

REPORT NO.
139288

PAGE NO. 1

TEST DATE:
06-OCT-1995

STAR

Schlumberger Testing Data Report

Pressure Data Report

Schlumberger

COMPANY: GREAT WESTERN ONSHORE, INC.

WELL: NEW MEXICO STATE "15" #1

TEST IDENTIFICATION

Test Type OPEN HOLE DST
Test No. ONE
Formation SAN ANDREAS
Test Interval (ft) 5080 to 5158
Depth Reference GL

WELL LOCATION

Field WILDCAT
County LEA
State NEW MEXICO
Sec/Twn/Rng S15-11S-38E
Elevation (ft) 3887

HOLE CONDITIONS

Total Depth (MD/TVD) (ft) 5158
Hole Size (in) 7.875
Casing/Liner I.D. (in) 8.625
Perf'd Interval/Net Pay (ft) .. / 10
Shot Density/Diameter (in) ...

MUD PROPERTIES

Mud Type FRESH WATER
Mud Weight (lb/gal) 8.3
Mud Resistivity (ohm.m)
Filtrate Resistivity (ohm.m) .. 1.347 @ 60F
Filtrate Chlorides (ppm) 5000

INITIAL TEST CONDITIONS

Initial Hydrostatic (psi) 2186.65
Gas Cushion Type
Surface Pressure (psi)
Liquid Cushion Type
Cushion Length (ft)

TEST STRING CONFIGURATION

Pipe Length (ft)/I.D. (in) ... 4474 / 3.826
Collar Length (ft)/I.D. (in) .. 620 / 2.25
Packer Depths (ft) 5074, 5080,
Bottomhole Choke Size (in) ... 0.94
Gauge Depth (ft)/Type 5052/SB-20232

NET PIPE RECOVERY

Volume	Fluid Type	Properties
	RAT HOLE MUD	
341 ft	TRACE OF OIL	
	TOP	Rwl. 1.347 @ 60F 5000ppm
	MID	Rwl. 1.347 @ 60F 5000ppm
	BOT	Rwl. 1.347 @ 60F 5000ppm

NET SAMPLE CHAMBER RECOVERY

Volume	Fluid Type	Properties
.02 cuft	Gas	
2400 cc	Mud	Rwl. 1.347 @ 60F 5000ppm
Pressure: 112		GOR: 0
		GLR: 1

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 (%) 15
Reservoir Temperature (F) 108
Form. Vol. Factor (bbl/STB)

PRODUCTION RATE DURING TEST: Data Report

COMMENTS:

THIS DST ON THE SAN ANDREAS FORMATION WAS A SUCCESSFUL TEST. INTERVAL TESTED FLOWED 1.67 BBLs OF RAT HOLE MUD WITH A TRACE OF OIL. RES. OF MUD WAS 1.347 @ 60 DEG.. IF YOU HAVE ANY QUESTIONS CALL SCHLUMBERGER AT (505) 393-4107. THANK YOU.

WELL TEST INTERPRETATION REPORT #:139288		PAGE: 2.
CLIENT : GREAT WESTERN ONSHORE , INC.		8-OCT-95
REGION :CSD	SEQUENCE OF EVENTS	FIELD:WILDCAT
DISTRICT:HOBBS TEST		ZONE :SAN ANDREAS
BASE :MIDLAND		WELL :NM S. 15 #1
ENGINEER:MARK LUNA		LOCATION:S15-11S-38E

DATE	TIME (HR:MIN)	DESCRIPTION	ET (MINS)	BHP (PSIA)	WHP (PSIG)
06-OCT	17:52	SET PACKERS	-2		
	17:54	START FLOW ON 1/8" HOSE	0	16	.25"
	17:58	WEAK BLOW READ IN INCHES	4		1"H2O
	18:04	REACHED HIGHEST PRESSURE	10		1.5"
	18:06	END FLOW & START SHUT-IN	12	43	1.5"
	19:04	END SHUT-IN	70	1795	
	19:08	START FLOW ON 1/8" HOSE	74	48	1.5"
	19:13	WEAK BLOW IN INCHES H2O	79		2.5"
	19:28	REACHED HIGHEST PRESSURE	94		3.25"
	19:33	PRESSURE DROPPED	99		3.0"
	19:53	PRESSURE STABLE	119		3.0"
	20:08	END FLOW & START SHUT-IN	134	112	3.0"
	23:08	END SHUT-IN	314	1734	
	23:09	PULLED LOOSE	315	2183	

GREAT WESTERN ONSHORE , INC.
NEW MEXICO STATE "15" #1
TOOL STRING SCHEMATIC

	TOOL DESCRIPTION	OD	ID	LENGTH	DEPTH
	DRILL PIPE	4.50	3.826	4474	4474
	DRILL COLLARS	6.00	2.25	344.7	4818.7
	PUMPOUT DISK REVERSING VALVE	6.00	2.25	1.01	4819.71
	DRILL COLLARS	6.00	2.25	93.0	4912.71
	BREAKOFF PIN REVERSING VALVE	6.00	2.25	1.00	4913.71
	DRILL COLLARS	6.00	2.25	124.0	5037.71
	CROSS OVER SUBS	6.00	2.25	1.60	5039.31
	MFE (MFEV-B)	5.00	0.94	10.01	5049.32
	MFE OH BYPASS (MBYP-B)	5.00	1.18	3.04	5052.36
	RECORDER INSIDE ELECT.	4.75	1.12	5.90	5058.26
	TR HYDRAULIC JAR (FJAR-B)	4.75	1.88	7.90	5066.16
	SAFETY JOINT (SAJ-BA)	4.75	1.50	2.54	5068.7
	BOB TAIL PACKER	7.00	1.50	6.10	5074.8
	BOB TAIL PACKER	7.00	1.50	6.20	5081
	PERFORATED ANCHOR	5.75	3.00	1.00	5082
	CROSS OVER SUB	6.00	2.25	1.00	5083
	DRILL COLLARS	6.00	2.25	58.00	5141
	CROSS OVER SUB	6.00	2.25	1.00	5142
	PERFORATED ANCHOR	5.75	3.00	10.0	5152
	RECORDER OUTSIDE MECH.	5.75	1.12	6.00	5158

Report Number: 139288

Test Date: 06-OCT-1995

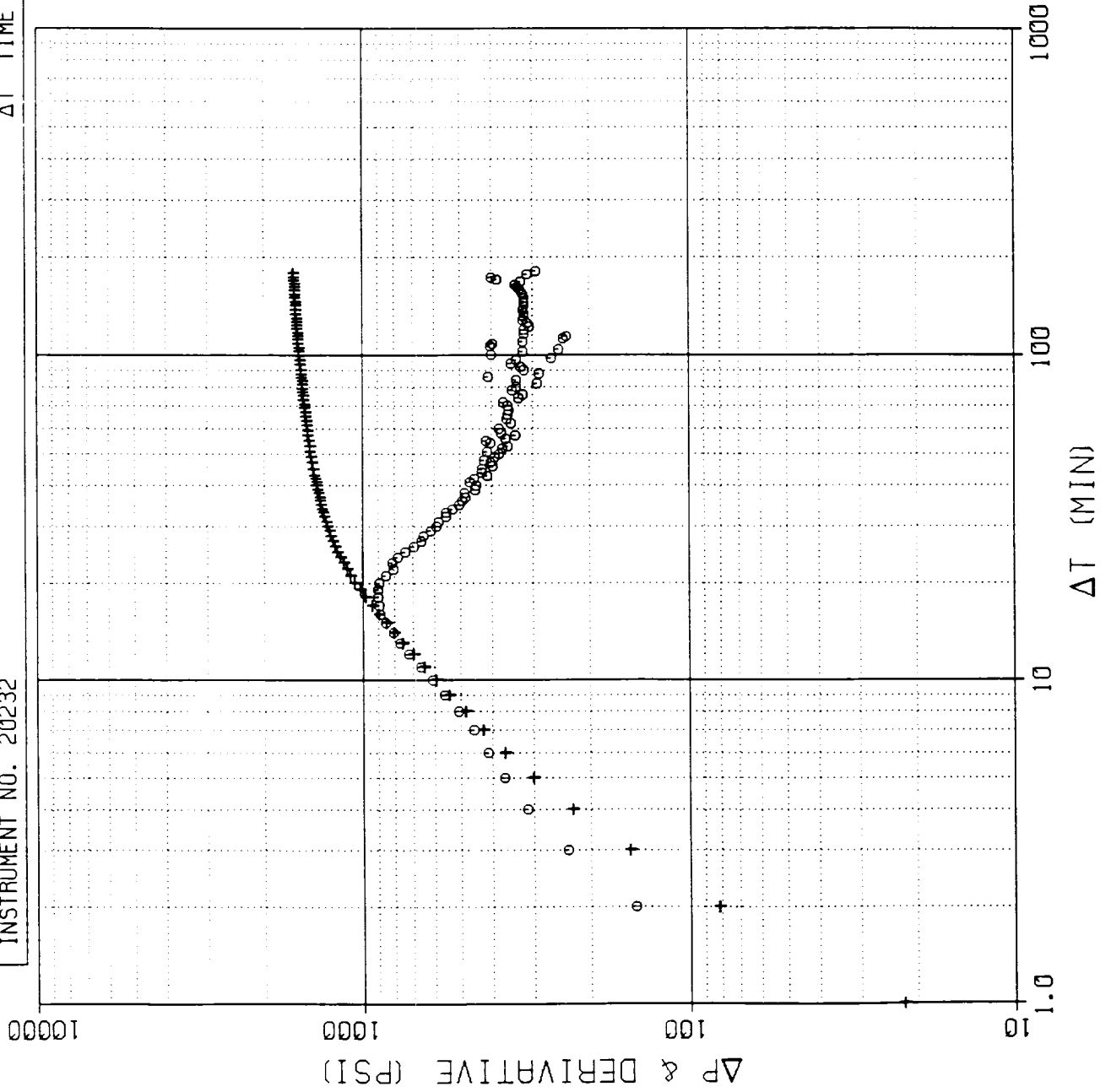
Note: All Depths to Bottom of Tool

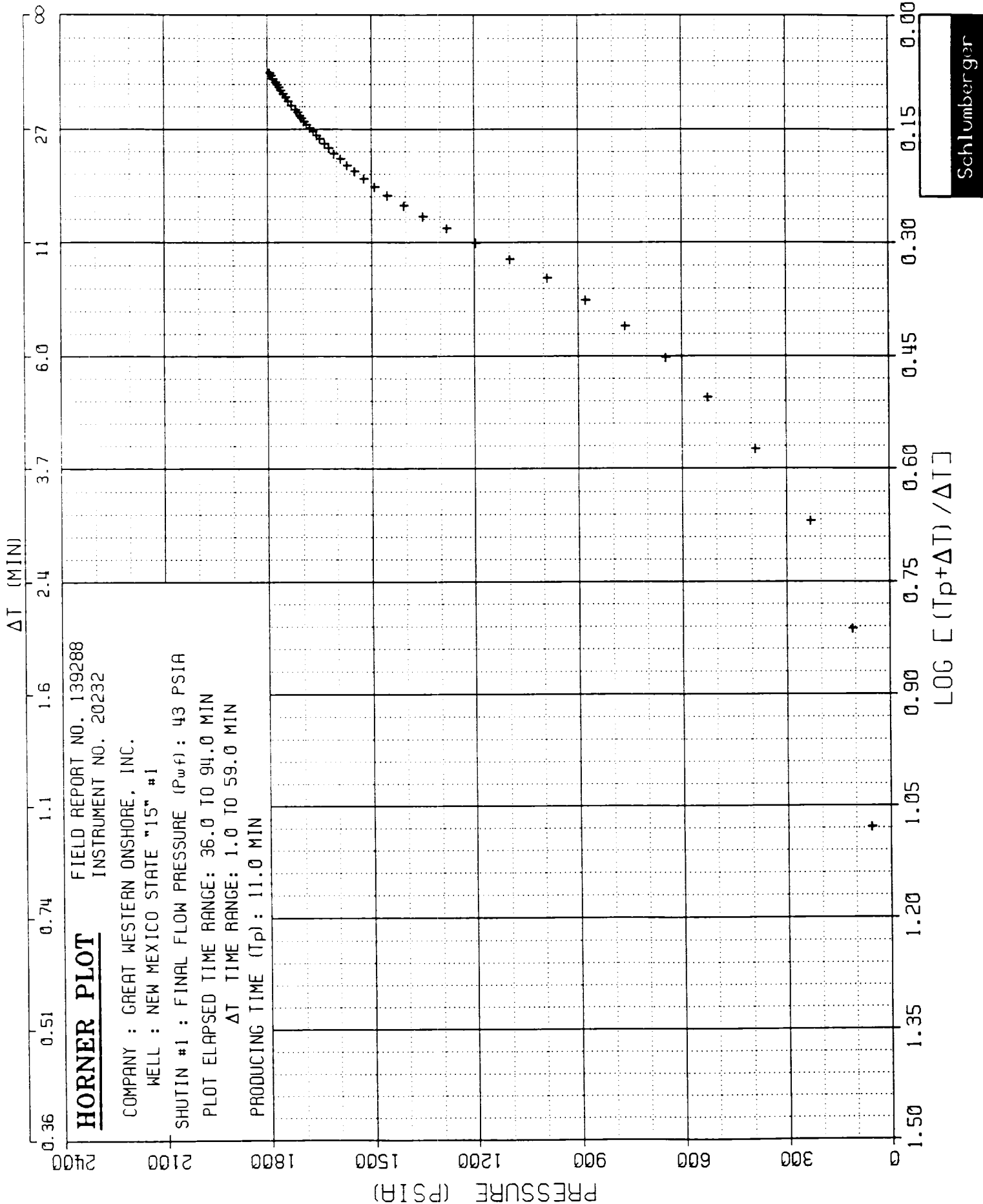
Schlumberger

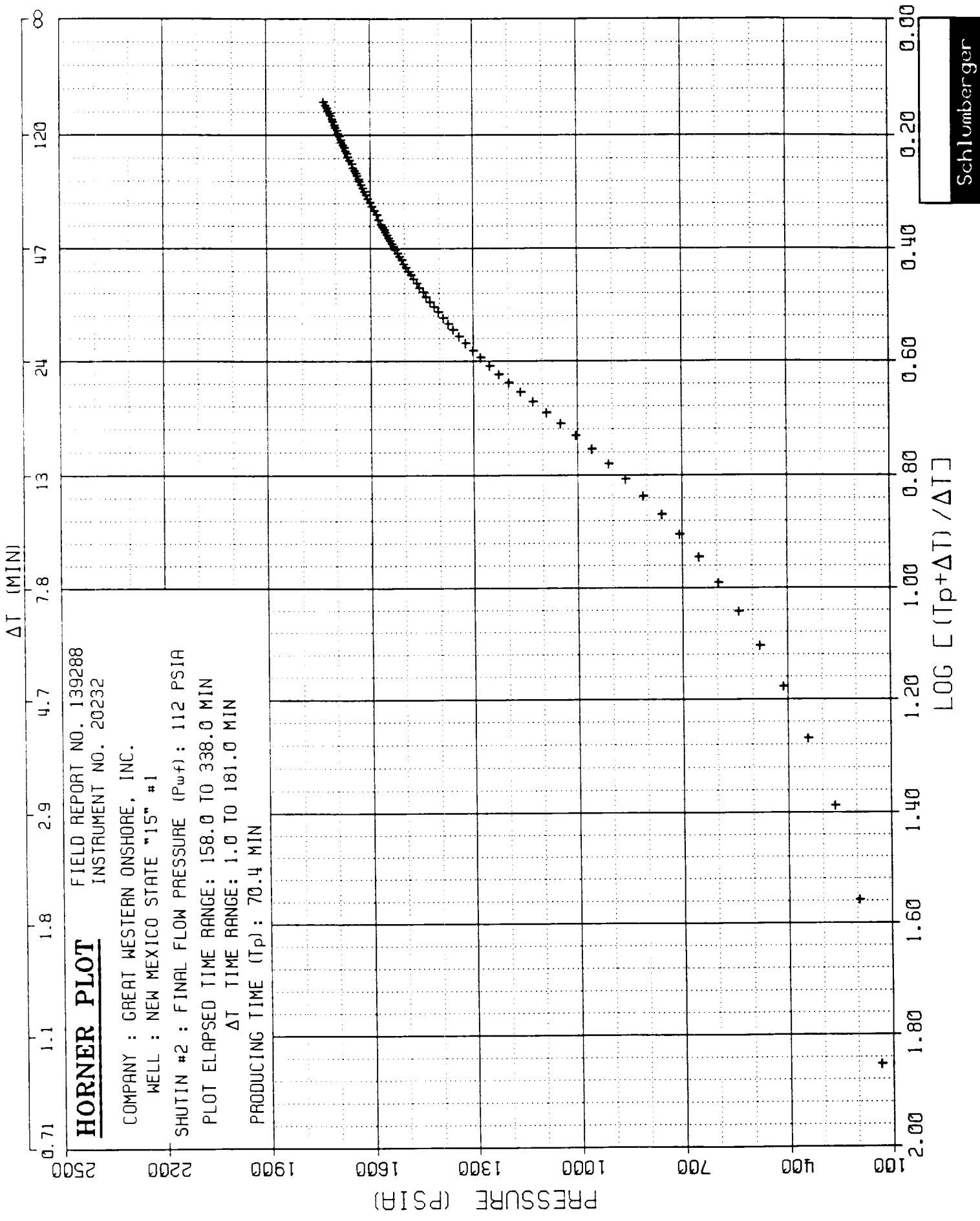
LOG LOG PLOT

COMPANY : GREAT WESTERN ONSHORE, INC.
WELL : NEW MEXICO STATE "15" #1
FIELD REPORT NO. 139288
INSTRUMENT NO. 20232

SHUTIN #2 : PRODUCING TIME (Tp): 70.4 MIN
FINAL FLOW PRESSURE (Pwf): 112 PSIA
PLOT ELAPSED TIME RANGE: 158.0 TO 338.0 MIN
ΔT TIME RANGE: 1.0 TO 181.0 MIN







BOTTOMHOLE PRESSURE LOG

FIELD REPORT NO. 139288

COMPANY : GREAT WESTERN ONSHORE, INC.

INSTRUMENT NO. 20232

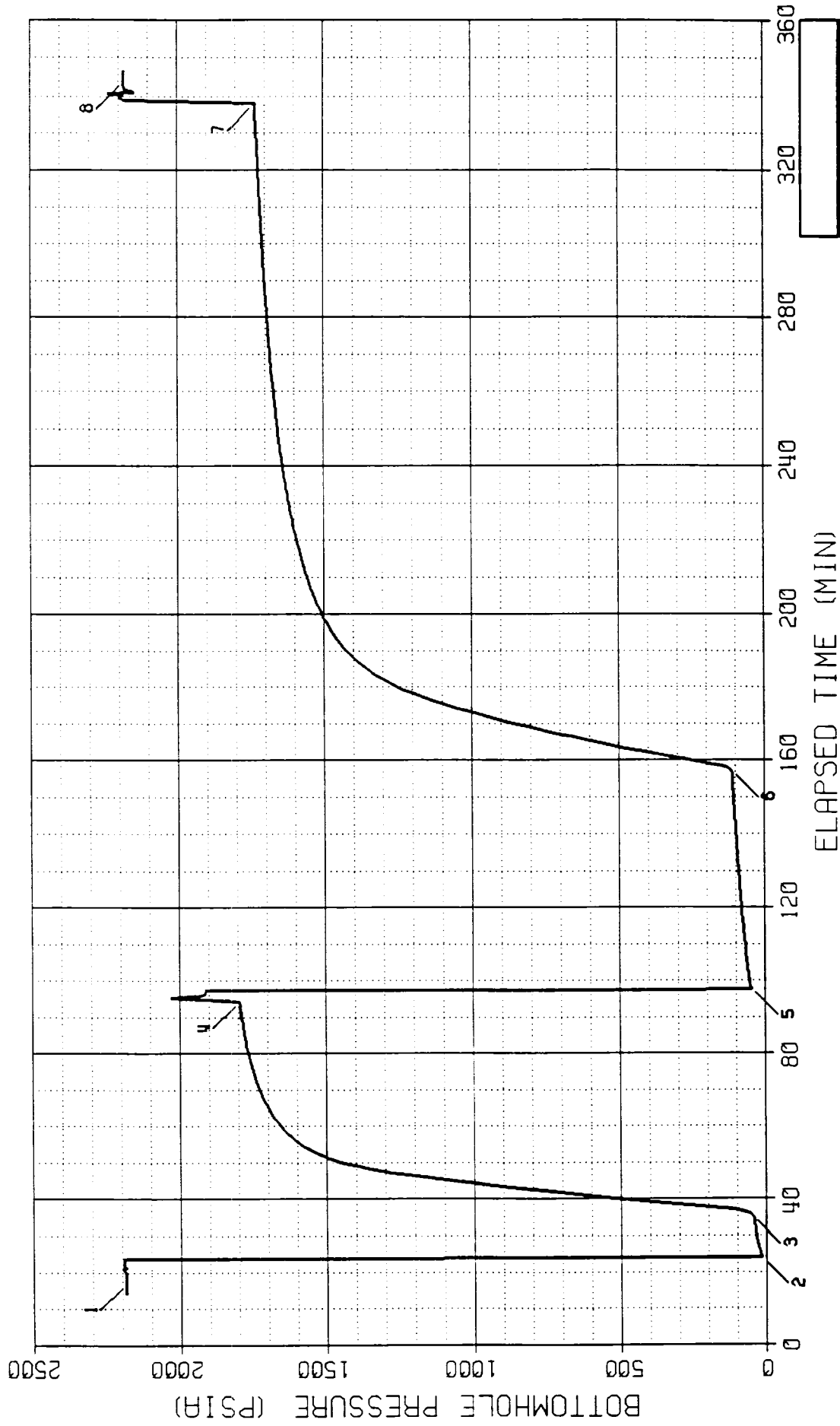
WELL : NEW MEXICO STATE "15" #1

DEPTH : 5052 FT

CAPACITY : 11014 PSI

PORT OPENING : INSIDE

Electronic Pressure Data



ELAPSED TIME (MIN)

Schlumberger

BOTTOMHOLE TEMPERATURE LOG

FIELD REPORT NO. 139288

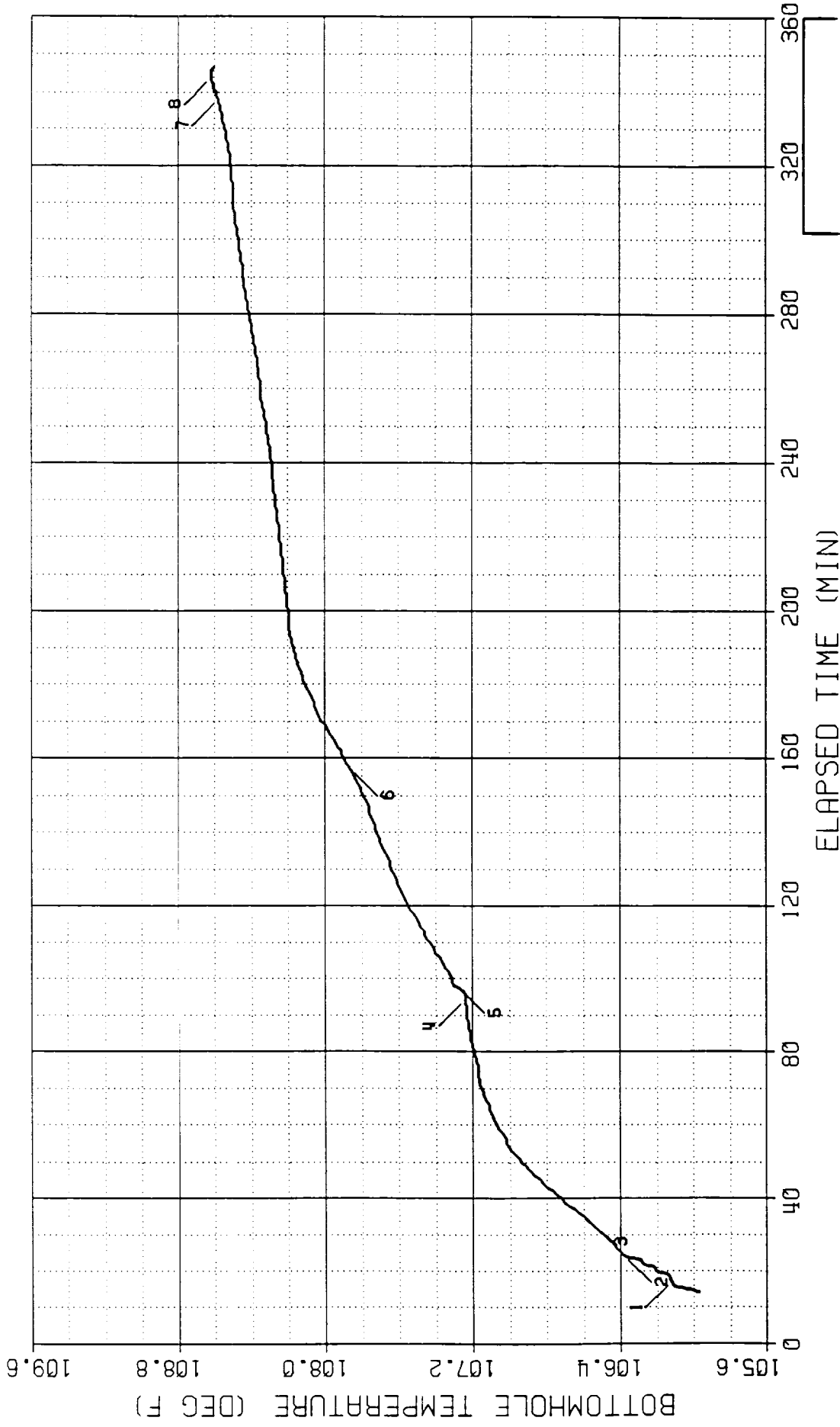
COMPANY : GREAT WESTERN ONSHORE, INC.

INSTRUMENT NO. 20232

WELL : NEW MEXICO STATE "15" #1

DEPTH : 5052 FT

Electronic Temperature Data



 ** WELL TEST DATA PRINTOUT **

COMPANY: GREAT WESTERN ONSHORE, INC.
 WELL: NEW MEXICO STATE "15" #1

FIELD REPORT NO. 139288
 INSTRUMENT NO. 20232

RECORDER CAPACITY: 11014 PSI PORT OPENING: INSIDE DEPTH: 5052 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	17:47:00	6-OCT	HYDROSTATIC MUD	17.00	2186.65	106.12
2	17:54:00	6-OCT	START FLOW	24.00	15.83	106.38
3	18:05:00	6-OCT	END FLOW & START SHUT-IN	35.00	42.75	106.60
4	19:04:00	6-OCT	END SHUT-IN	94.00	1795.30	107.24
5	19:07:36	6-OCT	START FLOW	97.60	47.63	107.28
6	20:07:00	6-OCT	END FLOW & START SHUT-IN	157.00	112.21	107.86
7	23:08:00	6-OCT	END SHUT-IN	338.00	1733.56	108.58
8	23:13:48	6-OCT	HYDROSTATIC MUD	343.80	2183.03	108.62

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	24.00	35.00	11.00	15.83	42.75	15.83
2	97.60	157.00	59.40	47.63	112.21	47.63

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	35.00	94.00	59.00	42.75	1795.30	42.75	11.00
2	157.00	338.00	181.00	112.21	1733.56	112.21	70.40

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				
17:54:00	6-OCT	24.00	0.00	106.38	15.83
18:05:00	6-OCT	35.00	11.00	106.60	42.75

TEST PHASE: SHUTIN PERIOD # 1 FINAL FLOW PRESSURE = 42.75 PSIA
 PRODUCING TIME = 11.00 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						
18:05:00	6-OCT	35.00	0.00	106.60	42.75	0.00	
18:06:00	6-OCT	36.00	1.00	106.63	56.34	13.59	1.0792
18:07:00	6-OCT	37.00	2.00	106.65	108.51	65.76	0.8129
18:08:00	6-OCT	38.00	3.00	106.68	229.95	187.20	0.6690
18:09:00	6-OCT	39.00	4.00	106.71	387.98	345.23	0.5740
18:10:00	6-OCT	40.00	5.00	106.72	524.73	481.98	0.5051
18:11:00	6-OCT	41.00	6.00	106.75	646.85	604.10	0.4523
18:12:00	6-OCT	42.00	7.00	106.77	763.84	721.09	0.4102
18:13:00	6-OCT	43.00	8.00	106.80	876.77	834.02	0.3757
18:14:00	6-OCT	44.00	9.00	106.82	988.65	945.90	0.3468
18:15:00	6-OCT	45.00	10.00	106.84	1096.49	1053.74	0.3222
18:17:00	6-OCT	47.00	12.00	106.88	1279.77	1237.02	0.2825
18:19:00	6-OCT	49.00	14.00	106.92	1405.99	1363.24	0.2518
18:21:00	6-OCT	51.00	16.00	106.95	1489.33	1446.58	0.2272
18:23:00	6-OCT	53.00	18.00	106.99	1547.07	1504.32	0.2071
18:25:00	6-OCT	55.00	20.00	107.02	1589.05	1546.30	0.1903
18:27:00	6-OCT	57.00	22.00	107.03	1621.29	1578.54	0.1761
18:29:00	6-OCT	59.00	24.00	107.06	1647.33	1604.58	0.1639
18:31:00	6-OCT	61.00	26.00	107.08	1668.14	1625.39	0.1532
18:33:00	6-OCT	63.00	28.00	107.10	1685.57	1642.82	0.1439
18:35:00	6-OCT	65.00	30.00	107.11	1700.54	1657.79	0.1357
18:40:00	6-OCT	70.00	35.00	107.15	1729.81	1687.06	0.1187
18:45:00	6-OCT	75.00	40.00	107.17	1750.62	1707.87	0.1055
18:50:00	6-OCT	80.00	45.00	107.19	1766.61	1723.86	0.0950
18:55:00	6-OCT	85.00	50.00	107.21	1779.24	1736.49	0.0864
19:00:00	6-OCT	90.00	55.00	107.23	1788.37	1745.62	0.0792
19:04:00	6-OCT	94.00	59.00	107.24	1795.30	1752.55	0.0742

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				
19:07:36	6-OCT	97.60	0.00	107.28	47.63
19:23:00	6-OCT	113.00	15.40	107.46	72.20
19:38:00	6-OCT	128.00	30.40	107.62	88.19
19:53:00	6-OCT	143.00	45.40	107.74	101.00
20:07:00	6-OCT	157.00	59.40	107.86	112.21

TEST PHASE: SHUTIN PERIOD # 2

FINAL FLOW PRESSURE = 112.21 PSIA

PRODUCING TIME = 70.40 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
20:07:00	6-OCT	157.00	0.00	107.86	112.21	0.00	
20:08:00	6-OCT	158.00	1.00	107.88	134.14	21.93	1.8537
20:09:00	6-OCT	159.00	2.00	107.89	193.22	81.01	1.5587
20:10:00	6-OCT	160.00	3.00	107.90	264.35	152.14	1.3886
20:11:00	6-OCT	161.00	4.00	107.91	339.79	227.58	1.2695
20:12:00	6-OCT	162.00	5.00	107.91	411.60	299.39	1.1784
20:13:00	6-OCT	163.00	6.00	107.93	477.32	365.11	1.1049
20:14:00	6-OCT	164.00	7.00	107.94	538.16	425.95	1.0436
20:15:00	6-OCT	165.00	8.00	107.95	595.60	483.39	0.9912
20:16:00	6-OCT	166.00	9.00	107.97	651.63	539.42	0.9456
20:17:00	6-OCT	167.00	10.00	107.98	706.29	594.08	0.9053
20:19:00	6-OCT	169.00	12.00	108.00	810.73	698.52	0.8367
20:21:00	6-OCT	171.00	14.00	108.03	910.38	798.17	0.7802
20:23:00	6-OCT	173.00	16.00	108.05	1003.59	891.38	0.7324
20:25:00	6-OCT	175.00	18.00	108.06	1088.13	975.92	0.6912
20:27:00	6-OCT	177.00	20.00	108.08	1162.50	1050.29	0.6551
20:29:00	6-OCT	179.00	22.00	108.10	1225.23	1113.02	0.6232
20:31:00	6-OCT	181.00	24.00	108.12	1278.23	1166.02	0.5948
20:33:00	6-OCT	183.00	26.00	108.13	1322.03	1209.82	0.5691
20:35:00	6-OCT	185.00	28.00	108.15	1357.49	1245.28	0.5458
20:37:00	6-OCT	187.00	30.00	108.16	1387.51	1275.30	0.5246
20:42:00	6-OCT	192.00	35.00	108.18	1445.70	1333.49	0.4788
20:47:00	6-OCT	197.00	40.00	108.20	1487.51	1375.30	0.4409
20:52:00	6-OCT	202.00	45.00	108.21	1520.22	1408.01	0.4090
20:57:00	6-OCT	207.00	50.00	108.22	1545.19	1432.98	0.3817
21:02:00	6-OCT	212.00	55.00	108.23	1566.64	1454.43	0.3579
21:07:00	6-OCT	217.00	60.00	108.24	1584.74	1472.53	0.3371
21:12:00	6-OCT	222.00	65.00	108.25	1599.87	1487.66	0.3187
21:17:00	6-OCT	227.00	70.00	108.26	1613.38	1501.17	0.3023
21:22:00	6-OCT	232.00	75.00	108.28	1624.67	1512.46	0.2875
21:27:00	6-OCT	237.00	80.00	108.29	1635.46	1523.25	0.2742
21:32:00	6-OCT	242.00	85.00	108.30	1643.85	1531.64	0.2620
21:37:00	6-OCT	247.00	90.00	108.31	1652.41	1540.20	0.2510
21:42:00	6-OCT	252.00	95.00	108.33	1661.18	1548.97	0.2408
21:47:00	6-OCT	257.00	100.00	108.35	1667.44	1555.23	0.2315
21:52:00	6-OCT	262.00	105.00	108.35	1673.85	1561.64	0.2228
21:57:00	6-OCT	267.00	110.00	108.37	1680.93	1568.72	0.2148
22:02:00	6-OCT	272.00	115.00	108.39	1685.30	1573.09	0.2074
22:07:00	6-OCT	277.00	120.00	108.40	1690.44	1578.23	0.2005
22:12:00	6-OCT	282.00	125.00	108.42	1694.97	1582.76	0.1940
22:17:00	6-OCT	287.00	130.00	108.44	1699.43	1587.22	0.1880
22:22:00	6-OCT	292.00	135.00	108.45	1703.61	1591.40	0.1823
22:27:00	6-OCT	297.00	140.00	108.47	1707.54	1595.33	0.1769
22:32:00	6-OCT	302.00	145.00	108.48	1711.24	1599.03	0.1719
22:37:00	6-OCT	307.00	150.00	108.49	1714.71	1602.50	0.1671
22:42:00	6-OCT	312.00	155.00	108.50	1718.03	1605.82	0.1626
22:47:00	6-OCT	317.00	160.00	108.51	1721.22	1609.01	0.1584
22:52:00	6-OCT	322.00	165.00	108.52	1724.35	1612.14	0.1543
22:57:00	6-OCT	327.00	170.00	108.54	1727.22	1615.01	0.1505
23:02:00	6-OCT	332.00	175.00	108.56	1730.28	1618.07	0.1468
23:07:00	6-OCT	337.00	180.00	108.58	1733.21	1621.00	0.1434
23:08:00	6-OCT	338.00	181.00	108.58	1733.56	1621.35	0.1427

WELL TEST INTERPRETATION REPORT #:139288		PAGE: 12.
CLIENT : GREAT WESTERN ONSHORE, INC.		8-OCT-95
REGION :CSD	DISTRIBUTION OF REPORTS	FIELD:WILDCAT
DISTRICT:HOBBS TEST		ZONE :SAN ANDREAS
BASE :MIDLAND		WELL :NM S. 15 #1
ENGINEER:MARK LUNA		LOCATION:S15-11S-38E

SCHLUMBERGER has sent copies of this report to the following:

=====

GREAT WESTERN ONSHORE, INC.
1111 BAGBY, STE. 1700
HOUSTON, TX 77002
Attn: ED KING
(3 copies)

ASHLAND EXPLORATION
P.O. BOX 218330
HOUSTON, TX 77218
Attn: EASTON HARRINGTON
(2 copies)

COLUMBIA GAS DEVLP. CORP.
ONE RIVERWAY, P.O. BOX
1350
HOUSTON, TX 77251
Attn: MIKE DOUGLAS
(3 copies)

ALLANTE JOINT VENTURE
500 WEST TEXAS, STE. 1000
MIDLAND, TX 79702
Attn: LEON JEFFCOAT
(1 copy)

CHARLES BRUNING, III
162 VISTA ROAD
LAKE ZURICH, IL 60047
Attn: CHARLES BRUNING
(1 copy)

Any interpretations or recommendations are opinions and necessarily based on inferences and empirical factors and assumptions, which are not infallible. Accordingly, Schlumberger (Flopetrol Johnston) 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 procedure, and all other activities relating to the drilling or production operation.

