

REPORT NO.
115684 REDO

PAGE NO. 4

TEST DATE:

27-FEB-1989

STAR™

A Schlumberger Transient Analysis Report Of A Schlumberger Drillstem Test

Schlumberger

Company: TIPPERARY OIL & GAS CORP.

Well: TIPPERARY SWH-29 #2

TEST IDENTIFICATION

Test Type OH DST
Test No. One
Formation Strawn
Test Interval (ft) ... 11090 to 11230
Reference Depth

WELL LOCATION

Field NE Lovington
County Lea
State New Mexico
Sec/Twn/Rng 29-16S-37E
Elevation (ft)

HOLE CONDITIONS

Total Depth (MD/TUD)(ft) . 11230
Hole Size (in) 7-7/8
Casing/Liner I.D. (in) ...
Perf'd Interv./Nt Pay(ft). -- / 20
Shot Density/Diameter(in).

MUD PROPERTIES

Mud Type Gel / Drispac
Mud Weight (lb/gal) 8.7
Mud Resistivity (ohm.m) .. 1.50 @ 70F
Filtrate Resistiv.(ohm.m).
Filtrate Chlorides (ppm) . 1800

INITIAL TEST CONDITIONS

Initial Hydrostatic (psi). 5162
Gas Cushion Type None
Surface Pressure (psi) ...
Liquid Cushion Type None
Cushion Length (ft)

TEST STRING CONFIGURATION

Pipe Length (ft)/I.D.(in). 10384
Collar Length ft/I.D.(in). 665
Packer Depths (ft) 11084, 11090
Bottomhole Choke Size(in). 15/16
Gauge Depth (ft)/Type 11223 / J-200

NET PIPE RECOVERY

Volume	Fluid Type	Properties
10 feet	Oil	39 API @ 60F
117 feet	Mud	Rw 1.50 @ 70F

NET SAMPLE CHAMBER RECOVERY

Volume	Fluid Type	Properties
0.36 cuft	Gas	
Trace	Mud	Cut with oil
Press. 55	GOR:	GLR:

VALIDATION RESULTS

Model of Behavior
Fluid Type Used
Reservoir Pressure (psi) .
Transmissivity (md.ft/cp)
Permeability (md)
Skin Factor/Damage Ratio .
Storativity Ratio
Interporosity Flow Coeff..
Distance to Anomaly (ft).
Investigation Radius (ft).
Potentiometric Surf. (ft).

ROCK/FLUID/WELLBORE PROPERTIES

Oil Density (deg. API) ...
Basic Solids (%)
Gas Gravity
Water Cut (%)
Viscosity (cp)
Tot. Compress. (1/psi) ...
Porosity (%)
Reservoir Temperature (F).
Form.Vol.Factor (bbl/STB).

PRODUCTION RATE DURING TEST: Data Report

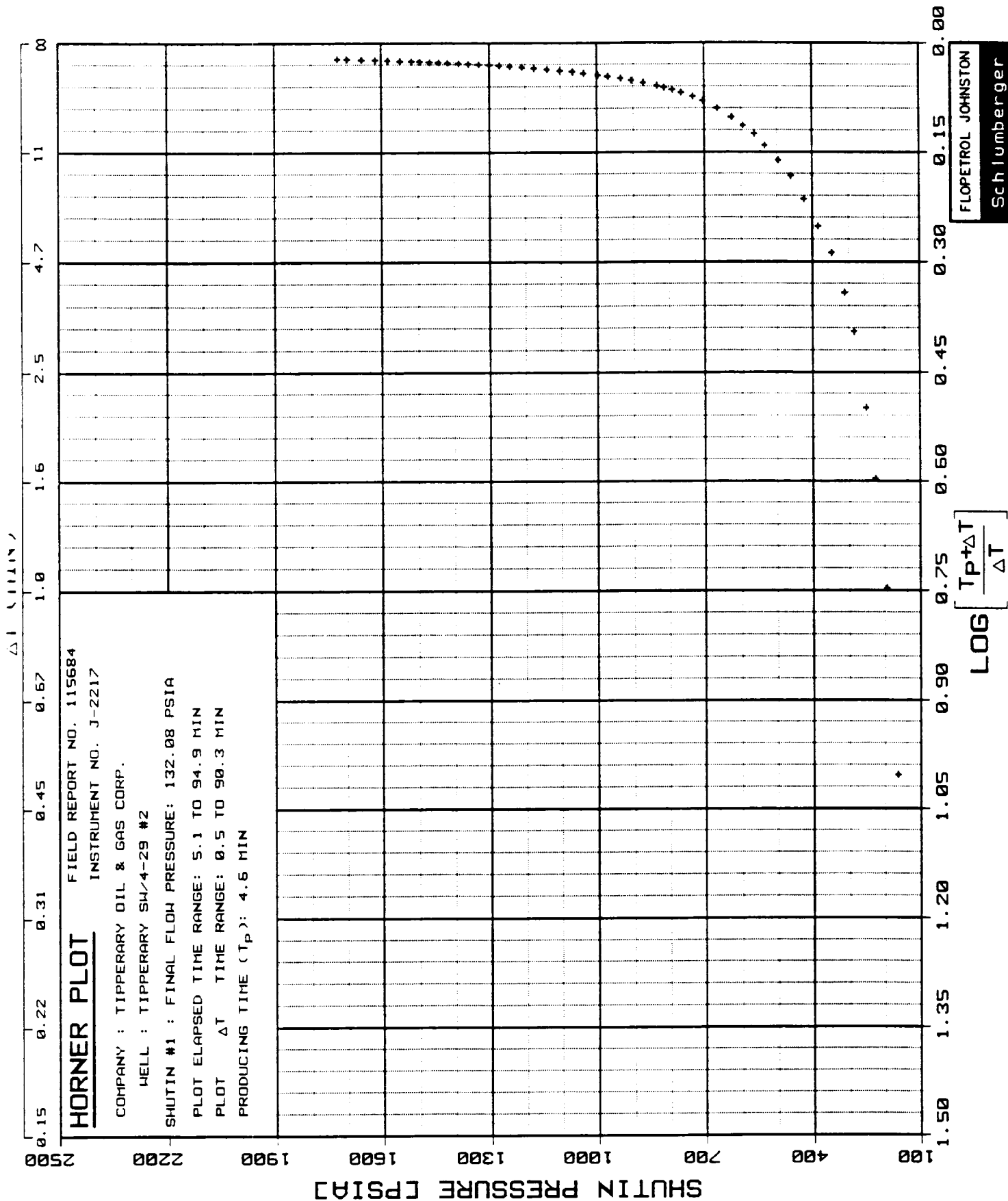
COMMENTS:

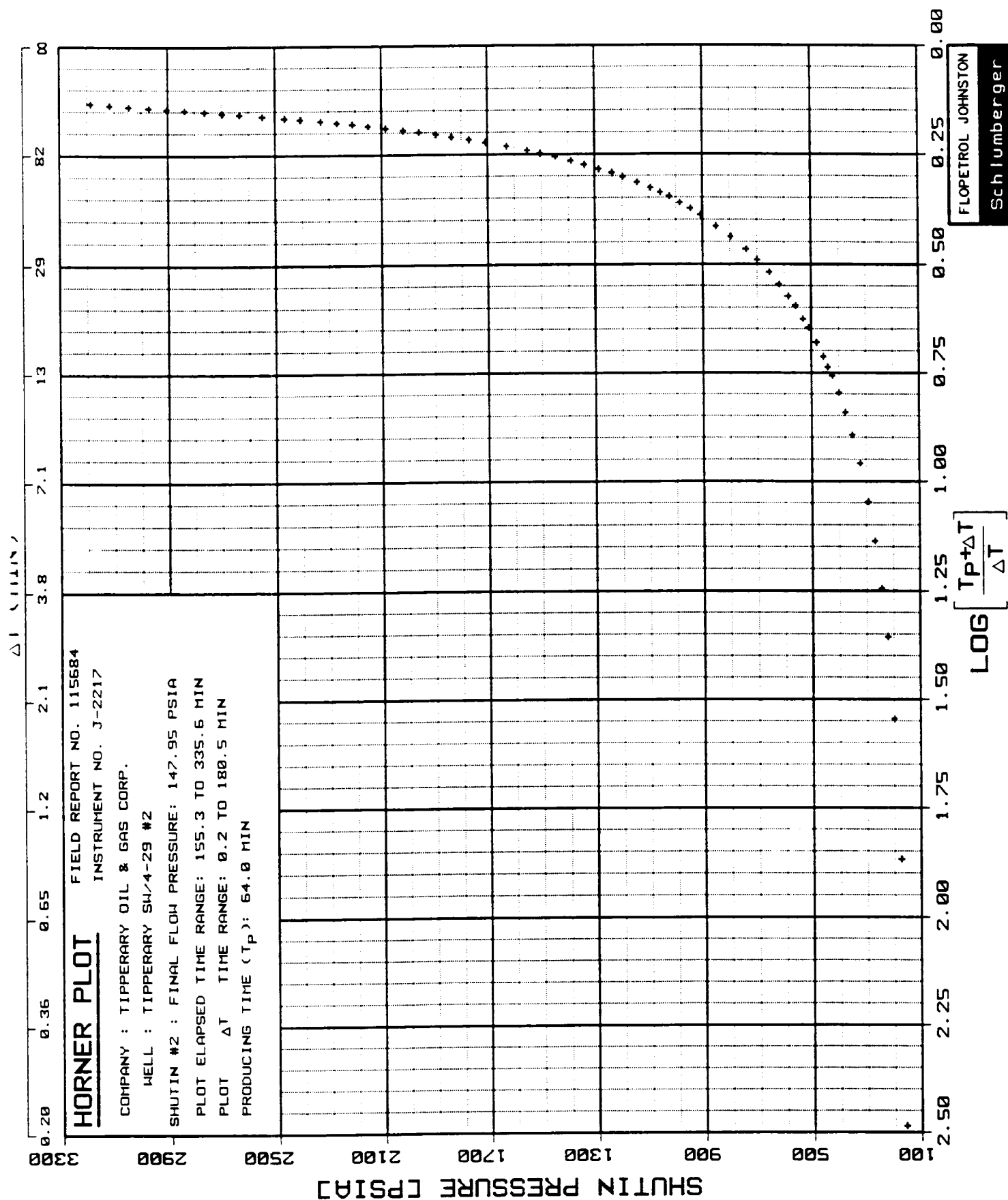
This test was mechanically successful. Gas and a trace of oil was recovered in the sample chamber. No gas flowed to surface. Ten feet of 39 API oil was recovered in the drill collars.

The general character of the bottomhole pressure chart indicates a zone of low permeability. The shutin times were too short to be analyzable for reservoir properties.

WELL TEST INTERPRETATION REPORT #:115684 DST 1		PAGE: 2,
CLIENT : TIPPERARY OIL & GAS		27-FEB-89
REGION :W.T.D.	SEQUENCE OF EVENTS	Field:NE Lovington
DISTRICT:Hobbs		Zone :Strawn
BASE :MDS		Well :T. SWH-29 #2
Engr :Brooks/ygh		Location:29-16S-37E

DATE	TIME (HR:MIN)	DESCRIPTION	ET (MINS)	BHP (PSIA)	WHP (PSIG)
02-26	10:18	SET PACKER, Hydrostatic	--	5162	
	10:20	START FLOW, Bubble hose	0.00	132	
	10:21	Good blow, bottom of bucket			
	10:25	END FLOW & START SHUTIN	4.63	132	0.75
	11:55	END SHUTIN	94.93	1723	
	11:56	START FLOW, Bubble hose	95.77	116	
	11:58	Good blow, bottom of bucket			
	12:01				2.75
	12:11				3.25
	12:21				3.50
	12:31				3.75
	12:41				3.75
	12:51				4.00
		No gas to surface			
	12:55	END FLOW & START SHUTIN	155.11	148	4.00
	15:56	END SHUTIN	335.61	3186	
	16:00	PULLED LOOSE, Hydrostatic			
		Did not reverse out			





LOG LOG PLOT

COMPANY : TIPPERARY OIL & GAS CORP.

WELL : TIPPERARY SW/4-29 #2

FIELD REPORT NO. 115684

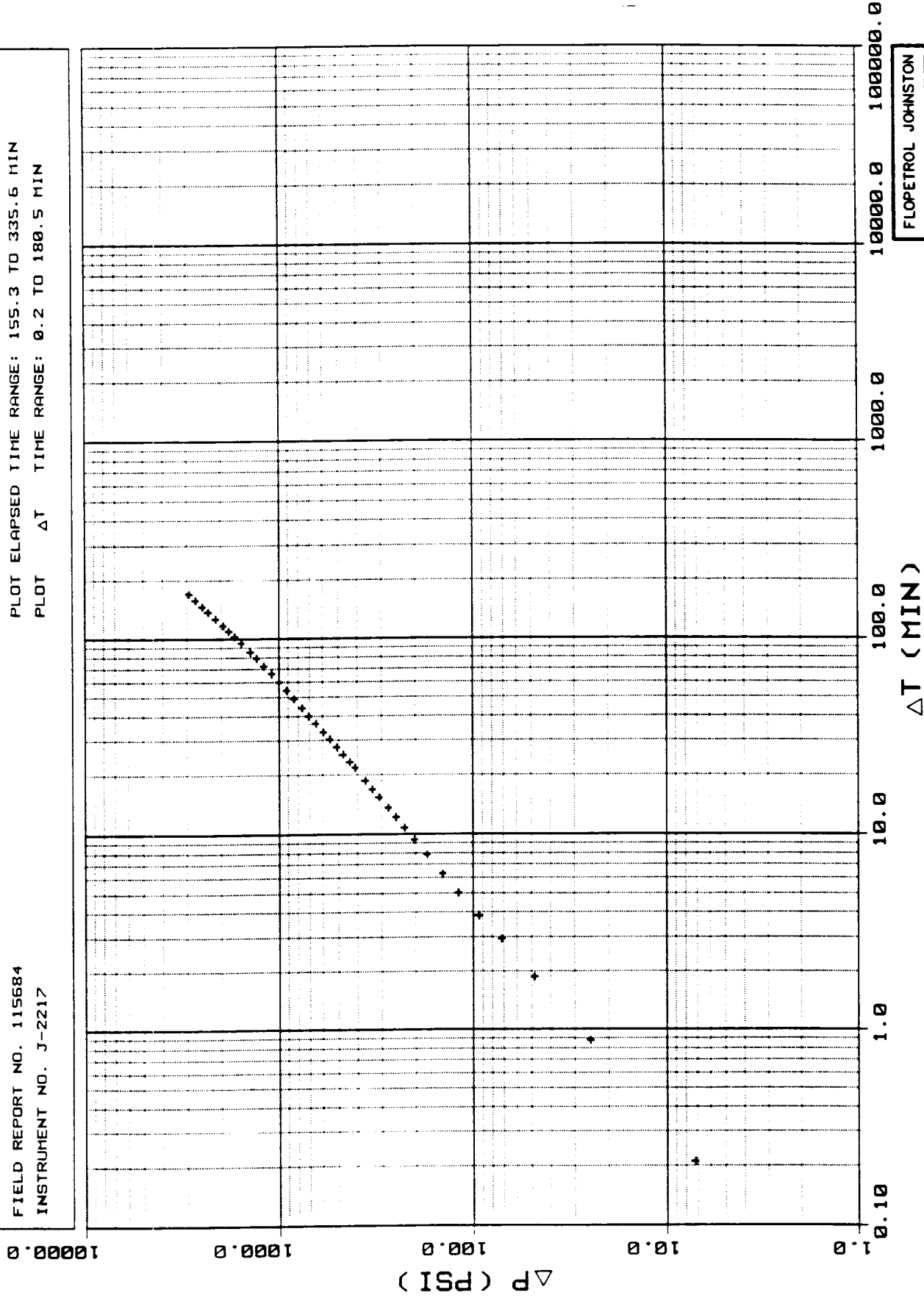
INSTRUMENT NO. J-2217

SHUTIN #2 :

FINAL FLOW PRESSURE (PWF) : 147.95 PSIA

PLOT ELAPSED TIME RANGE: 155.3 TO 335.6 MIN

PLOT ΔT TIME RANGE: 0.2 TO 180.5 MIN

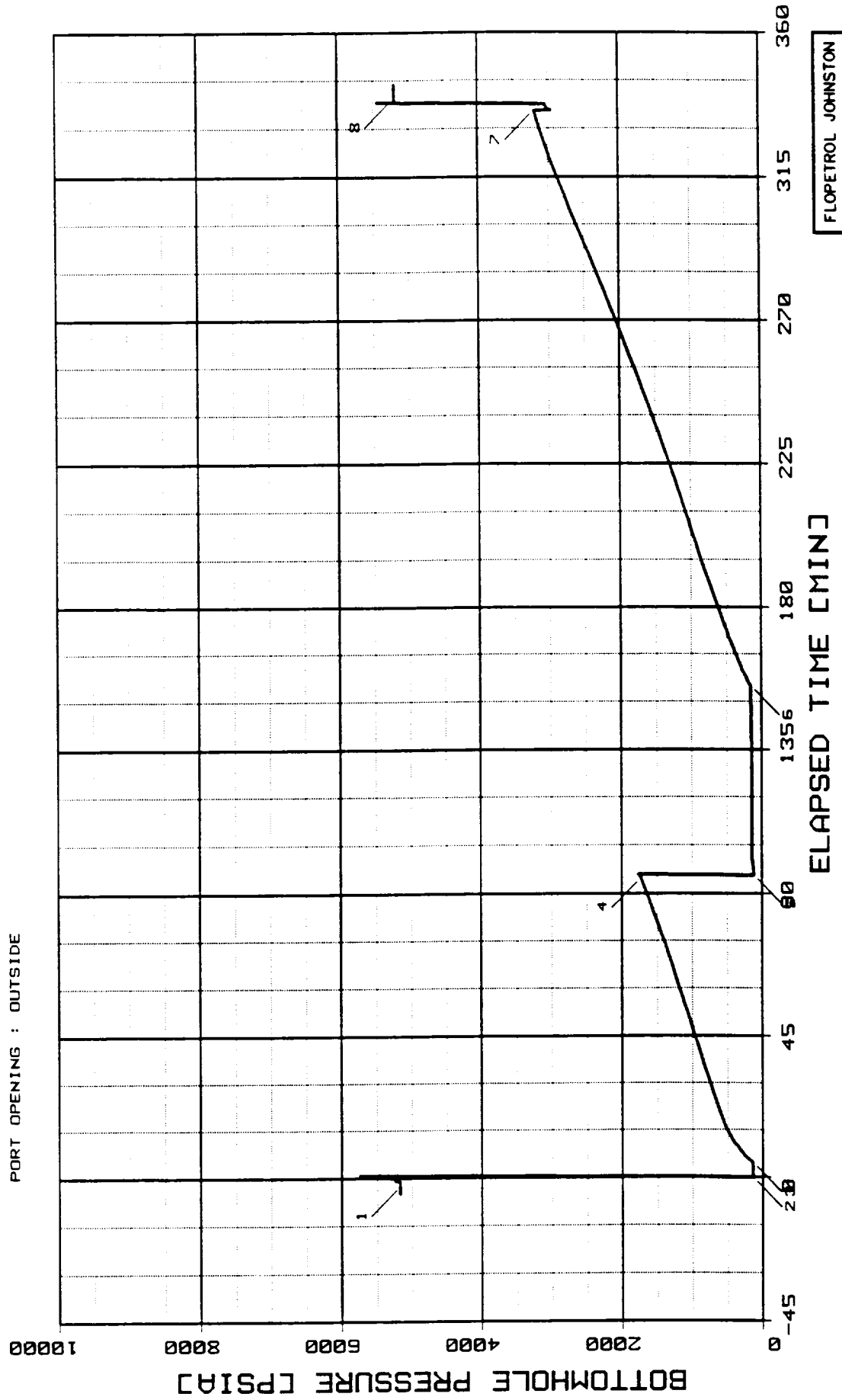


FLOPETROL JOHNSTON

Schlumberger

BOTTOMHOLE PRESSURE LOG

FIELD REPORT NO. 115684
INSTRUMENT NO. J-2217
DEPTH : 11223 FT
CAPACITY : 6400 PSI
PORT OPENING : OUTSIDE
COMPANY : TIPPERARY OIL & GAS CORP.
WELL : TIPPERARY SW-4-29 #2



 * WELL TEST DATA PRINTOUT *

FIELD REPORT # : 115684

COMPANY : TIPPERARY OIL & GAS CORP.
 WELL : TIPPERARY SW/4-29 #2

INSTRUMENT # : J-2217
 CAPACITY [PSI] : 6400.
 DEPTH [FT] : 11223.0
 PORT OPENING : OUTSIDE
 TEMPERATURE [DEG F] : 168.0

LABEL POINT INFORMATION

#	TIME OF DAY	DATE	EXPLANATION	ELAPSED TIME, MIN	BOT HOLE PRESSURE PSIA
***	HH:MM:SS	DD-MM	*****	*****	*****
1	10:17:30	26-FB	HYDROSTATIC MUD	-2.50	5162
2	10:20: 0	26-FB	START FLOW	0.00	132
3	10:24:38	26-FB	END FLOW & START SHUT-IN	4.63	132
4	11:54:56	26-FB	END SHUT-IN	94.93	1723
5	11:55:46	26-FB	START FLOW	95.77	116
6	12:55: 7	26-FB	END FLOW & START SHUT-IN	155.11	148
7	15:55:37	26-FB	END SHUT-IN	335.61	3186
8	15:59:49	26-FB	HYDROSTATIC MUD	339.81	5184

SUMMARY OF FLOW PERIODS

PERIOD	START ELAPSED TIME, MIN	END ELAPSED TIME, MIN	DURATION MIN	START PRESSURE PSIA	END PRESSURE PSIA
*****	*****	*****	*****	*****	*****
1	0.00	4.63	4.63	132	132
2	95.77	155.11	59.34	116	148

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	4.63	94.93	90.30	132	1723	132	4.63
2	155.11	335.61	180.50	148	3186	148	63.97

TEST PHASE : FLOW PERIOD # 1

TIME OF DAY	DATE	ELAPSED TIME, MIN	DELTA TIME, MIN	BOT HOLE PRESSURE PSIA
10:20:00	26-FB	0.00	0.00	132
10:24:38	26-FB	4.63	4.63	132

TEST PHASE : SHUTIN PERIOD # 1

FINAL FLOW PRESSURE [PSIA] = 132

PRODUCING TIME [MIN] = 4.63

TIME OF DAY	DATE	ELAPSED TIME, MIN	DELTA TIME, MIN	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
10:24:38	26-FB	4.63	0.00	132	0	
10:25:38	26-FB	5.63	1.00	192	60	0.751
10:26:38	26-FB	6.63	2.00	244	111	0.520
10:27:38	26-FB	7.63	3.00	279	147	0.405
10:28:38	26-FB	8.63	4.00	314	182	0.334
10:29:38	26-FB	9.63	5.00	348	216	0.285
10:30:38	26-FB	10.63	6.00	385	253	0.248
10:31:38	26-FB	11.63	7.00	415	282	0.220
10:32:38	26-FB	12.63	8.00	439	307	0.198
10:33:38	26-FB	13.63	9.00	463	330	0.180
10:34:38	26-FB	14.63	10.00	487	355	0.165
10:36:38	26-FB	16.63	12.00	530	398	0.142
10:38:38	26-FB	18.63	14.00	563	431	0.124
10:40:38	26-FB	20.63	16.00	599	467	0.110
10:42:38	26-FB	22.63	18.00	630	498	0.099
10:44:38	26-FB	24.63	20.00	660	527	0.090
10:46:38	26-FB	26.63	22.00	688	556	0.083
10:48:38	26-FB	28.63	24.00	717	585	0.077
10:50:38	26-FB	30.63	26.00	746	614	0.071
10:52:38	26-FB	32.63	28.00	775	643	0.066
10:54:38	26-FB	34.63	30.00	804	672	0.062
10:59:38	26-FB	39.63	35.00	875	743	0.054
11: 4:38	26-FB	44.63	40.00	947	815	0.048
11: 9:38	26-FB	49.63	45.00	1019	887	0.043
11:14:38	26-FB	54.63	50.00	1093	961	0.038
11:19:38	26-FB	59.63	55.00	1166	1034	0.035
11:24:38	26-FB	64.63	60.00	1239	1106	0.032
11:29:38	26-FB	69.63	65.00	1313	1181	0.030
11:34:38	26-FB	74.63	70.00	1389	1257	0.028
11:39:38	26-FB	79.63	75.00	1469	1337	0.026
11:44:38	26-FB	84.63	80.00	1549	1417	0.024
11:49:38	26-FB	89.63	85.00	1630	1498	0.023
11:54:38	26-FB	94.63	90.00	1718	1585	0.022
11:54:56	26-FB	94.93	90.30	1723	1591	0.022

TEST PHASE : FLOW PERIOD # 2

TIME OF DAY	DATE	ELAPSED TIME,MIN	DELTA TIME,MIN	BOT HOLE PRESSURE PSIA
HH:MM:SS	DD-MM	*****	*****	*****
11:55:46	26-FB	95.77	0.00	116
12: 0:46	26-FB	100.77	5.00	133
12: 5:46	26-FB	105.77	10.00	136
12:10:46	26-FB	110.77	15.00	136
12:15:46	26-FB	115.77	20.00	137
12:20:46	26-FB	120.77	25.00	138
12:25:46	26-FB	125.77	30.00	138
12:30:46	26-FB	130.77	35.00	139
12:35:46	26-FB	135.77	40.00	139
12:40:46	26-FB	140.77	45.00	141
12:45:46	26-FB	145.77	50.00	145
12:50:46	26-FB	150.77	55.00	147
12:55: 7	26-FB	155.11	59.34	148

TEST PHASE : SHUTIN PERIOD # 2
 FINAL FLOW PRESSURE [PSIA] = 148
 PRODUCING TIME [MIN] = 63.97

TIME OF DAY	DATE	ELAPSED TIME,MIN	DELTA TIME,MIN	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
HH:MM:SS	DD-MM	*****	*****	*****	*****	*****
12:55: 7	26-FB	155.11	0.00	148	0	
12:56: 7	26-FB	156.11	1.00	175	27	1.813
12:57: 7	26-FB	157.11	2.00	199	51	1.518
12:58: 7	26-FB	158.11	3.00	220	72	1.349
12:59: 7	26-FB	159.11	4.00	244	96	1.230
13: 0: 7	26-FB	160.11	5.00	266	118	1.140
13: 1: 7	26-FB	161.11	6.00	285	137	1.067
13: 2: 7	26-FB	162.11	7.00	304	156	1.006
13: 3: 7	26-FB	163.11	8.00	323	175	0.954
13: 4: 7	26-FB	164.11	9.00	342	194	0.909
13: 5: 7	26-FB	165.11	10.00	361	213	0.869
13: 7: 7	26-FB	167.11	12.00	395	247	0.801
13: 9: 7	26-FB	169.11	14.00	432	284	0.746
13:11: 7	26-FB	171.11	16.00	465	317	0.699
13:13: 7	26-FB	173.11	18.00	498	350	0.658
13:15: 7	26-FB	175.11	20.00	531	383	0.623
13:17: 7	26-FB	177.11	22.00	559	411	0.592
13:19: 7	26-FB	179.11	24.00	593	445	0.564
13:21: 7	26-FB	181.11	26.00	625	477	0.539
13:23: 7	26-FB	183.11	28.00	656	508	0.516
13:25: 7	26-FB	185.11	30.00	688	540	0.496
13:30: 7	26-FB	190.11	35.00	765	617	0.451
13:35: 7	26-FB	195.11	40.00	846	698	0.415
13:40: 7	26-FB	200.11	45.00	918	770	0.384
13:45: 7	26-FB	205.11	50.00	991	843	0.358

TEST PHASE : SHUTIN PERIOD # 2
 FINAL FLOW PRESSURE [PSIA] = 148
 PRODUCING TIME [MIN] = 63.97

TIME OF DAY	DATE	ELAPSED TIME,MIN	DELTA TIME,MIN	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
*****	*****	*****	*****	*****	*****	*****
13:50:	7 26-FB	210.11	55.00	1063	915	0.335
13:55:	7 26-FB	215.11	60.00	1138	990	0.315
14: 0:	7 26-FB	220.11	65.00	1214	1066	0.298
14: 5:	7 26-FB	225.11	70.00	1294	1146	0.282
14:10:	7 26-FB	230.11	75.00	1372	1224	0.268
14:15:	7 26-FB	235.11	80.00	1453	1305	0.255
14:20:	7 26-FB	240.11	85.00	1535	1387	0.244
14:25:	7 26-FB	245.11	90.00	1616	1468	0.233
14:30:	7 26-FB	250.11	95.00	1697	1549	0.224
14:35:	7 26-FB	255.11	100.00	1783	1635	0.215
14:40:	7 26-FB	260.11	105.00	1869	1721	0.207
14:45:	7 26-FB	265.11	110.00	1955	1807	0.199
14:50:	7 26-FB	270.11	115.00	2047	1899	0.192
14:55:	7 26-FB	275.11	120.00	2134	1986	0.186
15: 0:	7 26-FB	280.11	125.00	2221	2073	0.179
15: 5:	7 26-FB	285.11	130.00	2314	2166	0.174
15:10:	7 26-FB	290.11	135.00	2405	2257	0.168
15:15:	7 26-FB	295.11	140.00	2501	2353	0.163
15:20:	7 26-FB	300.11	145.00	2594	2446	0.159
15:25:	7 26-FB	305.11	150.00	2685	2537	0.154
15:30:	7 26-FB	310.11	155.00	2773	2625	0.150
15:35:	7 26-FB	315.11	160.00	2863	2715	0.146
15:40:	7 26-FB	320.11	165.00	2950	2803	0.142
15:45:	7 26-FB	325.11	170.00	3032	2884	0.139
15:50:	7 26-FB	330.11	175.00	3107	2959	0.135
15:55:	7 26-FB	335.11	180.00	3178	3031	0.132
15:55:37	26-FB	335.61	180.50	3186	3038	0.132

WELL TEST INTERPRETATION REPORT #:115684 DST 1		PAGE: 11,
CLIENT : TIPPERARY OIL & GAS		27-FEB-89
REGION :W.T.D.	DISTRIBUTION OF REPORTS	Field:NE Lovington
DISTRICT:Hobbs		Zone :Strawn
BASE :MDS		Well :T. SWH-29 #2
Engr :Brooks/ygh		Location:29-16S-37E

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Midland, TX 79702
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