

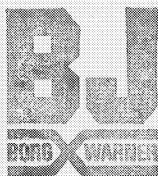
7/11-2

725.5

Well Name	Phillips 7-11-2X	Test No.	3
Well Number	7-11-2X	Zone Tested	III
Company	Phillips Petroleum Company	Interval	9776-9836
Comp. Rep.	J.Fetters	Tester	D.Williams
		Date	Oct. 6, 1968.

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ID/OLJE
01015 *11.12.68
SAKSB:
ARKIV:



B. J. SERVICE N. V.
THE HAGUE HOLLAND



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TESTING REPORT

DRILL-STEM TEST DATA

Well Name	Phillips 7-11-2X	Test No.	3
Well Number	7-11-2X	Zone Tested	III
Company	Phillips Petroleum Company	Interval	9776-9836
Comp. Rep.	J. Fetters	Tester	D. Williams
		Date	Oct. 6, 1968.

Type of Test Casing RFS Tool No. _____

Preflow 20 mins. ISI 205 mins. Flow 40 mins. FSI _____ mins.

Specify Inside or Outside	REC. No. <u>2760</u> RANGE <u>72</u> HR. CLOCK	REC. No. <u>2761</u> RANGE <u>72</u> HR. CLOCK	REC. No. <u>Leutert</u> RANGE <u>180</u> HR. CLOCK
DEPTH	<u>9858</u>	<u>9863</u>	<u>9834</u>
Initial Hydro Mud Press	<u>6635</u>	<u>6638</u>	
Initial Shut-In Press			
Initial Flow Press			
Final Flow Press			
Final Shut-In Press			
Final Hydro Mud Press	<u>6635</u>	<u>6638</u>	

Mud Drop 47 Fluid Loss 4.6 Mud Weight 13.0
 Viscosity _____ Temperature °F 248 Net Pay Tested 15'
 Top Packer Depth 9698 Bottom Packer Depth _____ Total Depth 9913
 Drill Pipe Size 3 1/2" Tubing Wt. 9.3 Drill Collar I.D. 2 1/2" Ft. Run 279'
 Surface Choke Size 1" Bottom Choke Size 2" ID Bumper Sub Main Hole Size 9 5/8 x 47 casing
 Anchor Size 3 1/2" EUE tubing at Hole Size _____ Feet of Rat Hole _____
 Cushion Amount 9698 Type Diesel Fuel Rubber Size 7 15/16

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: After flow of 30 min. proceeded with acid job + retested as per attached sheet. At end of test pumped fluid cushion into formation. Unable to establish build up plot due to having no final shut-in curve available.

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

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BAKER TEST HEAD

10 joints tubing	
CO Subs	.20
Otis test tree	24.25
Tubing	9046.67
Bumper Sub	22.83
CO Subs	.85
9 - Drill Collars	278.97
CO Subs	.82
CO Subs	1.20
Retrievematic packer	6.80
3 - Joints Tubing	93.50
1 - Joint Perf. Tubing	31.60
Hanger Subs	.88
1 - Joint Tubing for Leutert Gauge	31.33
CO Subs	1.64
Recorder Hanger Sub (# 2760) Depth 9858	1.00
Recorder Case	4.00
Rec. Hanger Sub (# 2761) Depth 9863	1.00
Perf. Sub	1.00
Recorder Case	4.00
Bull Nose	2.50



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DST PRESSURE INCREMENTS

Recorder No. 2760

Depth 9858

Points	INITIAL CIP				FINAL CIP			
	Time Def. "	T+θ	$\frac{T+\theta}{\theta}$	PSIG	Time Def. "	T+θ	$\frac{T+\theta}{\theta}$	PSIG
1	A			3956				
2	B			7770				
3	C			7710				
4	D			3703				
5	E			3793				
6	F			7829				
7	G			7498				
8	H			5365				
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								



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5 mins. DST PRESSURE INCREMENTS of bleed off

Recorder No. 2761

Depth 9863

Points A-B

Points	INITIAL CIP				FINAL CIP			
	Time Defl. "	T+θ	$\frac{T+\theta}{\theta}$	PSIG	Time Defl. "	T+θ	$\frac{T+\theta}{\theta}$	PSIG
1	0		A	6819				
2	5			5913				
3	10			4783				
4	15			4248				
5	20		B	3572				
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								



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5 mins. DST PRESSURE INCREMENTS of Preflow

Recorder No. 2761

Depth 9863

Points B-C

Points	INITIAL CIP				FINAL CIP			
	Time Defl. "	T+θ	$\frac{T+\theta}{\theta}$	PSIG	Time Defl. "	T+θ	$\frac{T+\theta}{\theta}$	PSIG
1	0		B	3572				
2	5			3600				
3	10			3602				
4	15			3602				
5	20		C	3602				
6								
7								
8								
9								
10								
11								
12								
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14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								



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5 mins. DST PRESSURE INCREMENTS of initial Shut-In

Points C-D

Recorder No. 2761

Depth 9863

Points	XXXXXX				XXXXXX			
	Time Defl. "	T+θ	$\frac{T+\theta}{\theta}$	PSIG	Time Defl. "	T+θ	$\frac{T+\theta}{\theta}$	PSIG
1	0		C	3602	120			3872
2	5			3607	125			3880
3	10			3618	130			3887
4	15			3643	135			3893
5	20			3662	140			3899
6	25			3681	145			3904
7	30			3695	150			3910
8	35			3708	155			3915
9	40			3722	160			3921
10	45			3725	165			3925
11	50			3749	170			3932
12	55			3762	175			3937
13	60			3776	180			3945
14	65			3787	185			3951
15	70			3798	190			3956
16	75			3807	195			3958
17	80			3817	200			3962
18	85			3822	205		D	3967
19	90			3831				
20	95			3839				
21	100			3847				
22	105			3856				
23	110			3860				
24	115			3866				



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5 mins. DST PRESSURE INCREMENTS of Acid work

Points D-E

Recorder No. 2761

Depth 9863

First 40 mins. is short flow period prior to Acid work.

Points	INITIAL CIP				FINAL CIP			
	Time Defl. "	T+θ	$\frac{T+\theta}{e}$	PSIG	Time Defl. "	T+θ	$\frac{T+\theta}{e}$	PSIG
1	0		D	3967	120			3635
2	5			3550	125			7031
3	10			3613	130			6896
4	15			3613	135			6577
5	20			3615	140			6738
6	25			3615	145			6861
7	30			3615	150			6638
8	35			3615	155			7469
9	40			3733	160			6608
10	45			7791	165			7551
11	50			7514	170			7282
12	55			7477	175			6809
13	60			7456	180			6886
14	65			7436	185			6851
15	70			7422	190			6854
16	75			7411	195			6862
17	80			7401	200			6872
18	85			7390	205			6877
19	90			7377	210			6817
20	95			7364	215			6812
21	100			7356	220			6780
22	105			7348	225			6764
23	110			3597	230			6762
24	115			3695	235			6764



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TESTING REPORT

Cont'd Points D-E

5 mins. DST PRESSURE INCREMENTS of Acid work

Recorder No. 2761

Depth 9863

Points	INITIAL CIP				FINAL CIP			
	Time Defl. "	T+θ	$\frac{T+\theta}{\theta}$	PSIG	Time Defl. "	T+θ	$\frac{T+\theta}{\theta}$	PSIG
1	240			6714	360			7662
2	245			6722	365			7699
3	250			6830	370			7712
4	255			6745	375			7683
5	260			6738	380			7641
6	265			6743	385			7614
7	270			6749	390			7599
8	275			6717	395			7579
9	280			6754	400			7564
10	285			6761	405			7553
11	290			6761	410		E	3711
12	295			6761				
13	300			6749				
14	305			6654				
15	310			7065				
16	315			6749				
17	320			6754				
18	325			6643				
19	330			7060				
20	335			6939				
21	340			6944				
22	345			6942				
23	350			6973				
24	355			7715				



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5 mins. **DST PRESSURE INCREMENTS** of flow.

Points E-F

Recorder No. 2761

Depth 9863

	INITIAL CIP					FINAL CIP				
	Time Defl.	def.	T + θ	$\frac{T + \theta}{\theta}$	PSIG	Time Defl.	def.	T + θ	$\frac{T + \theta}{\theta}$	PSIG
1	0			E	3711	120				3785
2	5				3717	125				3785
3	10				3724	130				3787
4	15				3733	135				3787
5	20				3741	140				3787
6	25				3749	145				3789
7	30				3754	150				3789
8	35				3757	155				3789
9	40				3760	160				3793
10	45				3763	165				3793
11	50				3768	170				3793
12	55				3768	175				3795
13	60				3771	180				3795
14	65				3771	185				3795
15	70				3773	190				3795
16	75				3773	195				3795
17	80				3776	200				3798
18	85				3779	205				3798
19	90				3779	210				3798
20	95				3782	215				3798
21	100				3782	220				3798
22	105				3782	225				3798
23	110				3785	230				3798
24	115				3785	235				3798



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TESTING REPORT

Cont'd Points E-F

DST PRESSURE INCREMENTS

Recorder No. 2761

Depth 9863

	INITIAL CIP					FINAL CIP				
	Time Defl.	def.	T + θ	$\frac{T + \theta}{\theta}$	PSIG	Time Defl.	def.	T + θ	$\frac{T + \theta}{\theta}$	PSIG
1	240				3798	360				3804
2	245				3798	365				3804
3	250				3798	370				3804
4	255				3798	375				3807
5	260				3801	380				3807
6	265				3801	385				3807
7	270				3801	390				3807
8	275				3801	395				3807
9	280				3801	400				3807
10	285				3801	405				3807
11	290				3801	410				3807
12	295				3801	415				3807
13	300				3801	420				3807
14	305				3801	425				3807
15	310				3804	430				3807
16	315				3804	435				3807
17	320				3804	440				3807
18	325				3804	445				3807
19	330				3804	450				3807
20	335				3804	455				3807
21	340				3804	460				3807
22	345				3804	465				3807
23	350				3804	470				3807
24	355				3804	475				3807



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TESTING REPORT

Cont' Points E-F

DST PRESSURE INCREMENTS

Recorder No. 2761

Depth 8963

	INITIAL CIP					FINAL CIP				
	Time Defl.	def.	T + e	$\frac{T + e}{e}$	PSIG	Time Defl.	def.	T + e	$\frac{T + e}{e}$	PSIG
1	480				3807					
2	485				3807					
3	490				3809					
4	495				3809					
5	500				3809					
6	505				3809					
7	510				3809					
8	515				3809					
9	520				3809					
10	525				3809					
11	530				3809					
12	535			F	3809					
13										
14										
15										
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20										
21										
22										
23										
24										



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TESTING REPORT

5 mins. DST PRESSURE INCREMENTS of final Shut-In.

Recorder No. 2761

Depth 9863

Points F-G

Points	START				STOP			
	Time Defl. "	T+θ	$\frac{T+\theta}{\theta}$	PSIG	Time Defl. "	T+θ	$\frac{T+\theta}{\theta}$	PSIG
1	0		F	3809	120			5496
2	5			7771	125			5467
3	10			7784	130			5445
4	15			7803	135			5423
5	20			7808	140			5402
6	25			7826	145		G	5380
7	30			7856				
8	35			7831				
9	40			7489				
10	45			6798				
11	50			6262				
12	55			6005				
2	13	60		5849				
14	65			7388				
15	70			7473				
16	75			7502				
17	80			7513				
3	18	85		7521				
19	90			6505				
20	95			5735				
21	100			5652				
22	105			5603				
23	110			5561				
24	115			5526				

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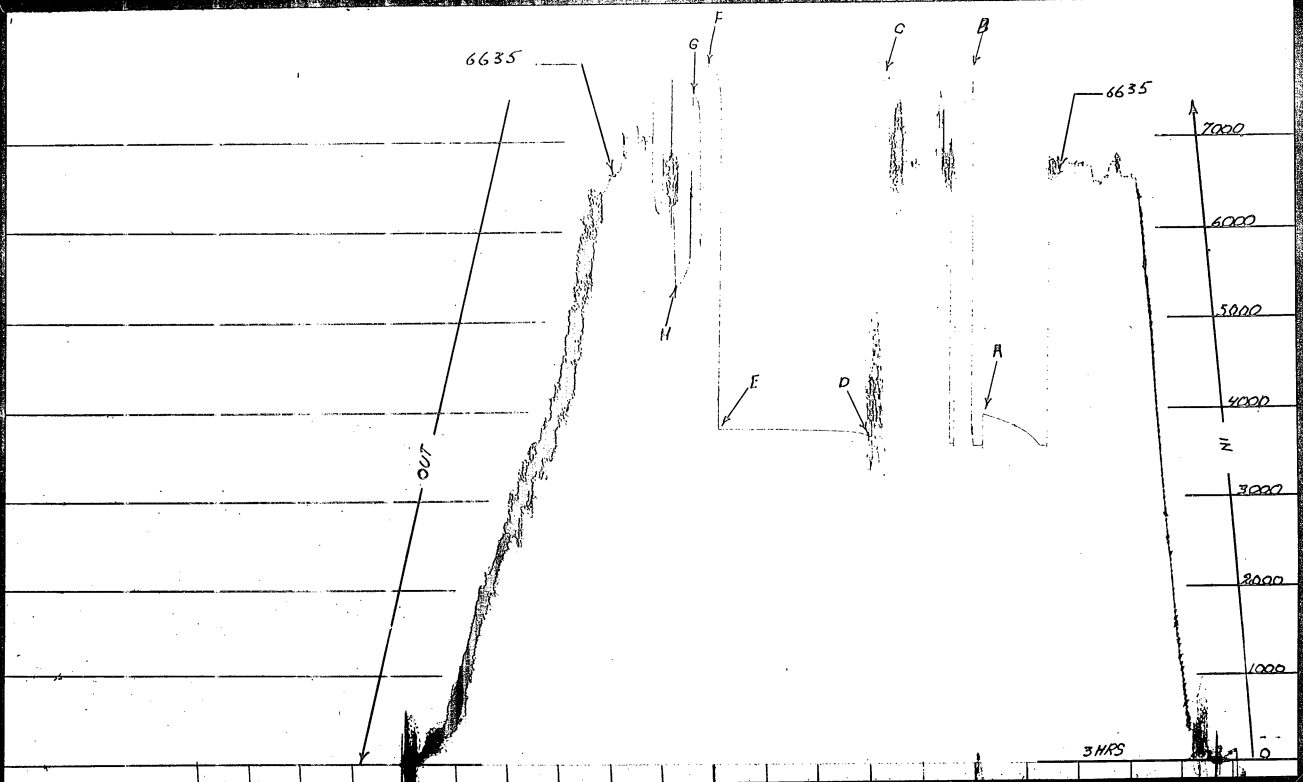
Phillips 7-11-24

Test # 3

Recorder # 2761

<u>Time</u>		
<u>From</u>	<u>To</u>	
10.40	10.55	Opened well to DST - flowed back 2 Bbls Diesel
10.55	14.30	Well flowing 380 psi on well head
14.30	15.00	Well flowing
15.00		Well dead - well shut in Pressured up annulas to 1500 psi.
15.13	15.16	Pumped in formation 2 Bbls Diesel with 4300 psi with the rate of 0.9 Bbl/min.
15.16	16.15	Shut well in @ 4300 psi.
16.15		Pressure @ well head 3900 psi bled pressure off. Well dead.
18.30	19.34	Unseat packer. Pumped 10 Bbls Diesel. Pumped 24 Bbls 15% HCl containing 30 gal. Morflo, and 3 gal. HA 145 inhibitor. Pumped 58 Bbls Diesel.
19.35	20.14	Set Packer. Attempted unsuccessfully to hold 1500 psi on annulas (between tubing & casing). Closed 5" pipe rams and held 300 psi on annulas.
20.15	20.32	Pumped 30 Bbls Diesel. 6 Bbls Diesel & 24 Bbls Acid in formation - initial pumping pressure was 4000 psi @ 2 Bbls/min. - final pumping pressure was 4300 psi @ 1 $\frac{3}{4}$ Bbls/min.
20.32	21.03	Well shut in @ 4000 psi.
21.03	05.40	Opened well, flowed back 16 $\frac{3}{4}$ Bbls Diesel last Bbl. took 3 hours to flow back.
6.00	9.00	Pumping cushion fluid into formation. Unseat packer and pulled out.

Phillips 7-11-2X
Rec. #2760 Test #3



Phillips 7-11-2X
Rec. # 2761 Test #3

