

45F

RECEIVED

FEB 17 '89

O. C. D.
ARTESIA, OFFICE

BENNETT-CATHEY

BOTTOM HOLE
DRAWDOWN / BUILD UP
REPORT

FOR:
TERRA RESOURCES
2/ 6/89

WELL INFORMATION :

LEASE :TERRA STATE 35	WELL # 1	FIELD :
LOCATION :0	FILE # TST35	
COUNTY :CHAVES	STATE :NM	
ELEVATION : 0.00	ZERO POINT :TH	
TUBING SIZE :2.375	DEPTH : 0.0	
CASING SIZE :0	DEPTH : 0.0	
PACKER TYPE :0	@ 0.00 feet	
PERFORATED 5320.0 to 5330.0 feet	TOTAL DEPTH : 5725.0	

TEST INFORMATION :

WELL CONDITION :SI	WELL TYPE :GAS
SURFACE TUBING PRESSURE 740 psig by GAUGE	
SURFACE CASING PRESSURE 0 psig by 0	
BOTTOM HOLE TEMPERATURE 0 deg. F. at 5325.0 feet	
BOTTOM HOLE PRESSURE 1311.4 psig at 5325.0 feet	
INSTRUMENT TYPE : RFG-3	NUMBER : 46632 RUN BY : BURRELL

REAL TIME	ELAPSED TIME	HORNER coef	PRESSURE psig	dPRESSURE psig
WELL FLOWING				
15:20:00	000:00:00	0.00	1127.1	0.0
WELL SHUT IN				
15:45:00	000:00:00	99999.90	1127.5	0.0
15:46:00	000:01:00	4681.00	1132.1	4.6
15:47:00	000:02:00	2341.00	1140.0	12.5
15:48:00	000:03:00	1561.00	1147.5	20.0
15:49:00	000:04:00	1171.00	1153.2	25.7
15:50:00	000:05:00	937.00	1157.9	30.4
15:51:00	000:06:00	781.00	1159.3	31.8
15:52:00	000:07:00	669.57	1161.4	33.9
15:53:00	000:08:00	586.00	1162.9	35.4
15:54:00	000:09:00	521.00	1163.6	36.1
15:55:00	000:10:00	469.00	1164.6	37.1
16:00:00	000:15:00	313.00	1173.9	46.4
16:05:00	000:20:00	235.00	1177.5	50.0
16:10:00	000:25:00	188.20	1182.1	54.6
16:15:00	000:30:00	157.00	1187.1	59.6
16:20:00	000:35:00	134.71	1189.6	62.1
16:25:00	000:40:00	118.00	1191.1	63.6
16:30:00	000:45:00	105.00	1191.8	64.3

REAL TIME	ELAPSED TIME	HORNER coef	PRESSURE psig	dPRESSURE psig
16:35:00	000:50:00	94.60	1194.3	66.8
16:40:00	000:55:00	86.09	1196.1	68.6
16:45:00	001:00:00	79.00	1196.4	68.9
16:50:00	001:05:00	73.00	1196.8	69.3
16:55:00	001:10:00	67.86	1198.6	71.1
17:10:00	001:25:00	56.06	1201.4	73.9
17:25:00	001:40:00	47.80	1203.9	76.4
17:40:00	001:55:00	41.70	1205.4	77.9
17:55:00	002:10:00	37.00	1210.4	82.9
18:10:00	002:25:00	33.28	1213.2	85.7
18:25:00	002:40:00	30.25	1216.4	88.9
18:40:00	002:55:00	27.74	1218.6	91.1
18:55:00	003:10:00	25.63	1219.3	91.8
19:10:00	003:25:00	23.83	1221.4	93.9
19:25:00	003:40:00	22.27	1220.4	92.9
19:40:00	003:55:00	20.91	1224.6	97.1
19:55:00	004:10:00	19.72	1227.1	99.6
20:25:00	004:40:00	17.71	1228.6	101.1
20:55:00	005:10:00	16.10	1230.7	103.2
21:25:00	005:40:00	14.76	1232.5	105.0

REAL TIME	ELAPSED TIME	HORNER coef	PRESSURE psig	dPRESSURE psig
21:55:00	006:10:00	13.65	1235.4	107.9
22:25:00	006:40:00	12.70	1238.9	111.4
22:55:00	007:10:00	11.88	1241.8	114.3
23:25:00	007:40:00	11.17	1244.3	116.8
23:55:00	008:10:00	10.55	1246.1	118.6
00:25:00	008:40:00	10.00	1248.6	121.1
00:55:00	009:10:00	9.51	1251.1	123.6
01:25:00	009:40:00	9.07	1252.9	125.4
01:55:00	010:10:00	8.67	1253.2	125.7
02:55:00	011:10:00	7.99	1254.6	127.1
03:55:00	012:10:00	7.41	1257.1	129.6
04:55:00	013:10:00	6.92	1258.6	131.1
05:55:00	014:10:00	6.51	1260.7	133.2
06:55:00	015:10:00	6.14	1263.9	136.4
07:55:00	016:10:00	5.82	1267.9	140.4
08:55:00	017:10:00	5.54	1271.1	143.6
09:55:00	018:10:00	5.29	1272.9	145.4
10:55:00	019:10:00	5.07	1274.6	147.1
11:55:00	020:10:00	4.87	1276.8	149.3
12:55:00	021:10:00	4.69	1279.3	151.8

REAL TIME	ELAPSED TIME	HORNER coef	PRESSURE psig	dPRESSURE psig
13:55:00	022:10:00	4.52	1277.5	150.0
14:55:00	023:10:00	4.37	1280.0	152.5
15:55:00	024:10:00	4.23	1282.9	155.4
16:55:00	025:10:00	4.10	1283.6	156.1
17:55:00	026:10:00	3.98	1285.7	158.2
18:55:00	027:10:00	3.87	1286.1	158.6
19:55:00	028:10:00	3.77	1287.1	159.6
20:55:00	029:10:00	3.67	1287.9	160.4
21:55:00	030:10:00	3.59	1288.2	160.7
23:55:00	032:10:00	3.42	1290.4	162.9
01:55:00	034:10:00	3.28	1290.0	162.5
03:55:00	036:10:00	3.16	1291.4	163.9
05:55:00	038:10:00	3.04	1295.0	167.5
07:55:00	040:10:00	2.94	1296.1	168.6
09:55:00	042:10:00	2.85	1297.9	170.4
11:55:00	044:10:00	2.77	1298.9	171.4
13:55:00	046:10:00	2.69	1299.6	172.1
15:55:00	048:10:00	2.62	1301.1	173.6
17:55:00	050:10:00	2.55	1302.5	175.0
19:55:00	052:10:00	2.50	1303.2	175.7

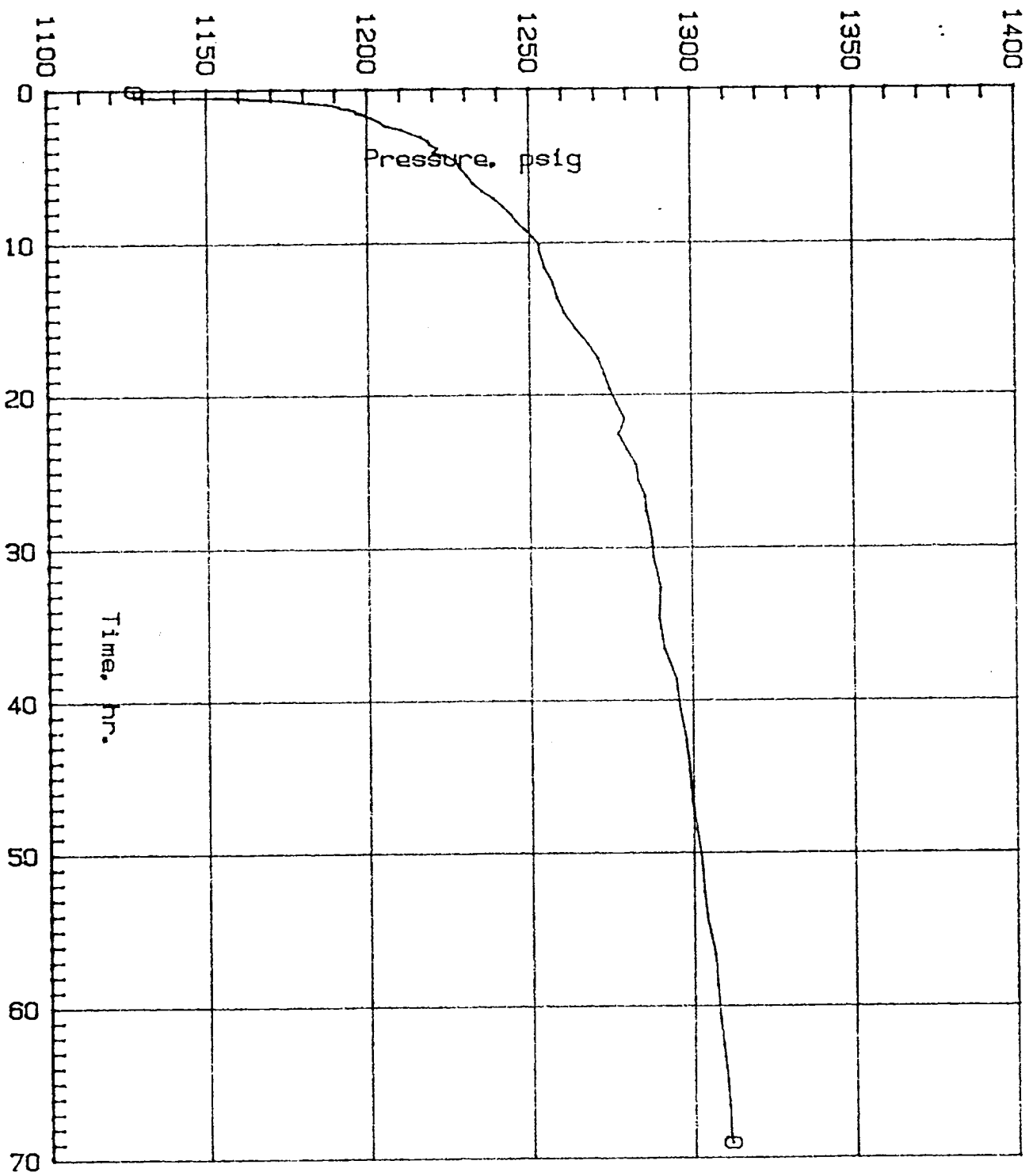
REAL TIME	ELAPSED TIME	HORNER coef	PRESSURE psig	dPRESSURE psig
21:55:00	054:10:00	2.44	1304.3	176.8
23:55:00	056:10:00	2.39	1306.4	178.9
01:55:00	058:10:00	2.34	1307.1	179.6
03:55:00	060:10:00	2.30	1307.9	180.4
05:55:00	062:10:00	2.25	1308.9	181.4
07:55:00	064:10:00	2.22	1310.0	182.5
09:55:00	066:10:00	2.18	1310.7	183.2
11:55:00	068:10:00	2.14	1311.1	183.6
12:20:00	068:35:00	2.14	1311.4	183.9

END OF TEST

LINEAR PLOT

TERRA RESOURCES
Field :
Well # 1
Lease : TERRA STATE 35
County : CHAVES
State : NM

Date of Run : 2 / 8 / 89
Gauge # 48632
Run by : BURRELL

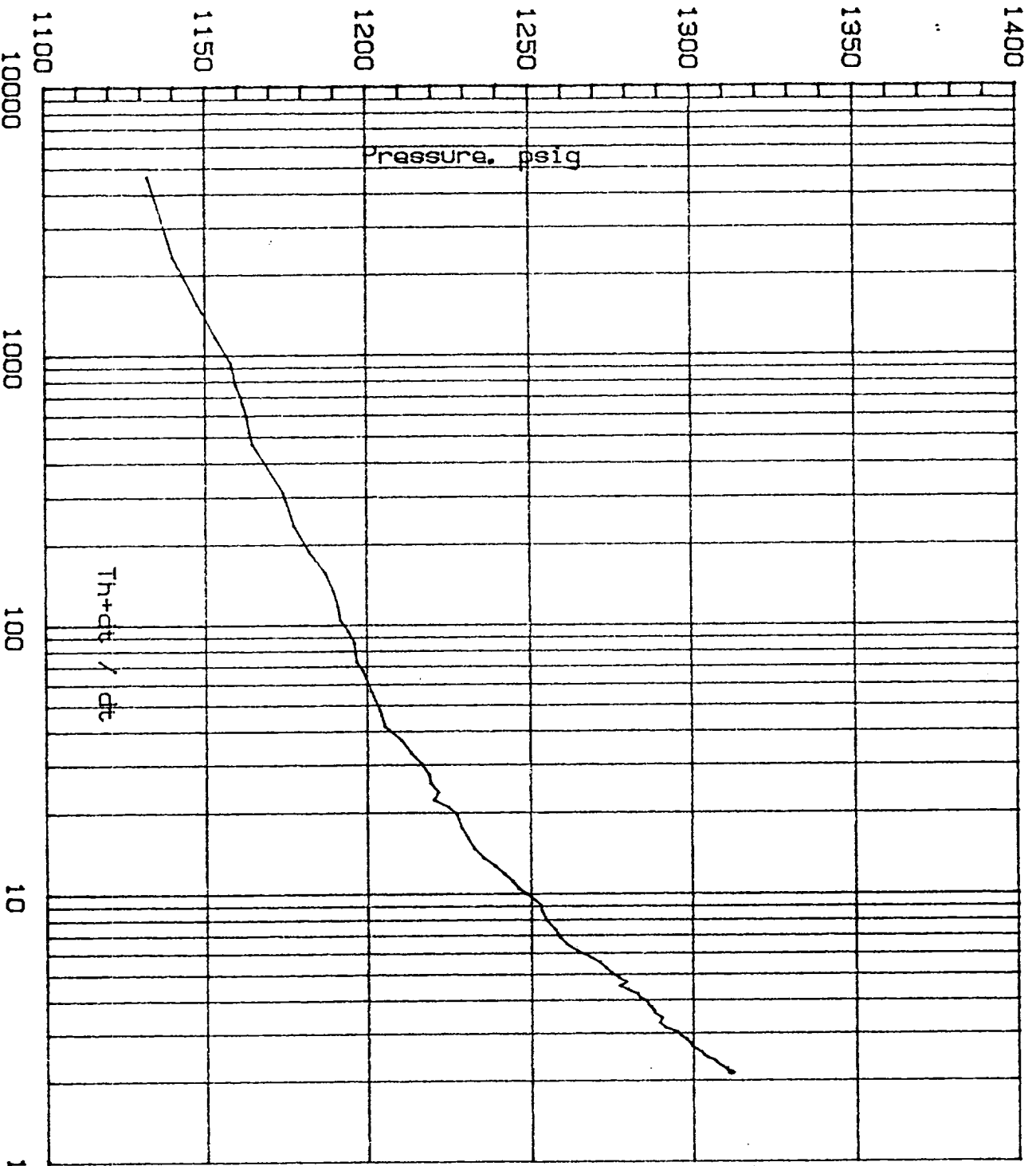


HORNER PLOT

TERRA RESOURCES
Field :
Well # 1
Lease : TERRA STATE 35
County : CHAVES
State : NM

Date of Run : 2/ 8/89
Gauge # 48832
Run by : BURRELL

Prod. Time : 78 hr.



BENNETT-CATHEY

BOTTOM HOLE
PRESSURE / GRADIENT
REPORT

FOR:
TERRA RESOURCES
2/ 9/89

WELL INFORMATION :

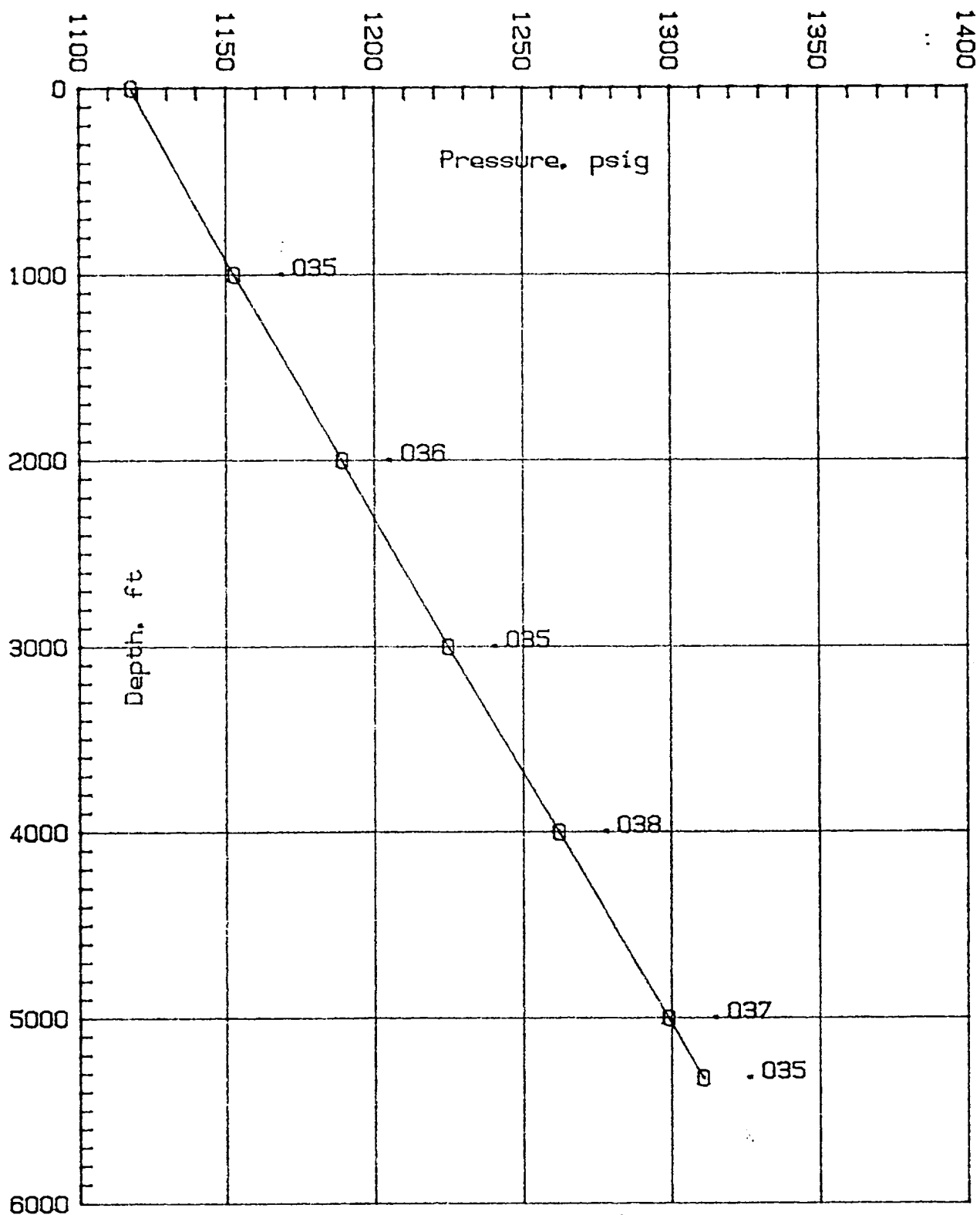
LEASE :TERRA STATE 35	WELL # 1	FIELD :
LOCATION :0	FILE # TS35	
COUNTY :CHAVES	STATE :NM	
ELEVATION : 0.00	ZERO POINT :TH	
TUBING SIZE :2.375	DEPTH : 0.0	
CASING SIZE :0	DEPTH : 0.0	
PACKER TYPE :0	@ 0.00 feet	
PERFORATED 5320.0 to 5330.0 feet	TOTAL DEPTH : 5725.0	

TEST INFORMATION :

WELL CONDITION :SI	WELL TYPE :GAS
SURFACE TUBING PRESSURE 1118 psig by GAUGE	
SURFACE CASING PRESSURE psig by	
BOTTOM HOLE TEMPERATURE 135 deg. F. at 5325.0 feet	
BOTTOM HOLE PRESSURE 1310.7 psig at 5325.0 feet	
INSTRUMENT TYPE : RPG-3	NUMBER : 46632 RUN BY : MOSSBARGER

C&W WIRELINE dba BENNETT-CATHEY,P.O.BOX 787 ARTESIA,NM 88210

DEPTH ft	dDEPTH ft	PRESSURE psig	dPRESSURE psig	GRADIENT psig/ft
0		1117.9		
1000	1000	1152.9	35.0	.035
2000	1000	1189.3	36.4	.036
3000	1000	1224.6	35.4	.035
4000	1000	1262.1	37.5	.038
5000	1000	1299.3	37.1	.037
5325	325	1310.7	11.4	.035
EXTRAPOLATION TO MIDPOINT OF PERFORATIONS ;				
5325		1310.7		.035



GRADIENT SURVEY

TERRA RESOURCES

Field :

Well # 1

Lease : TERRA STATE 35

County : CHAVES

State : NM

Date of Run : 2/ 9/89

Gauge # 46632

Run by : MOSSBARGER