OSLO

D. S. T. REPORT

DRILL STEM TEST DATA

Well Name	Phillips 7-11-1X	Test No.	1
Well Number	7-11-1X	Zone Tested	I
Company	Phillips Petroleum Company	Interval	10,248 - 10,370
Comp. Rep.	Mr. J. Fetters	Tester H. Price	Date May 26-28th, 1968

BJ
BORG WARNER

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TESTING REPORT

DRILL-STEM TEST DATA

Well Name **Phillips 7-11-1X**		Test No **1**	
Well Number **7-11-1X**		Zone Tested **I**	
Company **Phillips Petroleum Company**		Interval **10,248 - 10,370**	
Comp. Rep **Mr. J. Fetters**	Tester **H. Price**	Date **May 26-28th, 1968**	

Type of Test **Open Hole** R F S Tool No

Preflow **15** mins ISI **480** mins. Flow **185** mins. FSI **420** mins

Specify Inside or Outside	**Ins.** REC No **2758**	**Outs.** REC. No **2759**	REC. No
	10600 RANGE 72 HR CLOCK	10650 RANGE 72 HR. CLOCK	RANGE HR CLOCK
DEPTH	10,340	10,345	
Initial Hydro Mud Press	6754	6756	
Initial Shut-In Press	5202 – 5450	5205 – 5453	
Initial Flow Press	3758	3762	
Final Flow Press	3880	3882	
Final Shut-In Press	4919	4921	
Final Hydro Mud Press	6754	6756	

Mud Drop **Nil** Fluid Loss **13.0** Mud Weight **12.6**

Viscosity **43** Temperature °F **256** Net Pay Tested **20**

Top Packer Depth Bottom Packer Depth **10,214** Total Depth **10,370**

Drill Pipe Size **3½" E.V.E.** Wt **9.3** Drill Collar I.D. **2¼"** Ft. Run **283.21**

Surface Choke Size **3"** Bottom Choke Size **2" ID Bumper Sub** Main Hole Size **8½" 9 5/8"**

Anchor Size **3½" EVE Tubing** Rat Hole Size Feet of Rat Hole

Cushion Amount **10,351** Type **6.9#/gal. Diesel** Rubber Size **8 1/8"**

Fluid Recovery Total Feet **10,351**

Recovered **10,214** Feet of **Clear diesel oil**

Recovered **137** Feet of **Dark brown diesel oil containing droplets of crude oil**

Recovered Feet of

Recovered Feet of

Recovered Feet of

Gas Recovery How Measured **Nil** 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 **1. Preflow rate - 3 Bbls. per hour 2. After 4 hrs. 25 mins. of ISI, a surface leak occurred requiring repair. As a result of leak, 11.5 gals of diesel escaped from test string. This loss of fluid reduced the surface pressure to 321 psi. 3. On final flow, flowed at 3 Bbl. per hr. for 10 mins., reduced to 30 gal. per hr. for 10 mins., reduced to 8 gal per hr. and continued same throughout flow period. Reversed out after pulling tool loose.**

Core Lab Gas Cont. No Chem - Geo Lab Gas Cont No

BJ
BORG WARNER

TESTING REPORT

	4S LANDING SUB		
	4S CHAMBER		
	4S TOOL OR P.O. SUB		
	CO SUB	Drill pipe-pup joint	185.80
		P.B. Bumper Sub	22.36
		CO Sub	0.80
		5" Drill pipe	89.00
		Otis Test Tree	22.80
		$3\frac{1}{2}$" E.V.E. Tubing	9577.78
	RECORDER No.	DEPTH	
	RECORDER No.	DEPTH	
		CO Sub.	1.66
		P.B. Bumper Sub	21.73
1. PACKER DEPTH		CO Subs + Drill Collars	285.61
2. PACKER DEPTH 10,214	PACKER	Baker Retrievamatic	5.82
	ANCHOR—SPECIFY		1.00
		3 Joint Tubing	91.02
		CO Subs + Perf. Tubing	33.17
	BLANK OFF OR BY PASS SUB		
	RECORDER No. 2758	Ins.	5.00 DEPTH 10,340
3. PACKER DEPTH	PACKER		
4. PACKER DEPTH	PACKER		
	ANCHOR—SPECIFY		
	RECORDER No 2759	Outs.	5.00 DEPTH 10,345
	BULLNOSE		2.45

Otis Test Tree: $2\frac{1}{2}$" - 5000 psi at 321 R.K.B.

TOTAL TOOL ABOVE INTERVAL 10,233.36

TOTAL INTERVAL 156.00

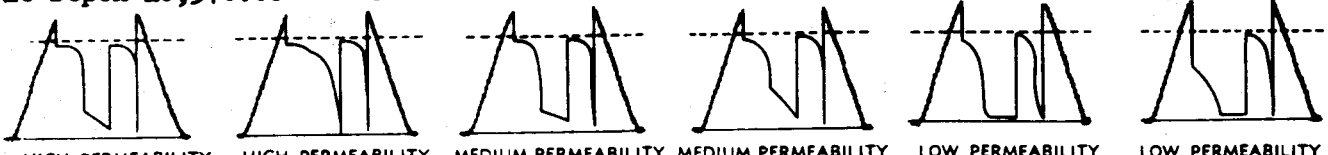
TOTAL TAIL PIPE 137.64

TOTAL TEST TOOL 10371.00

TOTAL DEPTH 10,351.24

Total Hole Depth 10,370.00

DST CHARTS FOR COMPARATIVE VISUAL ANALYSIS



HIGH PERMEABILITY STRONG DAMAGE EFFECT | HIGH PERMEABILITY NO DAMAGE EFFECT | MEDIUM PERMEABILITY STRONG DAMAGE EFFECT | MEDIUM PERMEABILITY NO DAMAGE EFFECT | LOW PERMEABILITY STRONG DAMAGE EFFECT | LOW PERMEABILITY NO DAMAGE EFFECT

DST PRESSURE INCREMENTS

OF INITIAL SHUT-IN

Recorder No. 2758 Depth 10,340

Points								
	Time Defl. "	T+θ	$\frac{T+\theta}{\theta}$	PSIG	Time Defl. "	T+θ	$\frac{T+\theta}{\theta}$	PSIG
1	0	0.5		3799	360	6.5	1.08	5113
2	15	0.75	3.0	3962	375			5159
3	30	1.0	2.0	4121	390	7.0	1.08	5202
4	45	1.25	1.67	4248	405			5245
5	60	1.50	1.50	4356	420	7.5	1.07	5288
6	75	1.75	1.40	4453	435			5326
7	90	2.0	1.33	4534	450	8.0	1.067	5369
8	105	2.25	1.29	4607	465			5410
9	120	2.50	1.25	4677	480	8.5	1.063	5450
10	135	2.75		4741				
11	150	3.0	1.20	4803				
12	165	3.25		4860				
13	180	3.50	1.17	4908				
14	195	3.75		4962				
15	210			5013				
16	225	4.25	1.13	5059				
17	240	4.50		5105				
18	255			5148				
19	270	5.0 Surface leak	1.11	5202				
20	285			4695				
21	300	5.5	1.10	4878				
22	315			4940				
23	330	6.0	1.09	5000				
24	345			5056				

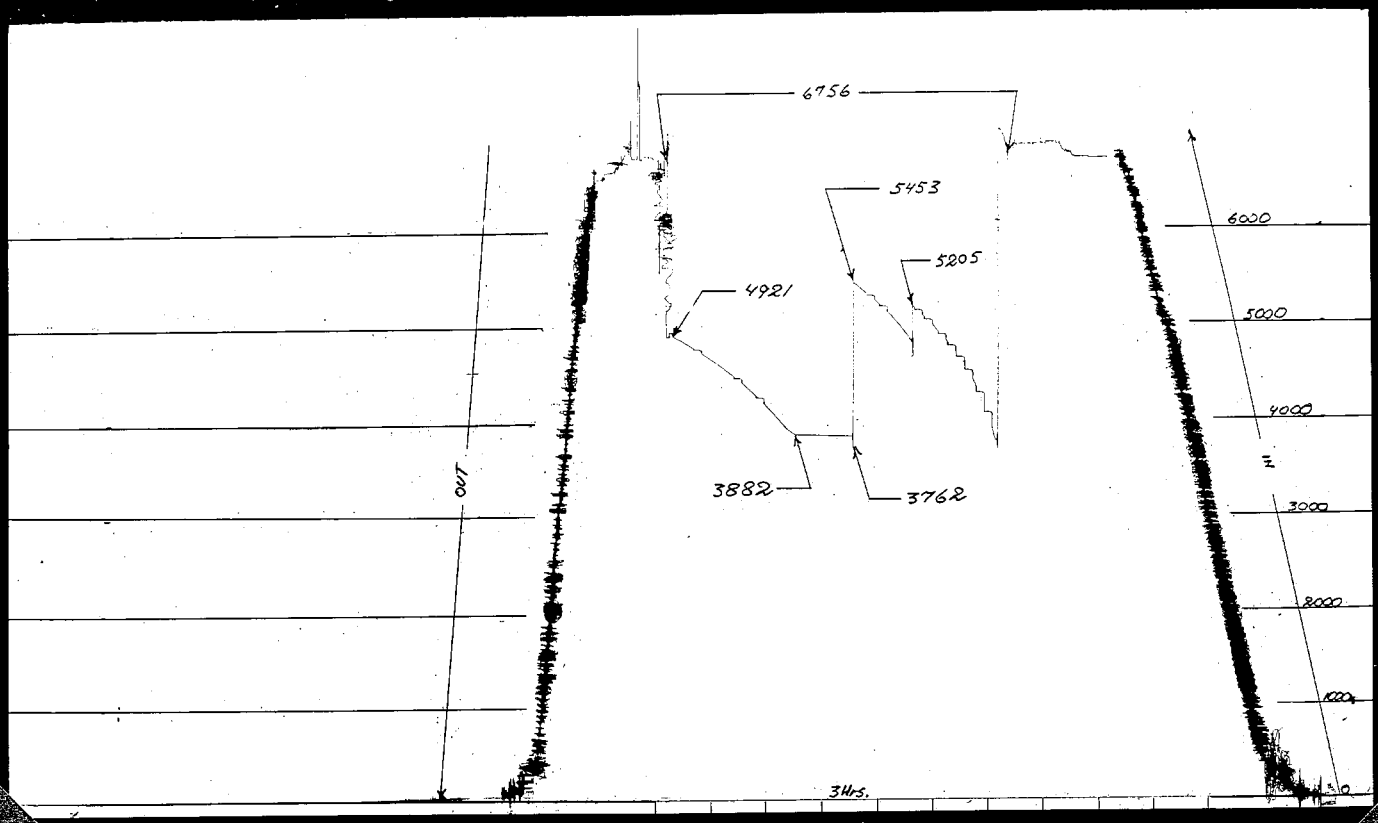
DST PRESSURE INCREMENTS

OF FINAL SHUT-IN

Recorder No. 2758 Depth 10,340

Points								
	Time Defl. "	T+θ	$\frac{T+\theta}{\theta}$	PSIG	Time Defl. "	T+θ	$\frac{T+\theta}{\theta}$	PSIG
1	0	3 HRS	13.0	3880	360	9.0	1.50	4814
2	15	3.25	13.0	3889	375	9.25	1.48	4841
3	30	3.5	7.0	3918	390	9.5	1.46	4868
4	45	3.75	5.0	3967	405	9.75	1.44	4895
5	60	4.0	4.0	4021	420	10.0	1.43	4919
6	75	4.25	3.4	4081				
7	90			4127				
8	105			4180				
9	120	5 hrs	2.5	4226				
10	135			4275				
11	150	5.5	2.2	4321				
12	165			4361				
13	180	6.0	2.0	4404				
14	195			4447				
15	210	6.5	1.86	4485				
16	225			4523				
17	240	7.0	1.75	4558				
18	255			4593				
19	270	7.5	1.67	4628				
20	285			4660				
21	300	8.0	1.60	4690				
22	315			4725				
23	330	8.5	1.55	4755				
24	345			4787				

Phillips 7-11-1X
Outs. Recorder #2759 Test #1



Phillips 7-11-1X
Ins. Recorder #2758 Test #1