

DST No. 3

Well 2/4-4 AX

Perfs. 10,130 to 10,150

No.	O.D.	I.D.	Description	Length	RKB Depth
1			Baker Test Head		
1			Hydril Valve (Less Tubing above RKB)	-10.00	
2 subs					
8 jts	3.500	2.992	Tubing, 3½" EUE 8Rd. N-80	267.01	257.01
1 sea			Otis Tree, slick Jt. & Hanger	20.00	277.01
302jts	3.500	2.992	Tubing, 3½" EUE 8 Rd N-80	9328.78	9605.79
1			Cross-over 3½"EUE x 3½ I.F.	1.00	9606.79
1	4.750	2-5/16	Bumper Sub w/5' Travel	15.00	9621.79
12	4.750	1.750	DCS	356.25	9978.04
1	3.500	2.441	Cross-over 3½ IF x 3½ x 2-	2.70	9980.74
1	4.500	2.490	B.J. Unloader	1.70	9982.44
1	5.884	2.441	B.J. FFC Packer	5.80	9988.24
1	7.500	2.441	Cross-over, 3½ x 2-7/8 EUE w/Collar	.70	9988.94
3	3.500	2.992	Tubing, 3½" EUE 8 Rd. N-80	93.90	10082.84
1	"	"	" " " Perf. Jt. w/1"holes	31.82	10114.66
1	"	2.441	Cross-over 3½ x 2-7/8 EUE w/collar	.70	10115.36
1	3.500	2.500	Recorder Hanger No. 2758	1.00	10116.36
1	"	"	" Case	4.00	10.120.36
1	"	"	" Hanger No. 2760	1.00	10.121.36
1	"	"	" Case	4.00	10.125.36
1	"	"	" Hanger No. 4180	1.00	10.126.36
1	"	"	" Case	4.00	10.130.36
			Bottom of string		10.130.36
			Overall length	10140.36	



PHILLIPS PETROLEUM COMPANY

Well 2/4-4AX

TEST STARTED: 07.30 August 21, 1970

TEST COMPLETED: 11.15 August 21, 1970

DST NO. 3 SUMMARY

DEPTH OF PRESSURE RECORDER: No. 2758 at 10116, No. 2760 at 10121 & No. 4180 at 10126, Packer at 9988

Operation	Time		Length of Test		Choke Size	Wellhead		Gas MMCFD	Oil BPD	GOR Cu.Ft./STB	Water BPD	BHP PSIA
	From	To	Hrs.	Mins.		Press PSIA	Temp °F					
IF	0730	0740	00	10	1"	0	N.R.	0	0	0	0	
ISI	0740	1010	2	30	0	0	N.R.	0	0	0	0	
FF	1010	1115	1	15	1"	0	N.R.	(Pressure tbg. to 5000 psi twice, attempting to flow into formation).				481
	IHP			7732 psig								
	FHP			7737 "								
<p><u>NOTE:</u> Bottom hole charts indicates that the Otis Test Tree was closed throughout the test except immediately prior to releasing the packer. Formation had 9111 psi bottom hole pressure for 112 minutes before Otis Valve opened. Valve was open for 17 minutes with a BHP = 4801 psi prior to releasing packer.</p>												



DRILL-STEM TEST DATA

Well Name	Fko Fisk	Test No	Three
Well Number	2 - 4 - 4 AX	Zone Tested	
Company	Phillips Petroleum Company, Norway	Interval	10130 - 10150
Comp Rep	Mr. O.C. Rolfs	Tester	B.J. Flahr
		Date	20/8/70

Type of Test _____ R F S Tool No. _____

Pretlow 10 mins ISI 150 mins Flow 60 mins FSI _____ mins

Specify Inside or Outside	INS REC No <u>2758</u>	INS REC No <u>2760</u>	OUT REC No <u>4180</u>
	<u>10500</u> RANGE <u>72</u> HR CLOCK	<u>10600</u> RANGE <u>72</u> HR CLOCK	<u>15500</u> RANGE <u>72</u> HR CLOCK
DEPTH	<u>10116</u>	<u>10121</u>	<u>10126</u>
Initial Hydro Mud Press			
Initial Shut-In Press			
Initial Flow Press			
Final Flow Press			
Final Shut In Press			
Final Hydro Mud Press			

Mud Drop _____ Fluid Loss 7 Mud Weight 14.3
 Viscosity 46 Temperature °F 259 Net Pay Tested _____
 Top Packer Depth 9982 Bottom Packer Depth _____ Total Depth 10160
 Drill Pipe Size 3 1/2 In. Tubing Wt. 9.3 Drill Collar I.D. 1.750 Ft Run 356
 Surface Choke Size Adjustable Bottom Choke Size 1 1/2" Main Hole Size 7" 29# Cast
 Anchor Size 3 1/2" Rat Hole Size _____ Feet of Rat Hole _____
 Cushion Amount 86 BBLs Type Sea Water Rubber Size 5.812

Fluid Recovery Total Feet _____
 Recovered _____ Feet of _____
 Recovered _____ Feet of _____
 Recovered _____ Feet of _____
 Recovered _____ Feet of _____
 Recovered _____ Feet of _____

Gas Recovery How Measured _____ Riser size: _____

_____ mins	Temp. F	Press Rdg. _____ psi	Orifice Size _____	=	_____ MCF/Day
_____ mins	Temp. F	Press Rdg. _____ psi	Orifice Size _____	=	_____ MCF/Day
_____ mins	Temp. F	Press Rdg. _____ psi	Orifice Size _____	=	_____ MCF/Day
_____ mins	Temp. °F	Press Rdg. _____ psi	Orifice Size _____	=	_____ MCF/Day
_____ mins	Temp. °F	Press Rdg. _____ psi	Orifice Size _____	=	_____ MCF/Day
_____ mins	Temp. °F	Press Rdg. _____ psi	Orifice Size _____	=	_____ MCF/Day

Bleed Off Time for Drill Pipe _____

REMARKS _____

DRILL STFM NUMBER THREE

Baker Test Head		
Hydril Valve		
Tubing 8 Jts. 2 pups	267.01	
Otis Test Tree	20.00	
302 Jts. Tubing 3½" Euc 8 rd N-80	9328.78	
X-Over Sub	1.00	
Bumper Sub	15.00	
Drill Collars	356.25	
X Over Sub	2.70	
B.J. Unloader	1.70	
B.J. F.F.C. Tool	5.00	9988.94
X Over Swage & Collar	.70	
3 Jts. Tubing	93.90	
1 Jts. Perf	31.82	
Swage & Collar	.70	
Recorder Hanger # 2758	1.00	10116
Recorder Case	4.00	
Recorder Hanger # 2760	1.00	10121
Recorder Case	4.00	
Recorder Hanger # 4180	1.00	10126
Recorder Case	4.00	

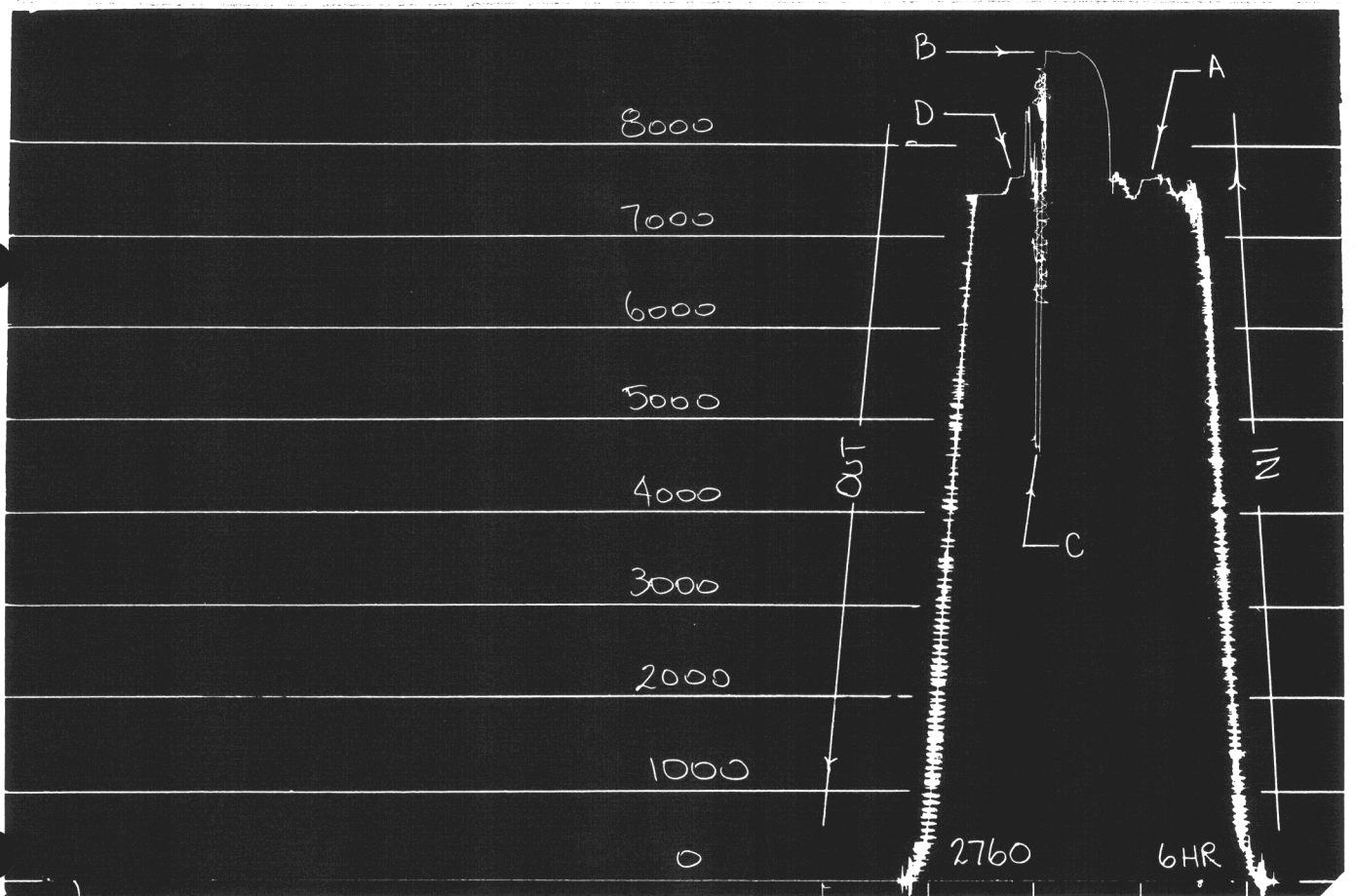
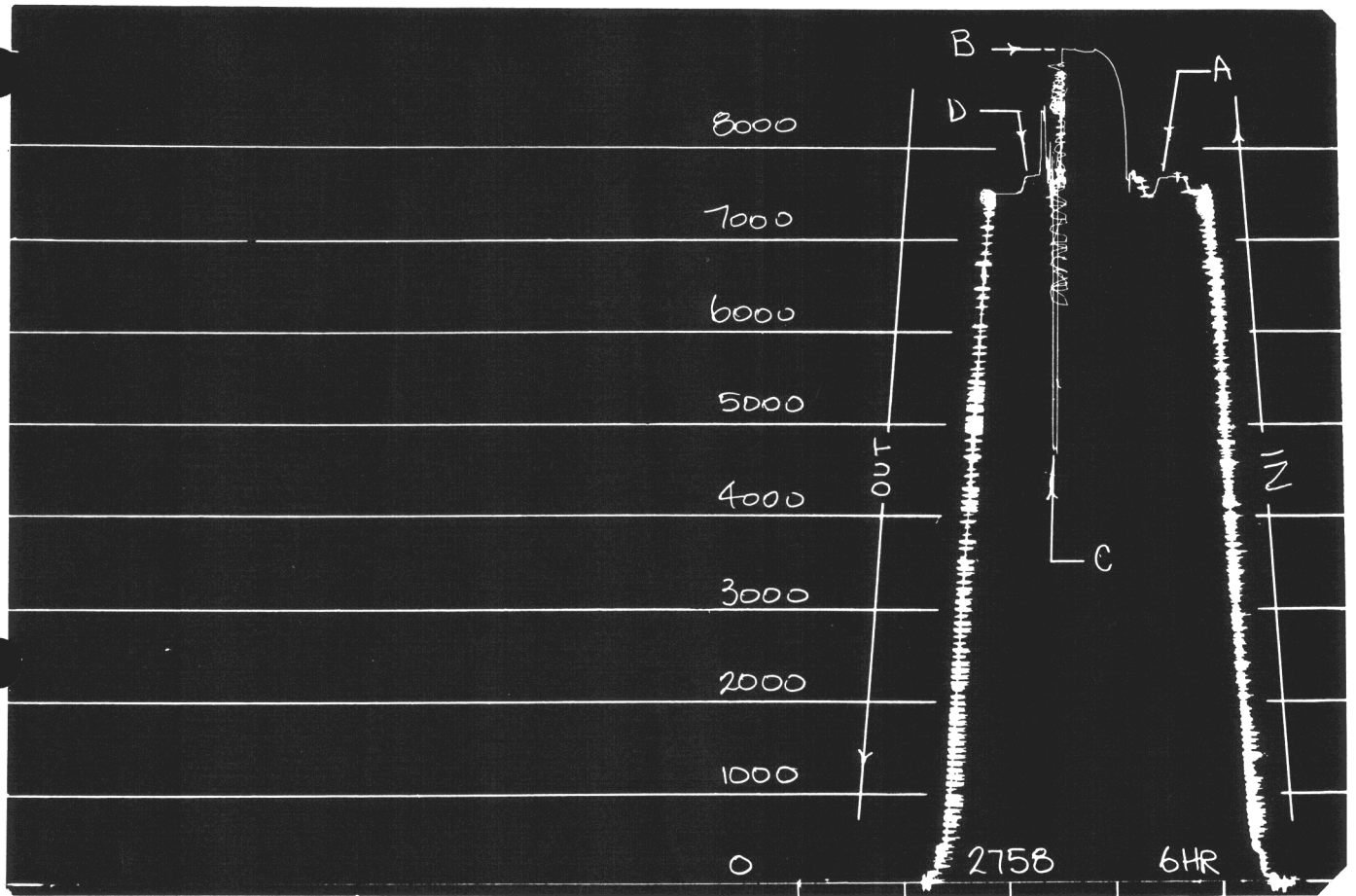
DRILL STEM TEST NUMBER THREE

<u>POINT</u>	<u>RECORDER # 2758</u>	<u>RECORDER # 2760</u>	<u>RECORDER # 4180</u>
A	7670	7656	7639
B	9062	9042	9039
C	4735	4728	4578
D	7675	7662	7639

DRILL STFM TEST NUMBER THREE

Operation	Time		Length of Test		Choke Size	Wellhead	
	From	To	Hrs.	Mins		Press PSIA	Temp OF
I.F.	0730	0740	00	10	1"	0	N.R.
I.S.I.	0740	1010	2	30	0	0	N.R.
F.F.	1010	1115	1	05	1"	0	N.R.
	(Pressure tbg. to 5000 psi twice attempting to flow into formation)						
I.H.P.	7732 psi						
FH.P.	7737 "						

NOTE: BOTTOM HOLE CHARTS INDICATES THAT THE OTIS TEST TREE WAS CLOSED THROUGH OUT THE TEST EXCEPT IMMEDIATELY PRIOR TO RELEASING THE PACKER. FORMATION HAS 9111 psi BOTTOM HOLE PRESSURE FOR 112 MIN. BEFORE OTIS VALVE OPENED. VALVE WAS OPEN FOR 17 MINS. WITH A BHP = 4801 psi PRIOR TO RELEASING PACKER.



9000

8000

7000

6000

5000

4000

3000

2000

1000

0

OUT

B

D

C

A

Z

4180

6HR

