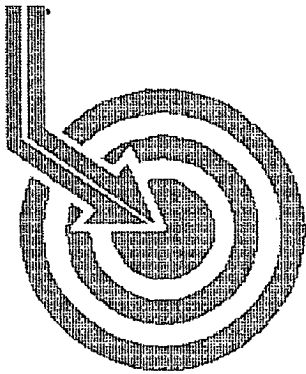


SCANNED



Scientific Drilling

SUR: N-16-18s-33e, 657/S & 1982/W
BHL: P-16-18s-33e, 820/S & 4784/W
API #30-025-30262

E.O.G.

Field: State
Site: Lea County, NM
Well: State 16 #2
Wellpath: VH - Job #32K1104701
Survey: 11/10/04

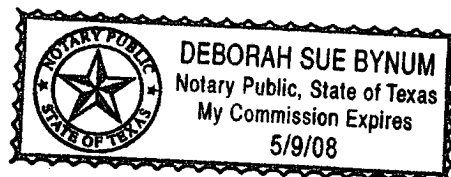
This survey is correct to the best of my knowledge
and is supported by actual field data.

RECEIVED
Hobbs
OCD

Becky Wharton Company Representative

Notorized this date 20th of December, 2004.

Deborah Sue Bynum
Notary Signature
County of Midland
State of Texas





Scientific Drilling International Survey Report

Company: E.O.G.	Date: 12/20/2004	Time: 08:43:09	Page: 1
Field: State	Co-ordinate(NE) Reference: Site: Lea County, NM, Grid North		
Site: Lea County, NM	Vertical (TVD) Reference: SITE 0.0		
Well: State 16 #2	Section (VS) Reference: Well (0.00N,0.00E,85.30Azi)		
Wellpath: VH - Job #32K1104701	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Survey: 11/10/04	Start Date: 11/10/2004
KSRG 0'-9180'	
Company: Scientific Drilling Internatio	Engineer: Guebara/Foster
Tool: Keeper, Keeper Surface Readout Gyro	Tied-to: From Surface

Survey

MD ft	Incl deg	Azlm deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
0.0	0.00	359.64	0.0	0.0	0.0	0.0	0.00	0.0	0.00
100.0	0.43	246.92	100.0	-0.4	-0.1	-0.3	0.43	0.4	246.92
200.0	0.33	188.94	200.0	-0.8	-0.6	-0.7	0.38	0.9	231.79
300.0	0.36	202.59	300.0	-1.0	-1.2	-0.9	0.09	1.5	217.99
400.0	0.35	186.32	400.0	-1.2	-1.7	-1.1	0.10	2.0	211.13
500.0	0.42	172.17	500.0	-1.2	-2.4	-1.0	0.12	2.6	203.28
600.0	0.43	177.47	600.0	-1.2	-3.2	-1.0	0.04	3.3	197.14
700.0	0.53	177.90	700.0	-1.3	-4.0	-0.9	0.10	4.1	193.24
800.0	0.72	182.73	800.0	-1.4	-5.1	-1.0	0.20	5.2	190.61
900.0	0.86	174.95	900.0	-1.4	-6.5	-0.9	0.18	6.5	188.07
1000.0	0.84	174.01	1000.0	-1.4	-7.9	-0.8	0.02	8.0	185.57
1100.0	0.81	172.29	1099.9	-1.4	-9.4	-0.6	0.04	9.4	183.68
1200.0	0.90	170.99	1199.9	-1.3	-10.8	-0.4	0.09	10.8	182.03
1300.0	0.71	177.46	1299.9	-1.2	-12.2	-0.2	0.21	12.2	181.09
1400.0	0.58	190.19	1399.9	-1.4	-13.3	-0.3	0.19	13.4	181.27
1500.0	0.54	177.33	1499.9	-1.5	-14.3	-0.4	0.13	14.3	181.45
1600.0	0.56	153.65	1599.9	-1.4	-15.2	-0.1	0.23	15.2	180.47
1700.0	0.68	136.62	1699.9	-0.8	-16.1	0.5	0.22	16.1	178.22
1800.0	0.90	124.97	1799.9	0.2	-17.0	1.6	0.27	17.0	174.78
1900.0	0.78	115.12	1899.9	1.3	-17.7	2.8	0.19	17.9	170.98
2000.0	0.85	98.00	1999.9	2.7	-18.1	4.2	0.25	18.6	167.05
2100.0	0.84	91.31	2099.9	4.1	-18.2	5.6	0.10	19.1	162.84
2200.0	1.02	92.69	2199.9	5.7	-18.3	7.3	0.18	19.7	158.37
2300.0	1.06	87.26	2299.8	7.5	-18.3	9.1	0.11	20.4	153.63
2400.0	1.38	84.51	2399.8	9.7	-18.1	11.2	0.33	21.3	148.31
2500.0	1.26	84.97	2499.8	12.0	-17.9	13.5	0.12	22.4	143.03
2600.0	1.30	80.92	2599.8	14.2	-17.6	15.7	0.10	23.6	138.33
2700.0	1.29	80.90	2699.7	16.5	-17.3	17.9	0.01	24.9	133.94
2800.0	1.11	77.72	2799.7	18.5	-16.9	20.0	0.19	26.2	130.21
2900.0	1.30	68.85	2899.7	20.6	-16.3	22.0	0.27	27.4	126.51
3000.0	1.21	68.65	2999.7	22.7	-15.5	24.0	0.09	28.6	122.80
3100.0	1.26	60.38	3099.6	24.7	-14.6	26.0	0.18	29.8	119.27
3200.0	1.21	63.34	3199.6	26.7	-13.5	27.9	0.08	31.0	115.91
3300.0	1.28	59.08	3299.6	28.6	-12.5	29.8	0.12	32.3	112.77
3400.0	1.17	57.65	3399.6	30.6	-11.4	31.6	0.11	33.6	109.80
3500.0	1.08	47.60	3499.6	32.2	-10.2	33.2	0.22	34.7	107.09
3600.0	1.09	49.71	3599.5	33.7	-8.9	34.6	0.04	35.7	104.50
3700.0	1.09	44.84	3699.5	35.2	-7.7	36.0	0.09	36.8	102.01
3800.0	1.14	46.51	3799.5	36.7	-6.3	37.4	0.06	37.9	99.56
3900.0	1.12	47.70	3899.5	38.3	-5.0	38.8	0.03	39.1	97.27
4000.0	1.15	46.26	3999.5	39.8	-3.6	40.3	0.04	40.4	95.11
4100.0	1.02	51.73	4099.4	41.3	-2.4	41.7	0.17	41.7	93.23
4200.0	0.98	44.90	4199.4	42.7	-1.2	43.0	0.13	43.0	91.59
4300.0	1.07	54.36	4299.4	44.2	0.0	44.3	0.19	44.3	90.06
4400.0	0.91	57.71	4399.4	45.7	0.9	45.8	0.17	45.8	88.85
4500.0	1.01	58.00	4499.4	47.2	1.8	47.2	0.10	47.2	87.80
4600.0	0.97	65.90	4599.4	48.8	2.6	48.7	0.14	48.8	86.91
4700.0	0.97	72.50	4699.4	50.4	3.2	50.3	0.11	50.4	86.33
4800.0	0.96	79.14	4799.3	52.0	3.6	51.9	0.11	52.0	85.99



Scientific Drilling International Survey Report

Company: E.O.G.
Field: State
Site: Lea County, NM
Well: State 16 #2
Wellpath: VH - Job #32K1104701

Date: 12/20/2004 Time: 08:43:09 Page: 2
Co-ordinate(NE) Reference: Site: Lea County, NM, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,85.30Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
4900.0	0.94	80.49	4899.3	53.7	3.9	53.6	0.03	53.7	85.80
5000.0	0.88	83.77	4999.3	55.3	4.2	55.1	0.08	55.3	85.69
5100.0	0.92	84.08	5099.3	56.8	4.3	56.7	0.04	56.9	85.65
5200.0	0.91	86.42	5199.3	58.4	4.4	58.3	0.04	58.4	85.63
5300.0	0.85	94.20	5299.3	60.0	4.4	59.8	0.13	60.0	85.75
5400.0	0.88	89.08	5399.3	61.5	4.4	61.3	0.08	61.5	85.89
5500.0	1.07	96.39	5499.3	63.2	4.3	63.0	0.23	63.2	86.09
5600.0	0.96	95.73	5599.2	64.9	4.1	64.8	0.11	64.9	86.36
5700.0	1.08	91.42	5699.2	66.7	4.0	66.6	0.14	66.7	86.55
5800.0	1.08	87.29	5799.2	68.5	4.0	68.4	0.08	68.6	86.62
5900.0	1.13	85.49	5899.2	70.5	4.2	70.4	0.06	70.5	86.62
6000.0	1.34	86.02	5999.2	72.6	4.3	72.5	0.21	72.6	86.59
6100.0	1.28	75.21	6099.1	74.9	4.7	74.8	0.25	74.9	86.41
6200.0	1.40	77.84	6199.1	77.2	5.2	77.0	0.13	77.2	86.12
6300.0	1.37	75.05	6299.1	79.6	5.8	79.4	0.07	79.6	85.83
6400.0	1.42	81.45	6399.0	82.0	6.3	81.8	0.16	82.0	85.60
6500.0	1.39	77.16	6499.0	84.4	6.7	84.2	0.11	84.4	85.42
6600.0	1.20	75.15	6599.0	86.7	7.3	86.4	0.20	86.7	85.18
6700.0	1.29	79.70	6699.0	88.8	7.7	88.5	0.13	88.8	85.00
6800.0	1.25	78.06	6798.9	91.0	8.2	90.7	0.05	91.0	84.85
6900.0	1.18	81.93	6898.9	93.1	8.5	92.7	0.11	93.1	84.74
7000.0	1.42	92.54	6998.9	95.4	8.6	95.0	0.34	95.4	84.81
7100.0	1.31	91.85	7098.9	97.8	8.5	97.4	0.11	97.8	84.99
7200.0	1.32	84.77	7198.8	100.0	8.6	99.7	0.16	100.0	85.06
7300.0	1.54	79.43	7298.8	102.5	9.0	102.1	0.26	102.5	84.99
7400.0	1.52	81.20	7398.8	105.2	9.4	104.8	0.05	105.2	84.87
7500.0	1.37	74.10	7498.7	107.7	9.9	107.2	0.23	107.7	84.70
7600.0	1.35	70.53	7598.7	110.0	10.7	109.5	0.09	110.0	84.44
7700.0	1.36	69.43	7698.7	112.3	11.5	111.7	0.03	112.3	84.14
7800.0	1.26	65.56	7798.7	114.5	12.3	113.8	0.13	114.5	83.81
7900.0	1.27	66.46	7898.6	116.5	13.2	115.8	0.02	116.6	83.48
8000.0	1.33	74.74	7998.6	118.7	14.0	118.0	0.20	118.8	83.24
8100.0	1.26	104.61	8098.6	120.9	14.0	120.2	0.67	121.0	83.35
8200.0	1.26	107.26	8198.6	123.0	13.4	122.3	0.06	123.0	83.74
8300.0	1.42	105.87	8298.5	125.1	12.7	124.5	0.16	125.2	84.15
8400.0	1.41	101.83	8398.5	127.5	12.2	126.9	0.10	127.5	84.53
8500.0	1.33	99.54	8498.5	129.8	11.7	129.3	0.10	129.8	84.82
8600.0	0.98	93.94	8598.5	131.8	11.5	131.3	0.37	131.8	85.01
8700.0	1.00	88.44	8698.4	133.5	11.4	133.0	0.10	133.5	85.09
8800.0	1.00	95.96	8798.4	135.2	11.4	134.7	0.13	135.2	85.18
8900.0	1.02	86.10	8898.4	136.9	11.3	136.5	0.17	136.9	85.25
9000.0	1.03	86.25	8998.4	138.7	11.4	138.3	0.01	138.7	85.27
9100.0	1.05	86.52	9098.4	140.6	11.6	140.1	0.02	140.6	85.28
9180.0	0.99	87.52	9178.4	142.0	11.6	141.5	0.08	142.0	85.30



**Scientific
Drilling**

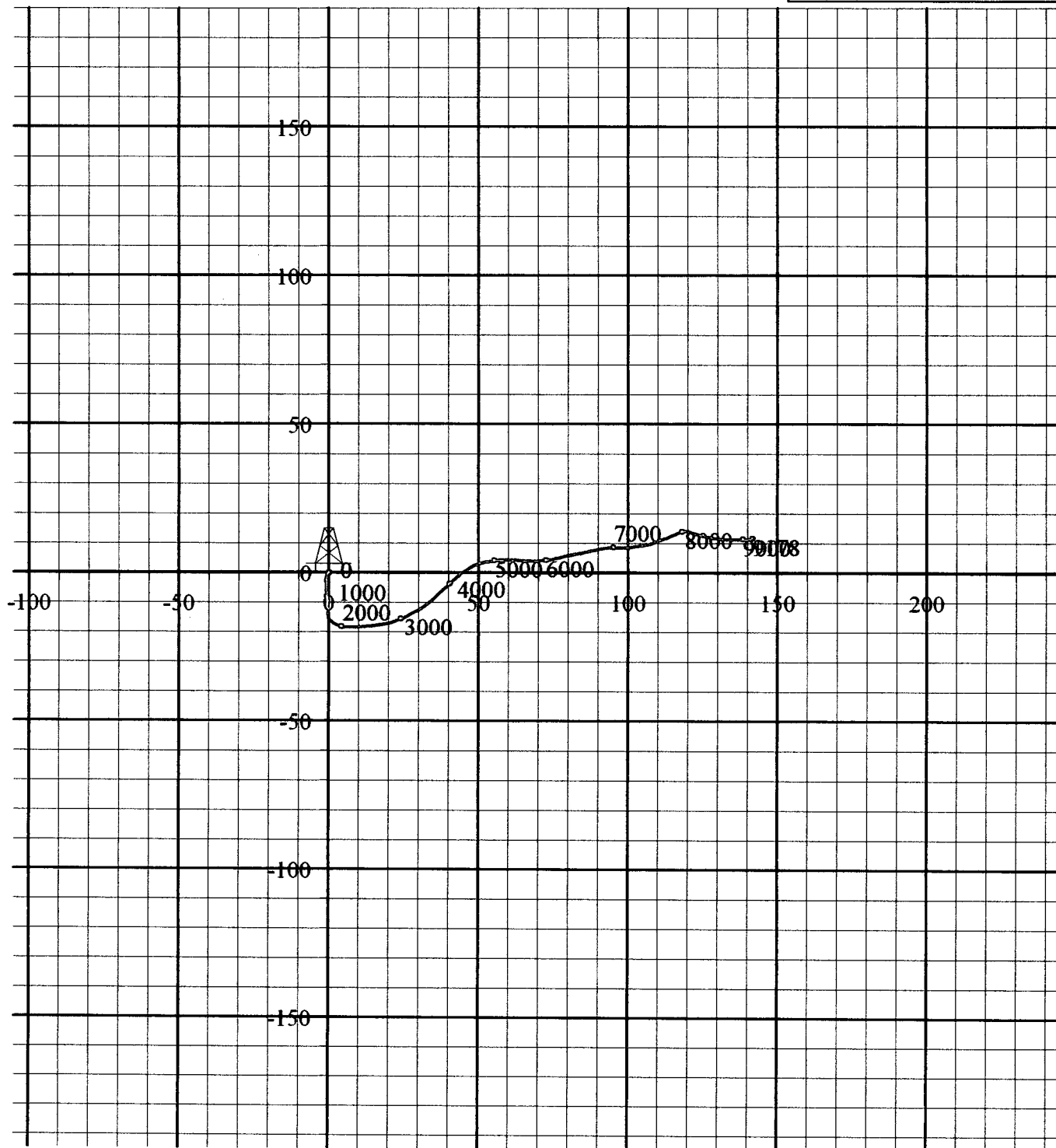
Field: State
Site: Lea County, NM
Well: State 16 #2
Wellpath: VH - Job #32K1104701
Survey: 11/10/04



Azimuths to Grid North
True North: 0.00°
Magnetic North: 0.00°

Magnetic Field
Strength: 0nT
Dip Angle: 0.00°
Date: 12/19/2004
Model: igrf2000

South(-)/North(+) [20ft/in]



West(-)/East(+) [20ft/in]

PathFinder Energy Services

Survey Report

Page 1
Job No: JWT-0411-0157-WTWT
Date: 12/3/2004
Time: 4:50 am
Wellpath ID: state16_
Date Created: 11/21/2004
Last Revision: 12/3/2004

Calculated using the Minimum Curvature Method
Computed using PDS VER2.2.6
Vertical Section Plane: 85.30 deg.

Survey Reference: WELLHEAD
Vertical Section Reference: WELLHEAD
Closure Reference: WELLHEAD
TVD Reference: WELLHEAD

EOG Resources
State "16" 2H
Key #92
Lea County, NM
state16_surveys

Measured Depth (ft)	Incl (deg.)	Drift Dir. (deg.)	TVD (ft)	Vertical Section (ft)	Course Length (ft)	TOTAL Rectangular Offsets (ft)		Closure Dist. (ft)	Dir. (deg.)	DLS (dg/100ft)
9100.00	1.05	86.52	9098.38	140.55	0.00	11.58 N	140.07 E	140.55@	85.28	0.00
9185.00	7.47	59.16	9183.10	148.29	85.00	14.44 N	145.60 E	148.31@	84.33	7.71
9215.00	14.68	55.73	9212.53	151.35	30.00	17.59 N	150.42 E	151.44@	83.33	24.12
9247.00	20.93	55.29	9242.98	159.84	32.00	23.13 N	158.48 E	160.16@	81.70	19.54
9278.00	27.00	58.02	9271.29	170.90	31.00	30.02 N	169.01 E	171.65@	79.93	19.90
9307.00	29.37	62.06	9296.86	183.29	29.00	36.84 N	180.88 E	184.66@	78.49	10.49
9339.00	31.39	63.90	9324.48	198.26	32.00	44.18 N	195.30 E	200.23@	77.25	6.95
9370.00	31.39	70.15	9350.93	213.57	31.00	50.48 N	210.14 E	216.12@	76.49	10.50
9402.00	32.71	71.20	9378.05	230.00	32.00	58.09 N	226.17 E	233.02@	76.07	4.48
9433.00	35.25	71.90	9403.76	246.83	31.00	61.57 N	242.60 E	250.29@	75.76	8.29
9465.00	36.76	70.32	9429.64	265.07	32.00	67.67 N	260.40 E	269.05@	75.43	5.54
9496.00	39.48	69.35	9454.03	283.51	31.00	74.27 N	278.36 E	288.09@	75.06	8.98
9528.00	42.56	67.51	9478.17	303.60	32.00	82.00 N	297.88 E	308.96@	74.61	10.34
9559.00	47.75	67.51	9500.03	324.52	31.00	90.40 N	318.18 E	330.77@	74.14	16.74
9590.00	53.38	68.91	9519.71	347.40	31.00	99.27 N	340.41 E	354.66@	73.74	18.49
9621.00	58.30	69.44	9537.11	372.03	31.00	108.39 N	364.38 E	380.16@	73.43	15.93
9654.00	63.75	70.58	9553.09	399.87	33.00	118.25 N	391.50 E	408.97@	73.19	16.79
9685.00	70.52	71.11	9585.13	427.62	31.00	127.61 N	418.47 E	437.49@	73.04	21.90
9717.00	77.12	73.84	9574.04	457.46	32.00	136.85 N	447.76 E	468.20@	73.01	22.19
9748.00	83.19	74.36	9579.34	487.41	31.00	145.21 N	477.12 E	498.73@	73.07	19.65
9780.00	89.08	75.42	9581.50	518.80	32.00	153.53 N	507.93 E	530.62@	73.18	18.70
9816.00	93.91	80.25	9580.58	554.46	36.00	161.11 N	543.09 E	566.48@	73.48	18.97
9847.00	96.02	83.33	9577.87	585.28	31.00	165.52 N	573.65 E	597.05@	73.91	12.01
9879.00	99.54	86.76	9573.54	616.98	32.00	168.26 N	605.23 E	628.18@	74.46	15.29
9910.00	100.33	91.94	9568.19	647.42	31.00	168.61 N	635.75 E	657.73@	75.15	16.65
9941.00	98.05	94.40	9563.24	677.73	31.00	168.91 N	666.30 E	688.89@	75.94	10.74
9971.00	96.11	95.72	9559.54	707.07	30.00	164.29 N	696.95 E	715.08@	76.72	7.80
10002.00	93.47	97.30	9556.95	737.37	31.00	160.78 N	726.64 E	744.22@	77.52	9.92
10034.00	90.57	99.41	9555.83	768.52	32.00	156.14 N	758.28 E	774.18@	78.36	11.20
10066.00	88.85	98.53	9555.99	799.61	32.00	151.15 N	789.88 E	804.21@	79.17	6.04
10098.00	88.90	96.16	9556.62	830.90	32.00	147.06 N	821.61 E	834.67@	79.85	7.41
10129.00	89.34	94.23	9557.09	861.43	31.00	144.25 N	852.48 E	864.60@	80.40	6.38
10160.00	89.60	94.23	9557.38	892.05	31.00	141.97 N	883.39 E	894.73@	80.87	0.84

PathFinder Energy Services

Survey Report

Page 1
Job No: JWT-0411-0167-WTWT
Date: 12/4/2004
Time: 4:52 am
Wellpath ID: state16
Date Created: 11/21/2004
Last Revision: 12/4/2004

Calculated using the Minimum Curvature Method
Computed using PDS VER2.2.6
Vertical Section Plane: 85.30 deg.

Survey Reference: WELLHEAD
Vertical Section Reference: WELLHEAD
Closure Reference: WELLHEAD
TVD Reference: WELLHEAD

EOG Resources
State "16" 2H
Key #92
Lea County, NM
state16_surveys

Measured Depth (ft)	Incl (deg.)	Drift Dir. (deg.)	TVD (ft)	Vertical Section (ft)	Course Length (ft)	TOTAL Rectangular Offsets (ft)		Closure Dist. Dir. (ft) (deg.)	DLS (dg/100ft)
10002.00	93.47	97.30	9556.95	737.37	31.00	160.78 N	726.64 E	744.22@ 77.52	9.92
10034.00	90.57	89.41	9555.83	768.52	32.00	156.14 N	758.28 E	774.18@ 78.36	11.20
10066.00	88.85	98.53	9555.99	799.61	32.00	151.15 N	789.88 E	804.21@ 79.17	6.04
10098.00	88.90	96.16	9556.62	830.90	32.00	147.06 N	821.61 E	834.67@ 79.85	7.41
10129.00	89.34	94.23	9557.09	861.43	31.00	144.25 N	852.48 E	864.60@ 80.40	6.38
10160.00	89.60	94.23	9557.38	892.05	31.00	141.97 N	883.39 E	894.73@ 80.87	0.84
10192.00	89.89	93.70	9557.58	923.69	32.00	139.75 N	915.32 E	925.92@ 81.32	1.68
10223.00	90.04	92.73	9557.65	954.39	31.00	138.01 N	946.27 E	956.28@ 81.70	3.33
10264.00	90.31	92.38	9557.56	985.14	31.00	136.63 N	977.23 E	986.74@ 82.04	1.43
10285.00	90.48	92.21	9557.34	1015.91	31.00	135.39 N	1008.21 E	1017.26@ 82.35	0.78
10317.00	90.04	91.24	9557.20	1047.71	32.00	134.43 N	1040.19 E	1048.84@ 82.64	3.33
10348.00	90.48	90.54	9557.08	1078.56	31.00	133.95 N	1071.19 E	1079.53@ 82.87	2.67
10379.00	90.57	90.89	9556.77	1109.42	31.00	133.56 N	1102.19 E	1110.25@ 83.09	1.17
10411.00	90.57	90.45	9556.45	1141.28	32.00	133.18 N	1134.18 E	1141.97@ 83.30	1.37
10442.00	90.40	90.01	9556.19	1172.17	31.00	133.06 N	1165.18 E	1172.75@ 83.49	1.52
10474.00	89.96	89.48	9556.09	1204.07	32.00	133.20 N	1197.18 E	1204.57@ 83.65	2.15
PROJECTION TO BIT									
10511.00	90.20	89.40	9556.04	1240.97	37.00	133.56 N	1234.18 E	1241.38@ 83.82	0.68

PathFinder Energy Services

Survey Report

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Measured Depth (ft)	Incl (deg.)	Drift Dir. (deg.)	TVD (ft)	Vertical Section (ft)	Course Length (ft)	TOTAL Rectangular Offsets (ft)		Closure Dist. Dir. (ft) (deg.)		DLS (dg/100ft)
10182.00	89.89	93.70	9557.75	923.89	32.00	139.75 N	915.31 E	925.82@	81.32	1.68
10223.00	90.04	92.73	9557.82	954.39	31.00	138.01 N	946.28 E	956.27@	81.70	3.33
10264.00	90.31	92.38	9557.72	985.14	31.00	136.63 N	977.23 E	986.74@	82.04	1.43
10285.00	90.48	92.21	9557.51	1015.91	31.00	135.39 N	1008.21 E	1017.26@	82.35	0.78
10317.00	90.04	91.24	9557.36	1047.71	32.00	134.43 N	1040.19 E	1048.84@	82.64	3.33
10348.00	90.48	90.54	9557.22	1078.56	31.00	133.95 N	1071.19 E	1079.53@	82.87	2.67
10379.00	90.57	90.89	9556.94	1109.42	31.00	133.56 N	1102.18 E	1110.25@	83.09	1.17
10411.00	90.57	90.45	9556.82	1141.28	32.00	133.19 N	1134.18 E	1141.97@	83.30	1.37
10442.00	90.40	90.01	9556.38	1172.16	31.00	133.06 N	1165.18 E	1172.75@	83.49	1.52
10474.00	89.96	89.48	9556.26	1204.07	32.00	133.20 N	1197.18 E	1204.68@	83.85	2.15
10506.00	90.04	89.13	9556.26	1235.99	32.00	133.59 N	1229.17 E	1236.41@	83.80	1.12
10537.00	90.22	89.57	9556.19	1266.91	31.00	133.94 N	1260.17 E	1267.27@	83.93	1.53
10569.00	90.75	88.96	9555.92	1298.83	32.00	134.36 N	1292.17 E	1299.13@	84.06	2.55
10600.00	91.10	88.69	9555.42	1329.77	31.00	134.99 N	1323.16 E	1330.03@	84.17	1.41
10632.00	91.64	88.69	9554.68	1361.70	32.00	135.73 N	1355.14 E	1361.92@	84.28	1.38
10663.00	92.33	88.60	9553.63	1392.63	31.00	136.46 N	1386.11 E	1392.81@	84.38	2.56
10695.00	92.51	88.87	9552.28	1424.55	32.00	137.16 N	1418.08 E	1424.70@	84.48	1.01
10726.00	92.95	88.43	9550.80	1455.46	31.00	137.89 N	1449.03 E	1455.58@	84.56	2.01
10757.00	93.21	88.34	9549.14	1486.37	31.00	138.77 N	1479.98 E	1486.47@	84.64	0.89
10789.00	93.39	88.34	9547.30	1518.27	32.00	139.69 N	1511.91 E	1518.35@	84.72	0.56
10821.00	93.56	87.90	9545.38	1550.17	32.00	140.74 N	1543.83 E	1550.24@	84.79	1.47
10852.00	93.74	89.83	9543.38	1581.05	31.00	141.35 N	1574.76 E	1581.09@	84.87	6.24
10883.00	95.14	89.04	9540.98	1611.88	31.00	141.66 N	1605.67 E	1611.90@	84.96	5.18
10915.00	96.64	89.13	9537.70	1643.64	32.00	142.17 N	1637.49 E	1643.65@	85.04	4.70
10945.00	96.81	89.39	9534.19	1673.36	30.00	142.55 N	1667.28 E	1673.37@	85.11	1.03
10975.00	94.00	88.87	9531.38	1703.16	30.00	143.00 N	1697.15 E	1703.16@	85.18	9.52
11007.00	93.39	88.16	9529.30	1735.04	32.00	143.83 N	1729.07 E	1735.04@	85.24	2.92
11039.00	94.00	87.81	9527.24	1766.94	32.00	144.95 N	1760.98 E	1766.94@	85.29	2.20
11070.00	92.33	88.69	9525.53	1797.85	31.00	145.90 N	1791.92 E	1797.85@	85.35	6.09
11102.00	90.13	88.78	9524.84	1829.78	32.00	146.81 N	1823.90 E	1829.78@	85.40	6.88
11133.00	90.66	88.51	9524.62	1860.73	31.00	147.34 N	1854.89 E	1860.73@	85.46	1.92
11165.00	90.84	88.69	9524.21	1892.67	32.00	148.12 N	1886.88 E	1892.68@	85.51	0.80
11195.00	90.84	88.95	9523.77	1922.81	30.00	148.74 N	1916.87 E	1922.63@	85.56	0.87
11227.00	90.48	89.04	9523.40	1954.54	32.00	149.30 N	1948.86 E	1954.57@	85.62	1.18
11257.00	89.60	88.51	9523.38	1984.49	30.00	149.94 N	1978.85 E	1984.53@	85.67	3.42
11289.00	89.96	88.95	9523.50	2016.43	32.00	150.65 N	2010.85 E	2016.48@	85.72	1.78
11319.00	89.96	89.48	9523.52	2046.36	30.00	151.06 N	2040.84 E	2046.43@	85.77	1.77
11351.00	90.04	89.31	9523.52	2078.28	32.00	151.40 N	2072.84 E	2078.36@	85.82	0.59
11383.00	90.57	89.22	9523.35	2110.20	32.00	151.81 N	2104.84 E	2110.31@	85.87	1.68
11414.00	91.19	89.66	9522.87	2141.12	31.00	152.11 N	2135.83 E	2141.24@	85.93	2.45
11446.00	91.36	90.18	9522.16	2173.00	32.00	152.16 N	2167.83 E	2173.16@	85.99	1.71
11477.00	90.84	89.48	9521.57	2203.90	31.00	152.25 N	2198.82 E	2204.08@	86.04	2.81
11509.00	90.75	89.66	9521.12	2235.81	32.00	152.49 N	2230.82 E	2236.02@	86.09	0.63
11541.00	90.84	89.66	9520.68	2267.71	32.00	152.68 N	2262.81 E	2267.96@	86.14	0.28
11572.00	90.75	90.10	9520.25	2298.81	31.00	152.74 N	2293.81 E	2298.89@	86.19	1.46
11604.00	90.48	90.36	9519.91	2330.49	32.00	152.62 N	2325.81 E	2330.81@	86.25	1.17

PathFinder Energy Services

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Measured Depth (ft)	Incl (deg.)	Drift Dir. (deg.)	TVD (ft)	Vertical Section (ft)	Course Length (ft)	TOTAL Rectangular Offsets (ft)		Closure Dist. Dir. (ft) (deg.)		DLS (dg/100ft)
11635.00	89.16	88.78	9520.00	2361.40	31.00	152.85 N	2358.80 E	2361.75@	88.29	6.64
11667.00	88.81	88.16	9520.57	2393.35	32.00	153.70 N	2388.79 E	2393.73@	88.32	2.22
PROJECT TO BIT										
11704.00	89.00	88.00	9521.28	2430.30	37.00	154.94 N	2425.76 E	2430.70@	88.35	0.67

Well Name	STATE 16 #2H	Division	MIDLAND	County, St	LEA, NM
Well ID	041349	Well Type	R/E	Well Class	AFE



EXPORT

Type	MD	Inclination	Azimuth	TVD	VS	NS	EW	DL
MWD-0	9,100	.99	86.52	9,098	141.90	11.64	141.50	86.64
MWD-0	9,185	7.47	59.16	9,183	147.58	14.52	146.98	7.77
MWD-0	9,215	14.68	55.73	9,213	152.58	17.66	151.81	24.12
MWD-0	9,247	20.93	55.29	9,243	160.95	23.21	159.86	19.54
MWD-0	9,278	27.00	58.02	9,271	171.86	30.09	170.39	19.90
MWD-0	9,307	29.37	62.06	9,297	184.11	36.91	182.26	10.49
MWD-0	9,339	31.39	63.90	9,324	198.94	44.26	196.68	6.95
MWD-0	9,370	31.39	70.15	9,351	214.13	50.55	211.53	10.50
MWD-0	9,402	32.71	71.20	9,378	230.45	56.17	227.55	4.48
MWD-0	9,433	35.26	71.90	9,404	247.18	61.65	243.99	8.32
MWD-0	9,465	36.76	70.32	9,430	265.31	67.74	261.79	5.51
MWD-0	9,496	39.48	69.35	9,454	283.62	74.35	279.75	8.98
MWD-0	9,528	42.56	67.51	9,478	303.57	82.07	299.27	10.34
MWD-0	9,559	47.75	67.51	9,500	324.32	90.48	319.57	16.74
MWD-0	9,590	53.38	68.91	9,520	347.03	99.35	341.80	18.49
MWD-0	9,621	58.30	69.44	9,537	371.50	108.47	365.77	15.93
MWD-0	9,654	63.75	70.58	9,553	399.15	118.32	392.89	16.79
MWD-0	9,685	70.52	71.11	9,565	426.62	127.69	419.86	21.90
MWD-0	9,717	77.12	73.84	9,574	456.40	136.92	449.15	22.19
MWD-0	9,748	83.19	74.36	9,579	486.20	145.29	478.51	19.65
MWD-0	9,780	89.08	75.42	9,581	517.45	153.60	509.32	18.70
MWD-0	9,810	93.91	80.25	9,581	547.06	159.92	538.62	22.76
MWD-0	9,816	93.91	80.25	9,581	552.99	161.19	544.48	18.97
MWD-0	9,847	96.02	83.33	9,578	583.76	165.60	575.04	12.01
MWD-0	9,879	99.54	86.76	9,574	615.44	168.34	606.62	15.29
MWD-0	9,910	100.33	91.94	9,568	645.93	168.69	637.14	16.65
MWD-0	9,941	98.05	94.40	9,563	676.33	166.99	667.69	10.74
MWD-0	9,971	96.11	95.72	9,560	705.78	164.37	697.34	7.80
MWD-0	10,002	93.47	97.30	9,557	736.21	160.86	728.03	9.92
MWD-0	10,034	90.57	99.41	9,556	767.51	156.22	759.66	11.20
MWD-0	10,039	92.00	93.00	9,555	772.96	160.54	764.86	7.24
MWD-0	10,066	88.55	98.53	9,556	798.77	151.23	791.27	6.89
MWD-0	10,098	88.90	96.16	9,557	830.21	147.14	823.00	7.48
MWD-0	10,129	89.34	94.23	9,557	860.86	144.33	853.87	6.38
MWD-0	10,160	89.60	94.23	9,558	891.58	142.04	884.78	.84
MWD-0	10,192	89.69	93.70	9,558	923.32	139.83	916.70	1.68
MWD-0	10,223	90.04	92.73	9,558	954.12	138.09	947.65	3.33
MWD-0	10,254	90.31	92.38	9,558	984.95	136.71	978.62	1.43
MWD-0	10,285	90.48	92.21	9,558	1,015.80	135.47	1,009.60	.78
MWD-0	10,317	90.04	91.24	9,557	1,047.67	134.51	1,041.58	3.33
MWD-0	10,348	90.48	90.54	9,557	1,078.59	134.02	1,072.58	2.67
MWD-0	10,379	90.57	90.45	9,557	1,109.52	133.76	1,103.57	.41
MWD-0	10,442	90.40	90.01	9,556	1,172.39	133.50	1,166.57	.75
MWD-0	10,474	89.96	89.48	9,556	1,204.34	133.65	1,198.57	2.15
MWD-0	10,506	90.04	89.53	9,556	1,236.30	133.92	1,230.57	.29
MWD-0	10,511	90.20	89.40	9,556	1,241.30	134.01	1,235.57	.68
MWD-0	10,537	90.22	89.57	9,556	1,267.26	134.17	1,261.57	.59
MWD-0	10,569	90.70	89.00	9,556	1,299.23	134.57	1,293.56	2.33
MWD-0	10,601	91.10	88.69	9,555	1,331.20	135.21	1,325.55	1.58
MWD-0	10,632	91.54	88.61	9,555	1,362.17	135.94	1,356.54	1.44

MWD-0	10,663	92.33	88.60	9,554	1,393.14	136.70	1,387.51	2.55
MWD-0	10,695	92.51	88.87	9,552	1,425.09	137.40	1,419.47	1.01
MWD-0	10,726	92.95	88.43	9,551	1,456.03	138.13	1,450.43	2.01
MWD-0	10,757	93.21	88.34	9,549	1,486.97	139.00	1,481.37	.89
MWD-0	10,789	93.39	88.34	9,547	1,518.91	139.93	1,513.31	.56
MWD-0	10,821	93.56	87.90	9,545	1,550.84	140.98	1,545.23	1.47
MWD-0	10,826	93.60	88.34	9,545	1,555.82	141.00	1,550.22	.57
MWD-0	10,852	93.74	89.83	9,543	1,581.75	141.59	1,576.16	6.24
MWD-0	10,883	95.14	89.04	9,541	1,612.62	141.89	1,607.06	5.18
MWD-0	10,915	96.64	89.13	9,538	1,644.42	142.40	1,638.89	4.70
MWD-0	10,945	96.81	89.39	9,534	1,674.18	142.79	1,668.68	1.03
MWD-0	10,975	94.00	88.87	9,531	1,704.02	143.24	1,698.54	9.52
MWD-0	11,007	93.39	88.16	9,529	1,735.93	144.07	1,730.46	2.92
MWD-0	11,039	94.00	87.81	9,527	1,767.86	145.19	1,762.38	2.20
MWD-0	11,070	92.33	88.69	9,526	1,798.80	146.14	1,793.31	6.09
MWD-0	11,102	90.13	88.78	9,525	1,830.77	146.84	1,825.30	6.88
MWD-0	11,133	90.66	88.51	9,525	1,861.75	147.58	1,856.29	1.92
MWD-0	11,165	90.84	88.69	9,524	1,893.72	148.36	1,888.28	.80
MWD-0	11,195	90.84	88.95	9,524	1,923.70	148.97	1,918.27	.87
MWD-0	11,227	90.48	89.04	9,523	1,955.67	149.54	1,950.26	1.16
MWD-0	11,257	89.60	88.51	9,523	1,985.65	150.18	1,980.25	3.42
MWD-0	11,289	89.96	88.95	9,524	2,017.63	150.89	2,012.24	1.78
MWD-0	11,294	89.60	88.60	9,524	2,022.63	151.11	2,017.24	.24
MWD-0	11,319	89.96	89.48	9,524	2,047.60	151.30	2,042.24	1.77
MWD-0	11,351	90.04	89.31	9,524	2,079.56	151.64	2,074.24	.59
MWD-0	11,383	90.57	89.22	9,523	2,111.53	152.05	2,106.24	1.68
MWD-0	11,414	91.19	89.66	9,523	2,142.48	152.35	2,137.23	2.45
MWD-0	11,445	91.36	90.18	9,522	2,173.43	152.39	2,168.22	1.76
MWD-0	11,477	90.84	89.48	9,522	2,205.37	152.49	2,200.22	2.72
MWD-0	11,509	90.75	89.66	9,521	2,237.33	152.73	2,232.21	.63
MWD-0	11,541	90.84	89.66	9,521	2,269.28	152.92	2,264.21	.28
MWD-0	11,572	90.75	90.10	9,520	2,300.23	152.98	2,295.20	1.45
MWD-0	11,604	90.48	90.36	9,520	2,332.16	152.85	2,327.20	1.17
MWD-0	11,635	89.16	88.78	9,520	2,363.12	153.09	2,358.20	6.64
MWD-0	11,667	88.81	88.16	9,521	2,395.10	153.94	2,390.18	2.22
MWD-0	11,698	88.81	87.72	9,521	2,426.08	155.05	2,421.16	1.42
MWD-0	11,704	89.00	88.00	9,521	2,432.08	155.18	2,427.16	.67
MWD-0	11,730	89.25	87.81	9,522	2,458.07	156.30	2,453.13	1.40
MWD-0	11,761	89.96	87.81	9,522	2,489.06	157.49	2,484.10	2.29
MWD-0	11,793	90.22	88.34	9,522	2,521.05	158.56	2,516.09	1.84
MWD-0	11,823	90.57	87.99	9,522	2,551.04	159.52	2,546.07	1.65
MWD-0	11,854	90.75	88.25	9,521	2,582.03	160.54	2,577.05	1.02
MWD-0	11,884	90.84	89.04	9,521	2,612.01	161.25	2,607.04	2.65
MWD-0	11,915	91.10	88.51	9,520	2,642.98	161.91	2,638.03	1.90
MWD-0	11,947	91.45	89.31	9,520	2,674.95	162.52	2,670.01	2.73
MWD-0	11,978	91.36	89.57	9,519	2,705.90	162.82	2,701.00	.89
MWD-0	12,009	92.42	90.10	9,518	2,736.84	162.91	2,731.99	3.82
MWD-0	12,015	91.36	89.57	9,518	2,742.84	163.10	2,737.99	.00
MWD-0	12,040	92.33	90.18	9,517	2,767.75	162.84	2,762.96	.39
MWD-0	12,079	92.33	90.18	9,515	2,806.65	162.71	2,801.93	.00