. While repairing winch pennant line fouled in ship screw. Unable to continue working with anchors. Will offload & send to town.
une 25		4 hrs Pulling no 2 ard no 7 anchors Last anchor Bolster 1000 hrs & under tow to 2/4-2X.

DAILY REPORT DETAILED

LEASE 2/4 WELL NO. 3X SHEET NO. 1

DATE	TOTAL DEPTH	NATURE OF WORK PERFORMED
July 5		3½ hrs Under two to 3X location 2½ hrs Waiting on daylight to move in on location. 3X 3½ hrs Move in on location ran No. 3-6-7 anchors 0700 Running No. 2-5Anchors
July 6 L0530' PBD		4 hrs Finish running anchors 1-4-8 all anchor out. 3 hrs Diving barge to workirg depth and tension up on all anchors. 2 hrs Divers connected 4 guide lines and 2 UTV lines 1½ hrs Pull corrosion cap 6 hrs Run annular line, swab valve hose, junction box and open manual master valve. 7½ hrs Work on 13 5/8" BOP stack install 2 3/8 rams in place of 5" pipe rams - move BO over slot and prep totest BOP stack 0700 Preparing to test stack.
July 7 10530' PBD		13½ hrs Finish testing 13 5/8" BOP stackauto-lock hub on top of Hydrill damaged held 5000 psi after installing "o" ring above laurent seal. Bull plugged kill line side of stack, do not need kill line. 1½ hr. Made dive to tighten union on 2 3/8" line annular side of x-tree 3½ hrs Running 13 5/8" BOP stack to withen 20' of x-tree when opened auto lock on bottom of stack to go over tree. Opened running auto-lock by mistake and dropped stack. 1½ hr. Pulled yellow pod hose, running auto-lock and string 2 hrs Made dive & ret. 2 3/8" line and all hos to x-tree and closed manual master valve and retrieve payne hose bundle. Located stack port and aft or No. 4 guide post top laying away from tree and bottom near no. 4 guide post, No 4 guide post bent 70°. Divers could not see any damage to tree, UTV could not show any damage, appears stack did not hit tree No 4 guide line broken in guide post 2 hrs Decompress divers. Rig up sling to retrieve stack 0700 Rigging up slings to ret. stack Mw: 14.3, Vis: 50, Pv: 30, Yp: 15

DAILY REPORT DETAILED

LEASE 2/4 WELL NO. 3X SHEET NO. 2

DATE	TOTAL DEPTH	NATURE OF WORK PERFORMED
July 8 10530 PBTD		4 hrs Rigging up to pull BOP 3 hrs Dive to connect cables to pull BOP 5 hrs Pulling BOP off sea floor to cellar deck, with Ocean Viking moved off location approx. 25'. 12 hrs Secure BOP on deck. Damage to BOP. Autolock damaged beyond repair. Pod pulled out of connection off yellow pod. One lower guide bent. Choke line broken off on top of stinger. Ladder on BOP broken at lower end. Brace around choke autolock damaged. One end o 3 hydraulic hoses broken off. Autolock on botto of BOP had bent at lower end that shows auto-lock hit a circle that measure a circumference of 15". 0700 hrs Preparing to test BOP.
July 9 P.T.D. 10530 PBTD		21 hrs Repairng B.O.P. and testing same on blue and yellow pod and also changing out diving winch. 3 hrs Installing new diving winch. 0700 hrs Moving over location & preparing to make test dive with new winch when over location. Note: Fabricated choke and kill line guide brackets for 5" riser. Hub on top of B.O.P. tested with 5000 psi with lament seal and "O" ring. Repaired the damaged hub with cement seal.
July 10		7 hrs Changing out diving winch & making 3 tes runs with bell only. 1 hr. Made dive to check x-mas tree, Last contact with divers, retrieve divers, found diving winch cable to engine room defecte 15 hrs Waiting on divers to repair equipment. Checked x-mas tree with UTV. 1 hr. Installing new cable from engine room to diving bell. When divers decompress divers reported damage to hub on top of tree. this damage was confirmed with UTV. Also damage to valve on production wing. Bolts sheared out of flange between block & flange on tree. 0700 hrs Changing out electric cable.

DAILY REPORT DETAILED

LEASE 2/4 WELL NO. 3X SHEET NO. 3

DATE	TOTAL DEPTH	NATURE OF WORK PERFORMED
July 11 P.T.D. 10530		3½ hrs Divers installing new cable engine room to bell & making test dive with bell. 3 hrs Dive no. 1 to connect 1 & 3 guide wires payne junction box, swab valve hose & observe annulus pressure (1000 psi) 2½ hrs Run 2 3/8" annulus line while waiting o divers to decompress. 1½ hrs Dive no. 2 connect annulus line to service line on tree & disconnect chain from x-mas tree autolock. 3½ hrs Waiting on divers to decompress 2 hrs Dive no. 3 attempted to connect hose direct from bypass valve to rig floor (hose from accumulator would not hold pressure) 3 hrs Waiting on divers to decompress 1 hr. Dive no. 4 attached hose to bypass valv ½ hr. Bled pressure from annulus 3½ hrs Shut in annulus & observing annulus for pressure. 0700 Lowering retrieving autolock. Mw: 20.1, Vis: 70, Pv: 80, Yp: 23
July 12 10530		5½ hrs Ran autolock and made observation dive autolock would not go over x-mas tree hub. Pulled autolock and laid down same. 3½ hrs Ran slings on elevators on drill pipe upside down, made dive to place slings over hub on x-mas tree, placed one sling for safety on production wing valve, connected hose to autolock on tree, opened master valve, checked annulus pressure = 400 psi in 9 hrs. 1 hr. Bled pressure on annulus & tubing pressure = 10 psi. Opened autolock on tree. 3 hrs Pulled x-mas tree and loaded on boat Ansgariturm. 6½ hrs Ran B.O.P. over slot & checked operatic on payne unit, checked same & kill connector. Ran B.O.P. with 4½" stinger & runnir autolock. Landed & latched up. Pull tested B.O.P. 19000 lbs. and test laurent seal w/2000 psi. 1 hr. Pull running string. 3½ hrs Running 5" riser w/guide brackets on riser and choke & kill lines 0700 hrs Running 5" riser.

DAILY REPORT DETAILED

LEASE 2/4 WELL NO. 3X SHEET NO. 4

DATE	TOTAL DEPTH	NATURE OF WORK PERFORMED
July 13	1½ hrs	Ran 5" riser, tested each joint to 6000 psi with Gator Hawk, installed 5guide arm on riser.
	1½ hrs	Rigging up cellar choke & kill line.
	2 hrs	Rig Otis test tree & test choke & kill line to 5000 psi.
	7 hrs	Testing & repairing valves on Otis test tree & test Baker lubricator to 5000 psi.
	½ hr.	Pulled "FWG" plug at 347.
	9½ hrs	Attempted to pull plug in "A" nipple at 550'. Tool stopped at 544'. Rigged and ran hydrostatic bailer, no results. Rigged and ra sand pump, no results. Ran Baker impression plug, showed no junk on bottom.
	2 hrs	Rigging Bowen B.O.P. & spinner to pick 2 3/8" tubing to wash on top of plug.
	0700	Rigging up Bowen B.O.P. spinner.
July 14 10530 PBD	4 hrs	Finish rigging up Bowen BOP and stripper head.
	5 hrs	Pick up 2 3/8" drill pipe
	1 hr.	Circulate and wash from 544' to 548' top of plug.
	1½ hr.	Laydown 2 3/8" drill pipe and rig Bowen BOPs and stripper head
	1 hr.	Rig up Otis test tree and test to 200 psi
	4½ hrs	Attempt to pull plug.
	4½ hrs	Rig down Otis tree and rig up Bowen BOPs and stripper head. Pick up 1 jt of 1.66 and run in hole on bottom of 2 3/8" drill pipe.
	2½ hrs	Washing down 2½' inside of blanking plug with 14.3 mud was cut back to 10.1 small amt. of gas and oil.
July 15 10530 PBD	2½ hrs	Circulate and displace hole with 20 ppg mud and observe well for flow at 548'
	2 hrs	COOH and layed down 2 3/8" Drill pipe
	4 hrs	Rig down Bowen BOP stack & rig up Otis test tree. GIH and pull Baker A & P blanking plug at 548' with Baker wire line unit.
	12½ hrs	Rig down Otis test tree pull Hydrill 5" riser and run 5" N-80 LT & C riser and space out and rig up Bowen BOP stack with 2 3/8" rams and 1.66 rams and install Bowen stripper head on top of Bowen BOP stack in cellar deck. Suspend on weight cans (empty)
	3 hrs	Running 2 3/8" drill pipe with mill shoe on bottom. 3" OD
	0700	Picking up 2 3/8" drill pipe

DAILY REPORT DETAILED

LEASE 2/4- WELL NO. 3X SHEET NO. 5

DATE	TOTAL DEPTH	NATURE OF WORK PERFORMED
July 16	2 hrs	Picking up 2 3/8" drill pipe
10530' PBD	2 hrs	Circulate out gas cut mud & rig up snub lines on kelly at 1000'. Mud cut to 9.1 for short period.
	2 hrs	Repair Bowen stripper head, had seal leak.
	3 hrs	Pick up 2 3/8" drill pipe
	½ hr.	Circulate at 2000', mud cut to a low of 9.0
	½ hr.	Pick up 2 3/8" drill pipe
	1 hr.	Circulate at 3051', mud cut to a low of 9.0 ppg.
	2½ hrs	COOH and rig for weather, could not unlatch auto-lock on 5" riser, could not pull riser, riser rode out storm A-OK
	9½ hrs	WOW
	0700	WOW
	Note:	When circulating reverse, pump psi is not above 1500 psi, in returns have found small pieces of lime and sol-tex. Have caught samples for lab.
	Mw: 18,0, Vis: 55, Pv: 45, Yp: 15	
July 17	22 hrs	XXXXXXXX Waiting on weather
10530' PBD	2 hrs	Nippling up cellar deck (choke & kill lines).
	0700	Nippling up in cellar deck
	Mw: 20.0, Vis: 70, Pv: 70, Yp: 30	
July 18	2 hrs	Finish nippling up in cellar deck & test choke & kill line to 3000 psi - AOK
10530' PBD	2½ hrs	Picking up and going in hole with 2 3/8" drill pipe
	½ hr.	Curculating out reverse at 2571'
	1½ hr.	Picking up and going in hole with 2 3/8" drill pipe
	1½ hr.	Curculating reverse at 3500' pipe trying to plug
	16 hrs	Washing and circulating reverse from 350 to 4450' - single per single
	0700	Washing at 4507'
	NOTE:	Mud going in 20.0 ppg and returns off bottom cut to 17.5-- in returns over shakers, finding coarse and fine particles of lime and seeno evidence of barite or LCM- lime is pea-gravel largest particles
	Mw: 20, Vis: 78, Pv: 80, Yp: 28	

DAILY REPORT DETAILED

LEASE 2/4 WELL NO. 3X SHEET NO. 6

DATE	TOTAL DEPTH	NATURE OF WORK PERFORMED
July 19 10530' PBD		24 hrs Washing reverse circulating at 4863' At 5210' had hard bridge, when washing through gas cut to a low of 16.6 ppg for 35 minutes. Mud returns averaged gas cut to 17.4 ppg. Returns over shale shaker increased from trace to quail egg size pieces of lime when cleaning the above bridges and plugged the drillpipe layed down 2 singles and regained circulation-- in mud returns cutting were varie in shape and size. Samples are being caught. 0700 Reverse circulating at 5496'. Mw: 20.0, Vis: 69, Pv: 64, Yp: 20
July 20 10530' PBD		24 hrs Washing out 4½" tubing--- reverse circulating from 5400' to 7997' No gas, no cutting over shaker and a trace of oil 0700 Washing 8127'
July 21		12 hrs Wash reverse circulate to clean 4½" tubing from 7997' to 8839'. Washed free to bridge very solid. At 8729' to 8745'-- at 8740' curculated conventional and then rever to get bridge clened out--tubing free from 8745 to 8839'. 12 hrs Reverse circulating holding 750 psi bac on choke manifold well (trying to come in) had gas and oil cut mud for 7 hrs, mud weight cut from 16.5 to 13.0 ppg. shut down ½ hr. circulated bottomed up mud weight, cut to 15.5 ppg 0700 Circulating reverse raising mud weight t 17.0 ppg in mud system. Mw: 17.0, Vis: 57, Pv: 36, Yp: 16
July 22		6 hrs Reverse circulating bring mud weight up to 17.0 ppg. Shut down for ½hr., circulated bottoms up, mud cut to 16.0 ppg. Reverse circulated bring mud weight up to 17.5 ppg going in and coming out, shut down pump, observe well for ½hr. Reverse, circulated up bottoms mud cut to 16.4 ppg 2 hrs Closed Hydrill circulated conventional and checked mud weight for being 17.5ppg through entire system 1 hr. Shut down pumps and observed well

DAILY REPORT DETAILED

LEASE 2/4 WELL NO. 3X SHEET NO. 6

DATE	TOTAL DEPTH	NATURE OF WORK PERFORMED
July 22 Continued 10530PBD		3 hrs Circulate conventional continuous check on mud weight, mud weight check to be 17.5 ppg goind in and coming out, no gas,cut mud 4½ hrs COOH with 2 3/8" drill pipe 2 hrs Change out stripper rubber in Bowen, rotating head and change control hose on Bowen BOP in cellar deck to the 1.66 rams 2½ hrs Pick up 64 jts 1.66 drill pipe and change control hose on Bowen BOP in cellar deck to 2 3/8" rams 3 hrs Going in hole with 2 3/8" drill pipe SLM 0700 Going in hole with 2 3/8" drill pipe and measuring in hole Mw: 17.5, Vis: 52, Pv: 40, Yp: 16
July 23 10530 PBD		2 hrs Finish going in hole with 2 3/8" drill pipe and slm no correction 16 hrs Broke circulation conventional then then reversed and found bottoms up to be mud wt. 17.5 in and out 17.5. Washed to 9117' cut mud to 16.0 ppg,wash to 9410' bit plugged-unplugged bit with BJ pump 4500 psi and started conventional circulation, recovere many large pieces of lime 2" long x 3/4" largest piece, washed to 9451' all washing very hard to clean out mud cut from 16.3 to 13.8 ppg. Circulating conventional-- bit plugged while making connection 6 hrs COOH trying to unplug bit each 10stand 0700 COOH to 1.66 drill pipe Mw: 15.5 out, 16.3 in, Vis: 51, Pv: 36, Yp: 16

DAILY REPORT DETAILED

LEASE 2/4 WELL NO. 3x SHEET NO. 7

DATE	TOTAL DEPTH	NATURE OF WORK PERFORMED
July 24, 10530PBD		3½ hrs finish COOH-with plugged string-layed down 64 joints 1.66 drill pipe-found plug 10 singles from bottom and on bottom--had trapped gas and mud under psi between plugs---plugged with small lime cuttings-- 6 hrs pick up 1.66 and go in hole to 8645' found bridge 2½ hrs circulate at 8645' 1½ hrs lay down 27 joints 2 3/8" drill pipe and run 9 stands from derrick. 2½ hrs circulate and wash out from 8645' to 8903' fine limestone pieces over shaker 1½ hr circulate bottoms up mud cut from 16.3 to 14 3 ppg 6½ hrs wash from 8903' to 9470'--fine limestone over shaker---0700---Circulate bottom up at 9470' Mw: 16.3, Vis: 54, Pv: 38, Yp: 21
July 25		7½ hrs Circulate bottoms up and condition mud cut to 14.3 ppg at 9470---Clean out 4½" tubing 9470' to 9560' wash and clean out bridge--9560' to 9566'---circulate bottoms up 9570' wash from 9570' to 9630' circulate bottoms up--wash from 9630' to 9696' circulate bottoms up--wash to 9810'--- 13½hrs trying to wash out bridge at 9810' rotate slowly with power tongs with torque same as make up on 1.66 = 650 FP----picked up and worked tools trying to get cleaning action--no success---Pump psi would not go up apply weight (small amount) to bit and tongs would stall out---returns over shaker black rubber, grey seflon limestone fine---NO METAL---. 3 Hrs COOH---0700 laying down 1.66 drill pipe Will modify wash shoe and go in hole----med from 1.66 by cutting off pin and making wash shoe design on bottom---with cutting torch and grinder. Mw: 15.6. Vis: 53, Pv: 32, Yp: 24

DAILY REPORT DETAILED

LEASE 2/4 WELL NO. 3x SHEET NO. 8

DATE	TOTAL DEPTH	NATURE OF WORK PERFORMED
July 26 10530PBD	1½Hr	Finish COOH laying down 1 66 Drill pipe-- face of 1 11/16 shoe had iron marks----
	1 Hr	change out 2 3/8" stripperrubberin rotating head---
	7½Hrs	Pick up 64 joints 1 66 drill pipe and go in hole (SLM)--bridge at 9088' 9350'--9621'--and 9810' all bridges washed out easily except 9810'---
	4 Hrs	circulate and condition mud--cut to a low of 14.1 ppg---
	4Hrs	trying to drill out bridge at 9810' did not make one inch--recovered small amount of rubber and lime cuttings in mud. ----rotated slowly with power tongs---
	2½hrs	circulated and conditioned mud vis cosity 80 down to 55--
	3½Hrs	COOH laying down 2 3/8 drill pipe -- 0700 laying down drill pipe----
	Mw: 15.5, Vis45, Pv: 27, Yp: 16	
July 27, 10530PBD	4Hrs	finish laying down 2 3/8" drill pipe--
	3Hrs	rig down Bown BOP stack & stripper head--rig up 5" riser with Otis tree and Baker lubricator--
	1½Hr	Run in hole with Baker guage tool 2 7/8" hadtight place at 8610'--- 9472' and tool stopped at 9525'--- COOH with wire line tools---
	1½Hrs	Run in hole with Baker sinker bars stopped 9130'---COOH---
	3½Hrs	rig down Otis and Baker lubricator rig up Bown BOP and stripper head in cellar deck---
	9½Hrs	pick up 64 joints 1 66 drill pipe and 2 3/8"drill pipe with 2 13/15" shoe on bottom--- go in 4½" tubing to 8511' broke circulating--
	½ Hr	Circulating
	½ Hr	wash down to 9130' and to 9153'
	0700	--washing at 9225'-----Note at 9130' did not find any indication of bridge or tight hole----returns are some black rubber and grey telflon-- mud going in at 15 5 cut to 15 oppg-- Mw: 15,5 , Vis: 44 in 58 out, Pv:27, Yp:16

DAILY REPORT DETAILED

LEASE 2/4 WELL NO. 3x SHEET NO. 9

DATE	TOTAL DEPTH	NATURE OF WORK PERFORMED
July 28, 10530PBD		5 Hrs wash from 9150' could not go any deeper-- 3 Hrs trying to clean hole--- 4½ HrsCOOH stand 2 3/8" drill pipe in derrick lay down 1.66 drill pipe 2½ hrs Rig down Bowen BOP and stripper head extend 5" riser to rig floor and rig up Otis tree and Baker lubricator-- 9 hrs run shifting tool to open sliding sleeve at 7772', 8735', 9022' had tight places at 9450' tool stuck worked free and came out of hole---had pieces of retainer band for psi sentry cable--rubber seal assembly in paker and junk iron from bridge plugs drilled on initial clean out---Running sand pump stopped at 9513' worked pump---would have gone deeper---will continue to run sand pump untill results are negative---0700 running sand pimp---Had thick heavy mud in sand pump from 9513'---Have 3/15" line on Baker wire line unit. Have 125m/tons bulk barite--85M/tons in SX---750 SX Class "E" cement--- Mw: 16,5, Vis: 44-45, Pv: 28, Yp: 17
July 29		6Hrs Running sand pump 8616-9633, tool stopped, POOH Found split on shoe of sand pump, dressed same WIH with sand pump, tight at 8587'. tool stopped at 9497', POOH Found split on sand pump shoe 2½Hrs Ran impression block, tight at 8526' stopped at 9512', COOH Impression block showed tubing parted at 9512' 1 Hr Rig down Baker lubricator and Otis test tree 7½ hrs WIH with 2 3/8 DP COOH laying down pipe 4½ Hrs Rig up, pull, and lay down 5" riser 2½ hrs Rig up, running 16" riser. Mw: 15,6, Vis: 49, Pv: 38, Yp: 18

DAILY REPORT DETAILED

LEASE 2/4 WELL NO. 3x SHEET NO. 10

DATE	TOTAL DEPTH	NATURE OF WORK PERFORMED
July 30		4½ Hrs Ran and latched 16" riser 3 Hrs Picked up 12 1/4" bit, 2 junk subs, BS, DC and drill pipe WIH to tubing hanger and washed with 3000 psi pump press 2Hrs Made up reentry tool on 4½" tubing, WIH and tried to latch into hanger, no success POOH 3½ hrs Dressed reentry tool WIH with bit and washed around tubing hanger. 1 Hr Ran reentry tool on 3 DC's and 5" drill pipe, latched into tubing hanger Found 800 psi in annulus below hanger 10 Hrs Circulate and condition mud Pumped 135 bbls before finding returns gas cut Minimum weight 10 ppg, at 0600 in 16 Oppg and out 15.7-15 Oppg Mw: 16,0, Vis: 50, Pv: 38, Yp: 17
July 31		4½ Hrs circulate and condition mud-- 1½ Hrs released reentry tool and cooh and pick up tubing hanger retrieving tool and run into tubing hanger and latched up pulled tubing hanger to rig floor-- 7½ Hrs laying down 4½" tubing--layed down 253 joints RKB--8585'--SLM 8284'--tubing collar on bottom of bottom joint is eggshaped-- 3 Hrs make up BHA-- 7½ Hrs picking up 5" drill pipe-- 0700 picking up 5" drill pipe Mw: 16.3 Vis: 48 Pv: 34 Yp: 16

DAILY REPORT DETAILED

LEASE 2/4 WELL NO. 3x SHEET NO. 11

DATE	TOTAL DEPTH	NATURE OF WORK PERFORMED
August 1 1-530 PBD		1 Hr Pick up 5" drill pipe and go in hole--Strapped in hole 1½ Hr circulating condition mud-correcte depth top of fish 8612' old measurement 8585' 1 Hr trying to get over fish 4½ Hrscooh-slm ½ Hr cut and slip drilling line 4 Hrs dressed overshot with 4½" grapple and go in hole ½ Hr circulating 1½ Hr fishing clould not get over fish 3½ Hrscooh 3½Hrs pick up Houston engineers spear and go in hole 1½ Hr circulating 1 Hr fishing with spear--spear pulles out of fish at 300001bs over weight of string--0700-- 1 fishing with spear -will cooh and run inpression block-- String weights 180000 without pump 172000 with pump---
August 2, 10530' PBD		1½ Hr Fishing with spear no success-- 2½ Hrs COOH-- 3½ Hrs pick up impression block and GIH-- 1 Hr cut and slip drilling line-- ½ Hr finish GIH-- ½ Hr circulating and set impression block on fish-- 2½ Hrs COOH-- 3 Hrs dressed overshot guide and control with tungston carbide 2½ Hrs go in hole with overshot ½ Hr circulate on top of fish-- ½ Hr milling of top of fish to get overshot over fish-caught fish--and pulled up 40'--gained 400001bs wt untill fish free above PKR--then lost 100001bs--fish wt 30000 -fishing string wt 1800001bs -now wt is 2100001bs think have all of 4½" tubing and 3½" tail pipe -

DAILY REPORT DETAILED

LEASE 2/4 WELL NO. 3x SHEET NO. 12

DATE	TOTAL DEPTH	NATURE OF WORK PERFORMED
August 2 Continued 10530 PBD		2 Hrs Circulating 3½ Hrs COOH with fish--0700---Circulati with 4 stds drill pipe BHA- and fish in hole--mud wt cut back to 14 Oppg--- When fish is layed down will go in hole with 2 3/8" stinger and drill pipe to circulate and condition hole and mud and see how much fill we have below PKR Mw: 16,3, Vis: 50 Pv: 34 YP: 17
August 3, 10530PBD		½ Hr COOH with fish 2½ Hrs circulating and cond mud at 570' gas and oil unloading from plugged fish-- 3 Hrs finish COOH to overshot Layed down overshot and fish-- 8½ Hrs COOH laying down fish-fish plugged with pieces of limestone, bridge plug junk--limestone from rock size to fine and coarse cutting size--Fish should have had a pin looking up -- first tubing pulled and layed from well head box down--fish had tubing collar looking up--we have one joint off and in hole with pin on each end--(on report No 72 SLM found top of fish 27' lower then it should have been--fish may have dropped off when COOH with first part of tubing string' Seal assembly was loose and came into above rotary table but slips were set--mule shoe joint was bent 4' from lower end 1 Hr lay down 3 stands of 3½" tubing from derrick 1½ Hr pick up overshot removed fish and found that fish had tubing collar looking up 4 Hrs RIH with bit and BHA 3 Hrs circulating 8585'--8795'--0700 -Circ-9145' mud cut to a low of 10 3 ppg Mw:16 1 Vis: 48 Pv: 32 Yp: 16

DAILY REPORT DETAILED

LEASE 2/4 WELL NO. 13x SHEET NO. 13

DATE	TOTAL DEPTH	NATURE OF WORK PERFORMED
August 4,	10530'	2 Hrs circulating at 9145' mud cut to low of 14. Oppg-- 2 Hrs circulate at 9495' mud cut to a low of 13.6 Oppg-- 4½Hrs circulated down to 9720'--mud in 15.5 ppg and out 15.5 ppg-- ½ Hr tag fish at 9788'-- 3 Hrs COOH-- 3 Hrs GIH with 7 3/4" Bowen overshot with 4½" basket grapple & with clustrite mill control-- ½ Hr slip drilling line ½ Hr fishing at 9788'-- 4 Hrs COOH chained out recovered 1 joint 4½" seal lock tubing--Collapsed flat except on thread ends eggshapped 1½Hr lay down fish--& overshot-- 2½ Hrspick up 28 joints 2 3/8" tubing EUE stinger--with bottom joint mule shoed--0700 GIH-- Mw: 15.5 Vis: 48 Pv: 32 Yp: 16
August 5,	10530' PBD	11½Hr Finish GIH with 2 3/8" tuging on 5" drill pipe--layed down 14 joints drill pipe circulate bottoms up 9800'-circulated down to 9950' (tagged packer at 9816') 9898' top of liner A-OK--Circulated 9950' mud 15.1ppg- circulated--circulated to 10250'- mud 14.6ppg circulated to 10498' mud 14.3ppg--10498' bridge--Lowest cut mud from bottom 12.0ppg 4½ Hrs Circulating 4½ Hrs COOH--layed down2 3/8" tubing 3½ Hr pick up Baker packer picker & GIH-0700-GIH-- Mw: 14.3 Vis: 47, Pv: 26, Yp: 16

DAILY REPORT DETAILED

LEASE 2/4 WELL NO. 3x SHEET NO. 14

DATE	TOTAL DEPTH	NATURE OF WORK PERFORMED
Aug, 6, 10530'		2½ Hrs finish go in hole with packer picker BAKER oit tool-- 5½ Hrs milling over packer at 9818'--OD of milling tool 8.312-- 9½ Hr chain out had tight places at each casing collar-when out of hole did not have packer lay down packer picker---recovered 5 to 6 lbs junk in junk baskets run above milling tool on packer picker--lost spring on catch on packer picker 3½ Hrs GIH with bit and slop drilling line--found packer 8930'---Drilled on packer with 8½" rock bit - drilled off 2" of Packer and mowved stuck packer down hole to 8957'--0700--circulated and condition mud--recovered lqt. rubber over shale shakers---- Mw: 14.3, Vis: 47, Pv: 24, Yp: 16.
Aug. 7 P.T.D. 10530' PBD		½ hr. Finish circulating cond mud 3½ hrs COOH recovered small amount of junk in baskets. SLM-ok 5 hrs Ran short bore protector and test plug and tested stack with 5000 psi ok. Hydrill with 2500 psi-ok-outside kill valve leaks. 2 hrs Pick up Houston engineers spear and GIH to 8300' 1 hr. Clip and cut drilling line ½ hr. Finish GIH to 8957' ½ hr. Speared into fish and push down to 8987' 8 hrs COOH slowly and chain out tight up to 8870' jard 3 times to loosen fish from 8987' to 8870'. Recovered 29" of packer Packer broke off in lower slip area.Left in hole bottom 9" of packer and 18' of seal protector. Had to cut packer off of spear 2½ hrs GIH with same BHA ½ hr. Circulating bottoms up before fishing 0630 fishing Mw: 14.4, Vis: 55, Pv: 10.7, Yp: 19

DAILY REPORT DETAILED

LEASE 2/4 WELL NO. 3X SHEET NO. 15

DATE	TOTAL DEPTH	NATURE OF WORK PERFORMED
Aug. 8		
P.T.D. 10530' PBD		
	½ hr.	Finish circulating bottoms up
	2 hrs	Tag fish 8987' push at 9898'. Fish to top of liner with 40/80000 lbs weight-tight places 9392'-9459'-9636'-9867'.
	9½ hrs	COOH chain out, lost fish on way out of hole. Had junk marks on bull nose on bottom of spear-spear body x-over B-sub-- pulled through tight places up t 8870'. Jars tripped 1 time
	3 hrs	GIH with Bowen reverse junk BSKT & 2 conventional junk baskets. Pushed fish from 9187' to 9802' had tight places sam as above
	1½ hrs	Circulate bottoms up-recovered 5 large pieces of packer rubber
	½ hr.	Push fish to 9898'
	½ hr.	Closed hydrill and reversed circulated
	½ hr.	Drop ball and circulated conventional but reverse through junk basket
	3 hrs	COOH--basket was mashed on 2 sides Recovered 2 pieces cable (lynes) and approx. 1 qt. small pieces- 4 to 5 lbs Baker packer junk inc. slips
	1½ hr.	Lay down basket
	1½ hr.	Pick up packer picker and GIH
	0700	GIH
	Mw: 14.4, Vis: 55, Pv: 25, Yp: 19	
Aug. 9		
P.T.D. 10530' PBD		
	2½ hrs	Finished GIH with packer picker-washed to top of fish 9831'
	2½ hrs	Milling on fish with packer picker-washed down to 9910'-bottom of packer picker--stinger-
	1 hr.	Circulate bottoms up
	3½ hrs	COOH-- lay down packer picker-lost catc sleeve on packer picker stinger--2" OD-X-6½" long--mill on stinger worn and rounded off--recovered few pieces packe junk in conventional junk baskets.
	3½ hrs	Pick up spear- 2 junk baskets and GIH Spear into fish 9898'
	5½ hrs	Chain out COOH--no drag--- recovered fish-- rest of packer left in hole 18' protector sleeve 5½" OD X 4 3/4" ID
	5 hrs	Pick up BHA 4 3/4" drill collars and 15 joints 3½" drill pipe-layed down 15 joints 5" drill pipe and GIH
	½ hr.	Circulate bottoms up before washing dow to fish in 7" liner
	0630	circulating

Note packer fish recovered shows it was laying on its side-on top of liner.

DAILY REPORT DETAILED

LEASE 2/4 WELL NO. 3X SHEET NO. 16

DATE	TOTAL DEPTH	NATURE OF WORK PERFORMED
Aug. 9 Continued		Mw: 14.3+,Vis: 47, Pv: 23, Yp: 14
Aug. 10		½ hr. Circulate and condition mud 9879'
P.T.D. 10530' PBD		1½ hr. GIH circulating trying to latch onto fish 10478'
		6 Hrs GOOH chain out no fish
		1 hr. Cut and slip drilling line
		3½ hr. GIH with 3 3/4" bit and COOH
		3½ hrs GIH with 6" bith at 9898'
		2½ hrs Circulate and wash down to 10478'
		1½ hrs Circulate and condition mud
		3½ hrs COOH junk subs recovered 2 quarts fine pieces of metal--1 piece lead pencil size of wire retainer ring--12" long
		½ hr. SCH--to log
		0630 GIH to run CBL
		Mw: 14.3, Vis: 46, Pv: 21, Yp: 14
Aug. 11		2½ hrs Running CBL--10478' to 9820'
P.T.D. 10530' PBD		2½ hrs Run CCL 10478' to 8800'
		3½ hrs Run wire line junk basket recovered small amount of junk
		2½ hrs Run baker model "M" bridge plug,could not fire charge to set paker COOH,top slips from bridge plug lost in hole
		3 hrs GIH with 6" bit and push junk from 9937' to 10478
		1½ hrs Circulate bottoms up
		3½ hrs COOH
		2½ hrs Run Johnston bridge plug and set in 7" liner at 9982' , COOH,
		½ hr. Closed blind rams and test 9 5/8" casing and liner pack off to 4100 psi for 30 minutes. A-ok
		2½ hrs Pulling 16" mud riser
		0700 Pulling riser
		Mw: 14.3, Vis: 48, Pv: 24, Yp: 19

DAILY REPORT DETAILED

LEASE 2/4 WELL NO. 3X SHEET NO. 17

DATE	TOTAL DEPTH	NATURE OF WORK PERFORMED
Aug. 12 P.T.D. 10530 PBD	24 hrs	Finish laying down 16" riser, run stinger and auto-lock and latch on stack close 4½" rams on stinger and pull stack to cellar deck (moved barge off location while pulling stack) changed out 2 3/8" rams to 5" and changed blind rams out, replaced with shear blind rams, tested stack to 5000 psi, Hydrill 2500 psi - outside choke valve leaked, changed out valve, A-ok. Ran stack, moved barge over well and latched up 145000 pull test, A-ok, laying down BOP landing string,
	0700	Running 16" riser
Aug. 13 P.T.D. 10530'	3 hrs	Finished running 16" mud riser
	1 hr.	Nipple up cellar deck
	2 hrs	Pick up BHA and test plug
	1½ hrs	Test bops, lay down test plug
	2½ hrs	Finish GIH and tag bridge plug at 9982'
	5½ hrs	Drilling bridge plug and push to 10478'
	4 hrs	Circulate and condition mud
	4 hrs	COOH and lay down 3½" drill pipe
	½ hr.	Rig up to run 5" liner
	0700	Running liner
	Mw: 14.3, Vis: 47, Pv: 28, Yp: 16	
Aug. 14 P.T.D. 10470'	8½ hrs	Running 18 jts 5" liner N-80-18lb-- F/J Hydrill - run on 5" drill pipe-shoe at 10470' top of liner 9745'
	2 hrs	Circulating before cementing
	½ hr.	Cemented with 180 sacks class "E" mixed with 19.5 bbl of mix water 16.2 slurry wt. - 8bbl fresh water ahead
	1½ bbl behind - displaced with 108 bbl mud bumpted plug with 1200 psi	
	1 hr.	Reversed out 17 bbl cement
	4½ hrs	COOH and lay down BO tools
	4½ hrs	GIH with 8½" bit and casing scraper to 9600'
	1 hr.	Scrape and clean casing to 9745'
	2 hrs	COOH
	0700	Making up 6" bith and BHA
	MW: 14.3, Vis: 50, Pv: 32, Yp: 18	

DAILY REPORT DETAILED

LEASE 2/4 WELL NO. 3X SHEET NO. 18

DATE	TOTAL DEPTH	NATURE OF WORK PERFORMED
Aug. 15		½ hr. Finish COOH
P.T.D. 10470'	PBD	½ hr. Repack wash pipe in swivel
		3½ hrs Make up bottom hole assembly and GIH
		1½ hr. Wash and clean out 9745' to 9764'
		3 hrs COOH
		4 hrs Pick up 24 joints 2 3/8" tubin and GIH with 4 1/8" bit
		1 hr. Slip and cut drilling line
		½ hr. Finish going in hole --10444'
		1½ hr. trying to break circulation & COOH to 9724'
		1 hr. Circulating
		2½ hrs GIH breaking circulation each stand
		4½ hrs Circulating and condition mud at 10468'
		0645 hrs COOH
		Mw: 14.3, Vis: 52, Pv: 33, Yp: 18
Aug. 16		4 hrs COOH
P.T.D. 10470'	PBD	11 hrs Rig up Schlumberger and make wire line junk basket run in 9 5/8" casing and 1 wire line junk basket run in 5" liner PERF--from 10465' to 10421' & 10350' to 10306' & 10306' to 10262' = 3 runs of 44' with 2 shots per ft. logged perforations
		3½ hrs Worked BOPS and GIH open ended
		3 hrs Reversed out recovered small amt. of junk
		2 hrs COOH laying down 5" DP
		0630 Laying down 5" drill pipe
		Mw: 14.3, Vis: 52, Pv: 32, Yp: 18
Aug. 17		3½ hrs Finish laying down 5" drill pipe
P.T.D. 10470'		1 hr. Made trip with 6 stands drill pipe with white paint on couplings to check low side of hole
		1½ hrs. Pull short bore protector and ran spacer packoff bushing
		1 hr. Ran 7" test plug and tested spacer pack off bushing with 5000 psi-A-ok.
		5 hrs Schlumberger ran wire line junk bskt. to 9740'-hole clean recovered no junk
		Ran and set Baker Model "DB" production packer 9700' with 18' seal protector on bottom
		12 hrs Running production string drifting each joint and steam cleaning. 23 joints tail pipe 27/8" EUE 6.7-J-55 with 3.4 OD couplings--bottom joint mule shoe with 15X1"

DAILY REPORT DETAILED

LEASE 2/4 WELL NO. 3X SHEET NO. 19

DATE	TOTAL DEPTH	NATURE OF WORK PERFORMED
Aug. 17 continued		holes in bottom 8'. Tested seal assembly with 5500 psi. Layed down 1X1' section leaking--all connections of seal baker locked. Testing each connection with Gator-Hawk to 6000 psi, checking electrical conductor on each joint--as ran in hole
		0700 COOH checking for electrical failure in psi sentry
Aug. 18		1 hr. GIH with 4½" seal lock tubing psi sentry
P.T.D. 10470'		failed 44 jts
		1½ hrs COOH 41 jts found sentry cable disconn. at top of instrument
		8½ hrs RIH 127 jts 4½" tubing--psi sentry faile
		3½ hrs COOH found dead short in instrument found dead short in back up instrument cannot be repaired--both instruments mus be repairedin Houston
		2 hrs Offload x-tree and lay down psi sentry
		7½ hrs Running tubing--without psi sentry-- 250 jts in at 0630.
Aug. 19		3½hrs Finish RIH with 4½" tubing string to
P.T.D. 10470' PBD		9600'
		3 hrs Circulate bottoms up
		1½ hrs Finish running space out string, landed seal assembly in packer with 8000 lbs, Test seal assembly with 300 psi, on annulus A-OK.
		16 hrs COOH & installed Baker model "A" safety nipple and RIH with 1/4" SS tube on high side of hole, installed slotted guides above and below safety nipple, spaced out tubing subs and made up tubing hanger, unable to test tubing hanger 5 port because annular ports to small for re-entry tool. Hanger manufactured under size by mistake, removed tubing hanger from base 4 port, made dive and connected junction box from G/Tide to 2/4-3X - X-tree and tested same from G/Tide, accumulator line leaked, made dive and installed new "O" rings in junction box, continued with test
		0630 Rig up X-tree on Cranco beams in cellar deck to test tree w/psi, No lost time
		Mw: 14.3, Vis: 55, Pv: 31, Yp: 18

DAILY REPORT DETAILED

LEASE 2/4 WELL NO. 3X SHEET NO. 20

DATE	TOTAL DEPTH	NATURE OF WORK PERFORMED
Aug. 20 P.T.D. 10470' PBD	9 hrs	Circulate slowly and finish rig up tree and install 4 port tubing hanger on tubing drift with re-entry tool A-ok. Finish (9hrs) test onPayne hose bundle, junction box and connection to down hole safety valve on tree--6000 A-ok. Accumulator 300 A-ok. Internially test tubing hanger with blanking plug below--5500psi,A-ok.
	1 hr.	RIH dummy mandrel in mod "A" safety valve nipple and psi test 1/4" SS line to safety valve with 10000 A-ok.
	1½ hrs	RIH with tubing hanger land and orient shr shear off,seal assembly has no weight set down on no-go--20' of seal through packer COOH with landing string
	3½ hrs	Run re-entry tool on 4½" riser and test riser with gator hawk 6000 psi, latch up and test 1/4" SS line with 10000 psi
	1½ hrs	Rig up Otis tree and Baker wire line lubri cator
	7½ hrs	Pulled dummy mandrel cleaned hose with Bra oil RIH and set plug in model "R" nipple 9725', PSI tubing to 5400 A-ok-ret-plug--RIH open sliding sleeve-9537'-ran plug in "R" 9725' psi tubing annulus to 3000 test seals on sealing nipples in Baker packer and packoff in tubing hanger A-ok,pull plu in "R" nipple, ran and set "ANP" plug in " "A" nipple 576'
	Mw: 14.3, Vis: 50, Pv: 31, Yp: 17	
Aug. 21 P.T.D. 10470' PBD	2 hrs	Set B "1" plug in "F" nipple--336' psi tes "O" ring leaked--pull plug and dress with new "O" rings and re-run to 336' test to 3000 psi A-ok
	4 hrs	Rig down lubricator and "Otis" tree, re-lease re-entry tool COOH laying down 4½" riser, made dive No 1 to disconnect junctio box, COOH choke and kill line and pull yellow pod
	1 hr.	Rig down cellar deck
	2½ hrs	Pull 16" mud riser
	6 hrs	Pull BOP stack and secure on cellar deck
	8½ hrs	Rigging x-tree and made dive no 2, to check orientation of tubing hanger, check hanger to be clean of debre-check seal are of 13 5/8" well head, install flow line dow commers on x-tree, test with 7500 psi A-ok

DAILY REPORT DETAILED

LEASE 2/4 WELL NO. 3X SHEET NO. 21

DATE	TOTAL DEPTH	NATURE OF WORK PERFORMED
Aug. 21 continued		Attach hose to swab valve, hose to test port-2 hoses to autolock on tree, open and close all hose operated valves, orient tree on Guide lines to conform to orientation of tubing hanger, annulus ports
		0630 Running tree
Aug. 22 P.T.D. 10470' PBD		18 hrs Ran tree and 2 3/8" on service line, landed tree with 5" landing string (DP) pull test to 110000 lbs, 7000 psi on tree test port tested- laurent seal in auto-lock--tubing hanger packing A-ok, made dive disconnect test hose, closed valve and chained auto-lock in closed position with turnbuckel--to guide base--tested 2 3/8" service line with 2500 psi A-ok. COOH with landing string, ran 5" riser, test tree and 5" riser with 5600 psi, displace riser with x-c-polymer, rig up baker wire line lubricator and retrieve "B" plug in"F" nipple at 336', and "ANP" plug in "A" nipple at 576' psi test lubricator to 6000 psi A-ok, displace mud in tubing with 25 bbl x-c polymer-ahead and 117 bbl drill water-tot 123 bbl--9337', closed sliding sleeve and COOH with shifting tool, psi annulus with 2500, A-ok.
		6 hrs Conn. dead wt. tester, open well to flow line 0020 hrs, 1½" choke---psi bled down to 0 from 3100 psi immediately--flow to BJ tanks for 4 hrs rec. 90 bbl load water--turned through burner-0450 hrs--c-c polymer to surface 0515 hrs small amt. gas through burner 0530 to 0600 hrs 1½" choke still unloading x-c polymer 75 psi tubing psi 0800 unloading barite slugs 300 psi
Aug. 23 P.T.D. 10470' PBD		23 hrs Continued to flow well through flare line to clean up--oil to surface 0700 hrs Aug. 22-71. Flowed large amounts of drilling mud very viscious by heads, tubingpsi varied 200 to 240 psi leveled out 210 psi oil 38 corrected gravity at 60 degr. F, grind out .01 drilling mud turned through test separator--0500
		1 hr. Flowing through test separator and leveling out separator-choke size 1"--FTP--550 psi at 0630----at 768 pbd--GOR 890, gravity 38 corr. at 60°F still leveling out separator rate up to 1200 pbd= 0640 hrs

2000-1-69. Gardum

DAILY REPORT DETAILED

LEASE 2/4 WELL NO. 3X SHEET NO. 22

DATE	TOTAL DEPTH	NATURE OF WORK PERFORMED
Aug. 24 P.T.D. 10470'	5 hrs	Flowing well through test separator, final flowing tubing psi, 610, rate 1240 bopd, 1" choke.
	9½ hrs	well on test psi build up 3950 psi
	½ hr.	Pumped 52 gal. control no 147 mixed with 110 gal. alcohol & 10 bbl diesel, worked all hydraulic valves (except annulus valve) 4 times after flushing in water
	2½ hrs	Rig up & test frac-head and all lunes with 6000 psi- A-ok.
	4 hrs	Acidizing (brief summary report will be on chopper comp) pumped 433.8 bbl sac & 433.8 bbl acid 40 bbl diverting agent-208 bbl pre-flush treated sea water- 145.8 bbl of flush untreated sea water--total fluid pumped 1261.4 bbl, fluid in formation 1101.6 bbl max, treating psi-5800--min-4200 psi max -pump rate 14 bpm min 4 bpm--break down 4500 psi- 1.5 bpm up to 9 bpmup to 14 bpm when acid hit formation
	2 hrs	Well shut in acid working on formation tubing shut in psi 2500 annulus psi 900
	0645	Open well to flow well, came in strong well like the 2x in appearance- 2 burners in operation to clean up
	Note:	Acidizing chart is a good one, can tell each time diverting agent opened new perforations
Aug. 25 P.T.D. 10470' PBD	1hr.	Well shut in for acid to work on formation
	6 hrs	Flowing well through burner to clean up
	1 hr.	Well shut in to repair burst plate on seperator
	6 hrs	Well flowing on test 26/64 choke FTPSI 3610 dead weight tester--annulus 500 psi, temp. 89° gas 2996245--3074 BOPD-GOR 975/1 Gravity 37.8 60° api corrected--bsw = 1% emulsion
	3 hrs	Attempt to set safety valve with well shut i valve leaked POH-and changed out valve reran and tested with 6000 psi A-ok
	1 hr.	Bled psi off tubing observe psi A-ok
	6 hrs	Well shut in on test--in
	10½ hrs	Well psi from 3610 up to 4015 psi
	0700	Well shut in
		Have small leak in safety valve operating psi, think is between rig floor and tree, will make dive and close valve ½" and test lines.

DAILY REPORT DETAILED

LEASE 2/4 WELL NO. 3X SHEET NO. 23

DATE	TOTAL DEPTH	NATURE OF WORK PERFORMED
Aug. 26 P.T.D. 10470'PBD	3 hrs	Finish shut in test final shut tbg psi 4200
	21 hrs	Close master valve and made dive to install spool on flow line and close needle valve on x-tree--tested connections and lines from x-tree back to surface through junction box with 6000 psi, no leak--flowed well through burner safety valve psi and FT psi within 300 psi of the same, have communication. Rig up lubricator, could not get 3/16" line to go through stuffing box, changed out to .092 wire line, pulled safety valve and ran seperation sleeve, tested same with 6000 psi down to tbg. psi in less than 1 minute, made dive and connected otis hose to down hole safety valve direct, pressured up to 6000 psi, bled down to 4000 psi in 1 minute. Diver COOH---0600
Aug. 27 P.T.D. 10470'PBD	1 hr.	Diver change Otis hose from tree test port to Safety valve connection on tree, tested same.
	4 hrs	Pressured up on safety valve in A"A nipple on rig floor to 6000, ok after changing seals
	2 hrs	Pressured up on riser with 4100 psi, ran in hole and pulled separation sleeve and ran safety valve.
	2½ hrs	Tested safety valve to 6000 psi in 35 min Pressure down to 5275 psi, pressured up to 6000, pressure immediately, pump running 41 strokes.
	14½ hrs	Attempting to pull safety valve, lost pulling tool on top of safety valve when wire line broke, fishing for tools, knuckle joint backed off after 5 runs leaving overshot, 2 jars and sinker bars in tubing above fish no 1,
	0630 hrs	Laying down fish no 2
	0730 hrs	Laying down fish no 1 and safety valve.

DAILY REPORT DETAILED

LEASE 2/4 WELL NO. 3X SHEET NO. 24

DATE	TOTAL DEPTH	NATURE OF WORK PERFORMED
August 28 P.T.D. 10470' PBD	1 hr.	Fishing and recovered all Baker wire line tools
	3 hrs	Closed annulus and master valve and made dive to connect spool to flow line
	1½ hrs	de-compressing divers, waiting on seals for safety valve
	1½ hrs	Pressured up on riser, opened master valve and run safety valve
	2½ hrs	PSI test safety valve to 6500 psi Stabilized 6100 psi A-ok
	3 hrs	Close safety valve open well through burner for 6 minutes then died, observed well safety valve holding A-ok.
	2 hrs	Rig down Baker lubricator mixed 52 gls K-147-2½ bbl methonol 10 bbl diesel, pumped down riser 100 psi and worked all hydraul valves 3 times (except annulus valve) left all hydraulic valves in closed position--manual master open
	1½ hrs	Pulled and layed down 5" riser
	4½ hrs	Run 10000 psi corrosion cap, made dive tighten all set screws in locking segments and closed needle valve on cap, disconnect swab valve hose and close needle valve on swab valve, disconnect payne hose bundle.
	3½ hrs	Made dive no 3 to disconnect annular hos (2 3/8" tbg) and guide lines
	0700	Decompressing divers, orienting upper bod on BOP stack. Annulus hose not disconnected divers having trouble with union 2" and cameron clamp.
Aug. 29 P.T.D. 10470' PBD	1 hr.	Finish dive to disconnect annular hose, no success
	10 hrs	WOW and divers decompressing-orient upper body in BOP stack for well 2/4-1AX. Test stack to 5000 psi, laurent seal on test stump leaking, will change out before running
	2 hrs	Made dive No 1, disconnect annular hose and 1-2 guide lines leaving all 4 guide spears in PGB unable to retrieve.
	1½ hrs	Anchors rig 50' aft and landed spar buoy marking 2/4-3X location--using 1 m x 1½m concrete weight for anchor.
	4½ hrs	Pumping up barge to towing draft and preparing to move

DAILY REPORT DETAILED

LEASE 2/4 WELL NO. 3X SHEET NO. 25

DATE	TOTAL DEPTH	NATURE OF WORK PERFORMED
August 29, continued	5 hrs	Running in anchors no 1,3,4,5,6,7 leaving out 2 and 8 to retrieve, anchor no 6 chain broke at fair lead near anchor bolster, No 6 anchor on board supply boat and retrieving chain. 0700 retrieving 2---8 0915 Aug. 29, Last anchor bolstered 2/4-3X final report.

PHILLIPS PETROLEUM COMPANY
COMPOSITE LOG

COMPANY: PHILLIPS PETROLEUM — WELL NUMBER: 2/4-3x — COUNTRY: NORWAY

LOCATION: LAT. 56° 30' 47·9" N, LONG. 03° 12' 39·5" E — LICENCE BLOCK: 2/4 — PRODUCTION LICENCE: 0.18

DATE SPUDDED: 21st. JUNE, 1970 — DATE COMPLETED: 1st AUGUST, 1970 — STATUS: Plugged & temporarily abandoned

ELEVATION: KB 89' — DF 88' — BTM FLANGE — WATER DEPTH 233'

TOTAL DEPTH: 11,234' — PBTD

CASING RECORD: 30" at 442' : 20" at 1961' : 13⅜" at 5377' : 9⅝" at 10149' : 7" liner at 11232' (Top at 9898')

TESTING AND COMPLETION SUMMARY: For testing summary see right hand side of log from 10,200 to TD.

REMARKS: RIG: OCEAN VIKING

Geologist: P.L.S. MAGUIRE, E.L. BENOIT, F.W. VOLLENWEIDER.


LOCATION MAP

03° 00' E — 03° 20' E — 1/6 — 2/4 — 2/5 — 56° 45' N — 2/4-3x — 1/9 — 2/7 — 2/8 — 56° 30' N — NORWAY — U.K.

Lithologic Symbols

Limestone, Dolomite, Dolomitic Limestone, Argillaceous Limestone, Sandy Limestone, Silty Limestone, Coquina Ls (50% fossil), Chalk, Marl, Gypsum, Anhydrite, Salt (NaCl), Salt Mold, Potassium Salt, Sylvite, Carnallite, Polyhalite, Kainite, Conglomerate, Sandstone, Siltstone, Granite Wash (Arkose), Breccia, Sandy Shale, Silty Shale, Shale - Clay Red-Green-Gray, Shale Dark gray - Black, Calcareous Shale, Dolomitic Shale, Coal, Chert, Pyrite, Fossils, Oolites, Glauconite, Siderite, Limonite Nodules, Phosphate Nodules, Carbonate Nodules, No Samples, Bentonite, Cement, Show Gas / Show Oil, Gas Positive DST, Ashphalt

SCALE 1:500



DST SUMMARY

DST No. 1 Perforations 10,740' - 10,770'

IHP - 8184 psi
IFP - 10 minutes - 4980 psi - 1" choke
ISIP - 2 hr. 30 mins. - 7169 psi
FFP1 - 8 hr. 20 mins. - 4585 psi - 1" choke
FSIP - 10 hr. - 7066 psi
FFP_2 - 2 hr. 30 mins. - 4650 psi - 1" choke
FHP - 8146 psi

Recovery-water at rate of 250 BWPD

DST No. 2 Perforations 10,650' - 10,680'

IHP - 8040 psi
IFP - 10 minutes - 4762 psi - 1" choke
ISIP - 28 minutes - 4762 psi
FFP - 1 hr. 47 mins. - 4854 psi - 1" choke

Recovered - 100' GCM

DST No. 3 Perforations 10,606' - 10,616'

IHP - 7998 psi
IFP - 10 minutes - 4795 psi - 1" choke
ISIP - 2 hr. 30 mins. - 7121 psi
FFP - 9 hr. - 4437 psi -1" choke
FSIP - 10 hr. - 7060 psi
FHP - 7973 psi

Recovered - water at rate of 30 BWPD. Resistivity of water 0.376 at 60°F (appears to be contaminated formation water)

DST No. 4 Perforations 10,561' - 10,581'

IHP - 7995 psi
IFP - 1 hr. 56 mins. - 1411 psi two ¾" chokes
FFP - 10 hr. - 2259 psi two ¾" chokes
FSIP - 10 hr. - 7083 psi
FHP - 8132 psi

Recovered - 1040 BOPD, Gvty. 34.2° API, 961.9 MCFPD 925 GOR

DST No. 5a Perforations 10,420' - 10,500'

IHP - 7957 psi
IFP - 10 minutes - 4826 psi - 1" choke
ISIP - 2 hr. 30 mins - 7143 psi
FFP_1 - 10 hr. - 6552 psi - 11.5/64" choke
FSIP - 10 hr. 10 mins. - 7095 psi
FFP_2 - 3 hr. 30 mins. - 6638 psi - 10/64" choke
FFP_3 - 6 hr. 20 mins. - 3334 psi - two ¾" chokes
FHP - 7960 psi

Recovered - 2719 BOPD, Gvty. 35.3° API 2.744 MMCFPD 1009 GOR

DST No. 6 Perforations 10,375' - 10,390'

IHP - 7898 psi
IFP - 18 hr. 30 mins - 4664 psi
FSIP - 10 hr. - 6844 psi
FHP - 8023 psi

Recovered-reversed out ¼ bbl oil, 2 bbls O+GCM

DST No. 7 Perforations 10,260' - 10,340'

IHP - 7841 psi
IFP - 10 minutes - 4650 psi
ISIP - 2 hr. 30 mins - 7093 psi
FFP - 15 hr. 41 mins - 1398 psi - two ¾" chokes
FSIP - 10 hr. - 6772 psi
FHP - 7828 psi

Recovered - 686 BOPD, Gvty. 35° API, 969 MCFPD 1412 GOR

DST No. 8 Perforations 10,260' - 10,340'; 10,375' - 10,390'; 10,420' - 10,500'

IHP - 7963 psi
FFP_1 - 6 hr. 30 mins. - N.R.-10.5/64" choke
FFP_2 - 3 hr. 15 mins. - 6585 psi - 10.5/64" choke
FSIP - 10 hr. - 7074 psi
FFP_3 - 10 hr - 4366 psi - two ¾" chokes
FHP - 7920 psi

Recovered - 3779 BOPD, Gvty. 35.6° API, 4.010 MMCFPD 1023 GOR

PHILLIPS PETROLEUM 2/4-3x