

S T A R

Schlumberger

Schlumberger Testing Data Report
Pressure Data ReportREPORT NO.
139672

PAGE NO. 1

TEST DATE:
18-AUG-1996

COMPANY: LABRADOR OIL CO.

WELL: MESCALARO #1

TEST IDENTIFICATION

Test Type OPEN HOLE DST
 Test No. ONE
 Formation WILDCAT
 Test Interval (ft) 8007 to 8172
 Depth Reference KB

WELL LOCATION

Field WILDCAT
 County GUADALUPE
 State NEW MEXICO
 Sec/Twn/Rng 1/6N/22E
 Elevation (ft) 4436

HOLE CONDITIONS

Total Depth (MD/TVD) (ft) 8172'
 Hole Size (in) 12.25
 Casing/Liner I.D. (in) 13.375 @ 3452
 Perf'd Interval/Net Pay (ft) .. / 129
 Shot Density/Diameter (in) ...

MUD PROPERTIES

Mud Type F/W GEL & PAC
 Mud Weight (lb/gal) 9.1
 Mud Resistivity (ohm.m)
 Filtrate Resistivity (ohm.m) .. 1.052 @ 60F
 Filtrate Chlorides (ppm) 6500

INITIAL TEST CONDITIONS

Initial Hydrostatic (psi) 3760.02
 Gas Cushion Type
 Surface Pressure (psi)
 Liquid Cushion Type
 Cushion Length (ft)

TEST STRING CONFIGURATION

Pipe Length (ft)/I.D. (in) ... 7568 / 2.54
 Collar Length (ft)/I.D. (in) .. 0 / 3.00
 Packer Depths (ft) 8007,
 Bottomhole Choke Size (in) ... 0.94
 Gauge Depth (ft)/Type 8013/SLSR-884

NET PIPE RECOVERY

Volume	Fluid Type	Properties
	FLOWED WATER	Rw0.551@60F 13000ppm
7976 ft	WATER	Rw0.551@60F 13000ppm

NET SAMPLE CHAMBER RECOVERY

Volume	Fluid Type	Properties
0 cuft	Gas	
0 cc	Oil	
2500 cc	Water	Rw0.551@60F 13000pp
0 cc	Mud	
Pressure: 2650		GOR: 0
		GLR: 0

INTERPRETATION RESULTS

Model of Behavior
 Fluid Type Used for Analysis..
 Reservoir Pressure (psi)
 Transmissibility (md.ft/cp) ..
 Effective Permeability (md) ...
 Skin Factor/Damage Ratio
 Storativity Ratio, Omega
 Interporos.Flow Coef..Lambda..
 Distance to an Anomaly (ft) ..
 Radius of Investigation (ft)..
 Potentiometric Surface (ft) ..

ROCK/FLUID/WELLBORE PROPERTIES

Oil Density (deg. API)
 Basic Solids (%)
 Gas Gravity
 GOR (scf/STB)
 Water Cut (%)
 Viscosity (cp)
 Total Compressibility (1/psi)..
 Porosity (%) 12
 Reservoir Temperature (F) 165
 Form.Vol.Factor (bbl/STB)

PRODUCTION RATE DURING TEST: Data Report

COMMENTS:

This on bottom conventional D.S.T. of the Wildcat formation was a success. 6.5 bbls. of water flowed to surface during the last 37 minutes of the final flow period. 134 bbls. of water was recovered in the drill string. If you have any questions please call 505-393-4107. Thank you for using Schlumberger.

 ** WELL TEST DATA PRINTOUT **

COMPANY: LABRADOR OIL CO.
 WELL: MESCALARO #1

FIELD REPORT NO. 139672
 INSTRUMENT NO. SLSR-884

RECORDER CAPACITY: 10000 PSI PORT OPENING: INSIDE DEPTH: 8013 FT

LABEL POINT INFORMATION

#	TIME OF DAY HH:MM:SS	DATE DD-MMM	EXPLANATION	ELAPSED TIME, MIN	BOT HOLE PRESSURE PSIA	BOT HOLE TEMP. DEG F
1	13:38:07	18-AUG	HYDROSTATIC MUD	402.62	3760.02	160.86
2	13:40:57	18-AUG	START FLOW	405.45	775.62	160.66
3	13:51:17	18-AUG	END FLOW & START SHUT-IN	415.78	1704.52	163.15
4	14:51:17	18-AUG	END SHUT-IN	475.78	3797.47	163.36
5	14:52:17	18-AUG	START FLOW	476.78	1917.38	163.09
6	16:22:27	18-AUG	END FLOW & START SHUT-IN	566.95	3664.23	163.96
7	17:53:37	18-AUG	END SHUT-IN	658.12	3823.97	162.64
8	17:58:27	18-AUG	HYDROSTATIC MUD	662.95	3760.71	162.57

SUMMARY OF FLOW PERIODS

PERIOD	START ELAPSED TIME, MIN	END ELAPSED TIME, MIN	DURATION MIN	START PRESSURE PSIA	END PRESSURE PSIA	INITIAL PRESSURE PSIA
1	405.45	415.78	10.33	775.62	1704.52	775.62
2	476.78	566.95	90.17	1917.38	3664.23	1917.38

SUMMARY OF SHUTIN PERIODS

PERIOD	START ELAPSED TIME, MIN	END ELAPSED TIME, MIN	DURATION MIN	START PRESSURE PSIA	END PRESSURE PSIA	FINAL FLOW PRESSURE PSIA	PRODUCING TIME, MIN
1	415.78	475.78	60.00	1704.52	3797.47	1704.52	10.33
2	566.95	658.12	91.17	3664.23	3823.97	3664.23	100.50

TEST PHASE: FLOW PERIOD # 1

TIME OF DAY	DATE	ELAPSED TIME, MIN	DELTA TIME, MIN	BOT HOLE TEMP. DEG F	BOT HOLE PRESSURE PSIA
HH:MM:SS	DD-MMM				
13:40:57	18-AUG	405.45	0.00	160.66	775.62
13:51:17	18-AUG	415.78	10.33	163.15	1704.52

TEST PHASE: SHUTIN PERIOD # 1

FINAL FLOW PRESSURE = 1704.52 PSIA

PRODUCING TIME = 10.33 MIN

TIME OF DAY	DATE	ELAPSED TIME, MIN	DELTA TIME, MIN	BOT HOLE TEMP. DEG F	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
HH:MM:SS	DD-MMM						
13:51:17	18-AUG	415.78	0.00	163.15	1704.52	0.00	
13:52:17	18-AUG	416.78	1.00	163.58	3352.78	1648.26	1.0542
13:53:17	18-AUG	417.78	2.00	163.83	3475.82	1771.30	0.7899
13:54:17	18-AUG	418.78	3.00	164.08	3536.11	1831.59	0.6477
13:55:17	18-AUG	419.78	4.00	164.26	3573.20	1868.68	0.5542
13:56:17	18-AUG	420.78	5.00	164.41	3600.86	1896.34	0.4866
13:57:17	18-AUG	421.78	6.00	164.50	3621.94	1917.42	0.4348
13:58:17	18-AUG	422.78	7.00	164.57	3638.62	1934.10	0.3937
13:59:17	18-AUG	423.78	8.00	164.61	3652.51	1947.99	0.3601
14:00:17	18-AUG	424.78	9.00	164.62	3663.90	1959.38	0.3320
14:01:17	18-AUG	425.78	10.00	164.62	3673.85	1969.33	0.3081
14:03:17	18-AUG	427.78	12.00	164.55	3690.35	1985.83	0.2697
14:05:17	18-AUG	429.78	14.00	164.46	3703.49	1998.97	0.2400
14:07:17	18-AUG	431.78	16.00	164.37	3714.33	2009.81	0.2163
14:09:17	18-AUG	433.78	18.00	164.28	3723.71	2019.19	0.1970
14:11:17	18-AUG	435.78	20.00	164.19	3731.82	2027.30	0.1808
14:13:17	18-AUG	437.78	22.00	164.12	3738.93	2034.41	0.1672
14:15:17	18-AUG	439.78	24.00	164.03	3745.28	2040.76	0.1555
14:17:17	18-AUG	441.78	26.00	163.96	3750.82	2046.30	0.1453
14:19:17	18-AUG	443.78	28.00	163.90	3755.87	2051.35	0.1364
14:21:17	18-AUG	445.78	30.00	163.83	3760.37	2055.85	0.1285
14:26:17	18-AUG	450.78	35.00	163.72	3770.36	2065.84	0.1123
14:31:17	18-AUG	455.78	40.00	163.63	3778.57	2074.05	0.0998
14:36:17	18-AUG	460.78	45.00	163.58	3785.53	2081.01	0.0897
14:41:17	18-AUG	465.78	50.00	163.54	3791.45	2086.93	0.0816
14:46:17	18-AUG	470.78	55.00	163.47	3796.60	2092.08	0.0747
14:51:17	18-AUG	475.78	60.00	163.36	3797.47	2092.95	0.0690

TEST PHASE: FLOW PERIOD # 2

TIME OF DAY	DATE	ELAPSED TIME, MIN	DELTA TIME, MIN	BOT HOLE TEMP. DEG F	BOT HOLE PRESSURE PSIA
HH:MM:SS	DD-MMM				
14:52:17	18-AUG	476.78	0.00	163.09	1917.38
15:07:17	18-AUG	491.78	15.00	164.55	2777.16
15:22:17	18-AUG	506.78	30.00	164.97	3289.60
15:37:17	18-AUG	521.78	45.00	164.73	3495.87
15:52:17	18-AUG	536.78	60.00	164.50	3702.67
16:07:17	18-AUG	551.78	75.00	164.19	3649.86
16:22:17	18-AUG	566.78	90.00	163.96	3663.39
16:22:27	18-AUG	566.95	90.17	163.96	3664.23

TEST PHASE: SHUTIN PERIOD # 2

FINAL FLOW PRESSURE = 3664.23 PSIA
PRODUCING TIME = 100.50 MIN

TIME OF DAY HH:MM:SS	DATE DD-MMM	ELAPSED TIME, MIN	DELTA TIME, MIN	BOT HOLE TEMP. DEG F	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
16:22:27	18-AUG	566.95	0.00	163.96	3664.23	0.00	
16:23:27	18-AUG	567.95	1.00	163.96	3738.40	74.17	2.0065
16:24:27	18-AUG	568.95	2.00	163.94	3746.20	81.97	1.7097
16:25:27	18-AUG	569.95	3.00	163.92	3751.46	87.23	1.5378
16:26:27	18-AUG	570.95	4.00	163.92	3755.30	91.07	1.4171
16:27:27	18-AUG	571.95	5.00	163.90	3758.47	94.24	1.3243
16:28:27	18-AUG	572.95	6.00	163.89	3761.24	97.01	1.2492
16:29:27	18-AUG	573.95	7.00	163.87	3763.76	99.53	1.1863
16:30:27	18-AUG	574.95	8.00	163.87	3765.96	101.73	1.1323
16:31:27	18-AUG	575.95	9.00	163.85	3768.05	103.82	1.0852
16:32:27	18-AUG	576.95	10.00	163.83	3770.00	105.77	1.0434
16:34:27	18-AUG	578.95	12.00	163.80	3773.56	109.33	0.9720
16:36:27	18-AUG	580.95	14.00	163.76	3776.78	112.55	0.9127
16:38:27	18-AUG	582.95	16.00	163.74	3779.69	115.46	0.8622
16:40:27	18-AUG	584.95	18.00	163.71	3782.33	118.10	0.8184
16:42:27	18-AUG	586.95	20.00	163.67	3784.83	120.60	0.7800
16:44:27	18-AUG	588.95	22.00	163.65	3787.14	122.91	0.7457
16:46:27	18-AUG	590.95	24.00	163.62	3789.27	125.04	0.7150
16:48:27	18-AUG	592.95	26.00	163.60	3791.34	127.11	0.6871
16:50:27	18-AUG	594.95	28.00	163.56	3793.25	129.02	0.6617
16:52:27	18-AUG	596.95	30.00	163.54	3795.03	130.80	0.6385
16:57:27	18-AUG	601.95	35.00	163.47	3799.16	134.93	0.5879
17:02:27	18-AUG	606.95	40.00	163.40	3802.77	138.54	0.5456
17:07:27	18-AUG	611.95	45.00	163.35	3806.01	141.78	0.5097
17:12:27	18-AUG	616.95	50.00	163.26	3808.83	144.60	0.4786
17:17:27	18-AUG	621.95	55.00	163.20	3811.39	147.16	0.4514
17:22:27	18-AUG	626.95	60.00	163.15	3813.67	149.44	0.4273
17:27:27	18-AUG	631.95	65.00	163.06	3815.75	151.52	0.4059
17:32:27	18-AUG	636.95	70.00	162.99	3817.62	153.39	0.3866
17:37:27	18-AUG	641.95	75.00	162.90	3819.33	155.10	0.3692
17:42:27	18-AUG	646.95	80.00	162.82	3820.92	156.69	0.3534
17:47:27	18-AUG	651.95	85.00	162.75	3822.35	158.12	0.3389
17:52:27	18-AUG	656.95	90.00	162.66	3823.67	159.44	0.3257
17:53:37	18-AUG	658.12	91.17	162.64	3823.97	159.74	0.3227