

David H. Arrington Oil & Gas, Inc.
May Fly 14 State Com No.3

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 : svy1327
License :

Date printed : 29-Dec-1999
Date created : 8-Dec-1999
Last revised : 20-Dec-1999

Field is centred on n32 58 13.100, w103 14 15.6
Structure is centred on 776880.000, 702700.000, 999.00000, N

Slot location is n32 55 42.744, w103 25 51.457
Slot Grid coordinates are N 702700.000, E 776880.000
Slot local coordinates are 0.00 N 0.00 E

Projection type: mercator - New Mexico East (3001), Spheroid: Clarke - 1866
Reference North is Grid North

David H. Arrington Oil & Gas, Inc.
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, LEA COUNTY, NEW MEXICO

SURVEY LISTING Page 1
Your ref : MWD
Last revised : 20-Dec-1999

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	0.00
100.00	0.38	173.02	100.00	0.33 S	0.38	0.33
200.00	0.39	141.51	200.00	0.93 S	0.21	0.98
300.00	0.84	159.50	299.99	1.89 S	0.48	2.04
400.00	0.74	169.52	399.98	3.21 S	0.17	3.41
500.00	0.76	179.07	499.97	4.51 S	0.13	4.66
600.00	0.86	186.92	599.96	5.92 S	0.15	5.95
700.00	0.88	172.08	699.95	7.42 S	0.23	7.36
800.00	0.75	174.95	799.94	8.83 S	0.14	8.73
900.00	0.70	172.75	899.93	10.08 S	0.06	9.95
1000.00	0.79	184.41	999.93	11.38 S	0.18	11.17
1100.00	0.79	182.85	1099.92	12.75 S	0.02	12.42
1200.00	0.91	185.22	1199.90	14.23 S	0.13	13.75
1300.00	0.84	185.43	1299.89	15.74 S	0.07	15.12
1400.00	0.65	192.71	1399.88	17.03 S	0.21	16.25
1500.00	0.58	199.95	1499.88	18.06 S	0.10	17.10
1600.00	0.50	215.98	1599.87	18.89 S	0.17	17.72
1700.00	0.20	228.82	1699.87	19.36 S	0.31	18.02
1800.00	0.28	232.06	1799.87	19.63 S	0.08	18.16
1900.00	0.29	232.66	1899.87	19.94 S	0.01	18.30
2000.00	0.40	232.83	1999.87	20.30 S	0.11	18.47
2100.00	0.46	221.86	2099.87	20.81 S	0.10	18.75
2200.00	0.65	178.85	2199.86	21.67 S	0.44	19.46
2300.00	0.78	158.46	2299.85	22.86 S	0.28	20.67
2400.00	0.84	152.79	2399.84	24.14 S	0.10	22.07

All data is in feet unless otherwise stated.
Coordinates from slot #1 and TVD from rotary table.
Bottom hole distance is 335.63 on azimuth 162.70 degrees from wellhead.
Vertical section is from N 0.00 E 0.00 on azimuth 158.94 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ

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SURVEY LISTING Page 2
Your ref : MWD
Last revised : 20-Dec-1999

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
2500.00	0.59	140.25	2499.84	25.19 S	0.29	23.28
2600.00	0.46	148.82	2599.83	25.92 S	0.15	24.16
2700.00	0.46	154.18	2699.83	26.62 S	0.04	24.95
2800.00	0.51	157.85	2799.83	27.39 S	0.06	25.79
2900.00	0.49	147.95	2899.82	28.17 S	0.09	26.65
3000.00	0.59	141.59	2999.82	28.93 S	0.12	27.57
3100.00	0.48	137.05	3099.81	29.65 S	0.12	28.45
3200.00	0.40	114.72	3199.81	30.10 S	0.19	29.09
3300.00	0.49	117.29	3299.81	30.45 S	0.10	29.67
3400.00	0.67	108.71	3399.80	30.83 S	0.20	30.36
3500.00	0.56	100.92	3499.80	31.11 S	0.14	30.99
3600.00	0.48	79.04	3599.79	31.12 S	0.21	31.32
3700.00	0.30	73.60	3699.79	30.97 S	0.18	31.42
3800.00	0.11	68.19	3799.79	30.86 S	0.19	31.44
3900.00	0.14	253.24	3899.79	30.86 S	0.25	31.43
4000.00	0.12	244.64	3999.79	30.94 S	0.03	31.43
4100.00	0.12	194.43	4099.79	31.08 S	0.10	31.52
4200.00	0.19	227.84	4199.79	31.29 S	0.11	31.66
4300.00	0.26	217.78	4299.79	31.58 S	0.08	31.84
4400.00	0.33	226.40	4399.79	31.96 S	0.08	32.07
4500.00	0.36	238.53	4499.78	32.32 S	0.08	32.23
4600.00	0.40	267.24	4599.78	32.50 S	0.19	32.18
4700.00	0.50	262.17	4699.78	32.57 S	0.11	31.97
4800.00	0.62	263.76	4799.77	32.69 S	0.12	31.73
4900.00	0.60	256.45	4899.77	32.87 S	0.08	31.52

All data is in feet unless otherwise stated.
Coordinates from slot #1 and TVD from rotary table.
Bottom hole distance is 335.63 on azimuth 162.70 degrees from wellhead.
Vertical section is from N 0.00 E 0.00 on azimuth 158.94 degrees.
Calculation uses the minimum curvature method.
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SURVEY LISTING Page 3
Your ref : MWD
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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	0.53	252.53	4999.76	33.13 S	1.41 E	31.43
5100.00	0.51	258.89	5099.76	33.36 S	0.54 E	31.32
5200.00	0.40	266.70	5199.76	33.46 S	0.24 W	31.14
5300.00	0.40	266.03	5299.75	33.51 S	0.94 W	30.93
5400.00	0.42	272.70	5399.75	33.51 S	1.66 W	30.68
5500.00	0.34	265.07	5499.75	33.52 S	2.32 W	30.45
5600.00	0.37	270.29	5599.75	33.54 S	2.94 W	30.25
5700.00	0.37	277.81	5699.75	33.50 S	3.58 W	29.98
5800.00	0.40	276.75	5799.74	33.42 S	4.24 W	29.66
5900.00	0.42	271.42	5899.74	33.37 S	4.95 W	29.36
6000.00	0.37	249.52	5999.74	33.47 S	5.62 W	29.22
6100.00	0.40	238.74	6099.74	33.76 S	6.21 W	29.27
6200.00	0.41	244.69	6199.73	34.09 S	6.83 W	29.36
6300.00	0.42	245.67	6299.73	34.40 S	7.49 W	29.41
6400.00	0.63	240.16	6399.73	34.82 S	8.30 W	29.51
6500.00	0.67	237.75	6499.72	35.41 S	9.27 W	29.71
6600.00	0.65	223.21	6599.71	36.14 S	10.16 W	30.07
6700.00	0.51	231.65	6699.71	36.83 S	10.90 W	30.45
6800.00	0.55	229.21	6799.70	37.42 S	11.61 W	30.75
6900.00	0.58	237.35	6899.70	38.00 S	12.40 W	31.01
7000.00	0.70	238.11	6999.69	38.60 S	13.35 W	31.23
7100.00	0.58	221.15	7099.69	39.31 S	14.20 W	31.58
7200.00	0.53	218.59	7199.68	40.05 S	14.83 W	32.05
7300.00	0.54	225.55	7299.68	40.75 S	15.45 W	32.47
7400.00	0.47	243.27	7399.67	41.26 S	16.16 W	32.70

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Coordinates from slot #1 and TVD from rotary table.
Bottom hole distance is 335.63 on azimuth 162.70 degrees from wellhead.
Vertical section is from N 0.00 E 0.00 on azimuth 158.94 degrees.
Calculation uses the minimum curvature method.
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SURVEY LISTING Page 4
Your ref : MWD
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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
7500.00	0.46	246.09	7499.67	41.61 S	0.03	32.76
7600.00	0.44	250.54	7599.67	41.91 S	0.04	32.77
7700.00	0.46	249.49	7699.66	42.18 S	0.02	32.75
7800.00	0.60	236.84	7799.66	42.60 S	0.18	32.86
7900.00	0.44	219.93	7899.66	43.19 S	0.22	33.16
8000.00	0.26	256.76	7999.65	43.53 S	0.28	33.31
8100.00	0.21	249.26	8099.65	43.65 S	0.06	33.28
8200.00	0.23	122.67	8199.65	43.82 S	0.39	33.44
8300.00	0.30	110.81	8299.65	44.02 S	0.10	33.78
8400.00	0.39	119.86	8399.65	44.29 S	0.10	34.22
8490.00	0.41	110.09	8489.65	44.55 S	0.08	34.67
8585.00	0.60	124.30	8584.64	44.95 S	0.24	35.30
8774.00	0.40	141.40	8773.64	46.02 S	0.13	36.75
8963.00	0.30	164.00	8962.63	47.01 S	0.09	37.87
9152.00	0.40	177.40	9151.63	48.15 S	0.07	38.99
9341.00	0.80	179.20	9340.62	50.12 S	0.21	40.85
9530.00	0.90	181.90	9529.60	52.93 S	0.06	43.46
9719.00	0.90	186.80	9718.57	55.88 S	0.04	46.14
9808.00	0.90	193.90	9907.55	58.80 S	0.06	48.66
1007.00	0.70	185.70	10096.53	61.39 S	0.12	50.91
10286.00	0.70	196.40	10285.52	63.64 S	0.07	52.86
10475.00	0.60	184.10	10474.51	65.74 S	0.09	54.67
10664.00	0.60	191.30	10663.50	67.70 S	0.04	56.40
10742.00	1.40	195.10	10741.48	69.02 S	1.03	57.52
10774.00	3.20	180.00	10773.46	70.29 S	5.89	58.67

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Coordinates from slot #1 and TVD from rotary table.
Bottom hole distance is 335.63 on azimuth 162.70 degrees from wellhead.
Vertical section is from N 0.00 E 0.00 on azimuth 158.94 degrees.
Calculation uses the minimum curvature method.
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, LEA COUNTY, NEW MEXICO

SURVEY LISTING Page 5
Your ref : MWD
Last revised : 20-Dec-1999

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
0805.00	6.00	179.20	10804.35	72.77 S	19.25 W	9.03
0836.00	8.80	180.10	10835.09	76.77 S	19.24 W	9.04
0868.00	11.80	183.00	10866.57	82.48 S	19.41 W	9.51
0900.00	14.70	183.70	10897.72	89.80 S	19.84 W	9.08
0905.00	17.10	180.20	10927.53	98.29 S	20.11 W	8.33
0962.00	19.20	175.60	10956.99	107.93 S	19.74 W	8.20
0994.00	20.40	168.70	10987.10	118.65 S	18.24 W	8.20
1025.00	21.40	161.00	11016.07	129.29 S	15.34 W	9.42
1057.00	22.40	152.90	11045.76	140.24 S	10.66 W	9.94
1088.00	21.80	147.70	11074.49	150.37 S	4.90 W	6.60
1120.00	21.10	146.50	11104.27	160.19 S	1.46 E	2.58
1151.00	21.10	146.50	11133.19	169.50 S	7.62 E	0.00
1182.00	22.00	146.90	11162.03	179.02 S	13.87 E	2.94
1214.00	23.60	148.50	11191.53	189.50 S	20.49 E	5.36
1245.00	25.70	150.80	11219.70	200.66 S	27.01 E	7.45
1276.00	27.40	149.50	11247.43	212.68 S	33.91 E	5.80
1332.00	27.17	147.40	11297.20	234.55 S	47.34 E	1.77
1382.00	27.00	145.50	11341.72	253.53 S	59.92 E	1.77
1400.00	25.33	146.36	11366.85	263.75 S	66.84 E	6.12
1500.00	17.50	152.50	11490.58	305.24 S	91.88 E	6.12
1600.00	17.50	152.50	11544.94	320.45 S	99.79 E	0.00

Top of Target

Bottom of Target

All data is in feet unless otherwise stated.
Coordinates from slot #1 and TVD from rotary table.
Bottom hole distance is 335.63 on azimuth 162.70 degrees from wellhead.
Vertical section is from N 0.00 E 0.00 on azimuth 158.94 degrees.

Calculation uses the minimum curvature method.

Presented by Baker Hughes INTEQ

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SURVEY LISTING Page 6
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		Comments in wellpath	
		=====	
MD	TVD	Rectangular Coords.	Comment
11332.00	11297.20	234.55 S	47.34 E Top of Target
11410.00	11366.85	263.75 S	66.84 E Bottom of Target

Targets associated with this wellpath			
=====			
Target name	Geographic Location	T.V.D.	Rectangular Coordinates Revised
	776957.000, 702500.000, 0.00000	11275.00	200.00S 77.00E 26-Aug-1999

David H. Arrington Oil & Gas, Inc.
May Fly 14 State Com No.3

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 : Gyro
Our ref : svy1326
License :

Date printed : 29-Dec-1999
Date created : 1-Dec-1999
Last revised : 20-Dec-1999

Field is centred on n32 58 13.100, w103 14 15.6
Structure is centred on 776880.000, 702700.000, 999.00000, N

Slot location is n32 55 42.744, w103 25 51.457
Slot Grid coordinates are N 702700.000, E 776880.000
Slot local coordinates are 0.00 N 0.00 E

Projection type: mercator - New Mexico East (3001), Spheroid: Clarke - 1866
Reference North is Grid North

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SURVEY LISTING Page 1
Your ref : Gyro
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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
100.00	0.38	173.02	100.00	0.33 S	0.04 E	0.32
200.00	0.39	141.51	200.00	0.93 S	0.29 E	0.97
300.00	0.84	159.50	299.99	1.89 S	0.77 E	2.04
400.00	0.74	169.52	399.98	3.21 S	1.14 E	3.39
500.00	0.76	179.07	499.97	4.51 S	1.27 E	4.62
600.00	0.86	186.92	599.96	5.92 S	1.19 E	5.87
700.00	0.88	172.08	699.95	7.42 S	1.20 E	7.24
800.00	0.75	174.95	799.94	8.83 S	1.37 E	8.58
900.00	0.70	172.75	899.93	10.08 S	1.50 E	9.77
1000.00	0.79	184.41	999.93	11.38 S	1.52 E	10.96
1100.00	0.79	182.85	1099.92	12.75 S	1.44 E	12.17
1200.00	0.91	185.22	1199.90	14.23 S	1.33 E	13.46
1300.00	0.84	185.43	1299.89	15.74 S	1.19 E	14.77
1400.00	0.65	192.71	1399.88	17.03 S	0.99 E	15.85
1500.00	0.58	199.95	1499.88	18.06 S	0.70 E	16.67
1600.00	0.50	215.98	1599.87	18.89 S	0.27 E	17.24
1700.00	0.20	228.82	1699.87	19.36 S	0.13 W	17.50
1800.00	0.28	232.06	1799.87	19.63 S	0.45 W	17.60
1900.00	0.29	232.66	1899.87	19.94 S	0.85 W	17.71
2000.00	0.40	232.83	1999.87	20.30 S	1.33 W	17.84
2100.00	0.46	221.86	2099.87	20.81 S	1.87 W	18.07
2200.00	0.65	178.85	2199.86	21.67 S	2.13 W	18.75
2300.00	0.78	158.46	2299.85	22.86 S	1.87 W	19.94
2400.00	0.84	152.79	2399.84	24.14 S	1.29 W	21.34

All data is in feet unless otherwise stated.
Coordinates from slot #1 and TVD from rotary table.
Bottom hole distance is 48.51 on azimuth 203.32 degrees from wellhead.
Vertical section is from S 0.00 E 0.00 on azimuth 155.03 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ

David H. Arrington Oil & Gas, Inc.
May Fly 14 State Com No.3, slot #1
, LEA COUNTY, NEW MEXICO

SURVEY LISTING Page 2
Your ref : Gyro
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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
2500.00	0.59	140.25	2499.84	25.19 S	0.63 W	22.57
2600.00	0.46	148.82	2599.83	25.92 S	0.09 W	23.46
2700.00	0.46	154.18	2699.83	26.62 S	0.29 E	24.25
2800.00	0.51	157.85	2799.83	27.39 S	0.63 E	25.10
2900.00	0.49	147.95	2899.82	28.17 S	1.02 E	25.97
3000.00	0.59	141.59	2999.82	28.93 S	1.57 E	26.89
3100.00	0.48	137.05	3099.81	29.65 S	2.18 E	27.80
3200.00	0.40	114.72	3199.81	30.10 S	2.79 E	28.47
3300.00	0.49	117.29	3299.81	30.45 S	3.48 E	29.07
3400.00	0.67	108.71	3399.80	30.83 S	4.42 E	29.82
3500.00	0.56	100.92	3499.80	31.11 S	5.45 E	30.51
3600.00	0.48	79.04	3599.79	31.12 S	6.34 E	30.89
3700.00	0.30	73.60	3699.79	30.97 S	7.01 E	31.03
3800.00	0.11	68.19	3799.79	30.86 S	7.35 E	31.08
3900.00	0.14	253.24	3899.79	30.86 S	7.33 E	31.07
4000.00	0.12	244.64	3999.79	30.94 S	7.12 E	31.05
4100.00	0.12	194.43	4099.79	31.08 S	7.00 E	31.13
4200.00	0.19	227.84	4199.79	31.29 S	6.85 E	31.26
4300.00	0.26	217.78	4299.79	31.58 S	6.59 E	31.41
4400.00	0.33	226.40	4399.79	31.96 S	6.24 E	31.60
4500.00	0.36	238.53	4499.78	32.32 S	5.77 E	31.73
4600.00	0.40	267.24	4599.78	32.50 S	5.15 E	31.63
4700.00	0.50	262.17	4699.78	32.57 S	4.37 E	31.37
4800.00	0.62	263.76	4799.77	32.69 S	3.39 E	31.07
4900.00	0.60	256.45	4899.77	32.87 S	2.35 E	30.79

All data is in feet unless otherwise stated.

Coordinates from slot #1 and TVD from rotary table.

Bottom hole distance is 48.51 on azimuth 203.32 degrees from wellhead.

Vertical section is from S 0.00 E 0.00 on azimuth 155.03 degrees.

Calculation uses the minimum curvature method.

Presented by Baker Hughes INTEQ

David H. Arrington Oil & Gas, Inc.
May Fly 14 State Com No.3, slot #1
, LEA COUNTY, NEW MEXICO

SURVEY LISTING Page 3
Your ref : Gyro
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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	0.53	252.53	4999.76	33.13 S	1.41 E	30.63
5100.00	0.51	258.89	5099.76	33.36 S	0.54 E	30.46
5200.00	0.40	266.70	5199.76	33.46 S	0.24 W	30.23
5300.00	0.40	266.03	5299.75	33.51 S	0.94 W	29.98
5400.00	0.42	272.70	5399.75	33.51 S	1.66 W	29.68
5500.00	0.34	265.07	5499.75	33.52 S	2.32 W	29.41
5600.00	0.37	270.29	5599.75	33.54 S	2.94 W	29.17
5700.00	0.37	277.81	5699.75	33.50 S	3.58 W	28.86
5800.00	0.40	276.75	5799.74	33.42 S	4.24 W	28.50
5900.00	0.42	271.42	5899.74	33.37 S	4.95 W	28.16
6000.00	0.37	249.52	5999.74	33.47 S	5.62 W	27.97
6100.00	0.40	238.74	6099.74	33.76 S	6.21 W	27.98
6200.00	0.41	244.69	6199.73	34.09 S	6.83 W	28.02
6300.00	0.42	245.67	6299.73	34.40 S	7.49 W	28.02
6400.00	0.63	240.16	6399.73	34.82 S	8.30 W	28.06
6500.00	0.67	237.75	6499.72	35.41 S	9.27 W	28.18
6600.00	0.65	223.21	6599.71	36.14 S	10.16 W	28.47
6700.00	0.51	231.65	6699.71	36.83 S	10.90 W	28.78
6800.00	0.55	229.21	6799.70	37.42 S	11.61 W	29.02
6900.00	0.58	237.35	6899.70	38.00 S	12.40 W	29.22
7000.00	0.70	238.11	6999.69	38.60 S	13.35 W	29.36
7100.00	0.58	221.15	7099.69	39.31 S	14.20 W	29.64
7200.00	0.53	218.59	7199.68	40.05 S	14.83 W	30.05
7300.00	0.54	225.55	7299.68	40.75 S	15.45 W	30.41
7400.00	0.47	243.27	7399.67	41.26 S	16.16 W	30.58

All data is in feet unless otherwise stated.
Coordinates from slot #1 and TVD from rotary table.
Bottom hole distance is 48.51 on azimuth 203.32 degrees from wellhead.
Vertical section is from S 0.00 E 0.00 on azimuth 155.03 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ

David H. Arrington Oil & Gas, Inc.
May Fly 14 State Com No.3, slot #1
, LEA COUNTY, NEW MEXICO

SURVEY LISTING Page 4
Your ref : Gyro
Last revised : 20-Dec-1999

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
7500.00	0.46	246.09	7499.67	41.61 S	0.03	30.59
7600.00	0.44	250.54	7599.67	41.91 S	0.04	30.54
7700.00	0.46	249.49	7699.66	42.18 S	0.02	30.48
7800.00	0.60	236.84	7799.66	42.60 S	0.18	30.52
7900.00	0.44	219.93	7899.66	43.19 S	0.22	30.76
8000.00	0.26	256.76	7999.65	43.53 S	0.28	30.88
8100.00	0.21	249.26	8099.65	43.65 S	0.06	30.82
8200.00	0.23	122.67	8199.65	43.82 S	0.39	30.97
8300.00	0.30	110.81	8299.65	44.02 S	0.10	31.33
8400.00	0.39	119.86	8399.65	44.29 S	0.10	31.80
8490.00	0.41	110.09	8489.65	44.55 S	0.08	32.28

All data is in feet unless otherwise stated.
Coordinates from slot #1 and TVD from rotary table.
Bottom hole distance is 48.51 on azimuth 203.32 degrees from wellhead.
Vertical section is from S 0.00 E 0.00 on azimuth 155.03 degrees.
Calculation uses the minimum curvature method.

Presented by Baker Hughes INTEQ

David H. Arrington Oil & Gas, Inc.
May Fly 14 State Com No.3, slot #1
, LEA COUNTY, NEW MEXICO

SURVEY LISTING Page 5
Your ref : Gyro
Last revised : 20-Dec-1999

Targets associated with this wellpath

Target name	Geographic Location	T.V.D.	Rectangular Coordinates	Revised
	777540.000, 701283.000, 0.00000	11315.00	1417.00S	660.00E 7-Sep-1999

David H. Arrington Oil & Gas, Inc.
May Fly 14 State Com No.3

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 : Lateral
Our ref : svy1332
License :

Date printed : 29-Dec-1999
Date created : 20-Dec-1999
Last revised : 29-Dec-1999

Field is centred on n32 58 13.100,w103 14 15.6
Structure is centred on 776880.000,702700.000,999.00000,N

Slot location is n32 55 42.744,w103 25 51.457
Slot Grid coordinates are N 702700.000, E 776880.000
Slot local coordinates are 0.00 N 0.00 E

Projection type: mercator - New Mexico East (3001), Spheroid: Clarke -1866
Reference North is Grid North

David H. Arrington Oil & Gas, Inc.
May Fly 14 State Com No.3, slot #1
, LEA COUNTY, NEW MEXICO

SURVEY LISTING Page 1
Your ref : Lateral
Last revised : 29-Dec-1999

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
100.00	0.38	173.02	100.00	0.33 S	0.04 E	0.32
200.00	0.39	141.51	200.00	0.93 S	0.29 E	0.97
300.00	0.84	159.50	299.99	1.89 S	0.77 E	2.04
0.00	0.74	169.52	399.98	3.21 S	1.14 E	3.39
500.00	0.76	179.07	499.97	4.51 S	1.27 E	4.62
600.00	0.86	186.92	599.96	5.92 S	1.19 E	5.87
700.00	0.88	172.08	699.95	7.42 S	1.20 E	7.24
800.00	0.75	174.95	799.94	8.83 S	1.37 E	8.58
900.00	0.70	172.75	899.93	10.08 S	1.50 E	9.77
1000.00	0.79	184.41	999.93	11.38 S	1.52 E	10.96
1100.00	0.79	182.85	1099.92	12.75 S	1.44 E	12.17
1200.00	0.91	185.22	1199.90	14.23 S	1.33 E	13.46
1300.00	0.84	185.43	1299.89	15.74 S	1.19 E	14.77
1400.00	0.65	192.71	1399.88	17.03 S	0.99 E	15.85
1500.00	0.58	199.95	1499.88	18.06 S	0.70 E	16.67
1600.00	0.50	215.98	1599.87	18.89 S	0.27 E	17.24
1700.00	0.20	228.82	1699.87	19.36 S	0.13 W	17.50
1800.00	0.28	232.06	1799.87	19.63 S	0.45 W	17.60
1900.00	0.29	232.66	1899.87	19.94 S	0.85 W	17.71
2000.00	0.40	232.83	1999.87	20.30 S	1.33 W	17.84
2100.00	0.46	221.86	2099.87	20.81 S	1.87 W	18.07
2200.00	0.65	178.85	2199.86	21.67 S	2.13 W	18.75
2300.00	0.78	158.46	2299.85	22.86 S	1.87 W	19.94
2400.00	0.84	152.79	2399.84	24.14 S	1.29 W	21.34

All data is in feet unless otherwise stated.
Coordinates from slot #1 and TVD from rotary table.
Bottom hole distance is 1556.84 on azimuth 151.73 degrees from wellhead.
Vertical section is from S 0.00 E 0.00 on azimuth 155.03 degrees.

Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ

David H. Arrington Oil & Gas, Inc.
May Fly 14 State Com No.3, slot #1
, LEA COUNTY, NEW MEXICO

SURVEY LISTING Page 2
Your ref : Lateral
Last revised : 29-Dec-1999

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
2500.00	0.59	140.25	2499.84	25.19 S	0.63 W	22.57
2600.00	0.46	148.82	2599.83	25.92 S	0.09 W	23.46
2700.00	0.46	154.18	2699.83	26.62 S	0.29 E	24.25
2800.00	0.51	157.85	2799.83	27.39 S	0.63 E	25.10
2900.00	0.49	147.95	2899.82	28.17 S	1.02 E	25.97
3000.00	0.59	141.59	2999.82	28.93 S	1.57 E	26.89
3100.00	0.48	137.05	3099.81	29.65 S	2.18 E	27.80
3200.00	0.40	114.72	3199.81	30.10 S	2.79 E	28.47
3300.00	0.49	117.29	3299.81	30.45 S	3.48 E	29.07
3400.00	0.67	108.71	3399.80	30.83 S	4.42 E	29.82
3500.00	0.56	100.92	3499.80	31.11 S	5.45 E	30.51
3600.00	0.48	79.04	3599.79	31.12 S	6.34 E	30.89
3700.00	0.30	73.60	3699.79	30.97 S	7.01 E	31.03
3800.00	0.11	68.19	3799.79	30.86 S	7.35 E	31.08
3900.00	0.14	253.24	3899.79	30.86 S	7.33 E	31.07
4000.00	0.12	244.64	3999.79	30.94 S	7.12 E	31.05
4100.00	0.12	194.43	4099.79	31.08 S	7.00 E	31.13
4200.00	0.19	227.84	4199.79	31.29 S	6.85 E	31.26
4300.00	0.26	217.78	4299.79	31.58 S	6.59 E	31.41
4400.00	0.33	226.40	4399.79	31.96 S	6.24 E	31.60
4500.00	0.36	238.53	4499.78	32.32 S	5.77 E	31.73
4600.00	0.40	267.24	4599.78	32.50 S	5.15 E	31.63
4700.00	0.50	262.17	4699.78	32.57 S	4.37 E	31.37
4800.00	0.62	263.76	4799.77	32.69 S	3.39 E	31.07
4900.00	0.60	256.45	4899.77	32.87 S	2.35 E	30.79

All data is in feet unless otherwise stated.
Coordinates from slot #1 and TVD from rotary table.
Bottom hole distance is 1556.84 on azimuth 151.73 degrees from wellhead.
Vertical section is from S 0.00 E 0.00 on azimuth 155.03 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ

David H. Arrington Oil & Gas, Inc.
May FLY 14 State Com No.3, slot #1
, LEA COUNTY, NEW MEXICO

SURVEY LISTING Page 3
Your ref : Lateral
Last revised : 29-Dec-1999

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	0.53	252.53	4999.76	33.13 S	1.41 E	30.63
5100.00	0.51	258.89	5099.76	33.36 S	0.54 E	30.46
5200.00	0.40	266.70	5199.76	33.46 S	0.24 W	30.23
5300.00	0.40	266.03	5299.75	33.51 S	0.94 W	29.98
5400.00	0.42	272.70	5399.75	33.51 S	1.66 W	29.68
5500.00	0.34	265.07	5499.75	33.52 S	2.32 W	29.41
5600.00	0.37	270.29	5599.75	33.54 S	2.94 W	29.17
5700.00	0.37	277.81	5699.75	33.50 S	3.58 W	28.86
5800.00	0.40	276.75	5799.74	33.42 S	4.24 W	28.50
5900.00	0.42	271.42	5899.74	33.37 S	4.95 W	28.16
6000.00	0.37	249.52	5999.74	33.47 S	5.62 W	27.97
6100.00	0.40	238.74	6099.74	33.76 S	6.21 W	27.98
6200.00	0.41	244.69	6199.73	34.09 S	6.83 W	28.02
6300.00	0.42	245.67	6299.73	34.40 S	7.49 W	28.02
6400.00	0.63	240.16	6399.73	34.82 S	8.30 W	28.06
6500.00	0.67	237.75	6499.72	35.41 S	9.27 W	28.18
6600.00	0.65	223.21	6599.71	36.14 S	10.16 W	28.47
6700.00	0.51	231.65	6699.71	36.83 S	10.90 W	28.78
6800.00	0.55	229.21	6799.70	37.42 S	11.61 W	29.02
6900.00	0.58	237.35	6899.70	38.00 S	12.40 W	29.22
7000.00	0.70	238.11	6999.69	38.60 S	13.35 W	29.36
7100.00	0.58	221.15	7099.69	39.31 S	14.20 W	29.64
7200.00	0.53	218.59	7199.68	40.05 S	14.83 W	30.05
7300.00	0.54	225.55	7299.68	40.75 S	15.45 W	30.41
7400.00	0.47	243.27	7399.67	41.26 S	16.16 W	30.58

All data is in feet unless otherwise stated.
Coordinates from slot #1 and TVD from rotary table.
Bottom hole distance is 1556.84 on azimuth 151.73 degrees from wellhead.
Vertical section is from S 0.00 E 0.00 on azimuth 155.03 degrees.

Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ

David H. Arrington Oil & Gas, Inc.
May Fly 14 State Com No.3, slot #1
, LEA COUNTY, NEW MEXICO

SURVEY LISTING Page 4
Your ref : Lateral
Last revised : 29-Dec-1999

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
7500.00	0.46	246.09	7499.67	41.61 S	0.03	30.59
7600.00	0.44	250.54	7599.67	41.91 S	0.04	30.54
7700.00	0.46	249.49	7699.66	42.18 S	0.02	30.48
7800.00	0.60	236.84	7799.66	42.60 S	0.18	30.52
7900.00	0.44	219.93	7899.66	43.19 S	0.22	30.76
8000.00	0.26	256.76	7999.65	43.53 S	0.28	30.88
8100.00	0.21	249.26	8099.65	43.65 S	0.06	30.82
8200.00	0.23	122.67	8199.65	43.82 S	0.39	30.97
8300.00	0.30	110.81	8299.65	44.02 S	0.10	31.33
8400.00	0.39	119.86	8399.65	44.29 S	0.10	31.80
8490.00	0.41	110.09	8489.65	44.55 S	0.08	32.28
8585.00	0.60	124.30	8584.64	44.95 S	0.24	32.95
8774.00	0.40	141.40	8773.64	46.02 S	0.13	34.44
8963.00	0.30	164.00	8962.63	47.01 S	0.09	35.57
9152.00	0.40	177.40	9151.63	48.15 S	0.07	36.67
9341.00	0.80	179.20	9340.62	50.12 S	0.21	38.48
9530.00	0.90	181.90	9529.60	52.93 S	0.06	41.01
9719.00	0.90	186.80	9718.57	55.88 S	0.04	43.59
9908.00	0.90	193.90	9907.55	58.80 S	0.06	46.01
0 1.00	0.70	185.70	10096.53	61.39 S	0.12	48.16
0286.00	0.70	196.40	10285.52	63.64 S	0.07	50.02
0475.00	0.60	184.10	10474.51	65.74 S	0.09	51.75
0664.00	0.60	191.30	10663.50	67.70 S	0.04	53.41
0742.00	1.40	195.10	10741.48	69.02 S	1.03	54.47
0774.00	3.20	180.00	10773.46	70.29 S	5.89	55.58

All data is in feet unless otherwise stated.
Coordinates from slot #1 and TVD from rotary table.
Bottom hole distance is 1556.84 on azimuth 151.73 degrees from wellhead.
Vertical section is from S 0.00 E 0.00 on azimuth 155.03 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ

David H. Arrington Oil & Gas, Inc.
May Fly 14 State Com No.3, slot #1
, LEA COUNTY, NEW MEXICO

SURVEY LISTING Page 5
Your ref : Lateral
Last revised : 29-Dec-1999

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
0805.00	6.00	179.20	10804.35	72.77 S	9.03	57.84
0836.00	8.80	180.10	10835.09	76.77 S	9.04	61.47
0868.00	11.80	183.00	10866.57	82.48 S	9.51	66.58
0900.00	14.70	183.70	10897.72	89.80 S	9.08	73.03
0 1.00	17.10	180.20	10927.53	98.29 S	8.33	80.61
0962.00	19.20	175.60	10956.99	107.93 S	8.20	89.51
0994.00	20.40	168.70	10987.10	118.65 S	8.20	99.86
1025.00	21.40	161.00	11016.07	129.29 S	9.42	110.73
1057.00	22.40	152.90	11045.76	140.24 S	9.94	122.63
1088.00	21.80	147.70	11074.49	150.37 S	6.60	134.25
1120.00	21.10	146.50	11104.27	160.19 S	2.58	145.84
1151.00	21.10	146.50	11133.19	169.50 S	0.00	156.87
1182.00	22.00	146.90	11162.03	179.02 S	2.94	168.14
1214.00	23.60	148.50	11191.53	189.50 S	5.36	180.44
1245.00	25.70	150.80	11219.70	200.66 S	7.45	193.31
1276.00	27.40	149.50	11247.43	212.68 S	5.80	207.11
1323.00	27.20	147.70	11289.20	231.07 S	1.81	228.53
1337.00	31.90	145.10	11301.37	236.82 S	34.79	235.35
1348.00	43.70	145.60	11325.82	252.43 S	38.08	254.05
1 1.00	58.40	147.90	11345.89	273.21 S	46.27	278.62
1432.00	72.70	147.70	11359.10	297.79 S	44.69	307.44
1463.00	86.90	147.10	11364.57	323.43 S	45.85	337.60
1495.00	91.90	149.70	11364.91	350.67 S	17.61	369.37
1527.00	92.40	149.40	11363.71	378.24 S	1.82	401.20
1558.00	92.80	148.60	11362.30	404.78 S	2.88	432.00

All data is in feet unless otherwise stated.
Coordinates from slot #1 and TVD from rotary table.
Bottom hole distance is 1556.84 on azimuth 151.73 degrees from wellhead.
Vertical section is from S 0.00 E 0.00 on azimuth 155.03 degrees.

Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ

David H. Arrington Oil & Gas, Inc.
May Fly 14 State Com No.3, slot #1
, LEA COUNTY, NEW MEXICO

SURVEY LISTING Page 6
Your ref : Lateral
Last revised : 29-Dec-1999

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
1589.00	92.90	148.30	11360.76	431.17 S	1.02	462.76
1621.00	93.40	148.70	11359.00	458.41 S	2.00	494.50
1653.00	93.90	148.50	11356.96	485.67 S	1.68	526.24
1794.00	93.60	148.40	11354.94	512.03 S	1.02	556.97
176.00	93.40	148.10	11352.98	539.19 S	1.13	588.68
1748.00	93.00	148.60	11351.20	566.39 S	2.00	620.42
1779.00	93.90	149.00	11349.33	592.85 S	3.18	651.18
1811.00	94.20	150.10	11347.07	620.37 S	3.55	682.95
1842.00	94.30	149.30	11344.77	647.06 S	2.59	713.73
1874.00	95.50	149.90	11342.04	674.56 S	4.19	745.47
1938.00	96.20	149.70	11335.52	729.59 S	1.14	808.87
1969.00	95.30	151.30	11332.41	756.43 S	5.90	839.62
2001.00	94.10	147.90	11329.79	783.93 S	11.23	871.36
2032.00	93.10	146.10	11327.84	809.88 S	6.63	902.00
2061.00	90.60	142.70	11326.90	833.44 S	14.55	930.48
2092.00	91.50	142.00	11326.34	857.98 S	3.68	960.71
2124.00	91.90	145.30	11325.39	883.74 S	10.38	992.07
2155.00	91.90	145.00	11324.36	909.17 S	0.97	1022.59
2177.00	92.00	146.20	11323.27	935.55 S	3.76	1054.14
2199.00	92.90	147.60	11321.90	962.34 S	5.20	1085.79
2249.00	93.30	149.50	11320.28	987.89 S	6.46	1115.55
2281.00	94.30	149.50	11318.16	1015.40 S	3.12	1147.33
2313.00	95.20	149.70	11315.51	1042.91 S	2.88	1179.08
2376.00	93.10	153.20	11310.95	1098.09 S	6.47	1241.78
2408.00	92.70	152.50	11309.33	1126.53 S	2.52	1273.71

All data is in feet unless otherwise stated.
Coordinates from slot #1 and TVD from rotary table.
Bottom hole distance is 1556.84 on azimuth 151.73 degrees from wellhead.
Vertical section is from S 0.00 E 0.00 on azimuth 155.03 degrees.

Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ

David H. Arrington Oil & Gas, Inc.
 May Fly 14 State Com No.3, slot #1
 , LEA COUNTY, NEW MEXICO

SURVEY LISTING Page 7
 Your ref : Lateral
 Last revised : 29-Dec-1999

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
12440.00	93.00	150.50	11307.74	1154.61 S	6.31	1305.61
12471.00	93.10	150.70	11306.09	1181.58 S	0.72	1336.47
12503.00	92.40	150.40	11304.55	1209.41 S	2.38	1368.34
12535.00	93.50	150.40	11302.91	1237.20 S	3.44	1400.19
12567.00	93.60	149.70	11300.99	1264.01 S	2.28	1431.02
12598.00	93.80	149.90	11298.92	1291.61 S	0.88	1462.82
12629.00	93.90	150.10	11296.84	1318.40 S	0.72	1493.63
12690.00	93.90	150.10	11292.69	1371.15 S	0.00	1554.26

All data is in feet unless otherwise stated.
 Coordinates from slot #1 and TVD from rotary table.
 Bottom hole distance is 1556.84 on azimuth 151.73 degrees from wellhead.
 Vertical section is from S 0.00 E 0.00 on azimuth 155.03 degrees.
 Calculation uses the minimum curvature method.

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David H. Arrington Oil & Gas, Inc.
May Fly 14 State Com No.3, slot #1
, LEA COUNTY, NEW MEXICO

SURVEY LISTING Page 8
Your ref : Lateral
Last revised : 29-Dec-1999

Targets associated with this wellpath

Target name	Geographic Location	T.V.D.	Rectangular Coordinates	Revised
	777540.000, 701283.000, 0.00000	11315.00	1417.00S	660.00E 7-Sep-1999

100-100000
100-100000
100-100000

David H. Arrington Oil & Gas, Inc.

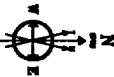
Structure : May Fly 14 State Com No.3

Slot : slot #1

Field :

Location : LEA COUNTY, NEW MEXICO

Sur : C - 228/N + 1654/W
 BHL : F - 1645/N + 2314/W
 14 - 165 - 35e
 30-025-34696

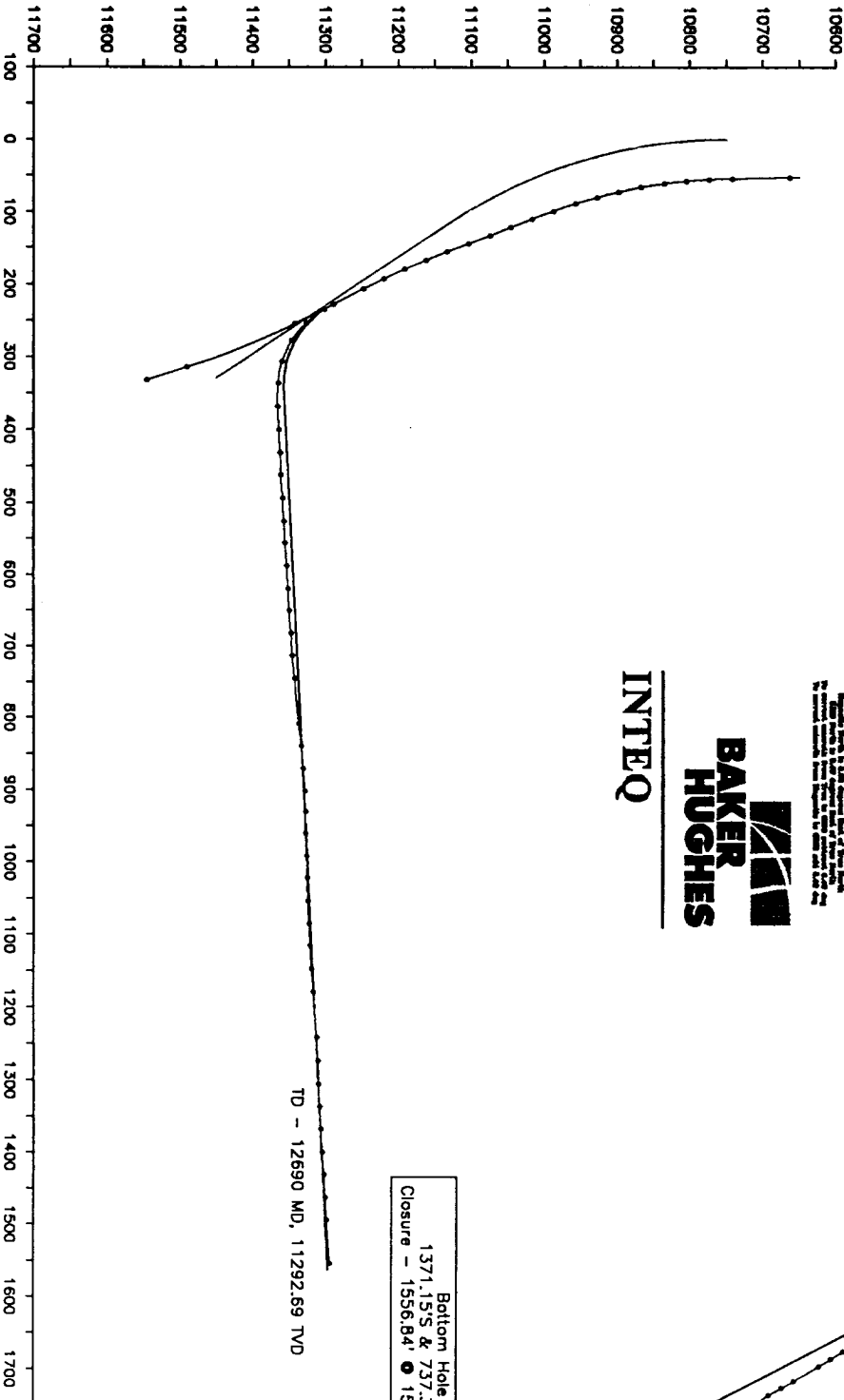


These data were obtained from the logs of the well and are subject to change without notice.

**BAKER
HUGHES**

INTEQ

True Vertical Depth (feet)



Vertical Section (feet) ->

Azimuth 155.03 with reference 0.00 S, 0.00 E from slot #1

East (feet) ->

