

REPORT NO.
147275

PAGE NO. 1

TEST DATE:
10-DEC-1995

S T A R

Schlumberger Testing Data Report
Pressure Data Report

Schlumberger

30-025-33160

35-13s-37e

COMPANY: GECKO, INC.

WELL: ^{Gecko} LOWE 1-Y

TEST IDENTIFICATION

Test Type OH-DST\NG
Test No. ONE
Formation STRAWN
Test Interval (ft) 11325 to 11436
Depth Reference KB

WELL LOCATION

Field WAC
County LEA
State NEW MEXICO
Sec/Twn/Rng SEC35 13S
Elevation (ft) 3868

HOLE CONDITIONS

Total Depth (MD/TVD) (ft)
Hole Size (in) 7.875
Casing/Liner I.D. (in) 8.75
Perf'd Interval/Net Pay (ft) .. / 111
Shot Density/Diameter (in) ...

MUD PROPERTIES

Mud Type F\W GELPAC
Mud Weight (lb/gal) 9.0
Mud Resistivity (ohm.m) 1.399 @ 60F
Filtrate Resistivity (ohm.m)..
Filtrate Chlorides (ppm) 4800

INITIAL TEST CONDITIONS

Initial Hydrostatic (psi) 5192.12
Gas Cushion Type
Surface Pressure (psi)
Liquid Cushion Type
Cushion Length (ft)

TEST STRING CONFIGURATION

Pipe Length (ft)/I.D. (in) ... 10723 / 3.34
Collar Length (ft)/I.D. (in) .. 649 / 2.25
Packer Depths (ft) 11319, 11325,
Bottomhole Choke Size (in)94
Gauge Depth (ft)/Type 11303/00013

NET PIPE RECOVERY

Volume	Fluid Type	Properties
	WATER CUT	
186 ft	DRILL MUD	Rw0.302@60F 25000ppm
1523 ft	FORM WATER	Rw0.138@60F 60000ppm

NET SAMPLE CHAMBER RECOVERY

Volume	Fluid Type	Properties
2100 cc	Water	Rw0.104@60F 83000pp
Pressure: 725		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 (%)
Reservoir Temperature (F) 168
Form.Vol.Factor (bbl/STB)

PRODUCTION RATE DURING TEST: Data Report

COMMENTS:

This drill stem test was mechanically successful.

Thank you for using Schlumberger. For questions about this report please call the Testing district.

WELL TEST INTERPRETATION REPORT #:147275		PAGE: 2.
CLIENT : GECKO, INC.		11-DEC-95
REGION :CSD	SEQUENCE OF EVENTS	FIELD:WVC
DISTRICT:MIDLAND		ZONE :STRAWN
BASE :MIDLAND		WELL :LOWE 1-Y
ENGINEER:DARREN STONE		LOCATION:SEC35 13S

DATE	TIME (HR:MIN)	DESCRIPTION	ET (MINS)	BHP (PSIA)	WHP (PSIG)
=====					
09-DEC	15:49	START FLOW (WEAK BLOW)	0	43	
	15:51	1.0 OZ	2		
	15:52	1.0 OZ	3		
	15:53	2.0 OZ	4		
	15:54	2.5 OZ	5		
	15:55	2.5 OZ	6		
	16:00	4.0 OZ	11		
	16:05	5.0 OZ	16		
	16:04	END FLOW & START SHUT-IN	15	264	
	17:05	END SHUT-IN	76	4318	
	17:07	START FLOW (WEAK BLOW)	78	275	
	17:09	.5 OZ	80		
	17:10	1.0 OZ	81		
	17:11	1.0 OZ	82		
	17:12	1.5 OZ	83		
	17:13	1.5 OZ	84		
	17:18	3.5 OZ	89		
	17:23	5.0 OZ	94		
	17:28	6.0 OZ	99		
	17:33	7.0 OZ	104		
	17:38	8.0 OZ	109		
	17:48	9.0 OZ	119		
	17:58	11.5 OZ	129		
	18:08	13.5 OZ	139		
	18:33	16.5 OZ	164		
	18:43	18.5 OZ	174		
	18:48	19.0 OZ	179		
	18:53	19.5 OZ	184		
	18:58	20.0 OZ	189		
	19:03	20.5 OZ	194		
	19:08	20.5 OZ	199		
	19:14	21.0 OZ	205		
	19:15	END FLOW & START SHUT-IN	206	963	
	23:19	END SHUT-IN	450	4303	

Continued next page

GECKO, INC.
LOWE 1-Y
TOOL STRING SCHEMATIC

	TOOL DESCRIPTION	OD	ID	LENGTH	DEPTH
	Drill Pipe to Surface	4.0	3.34	10723	10723
	Drill Collars	6.0	2.25	406.8	11129.8
	Pumpout Disk Reversing Valve	6.25	3.0	.95	11130.75
	Drill Collars	6.0	2.25	90.0	11220.75
	Breakoff Pin Reversing Valve	6.25	3.0	1.07	11221.82
	Drill Collars	6.0	2.25	60.0	11281.82
	Cross Over Sub	6.0	2.0	.95	11282.77
	Multi-Flow Evaluator Valve	5.0	0.94	9.90	11292.67
	MFE Open Hole Bypass	5.0	1.18	3.0	11295.67
	Inside Recorder Electronic	4.875	1.18	6.90	11302.57
	TR Hydraulic Jar	4.75	1.88	7.67	11310.24
	Safety Joint	4.75	2.5	2.54	11312.78
	Bob Tail Packer	7.0	1.5	6.20	11318.98
	Bob Tail Packer	7.0	1.5	6.22	11325.2
	Perforated Anchor	4.75	2.25	6.00	11331.2
	Cross Over Sub	6.25	2.25	.87	11332.07
	Drill Collars	6.0	2.25	92.07	11424.14
	Cross Over Sub	6.25	2.25	.95	11425.09
	Outside Recorder Mechanical	4.75	1.18	6.90	11431.99
	PERFORATED ANCHOR	4.75	2.25	3.00	11434.99
	Ported Bullnose	4.75	2.25	.50	11435.49

Report Number: 147275

Test Date: 10-DEC-1995

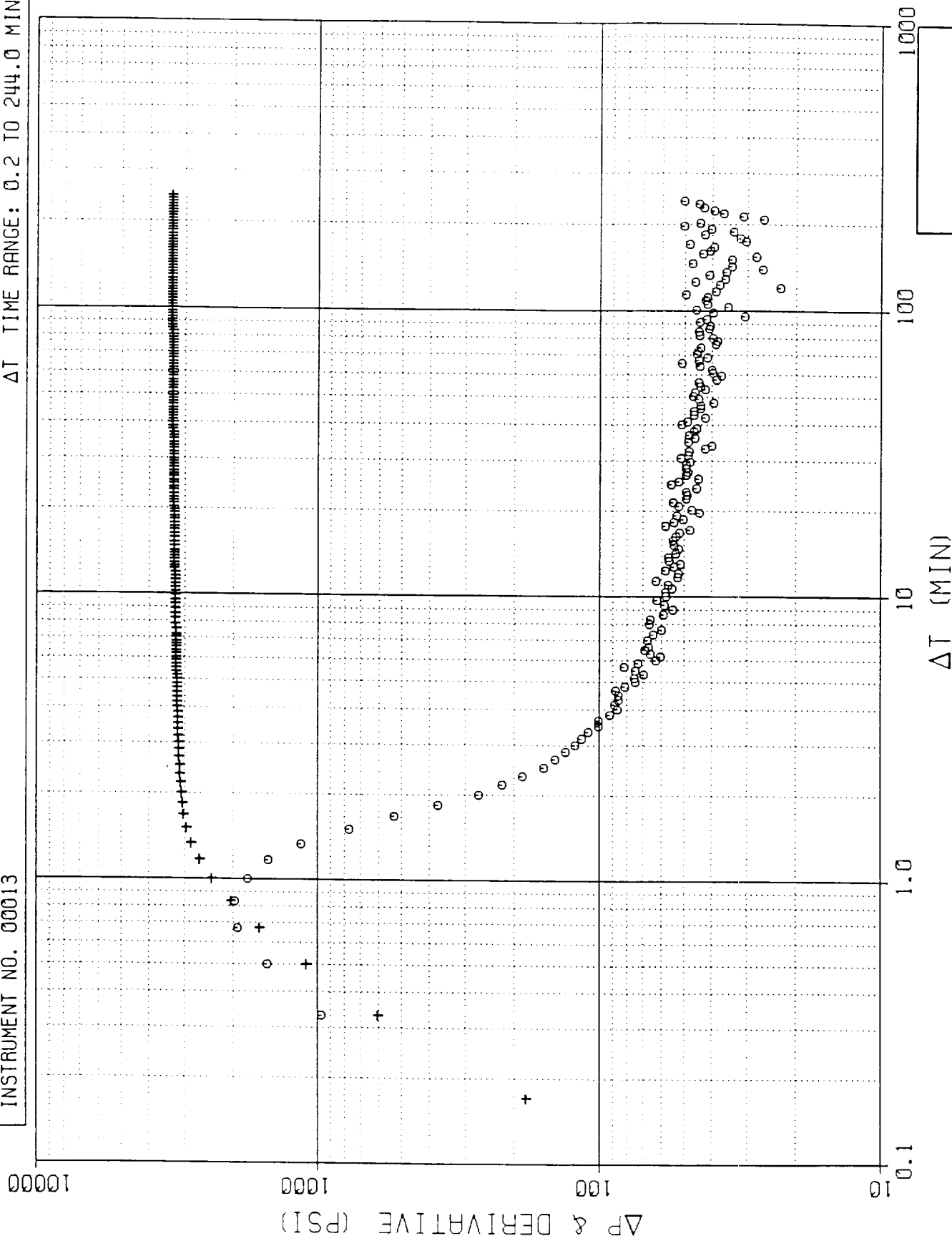
Note: All Depths to Bottom of Tool

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LOG LOG PLOT

COMPANY : GECKO, INC.
WELL : LOWE 1-Y
FIELD REPORT NO. 147275
INSTRUMENT NO. 00013

SHUTIN #2 : PRODUCING TIME (T_p): 143.2 MIN
FINAL FLOW PRESSURE (P_{wf}): 963 PSIA
PLOT ELAPSED TIME RANGE: 652.2 TO 896.0 MIN
 ΔT TIME RANGE: 0.2 TO 244.0 MIN



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ΔT (MIN)

0.16 0.25 0.40 0.65 1.1 1.7 2.9 5.3 10 27 80

HORNER PLOT

FIELD REPORT NO. 147275
INSTRUMENT NO. 00013

COMPANY : GECKO, INC.

WELL : LOWE 1-Y

SHUTIN #1 : FINAL FLOW PRESSURE (P_{wf}): 264 PSIA

PLOT ELAPSED TIME RANGE: 462.0 TO 522.7 MIN

ΔT TIME RANGE: 0.2 TO 60.8 MIN

PRODUCING TIME (T_p): 15.7 MIN

PRESSURE (PSIA)

5100

4500

3900

3300

2700

2100

1500

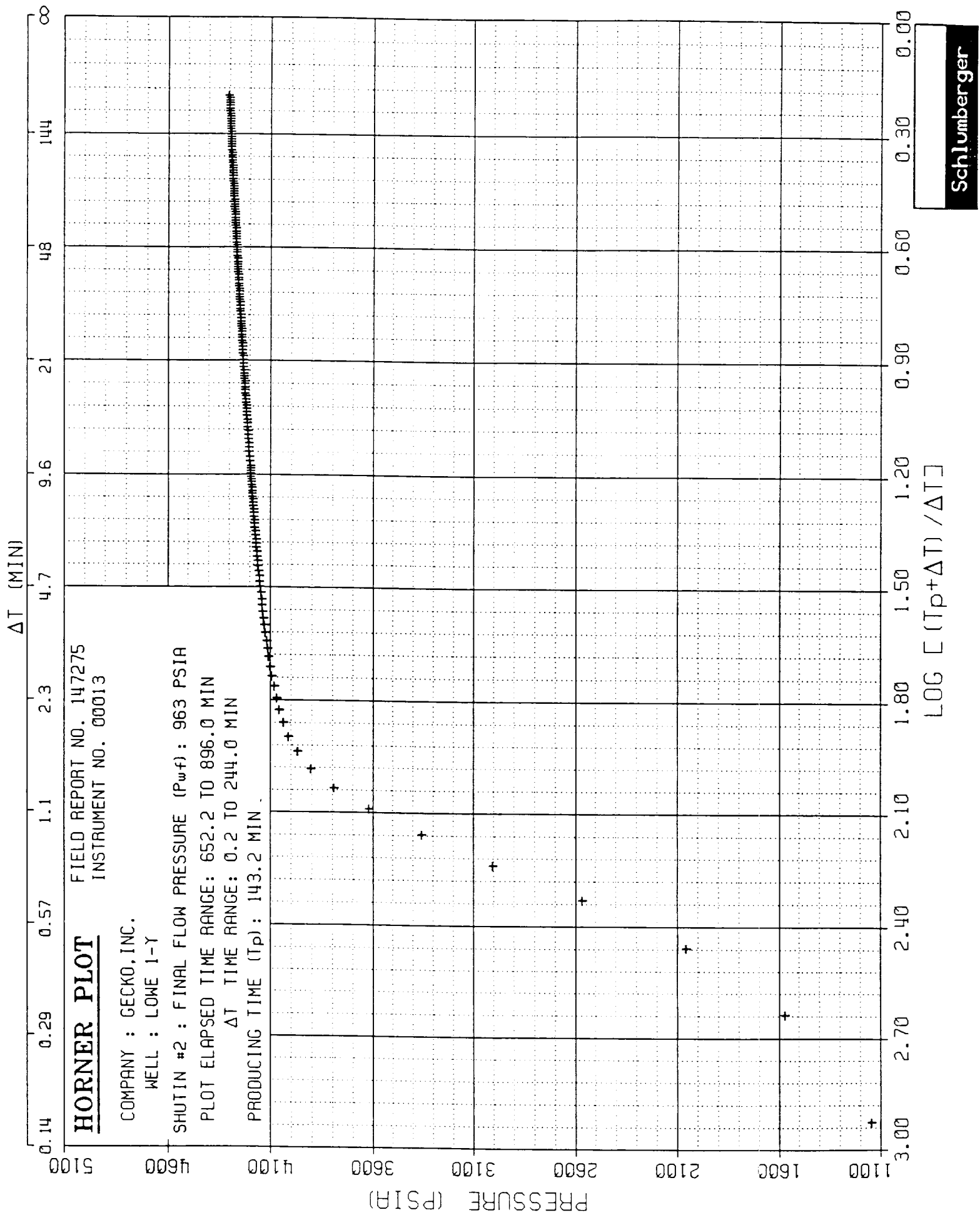
900

300

2.00 1.80 1.60 1.40 1.20 1.00 0.80 0.60 0.40 0.20 0.00

$\log [(T_p + \Delta T) / \Delta T]$

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BOTTOMHOLE PRESSURE LOG

FIELD REPORT NO. 147275 COMPANY : GECKO, INC.

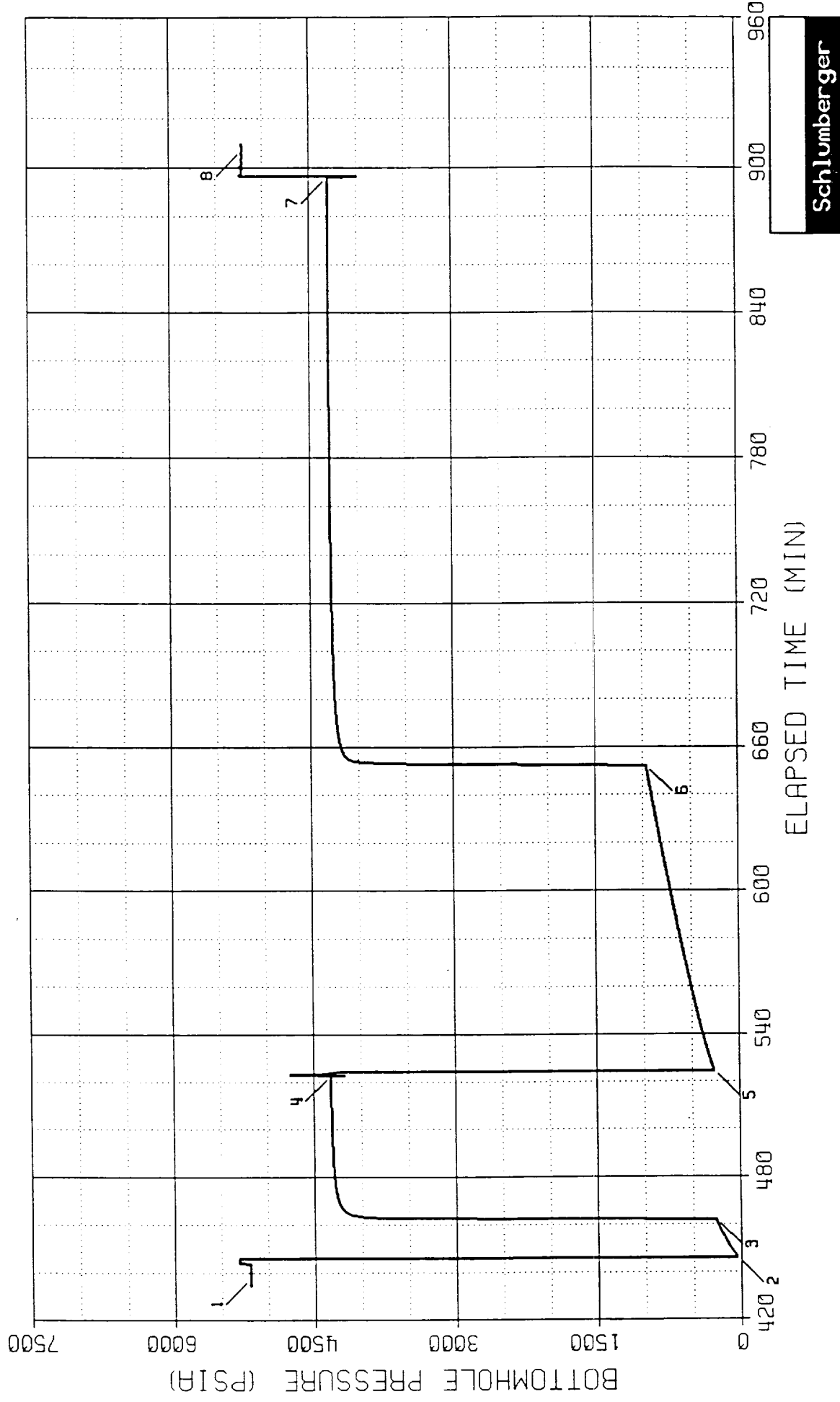
INSTRUMENT NO. 00013 WELL : LOWE 1-Y

DEPTH : 11303 FT

CAPACITY : 10000 PSI

PORT OPENING : INSIDE

Electronic Pressure Data



BOTTOMHOLE TEMPERATURE LOG

FIELD REPORT NO. 147275

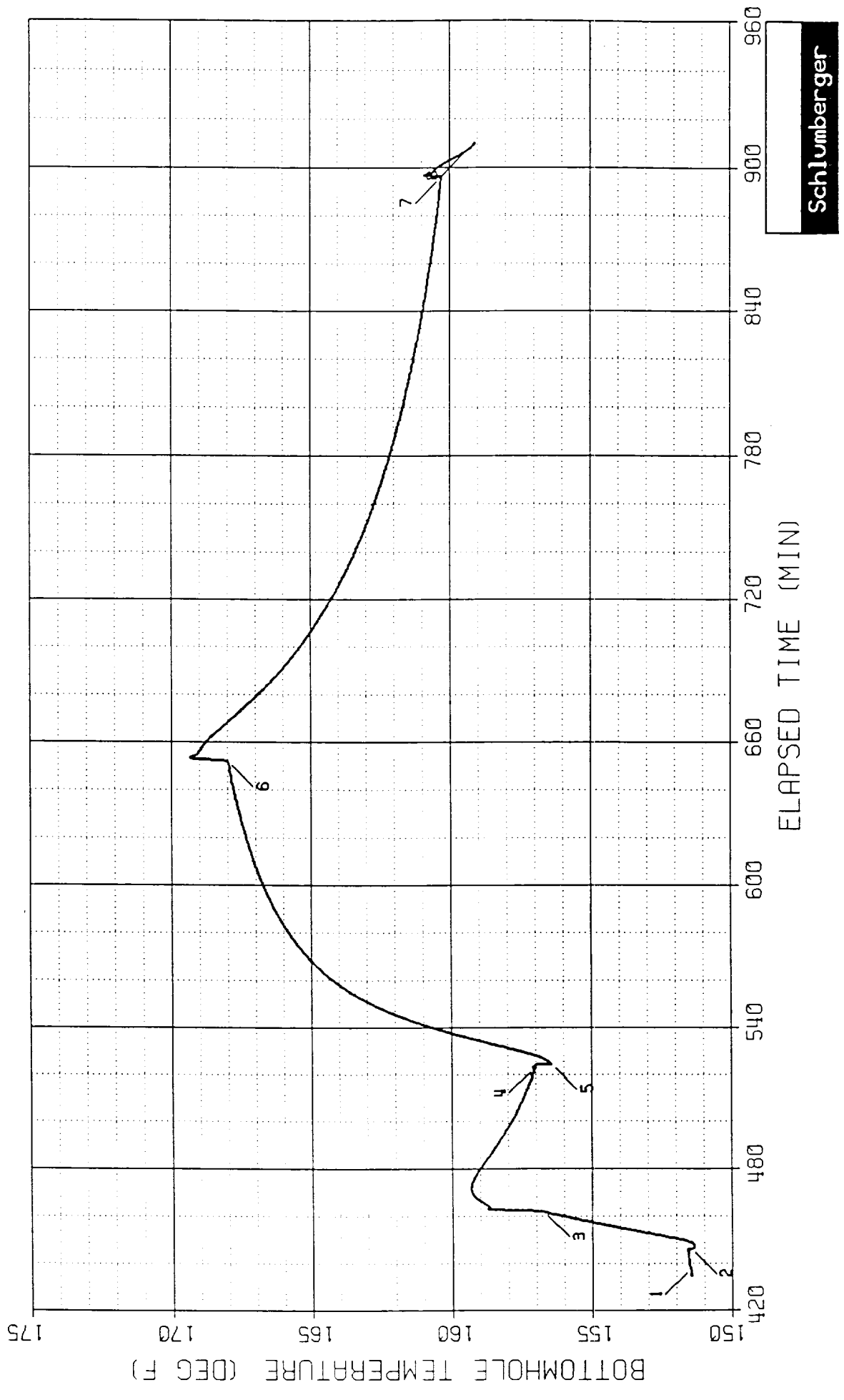
COMPANY : GECKO, INC.

INSTRUMENT NO. 00013

WELL : LOWE 1-Y

DEPTH : 11303 FT

Electronic Temperature Data



 ** WELL TEST DATA PRINTOUT **

COMPANY: GECKO, INC.
 WELL: LOWE 1-Y

FIELD REPORT NO. 147275
 INSTRUMENT NO. 00013

RECORDER CAPACITY: 10000 PSI PORT OPENING: INSIDE DEPTH: 11303 FT

LABEL POINT INFORMATION

	TIME OF DAY	DATE		ELAPSED TIME, MIN	BOT HOLE PRESSURE PSIA	BOT HOLE TEMP. DEG F
#	HH:MM:SS	DD-MMM	EXPLANATION			
1	15:40:30	9-DEC	HYDROSTATIC MUD	437.50	5192.12	151.50
2	15:49:10	9-DEC	START FLOW	446.17	42.83	151.48
3	16:04:50	9-DEC	END FLOW & START SHUT-IN	461.83	264.03	156.74
4	17:05:40	9-DEC	END SHUT-IN	522.67	4318.38	157.05
5	17:07:30	9-DEC	START FLOW	524.50	274.66	156.43
6	19:15:00	9-DEC	END FLOW & START SHUT-IN	652.00	963.09	167.99
7	23:19:00	9-DEC	END SHUT-IN	896.00	4303.17	160.30
8	23:30:10	9-DEC	HYDROSTATIC MUD	907.17	5212.43	159.37

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	446.17	461.83	15.66	42.83	264.03	42.83
2	524.50	652.00	127.50	274.66	963.09	274.66

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	461.83	522.67	60.84	264.03	4318.38	264.03	15.66
2	652.00	896.00	244.00	963.09	4303.17	963.09	143.16

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				
15:49:10	9-DEC	446.17	0.00	151.48	42.83
16:04:10	9-DEC	461.17	15.00	156.49	257.60
16:04:50	9-DEC	461.83	15.66	156.74	264.03

TEST PHASE: SHUTIN PERIOD # 1

FINAL FLOW PRESSURE = 264.03 PSIA
PRODUCING TIME = 15.66 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						
16:04:50	9-DEC	461.83	0.00	156.74	264.03	0.00	
16:05:50	9-DEC	462.83	1.00	158.68	3588.36	3324.33	1.2217
16:06:50	9-DEC	463.83	2.00	158.68	4068.00	3803.97	0.9460
16:07:50	9-DEC	464.83	3.00	158.77	4146.88	3882.85	0.7938
16:08:50	9-DEC	465.83	4.00	158.94	4184.02	3919.99	0.6915
16:09:50	9-DEC	466.83	5.00	159.06	4207.37	3943.34	0.6162
16:10:50	9-DEC	467.83	6.00	159.19	4223.20	3959.17	0.5575
16:11:50	9-DEC	468.83	7.00	159.24	4234.93	3970.90	0.5102
16:12:50	9-DEC	469.83	8.00	159.30	4244.48	3980.45	0.4709
16:13:50	9-DEC	470.83	9.00	159.33	4252.09	3988.06	0.4378
16:14:50	9-DEC	471.83	10.00	159.33	4258.19	3994.16	0.4093
16:16:50	9-DEC	473.83	12.00	159.30	4268.05	4004.02	0.3627
16:18:50	9-DEC	475.83	14.00	159.22	4275.86	4011.83	0.3260
16:20:50	9-DEC	477.83	16.00	159.13	4281.54	4017.51	0.2964
16:22:50	9-DEC	479.83	18.00	159.03	4286.56	4022.53	0.2718
16:24:50	9-DEC	481.83	20.00	158.90	4290.47	4026.44	0.2512
16:26:50	9-DEC	483.83	22.00	158.77	4294.05	4030.02	0.2335
16:28:50	9-DEC	485.83	24.00	158.65	4297.16	4033.13	0.2181
16:30:50	9-DEC	487.83	26.00	158.54	4299.61	4035.58	0.2047
16:32:50	9-DEC	489.83	28.00	158.41	4302.08	4038.05	0.1929
16:34:50	9-DEC	491.83	30.00	158.31	4304.06	4040.03	0.1824
16:39:50	9-DEC	496.83	35.00	158.04	4308.48	4044.45	0.1606
16:44:50	9-DEC	501.83	40.00	157.77	4311.10	4047.07	0.1435
16:49:50	9-DEC	506.83	45.00	157.57	4313.76	4049.73	0.1297
16:54:50	9-DEC	511.83	50.00	157.37	4315.93	4051.90	0.1183
16:59:50	9-DEC	516.83	55.00	157.21	4318.01	4053.98	0.1088
17:04:50	9-DEC	521.83	60.00	157.06	4319.44	4055.41	0.1007
17:05:40	9-DEC	522.67	60.84	157.05	4318.38	4054.35	0.0995

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				
17:07:30	9-DEC	524.50	0.00	156.43	274.66
17:22:30	9-DEC	539.50	15.00	160.57	384.82
17:37:30	9-DEC	554.50	30.00	163.56	475.81
17:52:30	9-DEC	569.50	45.00	165.13	559.00
18:07:30	9-DEC	584.50	60.00	166.08	639.26
18:22:30	9-DEC	599.50	75.00	166.73	714.92
18:37:30	9-DEC	614.50	90.00	167.20	789.39
18:52:30	9-DEC	629.50	105.00	167.58	860.78
19:07:30	9-DEC	644.50	120.00	167.86	929.56
19:15:00	9-DEC	652.00	127.50	167.99	963.09

TEST PHASE: SHUTIN PERIOD # 2

FINAL FLOW PRESSURE = 963.09 PSIA

PRODUCING TIME = 143.16 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
19:15:00	9-DEC	652.00	0.00	167.99	963.09	0.00	
19:16:00	9-DEC	653.00	1.00	169.20	3357.92	2394.83	2.1588
19:17:00	9-DEC	654.00	2.00	169.23	4036.11	3073.02	1.8608
19:18:00	9-DEC	655.00	3.00	169.07	4106.05	3142.96	1.6877
19:19:00	9-DEC	656.00	4.00	169.00	4135.14	3172.05	1.5657
19:20:00	9-DEC	657.00	5.00	168.94	4153.63	3190.54	1.4718
19:21:00	9-DEC	658.00	6.00	168.89	4166.64	3203.55	1.3955
19:22:00	9-DEC	659.00	7.00	168.84	4176.38	3213.29	1.3315
19:23:00	9-DEC	660.00	8.00	168.76	4184.32	3221.23	1.2763
19:24:00	9-DEC	661.00	9.00	168.69	4191.49	3228.40	1.2281
19:25:00	9-DEC	662.00	10.00	168.60	4197.25	3234.16	1.1851
19:27:00	9-DEC	664.00	12.00	168.42	4206.79	3243.70	1.1116
19:29:00	9-DEC	666.00	14.00	168.22	4214.56	3251.47	1.0502
19:31:00	9-DEC	668.00	16.00	168.03	4220.86	3257.77	0.9977
19:33:00	9-DEC	670.00	18.00	167.85	4226.41	3263.32	0.9520
19:35:00	9-DEC	672.00	20.00	167.65	4231.62	3268.53	0.9116
19:37:00	9-DEC	674.00	22.00	167.47	4235.82	3272.73	0.8755
19:39:00	9-DEC	676.00	24.00	167.27	4239.16	3276.07	0.8429
19:41:00	9-DEC	678.00	26.00	167.09	4242.77	3279.68	0.8133
19:43:00	9-DEC	680.00	28.00	166.91	4245.58	3282.49	0.7862
19:45:00	9-DEC	682.00	30.00	166.73	4248.69	3285.60	0.7613
19:50:00	9-DEC	687.00	35.00	166.32	4254.30	3291.21	0.7067
19:55:00	9-DEC	692.00	40.00	165.94	4259.39	3296.30	0.6608
20:00:00	9-DEC	697.00	45.00	165.60	4263.59	3300.50	0.6213
20:05:00	9-DEC	702.00	50.00	165.27	4267.08	3303.99	0.5869
20:10:00	9-DEC	707.00	55.00	164.97	4270.07	3306.98	0.5567
20:15:00	9-DEC	712.00	60.00	164.68	4272.81	3309.72	0.5297
20:20:00	9-DEC	717.00	65.00	164.41	4275.17	3312.08	0.5055
20:25:00	9-DEC	722.00	70.00	164.17	4277.20	3314.11	0.4836
20:30:00	9-DEC	727.00	75.00	163.94	4279.32	3316.23	0.4637
20:35:00	9-DEC	732.00	80.00	163.72	4280.96	3317.87	0.4455
20:40:00	9-DEC	737.00	85.00	163.51	4282.61	3319.52	0.4288
20:45:00	9-DEC	742.00	90.00	163.31	4284.05	3320.96	0.4134
20:50:00	9-DEC	747.00	95.00	163.15	4285.50	3322.41	0.3991
20:55:00	9-DEC	752.00	100.00	162.97	4286.50	3323.41	0.3859
21:00:00	9-DEC	757.00	105.00	162.79	4287.90	3324.81	0.3735
21:05:00	9-DEC	762.00	110.00	162.66	4288.94	3325.85	0.3620
21:10:00	9-DEC	767.00	115.00	162.50	4289.94	3326.85	0.3512
21:15:00	9-DEC	772.00	120.00	162.36	4290.73	3327.64	0.3410
21:20:00	9-DEC	777.00	125.00	162.23	4291.63	3328.54	0.3315
21:25:00	9-DEC	782.00	130.00	162.09	4292.31	3329.22	0.3225
21:30:00	9-DEC	787.00	135.00	161.98	4293.27	3330.18	0.3140
21:35:00	9-DEC	792.00	140.00	161.85	4293.70	3330.61	0.3059
21:40:00	9-DEC	797.00	145.00	161.74	4294.45	3331.36	0.2983
21:45:00	9-DEC	802.00	150.00	161.64	4294.88	3331.79	0.2910
21:50:00	9-DEC	807.00	155.00	161.55	4295.76	3332.67	0.2841
21:55:00	9-DEC	812.00	160.00	161.44	4296.39	3333.30	0.2776
22:00:00	9-DEC	817.00	165.00	161.35	4297.01	3333.92	0.2713
22:05:00	9-DEC	822.00	170.00	161.28	4297.20	3334.11	0.2653
22:10:00	9-DEC	827.00	175.00	161.19	4297.90	3334.81	0.2596
22:15:00	9-DEC	832.00	180.00	161.10	4298.19	3335.10	0.2541
22:30:00	9-DEC	847.00	195.00	160.86	4299.58	3336.49	0.2391
22:45:00	9-DEC	862.00	210.00	160.66	4300.98	3337.89	0.2258
23:00:00	9-DEC	877.00	225.00	160.48	4301.95	3338.86	0.2139
23:15:00	9-DEC	892.00	240.00	160.34	4303.00	3339.91	0.2032

TEST PHASE: SHUTIN PERIOD # 2

FINAL FLOW PRESSURE = 963.09 PSIA

PRODUCING TIME = 143.16 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
23:19:00	9-DEC	896.00	244.00	160.30	4303.17	3340.08	0.2005

WELL TEST INTERPRETATION REPORT #:147275		PAGE: 12,
CLIENT : GECKO, INC.		11-DEC-95
REGION : CSD	DISTRIBUTION OF REPORTS	FIELD: WVC
DISTRICT: MIDLAND		ZONE : STRAWN
BASE : MIDLAND		WELL : LOWE 1-Y
ENGINEER: DARREN STONE		LOCATION: SEC35 13S

SCHLUMBERGER has sent copies of this report to the following:

=====

GECKO, INC.
310 W. WALL
SUITE 702-LB106
MIDLAND, TX 79701
(1 copy)

TENNECO GAS PRODUCTION
1010 MILAM STREET
HOUSTON, TX 77252
Attn: BOB PORTER
(1 copy)

PALADIN EXPLORATION CO, INC
2121 SAN JACINTO
SUITE 2950-LB50
DALLAS, TX 75231
(1 copy)

BENNY M. BARTON
2121 SAN JACINTO
SUITE 2950-LB50
DALLAS, TX 75201
(1 copy)

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