

COMPANY: North Central Oil Corporation; WELL: State 14-1

TEST IDENTIFICATION
 Test No.: 132836
 Test Name: Pressure Data
 Formation: Devonian
 Test Interval (ft): 12950 to 13014
 Depth Reference: 48

WELL LOCATION
 Field: Wildcat
 County: Lea
 State: New Mexico
 Sec/Twp/Rng: 14/135/32E
 Elevation (ft): 4325

HOLE CONDITIONS
 Total Depth (MD/VDD) (ft): 13014
 Hole Size (in): 7.875
 Casing/Liner I.D. (in): 7.0
 Perfor. Interval/Net Pay (ft):
 Shot Density/Diameter (lbm/ft):
 Initial Test Conditions
 Initial Hydrostatic (psf): 6201.65
 Gas Cushion Type:
 Surface Pressure (psf):
 Liquid Cushion Type:
 Cushion Length (ft): 2891
 Fresh Water

MUD PROPERTIES
 Mud Type:
 Mud Weight (lb/gal):
 Mud Resistivity (ohm-m):
 Filtrate Resistivity (ohm-m):
 Filtrate Chlorides (ppm):
 Gel/Chem:
 .46 @ 55F
 17000

TEST STRING CONFIGURATION
 Pipe Length (ft)/I.D. (in): 12260 / 3.83
 Collar Length (ft)/I.D. (in): 655 / 2.25
 Packer Depth (ft): 12955, 12960
 Bottomhole Choke Size (in): 0.94
 Gauge Depth (ft)/Type: 13008/200-1975

NET PIPE RECOVERY
 Volume: Fluid Type Properties
 2891 ft Cushion Rm: 3060F 500ppm
 30.3 bbl Drig Mud Rm: 4405SF 18000ppm
 120 ft
 .47 bbl Rm: 4405SF 18000ppm

NET SAMPLE CHAMBER RECOVERY
 Volume: Fluid Type Properties
 .09 cuft Gas Rm: 4405SF 18000ppm
 2300 cc Mud Rm: 4405SF 18000ppm
 Pressure: 150 COR: 0 GCR: 6

INTERPRETATION RESULTS
 Model of Reservoir:
 Fluid Type:
 Reservoir Pressure (psi):
 Transmissibility (md-ft):
 Effective Permeability (md):
 Skin Factor/Damage Ratio:
 Storage Coefficient:
 Interporos. Flow Coef.:
 Distance to an Anomaly (ft):
 Radius of Investigation (ft):
 Potentiometric Surface (ft):

ROCK/FLUID/CELLBORE PROPERTIES
 Oil Density (deg. API):
 Basic Solids (%):
 Gas Gravity:
 COR (cc/STB):
 Water Cut (%):
 Viscosity (cp):
 Total Compressibility (1/psi):
 Porosity (%):
 Reservoir Temperature (F):
 Form. Vol. Factor (bbl/STB):

PRODUCTION RATE DURING TEST: Data Report

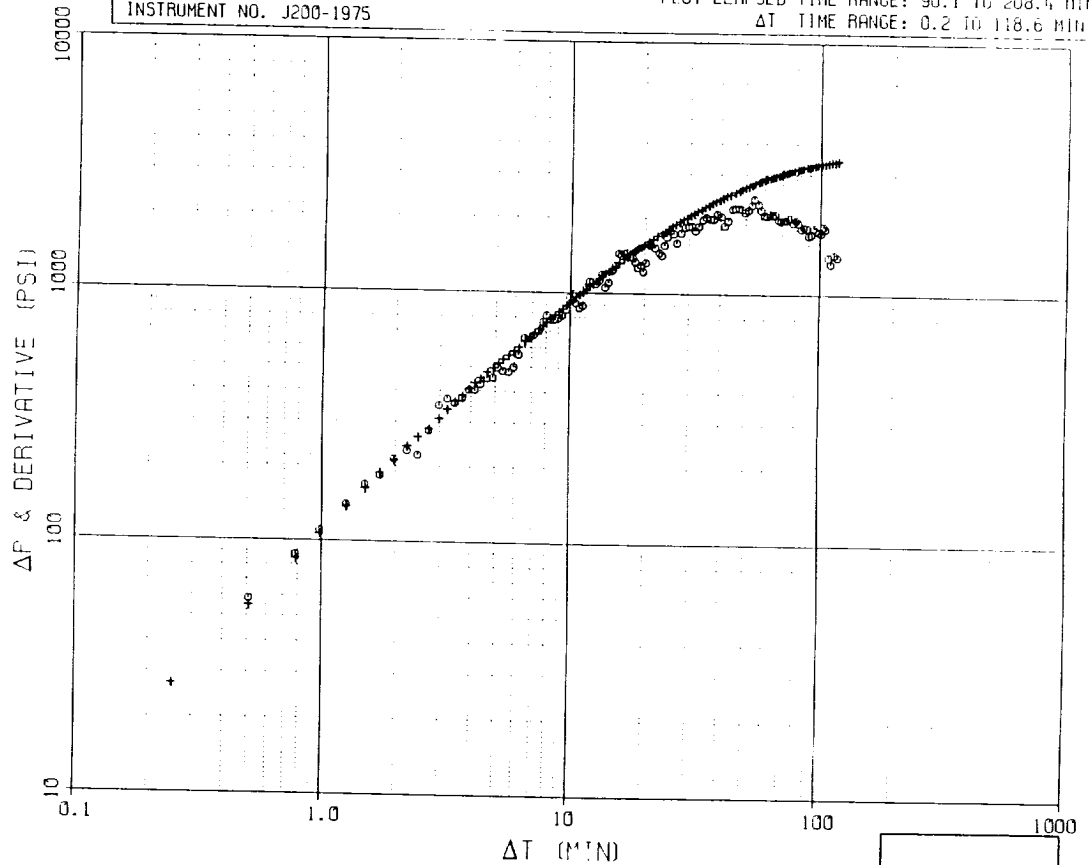
COMMENTS:
 This drill stem test was mechanically successful. The tested interval flowed .47 bbl of drilling mud into the test string due to tool sitting to bottom. Direct any questions to 505-393-4107. Thank You.

DATE	TIME	DESCRIPTION	BT (MINS)	BHP (PSIA)	WHP (PSIG)
11-JUN	23:45	Set Packers	-3	6202	
23:49		START FLOW	0	1440	2
		weak blow on 1/8" choke			
23:52		END FLOW & START SHUTIN	3	1440	
00:22		END SHUTIN	33	3851	
00:23		START FLOW	34	1419	0
		no blow			
01:23		END FLOW & START SHUTIN	34	1419	0
03:23		END SHUTIN	214	4831	
03:30		Pulled Loose	221	6207	

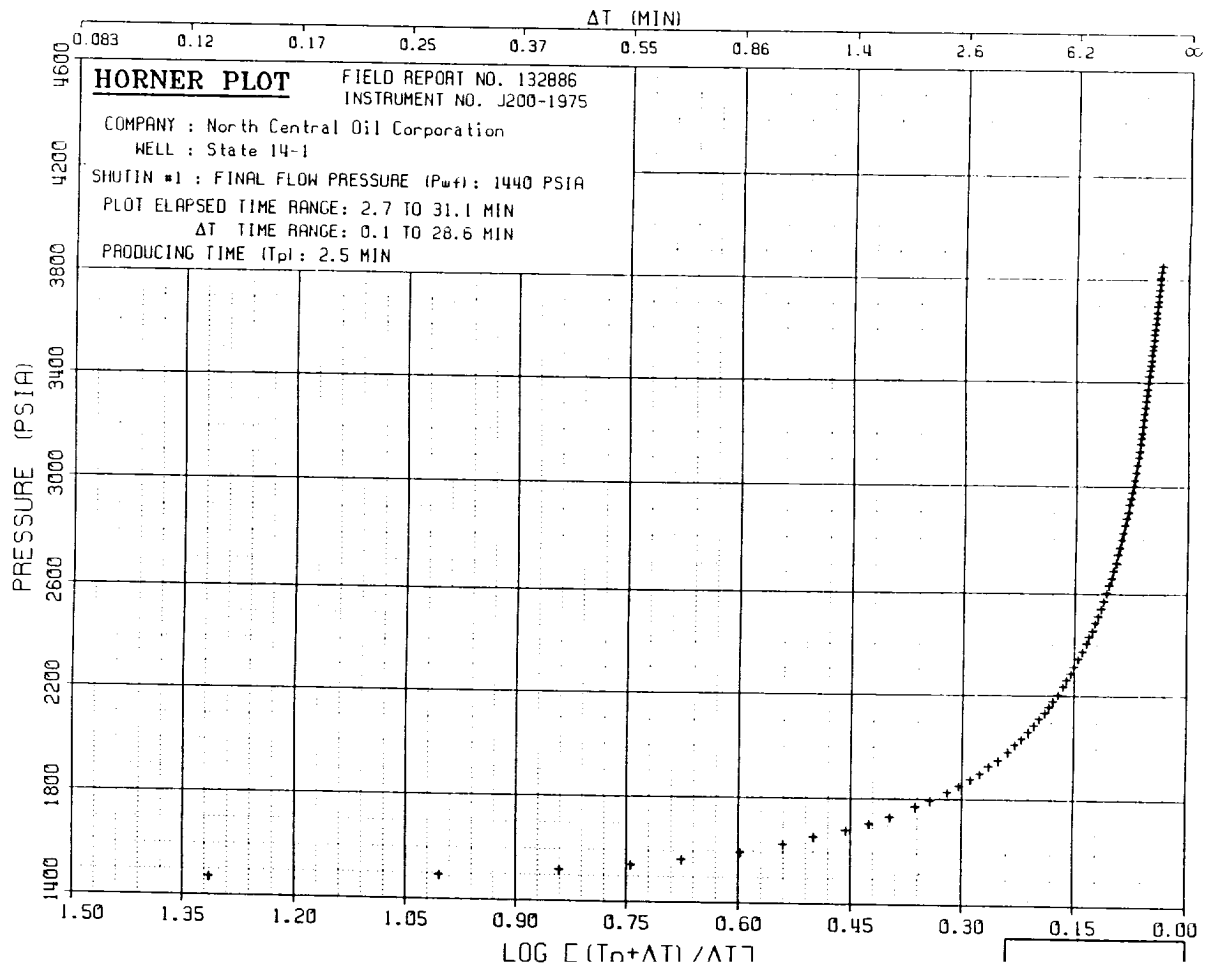
LOG LOG PLOT

COMPANY : North Central Oil Corporation
WELL : State 14-1
FIELD REPORT NO. 132886
INSTRUMENT NO. J200-1975

SHUTIN #2 : PRODUCING TIME (t_{pl}) : 60.4 MIN
FINAL FLOW PRESSURE (P_{wf}) : 1419 PSIA
PLOT ELAPSED TIME RANGE: 90.1 TO 208.4 MIN
 ΔT TIME RANGE: 0.2 TO 118.6 MIN



Schlumberger

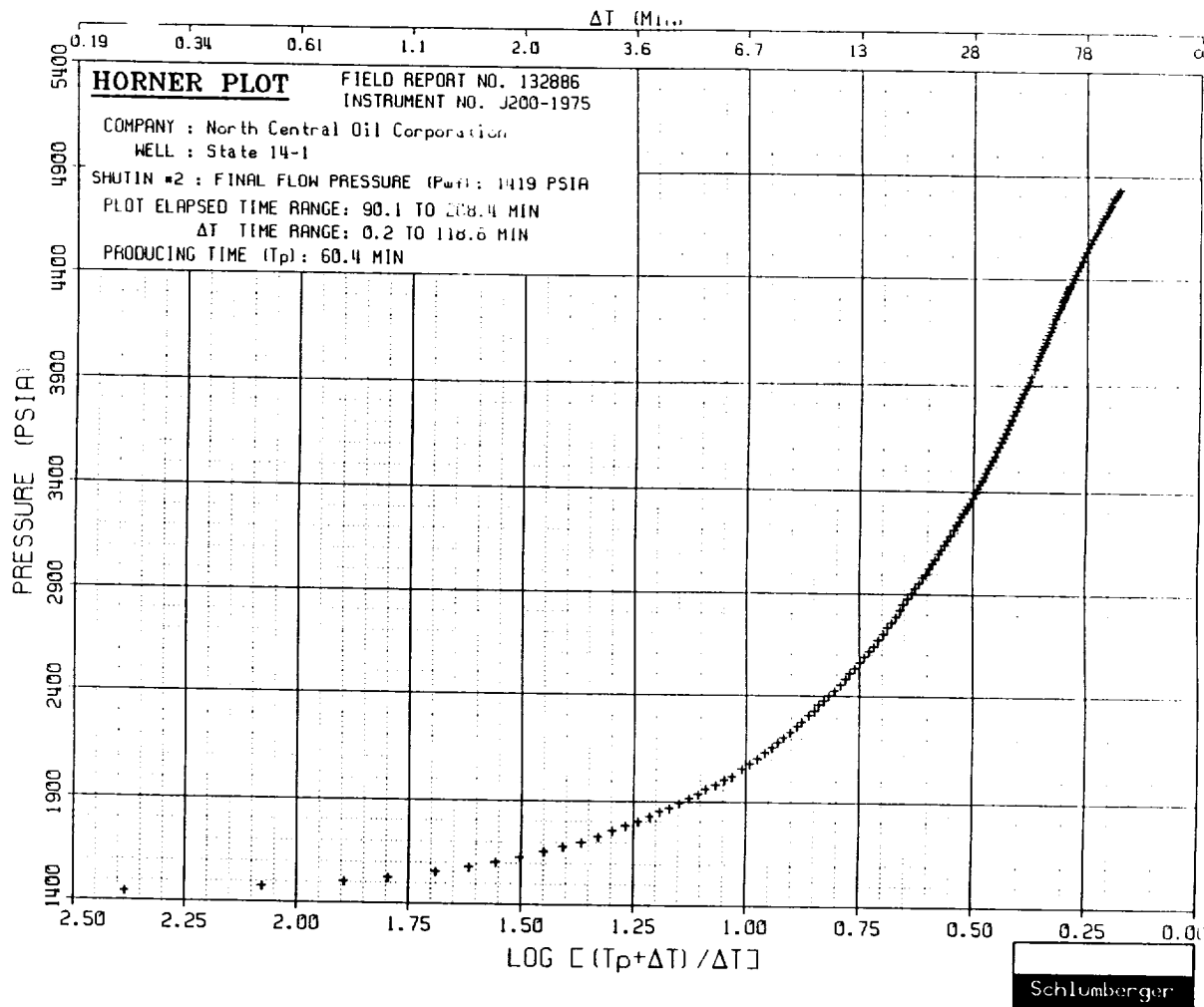


HORNER PLOT

FIELD REPORT NO. 132886
INSTRUMENT NO. J200-1975

COMPANY : North Central Oil Corporation
WELL : State 14-1

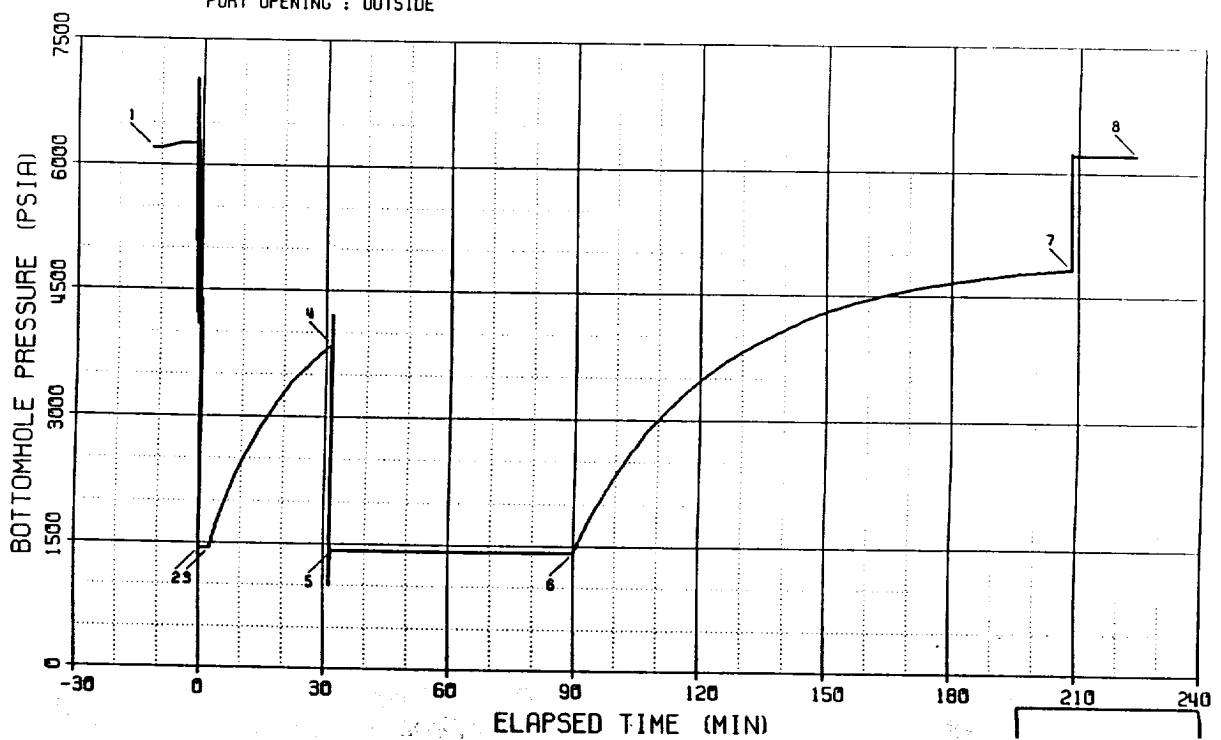
SHUTIN #1 : FINAL FLOW PRESSURE (P_{wf}) : 1440 PSIA
PLOT ELAPSED TIME RANGE: 2.7 TO 31.1 MIN
 ΔT TIME RANGE: 0.1 TO 28.6 MIN
PRODUCING TIME (t_{pl}) : 2.5 MIN



BOTTOMHOLE PRESSURE LOG

FIELD REPORT NO. 132886
INSTRUMENT NO. J200-1975
DEPTH : 13008 FT
CAPACITY : 9000 PSI
PORT OPENING : OUTSIDE

COMPANY : North Central Oil Corporation
WELL : State 14-1
Mechanical Recorder Data



 COMPANY: North Central Oil Corporation
 WELL: State 14-1
 FIELD REPORT NO. 132886
 INSTRUMENT NO. J200-1975
 REORDER CAPACITY: 9000 PSI
 PORT OPENING: OUTSIDE
 DEPTH: 13008 FT
 TEMPERATURE: 178 DEG F
 LABEL POINT INFORMATION

TIME		DATE		EXPLANATION		ELAPSED TIME		BOT HOLE PRESSURE	
#	HH:MM:SS	DD-MM				MIN		PSIA	
1	23:36:48	11-JAN	HYDROSTATIC MUD			12.20		6202	
2	23:49:00	11-JAN	START FLOW			0.00		1440	
3	23:51:33	11-JAN	END FLOW & START SHUT-IN			2.55		1440	
4	0:20:08	12-JAN	END SHUT-IN			31.14		3851	
5	0:20:55	12-JAN	START FLOW			31.91		1419	
6	1:18:49	12-JAN	END FLOW & START SHUT-IN			89.81		1419	
7	3:17:24	12-JAN	END SHUT-IN			208.40		4831	
8	3:32:52	12-JAN	HYDROSTATIC MUD			223.86		6207	

SUMMARY OF FLOW PERIODS

PERIOD		START ELAPSED TIME		END ELAPSED TIME		DURATION MIN		START PRESSURE PSIA		END PRESSURE PSIA		INITIAL PRESSURE PSIA	
1	2	0.00	2.55	2.55	31.14	2.55	57.90	1440	1419	1440	1419	1440	1419
2	3	31.91	89.81	89.81	208.40	168.49		1419	1419	1419	1419	1419	1419

SUMMARY OF SHUTIN PERIODS

PERIOD		START ELAPSED TIME		END ELAPSED TIME		DURATION MIN		START PRESSURE PSIA		END PRESSURE PSIA		FINAL FLOW PRESSURE PSIA		PRODUCING TIME, MIN	
1	2	2.55	31.14	31.14	208.40	28.59	118.59	1440	1419	3851	4831	1440	1419	2.55	60.45
2	3	89.81	208.40	208.40	118.59	118.59		1419	1419	4831	4831	1419	1419	2.55	60.45

TEST PHASE: FLOW PERIOD # 1

TIME		DATE		ELAPSED TIME		DELTA TIME		BOT HOLE PRESSURE		DELTA P		LOG HORNER	
OF DAY	HH:MM:SS	DD-MM		MIN		MIN		PSIA		PSI		TIME	
23:49:00	11-JAN			0.00		0.00		1440					
23:51:33	11-JAN			2.55		2.55		1440					

TEST PHASE: SHUTIN PERIOD # 1

FINAL FLOW PRESSURE - 1440 PSIA
 PRODUCING TIME - 2.55 MIN

TIME		DATE		ELAPSED TIME		DELTA TIME		BOT HOLE PRESSURE		DELTA P		LOG HORNER	
OF DAY	HH:MM:SS	DD-MM		MIN		MIN		PSIA		PSI		TIME	
23:51:33	11-JAN			2.55		0.00		1440		0		0.5410	
23:52:35	11-JAN			3.58		1.03		1635		186		0.3430	
23:53:40	11-JAN			4.67		2.12		1792		352		0.2521	
23:54:47	11-JAN			5.79		3.24		1948		508		0.2041	
23:55:48	11-JAN			6.80		4.25		2086		646		0.1657	
23:57:02	11-JAN			8.04		5.49		2237		797		0.1399	
23:58:16	11-JAN			9.26		6.71		2374		935		0.1230	
23:59:20	11-JAN			10.34		7.79		2485		1046		0.1087	
0:00:31	12-JAN			11.52		8.97		2601		1161		0.0969	
0:01:45	12-JAN			12.75		10.20		2715		1275		0.0816	
0:03:53	12-JAN			14.89		12.34		2905		1465		0.0696	
0:06:13	12-JAN			17.21		14.66		3082		1642		0.0608	
0:08:31	12-JAN			19.51		16.96		3235		1815		0.0544	
0:10:40	12-JAN			21.66		19.11		3392		1956		0.0485	
0:13:04	12-JAN			24.07		21.52		3522		2082		0.0445	
0:15:11	12-JAN			26.18		23.63		3666		2186		0.0407	
0:17:29	12-JAN			28.48		25.93		3775		2296		0.0378	
0:19:36	12-JAN			30.60		28.05		3877		2388		0.0371	
0:20:08	12-JAN			31.14		28.59		3851		2411			

TEST PHASE: FLOW PERIOD # 2

TIME		DATE		ELAPSED TIME		DELTA TIME		BOT HOLE PRESSURE		DELTA P		LOG HORNER	
OF DAY	HH:MM:SS	DD-MM		MIN		MIN		PSIA		PSI		TIME	
0:20:53	12-JAN			31.91		0.00		1419					
0:40:35	12-JAN			51.59		19.68		1419					
1:01:20	12-JAN			72.33		40.42		1419					
1:17:36	12-JAN			88.60		56.69		1419					
1:18:49	12-JAN			89.81		57.90		1419					

TEST PHASE: SHUTIN PERIOD # 2

FINAL FLOW PRESSURE - 1419 PSIA
 PRODUCING TIME - 60.45 MIN

TIME		DATE		ELAPSED TIME		DELTA TIME		BOT HOLE PRESSURE		DELTA P		LOG HORNER	
OF DAY	HH:MM:SS	DD-MM		MIN		MIN		PSIA		PSI		TIME	
1:18:49	12-JAN			89.81		0.00		1419		0		1.6900	
1:20:04	12-JAN			91.07		1.26		1556		137		1.4078	
1:21:16	12-JAN			92.27		2.46		1680		261		1.2612	
1:22:29	12-JAN			93.49		3.68		1803		383		1.1267	
1:23:41	12-JAN			94.69		4.88		1914		494		1.0683	
1:24:45	12-JAN			95.75		5.94		2001		581		0.9756	
1:25:58	12-JAN			96.96		7.15		2104		685			

TIME OF DAY	DATE	ELAPSED TIME	DELTA TIME	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
1:27:07	12-JAN	98.11	8.30	2203	784	0.9182
1:28:26	12-JAN	99.43	9.62	2306	887	0.8624
1:29:39	12-JAN	100.65	10.84	2401	982	0.8180
1:31:52	12-JAN	102.86	13.05	2539	1140	0.7507
1:33:58	12-JAN	104.96	15.15	2700	1281	0.6981
1:36:05	12-JAN	107.09	17.28	2847	1428	0.6530
1:40:39	12-JAN	109.42	19.61	2977	1558	0.6109
1:43:05	12-JAN	111.65	21.84	3093	1674	0.5761
1:45:11	12-JAN	114.09	24.28	3209	1790	0.5428
1:47:33	12-JAN	116.19	26.38	3311	1891	0.5174
1:49:57	12-JAN	118.55	28.74	3412	1992	0.4918
1:55:04	12-JAN	120.95	31.14	3511	2091	0.4685
2:00:17	12-JAN	126.06	36.25	3699	2279	0.4261
2:05:50	12-JAN	131.29	41.48	3864	2444	0.3905
2:11:32	12-JAN	142.54	52.73	4015	2595	0.3590
2:17:19	12-JAN	148.32	58.51	4275	2731	0.3317
2:22:52	12-JAN	153.86	64.05	4368	2856	0.3082
2:28:35	12-JAN	159.58	69.77	4450	2949	0.2887
2:33:53	12-JAN	164.89	75.08	4518	3031	0.2710
2:39:25	12-JAN	170.41	80.60	4580	3160	0.2630
2:44:25	12-JAN	175.41	85.60	4626	3207	0.2320
2:49:25	12-JAN	180.42	90.61	4669	3249	0.2220
2:55:02	12-JAN	186.03	96.22	4710	3291	0.2117
3:00:37	12-JAN	191.61	101.80	4747	3328	0.2024
3:05:55	12-JAN	196.92	107.11	4781	3361	0.1963
3:11:40	12-JAN	202.67	112.86	4808	3389	0.1863
3:17:24	12-JAN	208.40	118.59	4831	3412	0.1789

REGION: 1350	DISTRIBUTION OF REPORTS	FIELD: Midland
DISTRICT: Midland		ZONE: Devonian
BRSE: Hobbs		WELL: State 14-1
ENGINEER: Mike Fraley		LOCATION: 14/135/32E

SCHLUMBERGER has sent copies of this report to the following:

North Central Oil Corp.
6001 Savoy
Suite 600
Houston, TX 77036
Attn: Keith Alberson
(2 copies)

Any interpretations or recommendations are opinions and necessarily based on inferences and empirical factors and assumptions, which are not infallible. Accordingly, Schlumberger (Flopetrol Division) cannot and does not warrant the accuracy of correctness of any interpretation or measurement. Under no circumstances should any interpretation or measurement be relied upon as the sole basis for any drilling, completion, well treatment or production decision or any procedure involving risk to the safety of any drilling venture, drilling rig or its crew or any other individual. The Customer has full responsibility for all drilling, completion, well treatment, and production procedures, and all other activities relating to the drilling or production operation.