



INTEQ

2105 Market Street
Midland, Texas 79703
Tel. (915) 694-9517
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Well Completion Report

Pogo Producing Co.
WBR FED #5
Lea County, New Mexico

Tuesday, March 14, 2000

3D-025-35256

SUR: N-13-225-32e
660/s & 2310/w

BHL: P-13-225-32e
740/s & 3093/w

CONFIDENTIAL



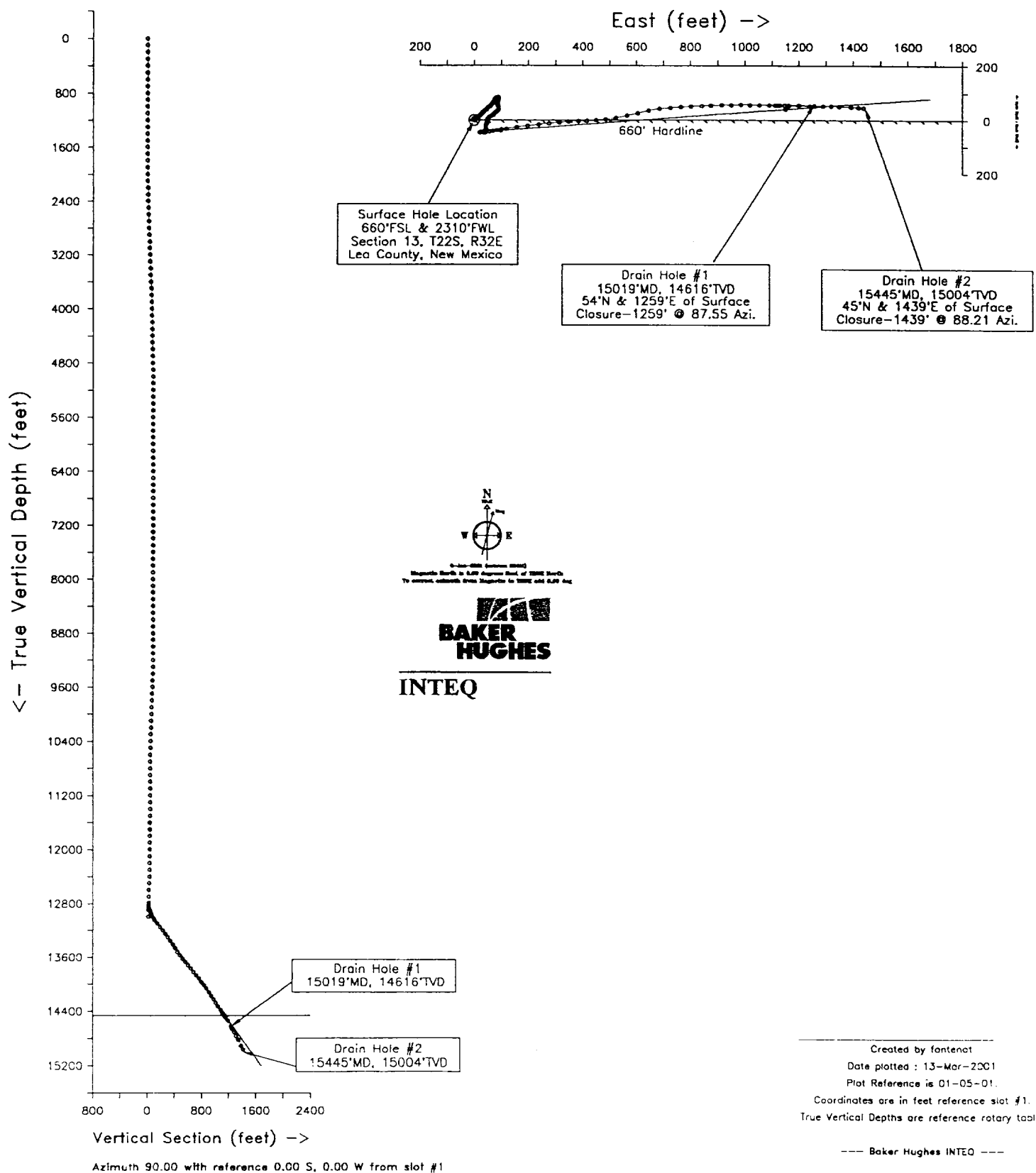
POGO PRODUCING CO.

Structure : WBR Federal No. 5

Slot : slot #1

Field :

Location : LEA COUNTY, NEW MEXICO



POGO PRODUCING CO.
WBR Federal No. 5

slot #1

LEA COUNTY, NEW MEXICO

S U R V E Y L I S T I N G

by
Baker Hughes INTEQ

Your ref : MWD
Our ref : svy1526
License :

Date printed : 13-Mar-2001
Date created : 15-Jan-2001
Last revised : 2-Mar-2001

Field is centred on n32 58 13.100,w103 14 15.6
Structure is centred on n32 58 13.100,w103 14 15.6

Slot location is n32 58 13.100,w103 14 15.600
Slot Grid coordinates are N 718458.262, E 836033.931
Slot local coordinates are 0.00 N 0.00 E

Projection type: mercator - New Mexico East (3001), Spheroid: Clarke - 1866

Reference North is True North

POGO PRODUCING CO.
WBR Federal No. 5, slot #1
LEA COUNTY, NEW MEXICO

SURVEY LISTING Page 1
Your ref : MWD
Last revised : 2-Mar-2001

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S		Dogleg Deg/100ft	Vert Sect
0.00	0.00	0.00	0.00	0.00 N	0.00 E	0.00	0.00
100.00	0.21	19.00	100.00	0.17 N	0.06 E	0.21	0.06
200.00	0.22	285.26	200.00	0.40 N	0.06 W	0.31	-0.06
300.00	0.28	160.57	300.00	0.22 N	0.16 W	0.44	-0.16
400.00	0.35	35.88	400.00	0.23 N	0.10 E	0.56	0.10
500.00	0.47	13.51	500.00	0.88 N	0.37 E	0.20	0.37
600.00	0.60	351.14	599.99	1.80 N	0.39 E	0.24	0.39
700.00	0.56	350.27	699.99	2.80 N	0.22 E	0.04	0.22
800.00	0.53	349.40	799.98	3.74 N	0.05 E	0.04	0.05
900.00	0.43	356.59	899.98	4.56 N	0.05 W	0.11	-0.05
1000.00	0.33	3.78	999.98	5.22 N	0.06 W	0.11	-0.06
1100.00	0.23	90.79	1099.98	5.51 N	0.16 E	0.39	0.16
1200.00	0.12	177.79	1199.97	5.40 N	0.36 E	0.25	0.36
1300.00	0.22	246.78	1299.97	5.22 N	0.19 E	0.21	0.19
1400.00	0.31	315.77	1399.97	5.34 N	0.17 W	0.31	-0.17
1500.00	0.33	167.79	1499.97	5.26 N	0.30 W	0.62	-0.30
1600.00	0.35	19.81	1599.97	5.26 N	0.14 W	0.66	-0.14
1700.00	0.41	32.75	1699.97	5.85 N	0.16 E	0.10	0.16
1800.00	0.47	45.69	1799.97	6.44 N	0.65 E	0.11	0.65
1900.00	0.49	57.76	1899.96	6.96 N	1.31 E	0.10	1.31
2000.00	0.51	69.83	1999.96	7.34 N	2.09 E	0.11	2.09
2100.00	0.96	71.30	2099.95	7.76 N	3.30 E	0.45	3.30
2200.00	1.41	72.78	2199.93	8.40 N	5.28 E	0.45	5.28
2300.00	1.60	69.41	2299.89	9.25 N	7.76 E	0.21	7.76
2400.00	1.79	66.03	2399.85	10.38 N	10.50 E	0.21	10.50
2500.00	2.09	61.17	2499.79	11.89 N	13.52 E	0.34	13.52
2600.00	2.39	56.31	2599.72	13.93 N	16.85 E	0.35	16.85
2700.00	2.64	52.28	2699.62	16.49 N	20.40 E	0.31	20.40
2800.00	2.88	48.25	2799.51	19.57 N	24.10 E	0.32	24.10
2900.00	2.86	47.27	2899.38	22.94 N	27.81 E	0.06	27.81
3000.00	2.84	46.28	2999.26	26.34 N	31.43 E	0.05	31.43
3100.00	2.81	45.12	3099.14	29.78 N	34.95 E	0.06	34.95
3200.00	2.78	43.96	3199.02	33.25 N	38.37 E	0.06	38.37
3300.00	3.02	44.17	3298.89	36.89 N	41.89 E	0.24	41.89
3400.00	3.26	44.38	3398.74	40.81 N	45.71 E	0.24	45.71
3500.00	3.53	48.29	3498.56	44.89 N	50.00 E	0.35	50.00
3600.00	3.80	52.19	3598.36	48.96 N	54.91 E	0.37	54.91
3700.00	3.30	49.62	3698.17	52.86 N	59.71 E	0.52	59.71
3800.00	2.80	47.04	3798.03	56.38 N	63.69 E	0.52	63.69
3900.00	2.63	36.38	3897.91	59.89 N	66.83 E	0.53	66.83
4000.00	2.46	25.72	3997.82	63.66 N	69.12 E	0.50	69.12
4100.00	2.39	22.69	4097.73	67.52 N	70.86 E	0.14	70.86
4200.00	2.33	19.66	4197.64	71.36 N	72.35 E	0.14	72.35
4300.00	2.26	27.74	4297.56	75.02 N	73.95 E	0.33	73.95
4400.00	2.20	35.82	4397.49	78.33 N	75.99 E	0.32	75.99
4500.00	1.89	49.04	4497.42	80.96 N	78.36 E	0.56	78.36
4600.00	1.58	62.27	4597.38	82.68 N	80.82 E	0.50	80.82
4700.00	1.32	66.89	4697.35	83.77 N	83.10 E	0.28	83.10
4800.00	1.07	71.51	4797.32	84.52 N	85.05 E	0.27	85.05
4900.00	0.85	83.55	4897.31	84.90 N	86.67 E	0.30	86.67

All data is in feet unless otherwise stated.
Coordinates from slot #1 and TVD from rotary table.
Bottom hole distance is 1259.69 on azimuth 87.55 degrees from wellhead.
Vertical section is from N 0.00 W 0.00 on azimuth 90.00 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ

POGO PRODUCING CO.
WBR Federal No. 5, slot #1
LEA COUNTY, NEW MEXICO

SURVEY LISTING Page 2
Your ref : MWD
Last revised : 2-Mar-2001

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S		Dogleg Deg/100ft	Vert Sect
5000.00	0.63	95.58	4997.30	84.93 N	87.95 E	0.27	87.95
5100.00	0.47	133.81	5097.30	84.60 N	88.79 E	0.39	88.79
5200.00	0.31	172.04	5197.29	84.05 N	89.12 E	0.30	89.12
5300.00	0.43	166.62	5297.29	83.41 N	89.25 E	0.13	89.25
5400.00	0.56	161.20	5397.29	82.59 N	89.49 E	0.13	89.49
5500.00	0.58	164.03	5497.28	81.64 N	89.79 E	0.04	89.79
5600.00	0.60	166.85	5597.28	80.64 N	90.05 E	0.04	90.05
5700.00	0.58	168.82	5697.27	79.64 N	90.26 E	0.03	90.26
5800.00	0.55	170.78	5797.27	78.67 N	90.44 E	0.03	90.44
5900.00	0.53	193.64	5897.26	77.75 N	90.40 E	0.22	90.40
6000.00	0.52	216.50	5997.26	76.93 N	90.03 E	0.21	90.03
6100.00	0.32	252.42	6097.26	76.49 N	89.49 E	0.32	89.49
6200.00	0.13	288.34	6197.26	76.44 N	89.11 E	0.23	89.11
6300.00	0.21	260.05	6297.26	76.44 N	88.82 E	0.11	88.82
6400.00	0.29	231.77	6397.26	76.26 N	88.45 E	0.14	88.45
6500.00	0.30	229.62	6497.25	75.94 N	88.05 E	0.02	88.05
6600.00	0.31	227.48	6597.25	75.58 N	87.66 E	0.02	87.66
6700.00	0.42	187.51	6697.25	75.04 N	87.41 E	0.27	87.41
6800.00	0.52	147.55	6797.25	74.30 N	87.61 E	0.34	87.61
6900.00	0.58	153.92	6897.24	73.46 N	88.07 E	0.08	88.07
7000.00	0.64	160.29	6997.24	72.48 N	88.48 E	0.09	88.48
7100.00	0.70	182.01	7097.23	71.35 N	88.65 E	0.26	88.65
7200.00	0.77	203.73	7197.22	70.12 N	88.35 E	0.29	88.35
7300.00	0.59	215.69	7297.22	69.08 N	87.78 E	0.23	87.78
7400.00	0.40	227.65	7397.21	68.43 N	87.22 E	0.21	87.22
7500.00	0.57	209.21	7497.21	67.75 N	86.72 E	0.23	86.72
7600.00	0.74	190.77	7597.20	66.68 N	86.35 E	0.27	86.35
7700.00	0.55	183.89	7697.20	65.56 N	86.20 E	0.20	86.20
7800.00	0.37	177.02	7797.19	64.76 N	86.18 E	0.20	86.18
7900.00	0.59	173.70	7897.19	63.93 N	86.26 E	0.23	86.26
8000.00	0.82	170.38	7997.18	62.71 N	86.43 E	0.23	86.43
8100.00	0.83	172.54	8097.17	61.29 N	86.64 E	0.04	86.64
8200.00	0.85	174.70	8197.16	59.83 N	86.81 E	0.04	86.81
8300.00	0.72	177.26	8297.15	58.46 N	86.91 E	0.14	86.91
8400.00	0.59	179.81	8397.14	57.31 N	86.94 E	0.14	86.94
8500.00	0.60	165.65	8497.14	56.29 N	87.07 E	0.15	87.07
8600.00	0.60	151.49	8597.13	55.33 N	87.45 E	0.15	87.45
8700.00	0.70	161.47	8697.13	54.28 N	87.90 E	0.15	87.90
8800.00	0.80	171.45	8797.12	53.01 N	88.19 E	0.17	88.19
8900.00	1.16	168.27	8897.10	51.32 N	88.51 E	0.36	88.51
9000.00	1.52	165.09	8997.08	49.04 N	89.05 E	0.36	89.05
9100.00	1.74	170.89	9097.04	46.26 N	89.63 E	0.28	89.63
9200.00	1.96	176.70	9196.98	43.05 N	89.97 E	0.29	89.97
9300.00	2.38	200.34	9296.91	39.39 N	89.35 E	0.98	89.35
9400.00	2.80	223.98	9396.81	35.68 N	86.93 E	1.14	86.93
9500.00	2.73	226.41	9496.70	32.29 N	83.51 E	0.14	83.51
9600.00	2.65	228.83	9596.59	29.13 N	80.05 E	0.14	80.05
9700.00	2.40	227.56	9696.49	26.19 N	76.77 E	0.25	76.77
9800.00	2.15	226.28	9796.41	23.48 N	73.87 E	0.25	73.87
9900.00	2.22	232.49	9896.34	21.00 N	70.97 E	0.25	70.97

All data is in feet unless otherwise stated.
Coordinates from slot #1 and TVD from rotary table.
Bottom hole distance is 1259.69 on azimuth 87.55 degrees from wellhead.
Vertical section is from N 0.00 W 0.00 on azimuth 90.00 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ

POGO PRODUCING CO.
WBR Federal No. 5, slot #1
LEA COUNTY, NEW MEXICO

SURVEY LISTING Page 3
Your ref : MWD
Last revised : 2-Mar-2001

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S		Dogleg Deg/100ft	Vert Sect
10000.00	2.30	238.70	9996.26	18.78 N	67.72 E	0.26	67.72
10100.00	2.26	239.94	10096.18	16.75 N	64.30 E	0.06	64.30
10200.00	2.22	241.18	10196.11	14.83 N	60.90 E	0.06	60.90
10300.00	2.31	234.94	10296.03	12.74 N	57.55 E	0.27	57.55
10400.00	2.41	228.69	10395.94	10.19 N	54.31 E	0.28	54.31
10500.00	2.01	220.23	10495.87	7.46 N	51.60 E	0.52	51.60
10600.00	1.60	211.77	10595.82	4.93 N	49.73 E	0.48	49.73
10700.00	1.41	180.52	10695.78	2.51 N	48.98 E	0.83	48.98
10800.00	1.22	149.28	10795.76	0.36 N	49.52 E	0.73	49.52
10900.00	1.33	171.12	10895.74	1.70 S	50.24 E	0.50	50.24
11000.00	1.44	192.95	10995.71	4.07 S	50.14 E	0.54	50.14
11100.00	1.40	205.04	11095.68	6.40 S	49.34 E	0.30	49.34
11200.00	1.36	217.13	11195.65	8.45 S	48.11 E	0.29	48.11
11300.00	1.35	207.98	11295.62	10.43 S	46.84 E	0.22	46.84
11400.00	1.34	198.83	11395.59	12.58 S	45.91 E	0.21	45.91
11500.00	1.47	198.01	11495.56	14.90 S	45.14 E	0.13	45.14
11600.00	1.59	197.18	11595.53	17.45 S	44.33 E	0.13	44.33
11700.00	2.00	190.47	11695.48	20.49 S	43.61 E	0.46	43.61
11800.00	2.42	183.75	11795.40	24.32 S	43.15 E	0.49	43.15
11900.00	2.94	177.29	11895.29	28.98 S	43.13 E	0.61	43.13
12000.00	3.47	170.83	11995.14	34.54 S	43.74 E	0.64	43.74
12100.00	2.60	185.60	12095.00	39.78 S	44.00 E	1.17	44.00
12200.00	1.72	200.37	12194.93	43.45 S	43.25 E	1.03	43.25
12300.00	1.89	238.88	12294.88	45.71 S	41.32 E	1.20	41.32
12400.00	2.06	277.39	12394.82	46.33 S	38.13 E	1.31	38.13
12500.00	2.04	280.07	12494.76	45.79 S	34.60 E	0.10	34.60
12600.00	2.02	282.76	12594.70	45.09 S	31.12 E	0.10	31.12
12700.00	1.74	275.78	12694.64	44.55 S	27.89 E	0.36	27.89
12789.00	0.50	20.20	12783.63	44.05 S	26.68 E	2.16	26.68
12821.00	4.10	76.30	12815.60	43.64 S	27.84 E	12.01	27.84
12852.00	8.40	81.90	12846.41	43.06 S	31.16 E	13.99	31.16
12883.00	12.90	86.80	12876.87	42.55 S	36.86 E	14.79	36.86
12914.00	17.40	89.40	12906.78	42.31 S	44.96 E	14.68	44.96
12946.00	21.40	85.10	12936.96	41.76 S	55.56 E	13.26	55.56
12978.00	25.80	79.60	12966.28	40.00 S	68.24 E	15.36	68.24
13010.00	30.10	79.80	12994.54	37.32 S	82.99 E	13.44	82.99
13043.00	32.80	79.90	13022.69	34.29 S	99.94 E	8.18	99.94
13075.00	36.20	81.10	13049.06	31.31 S	117.81 E	10.83	117.81
13139.00	39.90	82.70	13099.45	25.77 S	156.86 E	5.98	156.86
13204.00	39.40	82.90	13149.50	20.57 S	198.01 E	0.79	198.01
13267.00	38.40	83.40	13198.53	15.85 S	237.28 E	1.66	237.28
13332.00	36.40	84.20	13250.16	11.58 S	276.53 E	3.17	276.53
13396.00	35.10	84.80	13302.10	8.00 S	313.75 E	2.10	313.75
13455.00	33.70	85.90	13350.78	5.29 S	346.97 E	2.60	346.97
13523.00	31.60	88.00	13408.04	3.32 S	383.59 E	3.51	383.59
13587.00	29.80	88.80	13463.07	2.40 S	416.25 E	2.88	416.25
13651.00	32.00	85.50	13517.98	0.74 S	449.07 E	4.34	449.07
13715.00	36.60	82.50	13570.84	3.09 N	484.91 E	7.66	484.91
13778.00	40.40	82.00	13620.14	8.38 N	523.76 E	6.05	523.76
13842.00	41.30	76.90	13668.56	16.06 N	564.88 E	5.40	564.88

All data is in feet unless otherwise stated.
Coordinates from slot #1 and TVD from rotary table.
Bottom hole distance is 1259.69 on azimuth 87.55 degrees from wellhead.
Vertical section is from N 0.00 W 0.00 on azimuth 90.00 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ

POGO PRODUCING CO.
WBR Federal No. 5, slot #1
, LEA COUNTY, NEW MEXICO

SURVEY LISTING Page 4
Your ref : MWD
Last revised : 2-Mar-2001

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S		Dogleg Deg/100ft	Vert Sect
13906.00	41.80	76.30	13716.46	25.90 N	606.17 E	1.00	606.17
13969.00	39.00	78.10	13764.43	34.96 N	645.98 E	4.81	645.98
14033.00	40.30	82.10	13813.72	41.96 N	686.19 E	4.47	686.19
14097.00	38.30	86.00	13863.25	46.19 N	726.49 E	4.96	726.49
14160.00	37.60	87.40	13912.93	48.42 N	765.17 E	1.76	765.17
14223.00	37.20	86.30	13962.97	50.52 N	803.37 E	1.24	803.37
14287.00	36.60	87.60	14014.15	52.57 N	841.74 E	1.54	841.74
14345.00	34.90	88.80	14061.23	53.64 N	875.61 E	3.17	875.61
14413.00	34.20	87.40	14117.23	54.92 N	914.15 E	1.56	914.15
14477.00	33.40	89.20	14170.42	55.98 N	949.73 E	2.00	949.73
14540.00	33.00	88.90	14223.13	56.55 N	984.23 E	0.69	984.23
14603.00	32.10	92.20	14276.24	56.24 N	1018.11 E	3.16	1018.11
14667.00	35.00	89.50	14329.58	55.74 N	1053.46 E	5.09	1053.46
14731.00	34.10	89.50	14382.29	56.06 N	1089.76 E	1.41	1089.76
14794.00	36.40	90.60	14433.73	56.02 N	1126.11 E	3.79	1126.11
14857.00	35.50	90.30	14484.73	55.73 N	1163.10 E	1.46	1163.10
14921.00	36.10	91.10	14536.64	55.27 N	1200.53 E	1.19	1200.53
15019.00	36.50	91.50	14615.62	53.95 N	1258.53 E	0.47	1258.53 Projection to bottom.

All data is in feet unless otherwise stated.
Coordinates from slot #1 and TVD from rotary table.
Bottom hole distance is 1259.69 on azimuth 87.55 degrees from wellhead.
Vertical section is from N 0.00 W 0.00 on azimuth 90.00 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ

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, LEA COUNTY, NEW MEXICO

SURVEY LISTING Page 5
Your ref : MWD
Last revised : 2-Mar-2001

		Comments in wellpath =====	
MD	TVD	Rectangular Coords.	Comment

15019.00	14615.62	53.95 N 1258.53 E	Projection to bottom.

Targets associated with this wellpath =====				
Target name	Geographic Location	T.V.D.	Rectangular Coordinates	Revised

		14460.00	40.00N 1150.00E	5-Jan-2001

POGO PRODUCING CO.
WBR Federal No. 5

slot #1

LEA COUNTY, NEW MEXICO

S U R V E Y L I S T I N G

by
Baker Hughes INTEQ

Your ref : MWD ST-01
Our ref : svy1566
License :

Date printed : 13-Mar-2001
Date created : 21-Feb-2001
Last revised : 2-Mar-2001

Field is centred on n32 58 13.100,w103 14 15.6
Structure is centred on n32 58 13.100,w103 14 15.6

Slot location is n32 58 13.100,w103 14 15.600
Slot Grid coordinates are N 718458.262, E 836033.931
Slot local coordinates are 0.00 N 0.00 E

Projection type: mercator - New Mexico East (3001), Spheroid: Clarke - 1866

Reference North is True North

POGO PRODUCING CO.
WBR Federal No. 5, slot #1
LEA COUNTY, NEW MEXICO

SURVEY LISTING Page 1
Your ref : MWD ST-01
Last revised : 2-Mar-2001

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S		Dogleg Deg/100ft	Vert Sect
0.00	0.00	0.00	0.00	0.00 N	0.00 E	0.00	0.00
100.00	0.21	19.00	100.00	0.17 N	0.06 E	0.21	0.06
200.00	0.22	285.26	200.00	0.40 N	0.06 W	0.31	-0.06
300.00	0.28	160.57	300.00	0.22 N	0.16 W	0.44	-0.16
400.00	0.35	35.88	400.00	0.23 N	0.10 E	0.56	0.10
500.00	0.47	13.51	500.00	0.88 N	0.37 E	0.20	0.37
600.00	0.60	351.14	599.99	1.80 N	0.39 E	0.24	0.39
700.00	0.56	350.27	699.99	2.80 N	0.22 E	0.04	0.22
800.00	0.53	349.40	799.98	3.74 N	0.05 E	0.04	0.05
900.00	0.43	356.59	899.98	4.56 N	0.05 W	0.11	-0.05
1000.00	0.33	3.78	999.98	5.22 N	0.06 W	0.11	-0.06
1100.00	0.23	90.79	1099.98	5.51 N	0.16 E	0.39	0.16
1200.00	0.12	177.79	1199.97	5.40 N	0.36 E	0.25	0.36
1300.00	0.22	246.78	1299.97	5.22 N	0.19 E	0.21	0.19
1400.00	0.31	315.77	1399.97	5.34 N	0.17 W	0.31	-0.17
1500.00	0.33	167.79	1499.97	5.26 N	0.30 W	0.62	-0.30
1600.00	0.35	19.81	1599.97	5.26 N	0.14 W	0.66	-0.14
1700.00	0.41	32.75	1699.97	5.85 N	0.16 E	0.10	0.16
1800.00	0.47	45.69	1799.97	6.44 N	0.65 E	0.11	0.65
1900.00	0.49	57.76	1899.96	6.96 N	1.31 E	0.10	1.31
2000.00	0.51	69.83	1999.96	7.34 N	2.09 E	0.11	2.09
2100.00	0.96	71.30	2099.95	7.76 N	3.30 E	0.45	3.30
2200.00	1.41	72.78	2199.93	8.40 N	5.28 E	0.45	5.28
2300.00	1.60	69.41	2299.89	9.25 N	7.76 E	0.21	7.76
2400.00	1.79	66.03	2399.85	10.38 N	10.50 E	0.21	10.50
2500.00	2.09	61.17	2499.79	11.89 N	13.52 E	0.34	13.52
2600.00	2.39	56.31	2599.72	13.93 N	16.85 E	0.35	16.85
2700.00	2.64	52.28	2699.62	16.49 N	20.40 E	0.31	20.40
2800.00	2.88	48.25	2799.51	19.57 N	24.10 E	0.32	24.10
2900.00	2.86	47.27	2899.38	22.94 N	27.81 E	0.06	27.81
3000.00	2.84	46.28	2999.26	26.34 N	31.43 E	0.05	31.43
3100.00	2.81	45.12	3099.14	29.78 N	34.95 E	0.06	34.95
3200.00	2.78	43.96	3199.02	33.25 N	38.37 E	0.06	38.37
3300.00	3.02	44.17	3298.89	36.89 N	41.89 E	0.24	41.89
3400.00	3.26	44.38	3398.74	40.81 N	45.71 E	0.24	45.71
3500.00	3.53	48.29	3498.56	44.89 N	50.00 E	0.35	50.00
3600.00	3.80	52.19	3598.36	48.96 N	54.91 E	0.37	54.91
3700.00	3.30	49.62	3698.17	52.86 N	59.71 E	0.52	59.71
3800.00	2.80	47.04	3798.03	56.38 N	63.69 E	0.52	63.69
3900.00	2.63	36.38	3897.91	59.89 N	66.83 E	0.53	66.83
4000.00	2.46	25.72	3997.82	63.66 N	69.12 E	0.50	69.12
4100.00	2.39	22.69	4097.73	67.52 N	70.86 E	0.14	70.86
4200.00	2.33	19.66	4197.64	71.36 N	72.35 E	0.14	72.35
4300.00	2.26	27.74	4297.56	75.02 N	73.95 E	0.33	73.95
4400.00	2.20	35.82	4397.49	78.33 N	75.99 E	0.32	75.99
4500.00	1.89	49.04	4497.42	80.96 N	78.36 E	0.56	78.36
4600.00	1.58	62.27	4597.38	82.68 N	80.82 E	0.50	80.82
4700.00	1.32	66.89	4697.35	83.77 N	83.10 E	0.28	83.10
4800.00	1.07	71.51	4797.32	84.52 N	85.05 E	0.27	85.05
4900.00	0.85	83.55	4897.31	84.90 N	86.67 E	0.30	86.67

All data is in feet unless otherwise stated.
Coordinates from slot #1 and TVD from rotary table.
Bottom hole distance is 1439.41 on azimuth 88.21 degrees from wellhead.
Vertical section is from N 0.00 W 0.00 on azimuth 90.00 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ

POGO PRODUCING CO.
WBR Federal No. 5, slot #1
LEA COUNTY, NEW MEXICO

SURVEY LISTING Page 2
Your ref : MWD ST-01
Last revised : 2-Mar-2001

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S		Dogleg Deg/100ft	Vert Sect
5000.00	0.63	95.58	4997.30	84.93 N	87.95 E	0.27	87.95
5100.00	0.47	133.81	5097.30	84.60 N	88.79 E	0.39	88.79
5200.00	0.31	172.04	5197.29	84.05 N	89.12 E	0.30	89.12
5300.00	0.43	166.62	5297.29	83.41 N	89.25 E	0.13	89.25
5400.00	0.56	161.20	5397.29	82.59 N	89.49 E	0.13	89.49
5500.00	0.58	164.03	5497.28	81.64 N	89.79 E	0.04	89.79
5600.00	0.60	166.85	5597.28	80.64 N	90.05 E	0.04	90.05
5700.00	0.58	168.82	5697.27	79.64 N	90.26 E	0.03	90.26
5800.00	0.55	170.78	5797.27	78.67 N	90.44 E	0.03	90.44
5900.00	0.53	193.64	5897.26	77.75 N	90.40 E	0.22	90.40
6000.00	0.52	216.50	5997.26	76.93 N	90.03 E	0.21	90.03
6100.00	0.32	252.42	6097.26	76.49 N	89.49 E	0.32	89.49
6200.00	0.13	288.34	6197.26	76.44 N	89.11 E	0.23	89.11
6300.00	0.21	260.05	6297.26	76.44 N	88.82 E	0.11	88.82
6400.00	0.29	231.77	6397.26	76.26 N	88.45 E	0.14	88.45
6500.00	0.30	229.62	6497.25	75.94 N	88.05 E	0.02	88.05
6600.00	0.31	227.48	6597.25	75.58 N	87.66 E	0.02	87.66
6700.00	0.42	187.51	6697.25	75.04 N	87.41 E	0.27	87.41
6800.00	0.52	147.55	6797.25	74.30 N	87.61 E	0.34	87.61
6900.00	0.58	153.92	6897.24	73.46 N	88.07 E	0.08	88.07
7000.00	0.64	160.29	6997.24	72.48 N	88.48 E	0.09	88.48
7100.00	0.70	182.01	7097.23	71.35 N	88.65 E	0.26	88.65
7200.00	0.77	203.73	7197.22	70.12 N	88.35 E	0.29	88.35
7300.00	0.59	215.69	7297.22	69.08 N	87.78 E	0.23	87.78
7400.00	0.40	227.65	7397.21	68.43 N	87.22 E	0.21	87.22
7500.00	0.57	209.21	7497.21	67.75 N	86.72 E	0.23	86.72
7600.00	0.74	190.77	7597.20	66.68 N	86.35 E	0.27	86.35
7700.00	0.55	183.89	7697.20	65.56 N	86.20 E	0.20	86.20
7800.00	0.37	177.02	7797.19	64.76 N	86.18 E	0.20	86.18
7900.00	0.59	173.70	7897.19	63.93 N	86.26 E	0.23	86.26
8000.00	0.82	170.38	7997.18	62.71 N	86.43 E	0.23	86.43
8100.00	0.83	172.54	8097.17	61.29 N	86.64 E	0.04	86.64
8200.00	0.85	174.70	8197.16	59.83 N	86.81 E	0.04	86.81
8300.00	0.72	177.26	8297.15	58.46 N	86.91 E	0.14	86.91
8400.00	0.59	179.81	8397.14	57.31 N	86.94 E	0.14	86.94
8500.00	0.60	165.65	8497.14	56.29 N	87.07 E	0.15	87.07
8600.00	0.60	151.49	8597.13	55.33 N	87.45 E	0.15	87.45
8700.00	0.70	161.47	8697.13	54.28 N	87.90 E	0.15	87.90
8800.00	0.80	171.45	8797.12	53.01 N	88.19 E	0.17	88.19
8900.00	1.16	168.27	8897.10	51.32 N	88.51 E	0.36	88.51
9000.00	1.52	165.09	8997.08	49.04 N	89.05 E	0.36	89.05
9100.00	1.74	170.89	9097.04	46.26 N	89.63 E	0.28	89.63
9200.00	1.96	176.70	9196.98	43.05 N	89.97 E	0.29	89.97
9300.00	2.38	200.34	9296.91	39.39 N	89.35 E	0.98	89.35
9400.00	2.80	223.98	9396.81	35.68 N	86.93 E	1.14	86.93
9500.00	2.73	226.41	9496.70	32.29 N	83.51 E	0.14	83.51
9600.00	2.65	228.83	9596.59	29.13 N	80.05 E	0.14	80.05
9700.00	2.40	227.56	9696.49	26.19 N	76.77 E	0.25	76.77
9800.00	2.15	226.28	9796.41	23.48 N	73.87 E	0.25	73.87
9900.00	2.22	232.49	9896.34	21.00 N	70.97 E	0.25	70.97

All data is in feet unless otherwise stated.
Coordinates from slot #1 and TVD from rotary table.
Bottom hole distance is 1439.41 on azimuth 88.21 degrees from wellhead.
Vertical section is from N 0.00 W 0.00 on azimuth 90.00 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S		Dogleg Deg/100ft	Vert Sect
10000.00	2.30	238.70	9996.26	18.78 N	67.72 E	0.26	67.72
10100.00	2.26	239.94	10096.18	16.75 N	64.30 E	0.06	64.30
10200.00	2.22	241.18	10196.11	14.83 N	60.90 E	0.06	60.90
10300.00	2.31	234.94	10296.03	12.74 N	57.55 E	0.27	57.55
10400.00	2.41	228.69	10395.94	10.19 N	54.31 E	0.28	54.31
10500.00	2.01	220.23	10495.87	7.46 N	51.60 E	0.52	51.60
10600.00	1.60	211.77	10595.82	4.93 N	49.73 E	0.48	49.73
10700.00	1.41	180.52	10695.78	2.51 N	48.98 E	0.83	48.98
10800.00	1.22	149.28	10795.76	0.36 N	49.52 E	0.73	49.52
10900.00	1.33	171.12	10895.74	1.70 S	50.24 E	0.50	50.24
11000.00	1.44	192.95	10995.71	4.07 S	50.14 E	0.54	50.14
11100.00	1.40	205.04	11095.68	6.40 S	49.34 E	0.30	49.34
11200.00	1.36	217.13	11195.65	8.45 S	48.11 E	0.29	48.11
11300.00	1.35	207.98	11295.62	10.43 S	46.84 E	0.22	46.84
11400.00	1.34	198.83	11395.59	12.58 S	45.91 E	0.21	45.91
11500.00	1.47	198.01	11495.56	14.90 S	45.14 E	0.13	45.14
11600.00	1.59	197.18	11595.53	17.45 S	44.33 E	0.13	44.33
11700.00	2.00	190.47	11695.48	20.49 S	43.61 E	0.46	43.61
11800.00	2.42	183.75	11795.40	24.32 S	43.15 E	0.49	43.15
11900.00	2.94	177.29	11895.29	28.98 S	43.13 E	0.61	43.13
12000.00	3.47	170.83	11995.14	34.54 S	43.74 E	0.64	43.74
12100.00	2.60	185.60	12095.00	39.78 S	44.00 E	1.17	44.00
12200.00	1.72	200.37	12194.93	43.45 S	43.25 E	1.03	43.25
12300.00	1.89	238.88	12294.88	45.71 S	41.32 E	1.20	41.32
12400.00	2.06	277.39	12394.82	46.33 S	38.13 E	1.31	38.13
12500.00	2.04	280.07	12494.76	45.79 S	34.60 E	0.10	34.60
12600.00	2.02	282.76	12594.70	45.09 S	31.12 E	0.10	31.12
12700.00	1.74	275.78	12694.64	44.55 S	27.89 E	0.36	27.89 Tie on to SRG Survey.
12789.00	0.50	20.20	12783.63	44.05 S	26.68 E	2.16	26.68
12821.00	4.10	76.30	12815.60	43.64 S	27.84 E	12.01	27.84
12852.00	8.40	81.90	12846.41	43.06 S	31.16 E	13.99	31.16
12883.00	12.90	86.80	12876.87	42.55 S	36.86 E	14.79	36.86
12914.00	17.40	89.40	12906.78	42.31 S	44.96 E	14.68	44.96
12946.00	21.40	85.10	12936.96	41.76 S	55.56 E	13.26	55.56
12978.00	25.80	79.60	12966.28	40.00 S	68.24 E	15.36	68.24
13010.00	30.10	79.80	12994.54	37.32 S	82.99 E	13.44	82.99
13043.00	32.80	79.90	13022.69	34.29 S	99.94 E	8.18	99.94
13075.00	36.20	81.10	13049.06	31.31 S	117.81 E	10.83	117.81
13139.00	39.90	82.70	13099.45	25.77 S	156.86 E	5.98	156.86
13204.00	39.40	82.90	13149.50	20.57 S	198.01 E	0.79	198.01
13267.00	38.40	83.40	13198.53	15.85 S	237.28 E	1.66	237.28
13332.00	36.40	84.20	13250.16	11.58 S	276.53 E	3.17	276.53
13396.00	35.10	84.80	13302.10	8.00 S	313.75 E	2.10	313.75
13455.00	33.70	85.90	13350.78	5.29 S	346.97 E	2.60	346.97
13523.00	31.60	88.00	13408.04	3.32 S	383.59 E	3.51	383.59
13587.00	29.80	88.80	13463.07	2.40 S	416.25 E	2.88	416.25
13651.00	32.00	85.50	13517.98	0.74 S	449.07 E	4.34	449.07
13715.00	36.60	82.50	13570.84	3.09 N	484.91 E	7.66	484.91
13778.00	40.40	82.00	13620.14	8.38 N	523.76 E	6.05	523.76
13842.00	41.30	76.90	13668.56	16.06 N	564.88 E	5.40	564.88

All data is in feet unless otherwise stated.
Coordinates from slot #1 and TVD from rotary table.
Bottom hole distance is 1439.41 on azimuth 88.21 degrees from wellhead.
Vertical section is from N 0.00 W 0.00 on azimuth 90.00 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ

POGO PRODUCING CO.
WBR Federal No. 5, slot #1
LEA COUNTY, NEW MEXICO

SURVEY LISTING Page 4
Your ref : MWD ST-01
Last revised : 2-Mar-2001

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S		Dogleg Deg/100ft	Vert Sect
13906.00	41.80	76.30	13716.46	25.90 N	606.17 E	1.00	606.17
13969.00	39.00	78.10	13764.43	34.96 N	645.98 E	4.81	645.98
14033.00	40.30	82.10	13813.72	41.96 N	686.19 E	4.47	686.19
14097.00	38.30	86.00	13863.25	46.19 N	726.49 E	4.96	726.49
14160.00	37.60	87.40	13912.93	48.42 N	765.17 E	1.76	765.17
14223.00	37.20	86.30	13962.97	50.52 N	803.37 E	1.24	803.37
14287.00	36.60	87.60	14014.15	52.57 N	841.74 E	1.54	841.74
14345.00	34.90	88.80	14061.23	53.64 N	875.61 E	3.17	875.61
14413.00	34.20	87.40	14117.23	54.92 N	914.15 E	1.56	914.15
14477.00	33.40	89.20	14170.42	55.98 N	949.73 E	2.00	949.73
14540.00	33.00	88.90	14223.13	56.55 N	984.23 E	0.69	984.23
14603.00	32.10	92.20	14276.24	56.24 N	1018.11 E	3.16	1018.11
14667.00	35.00	89.50	14329.58	55.74 N	1053.46 E	5.09	1053.46
14731.00	34.10	89.50	14382.29	56.06 N	1089.76 E	1.41	1089.76
14770.00	34.20	90.90	14414.56	55.98 N	1111.65 E	2.03	1111.65
14802.00	32.60	91.70	14441.28	55.59 N	1129.26 E	5.19	1129.26
14835.00	32.20	92.70	14469.14	54.91 N	1146.93 E	2.03	1146.93
14867.00	31.90	92.70	14496.26	54.11 N	1163.89 E	0.94	1163.89
15019.00	29.90	89.60	14626.69	52.48 N	1241.90 E	1.68	1241.90
15051.00	29.80	89.10	14654.45	52.66 N	1257.83 E	0.84	1257.83
15115.00	29.80	91.10	14709.98	52.61 N	1289.63 E	1.55	1289.63
15177.00	28.90	91.70	14764.03	51.87 N	1320.01 E	1.53	1320.01
15241.00	27.00	93.00	14820.56	50.65 N	1349.98 E	3.12	1349.98
15336.00	26.10	93.50	14905.54	48.24 N	1392.38 E	0.98	1392.38
15400.00	25.00	94.00	14963.28	46.44 N	1419.92 E	1.75	1419.92
15445.00	24.50	94.50	15004.15	45.04 N	1438.71 E	1.20	1438.71 Projection to TD.

All data is in feet unless otherwise stated.
Coordinates from slot #1 and TVD from rotary table.
Bottom hole distance is 1439.41 on azimuth 88.21 degrees from wellhead.
Vertical section is from N 0.00 W 0.00 on azimuth 90.00 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ

POGO PRODUCING CO.
WBR Federal No. 5, slot #1
, LEA COUNTY, NEW MEXICO

SURVEY LISTING Page 5
Your ref : MWD ST-01
Last revised : 2-Mar-2001

Comments in wellpath =====			
MD	TVD	Rectangular Coords.	Comment
12700.00	12694.64	44.55 S 27.89 E	Tie on to SRG Survey.
15445.00	15004.15	45.04 N 1438.71 E	Projection to TD.

Targets associated with this wellpath =====				
Target name	Geographic Location	T.V.D.	Rectangular Coordinates	Revised
		14460.00	40.00N 1150.00E	5-Jan-2001