

Results of Directional Survey

API number:	30-025-39743		
OGRID:		Operator:	EOG RESOURCES INC
		Property:	ENURANCE 25 FEDERAL COM # 1H

surface	ULSTR:	B	25	T	26S	R	33E
				330	FNL	1850	FEL

BH Loc	ULSTR:	B	36	T	26S	R	33E
15109	MD	9761.6	TVD	781	FNL	1775	FEL

Top Perf/OH	ULSTR:	B	25	T	26S	R	33E
10148	MD	9734.6	TVD	1103	FNL	1835	FEL

Bot Perf/OH	ULSTR:	B	36	T	26S	R	33E
14942	MD	9759.2	TVD	614	FNL	1777	FEL

	MD	N/S	E/W	VD
	10129	-754.15	14.81	9734.17
TOP PERFS/OH	10148	-773.14	15.06	9734.55
	10160	-785.14	15.21	9734.79
	14848	-5469.98	71.54	9759.79
BOT PERFS/OH	14942	-5563.96	73.48	9759.22
	14944	-5565.96	73.52	9759.21

NEXT TO LAST	15092	-5713.92	75.04	9760.41
LAST READING	15097	-5718.90	75.13	9760.77
TD	15109	-5730.85	75.35	9761.63

Surface Location	330	FN	1850	FE
Projected BHL	6061	FN	1775	FE
Location of				
Top Perfs/OH	1103	FN	1835	FE
Bottom Perfs/OH	5894	FN	1777	FE

SUMMARY of Subsurface Locations

Surface Location	B-25-26S-33E	330	FN	1850	FE	Vert. Depth
Top Perfs/OH	B-25-26S-33E	1103	FN	1835	FE	9734.55
Bottom Perfs/OH	B-36-26S-33E	614	FN	1777	FE	9759.22
Projected TD	B-36-26S-33E	781	FN	1775	FE	9761.63

30-025-39743

EOG

Wildcat (Lea County, NM)
Lea County, NM
Endurance 25 Federal Com #1H
VH - Job #32K0810574

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MAR 23 2011
HOBBSOCD

SUR: B-25-26s-33e, 330/N & 1850/E
BHL: B-36-26s-33e, 781/N & 1775/E
API # 30-025-39743

Survey: Actual

SDI Standard Survey Report

03 September, 2010

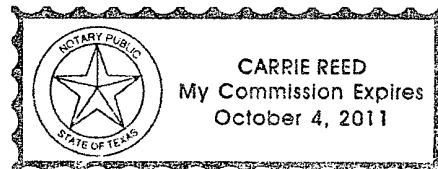
This survey is correct to the best of my knowledge and is supported by actual field data.

Robert

Notorized this date 7th of September, 2010.

Carrie Reed

Notary Signature
County of Midland
State of Texas



Scientific Drilling International
SDI Standard Survey Report

SUR: B-25-26s-33e, 330/N & 1850/E
BHL: B-36-26s-33e, 781/N & 1775/E
API # 30-025-39743

Company:	EOG	Local Co-ordinate Reference:	Well Endurance 25 Federal Com #1H
Project:	Wildcat (Lea County, NM)	TVD Reference:	WELL @ 0.0usft (Original Well Elev)
Site:	Lea County, NM	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Well:	Endurance 25 Federal Com #1H	North Reference:	Grid
Wellbore:	VH - Job #32K0810574	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0810574	Database:	EDM-Regulatory

Survey								
Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)	
1,700.0	0.45	83.22	1,700.0	3.8	9.4	67.85	10.2	
1,800.0	0.68	123.45	1,799.9	3.5	10.3	70.97	10.9	
1,900.0	1.05	130.67	1,899.9	2.6	11.5	77.12	11.8	
2,000.0	1.24	140.45	1,999.9	1.2	12.9	84.70	12.9	
2,100.0	1.63	163.41	2,099.9	-1.0	14.0	94.12	14.0	
2,200.0	1.76	173.61	2,199.8	-3.9	14.5	105.00	15.0	
2,300.0	1.32	192.23	2,299.8	-6.5	14.5	114.36	15.9	
2,400.0	0.65	247.81	2,399.8	-7.9	13.7	119.94	15.8	
2,500.0	0.75	326.54	2,499.8	-7.6	12.8	120.54	14.9	
2,600.0	0.87	6.94	2,599.8	-6.3	12.5	116.52	14.0	
2,700.0	1.23	30.67	2,699.8	-4.6	13.2	109.16	13.9	
2,800.0	1.43	40.04	2,799.7	-2.7	14.5	100.53	14.8	
2,900.0	0.36	5.32	2,899.7	-1.4	15.4	95.32	15.4	
3,000.0	0.18	104.00	2,999.7	-1.2	15.5	94.26	15.6	
3,100.0	1.20	97.99	3,099.7	-1.3	16.7	94.58	16.8	
3,200.0	1.89	86.97	3,199.7	-1.4	19.4	94.12	19.5	
3,300.0	0.95	42.43	3,299.6	-0.7	21.6	91.85	21.6	
3,400.0	0.55	6.36	3,399.6	0.4	22.2	89.00	22.2	
3,500.0	0.60	5.55	3,499.6	1.4	22.3	86.44	22.4	
3,600.0	0.22	217.15	3,599.6	1.8	22.3	85.49	22.3	
3,700.0	0.69	120.58	3,699.6	1.3	22.7	86.73	22.7	
3,800.0	1.39	88.16	3,799.6	1.0	24.4	87.59	24.4	
3,900.0	1.49	61.38	3,899.6	1.7	26.8	86.38	26.8	
4,000.0	2.34	30.98	3,999.5	4.1	28.9	82.01	29.2	
4,100.0	2.59	24.16	4,099.4	7.9	30.9	75.71	31.9	
4,200.0	2.41	24.78	4,199.3	11.8	32.7	70.10	34.8	
4,300.0	1.21	48.52	4,299.3	14.5	34.4	67.21	37.3	
4,400.0	1.08	72.41	4,399.3	15.4	36.1	66.84	39.3	
4,500.0	2.00	86.34	4,499.2	15.8	38.7	67.76	41.8	
4,600.0	2.43	87.09	4,599.2	16.1	42.6	69.35	45.5	
4,700.0	2.12	84.19	4,699.1	16.3	46.5	70.65	49.3	
4,800.0	1.86	81.04	4,799.0	16.8	50.0	71.44	52.7	
4,900.0	1.04	118.88	4,899.0	16.6	52.4	72.42	55.0	
5,000.0	1.56	194.03	4,999.0	14.8	52.9	74.31	54.9	
5,100.0	1.68	202.23	5,098.9	12.2	52.0	76.82	53.4	
5,200.0	0.91	228.86	5,198.9	10.3	50.8	78.56	51.8	
5,300.0	0.90	243.14	5,298.9	9.4	49.5	79.24	50.4	
5,400.0	1.02	244.04	5,398.9	8.7	48.0	79.77	48.8	
5,500.0	0.87	234.07	5,498.9	7.8	46.6	80.46	47.3	
5,600.0	0.96	246.77	5,598.9	7.1	45.2	81.13	45.8	
5,700.0	0.99	243.27	5,698.8	6.3	43.7	81.75	44.1	
5,800.0	1.00	212.64	5,798.8	5.2	42.4	83.00	42.8	
5,900.0	1.06	233.54	5,898.8	3.9	41.2	84.56	41.4	
6,000.0	1.17	233.88	5,998.8	2.8	39.7	85.99	39.7	

Scientific Drilling International, Inc.
SDI Standard Survey Report

Company:	EOG	Local Co-ordinate Reference:	Well Endurance 25 Federal Com #1H
Project:	Wildcat (Lea County, NM)	TVD Reference:	WELL @ 0.0usft (Original Well Elev)
Site:	Lea County, NM	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Well:	Endurance 25 Federal Com #1H	North Reference:	Grid
Wellbore:	VH - Job #32K0810574	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0810574	Database:	EDM-Regulatory

Survey								
Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)	
6,100.0	1.08	234.94	6,098.8	1.6	38.1	87.54	38.1	
6,200.0	1.35	231.58	6,198.7	0.4	36.4	89.43	36.4	
6,300.0	1.34	224.33	6,298.7	-1.2	34.6	92.00	34.6	
6,400.0	1.31	229.50	6,398.7	-2.8	32.9	94.84	33.1	
6,500.0	1.34	231.06	6,498.7	-4.3	31.2	97.80	31.4	
6,600.0	1.42	228.25	6,598.6	-5.8	29.3	101.24	29.9	
6,700.0	0.96	222.72	6,698.6	-7.3	27.8	104.63	28.8	
6,800.0	0.83	178.49	6,798.6	-8.6	27.3	107.51	28.6	
6,900.0	0.75	181.64	6,898.6	-10.0	27.3	110.10	29.0	
7,000.0	0.86	184.99	6,998.6	-11.4	27.2	112.72	29.5	
7,100.0	0.84	183.78	7,098.6	-12.9	27.1	115.41	30.0	
7,200.0	0.92	185.47	7,198.6	-14.4	27.0	118.10	30.6	
7,300.0	0.52	215.81	7,298.6	-15.6	26.6	120.32	30.8	
7,400.0	0.36	206.20	7,398.5	-16.2	26.2	121.74	30.8	
7,500.0	0.40	232.79	7,498.5	-16.7	25.8	122.93	30.7	
7,600.0	0.57	226.90	7,598.5	-17.3	25.2	124.45	30.5	
7,700.0	0.62	231.04	7,698.5	-17.9	24.4	126.35	30.3	
7,800.0	0.77	223.21	7,798.5	-18.8	23.5	128.62	30.1	
7,900.0	0.88	219.79	7,898.5	-19.8	22.5	131.37	30.0	
8,000.0	0.99	220.81	7,998.5	-21.1	21.5	134.47	30.1	
8,100.0	0.98	213.18	8,098.5	-22.5	20.4	137.68	30.4	
8,200.0	0.86	208.54	8,198.5	-23.8	19.6	140.54	30.9	
8,300.0	0.95	207.02	8,298.5	-25.2	18.9	143.18	31.5	
8,400.0	1.04	207.75	8,398.5	-26.8	18.1	145.96	32.3	
8,500.0	1.11	201.00	8,498.4	-28.5	17.3	148.70	33.3	
8,600.0	1.18	194.29	8,598.4	-30.4	16.7	151.18	34.7	
8,700.0	1.15	194.34	8,698.4	-32.4	16.2	153.38	36.2	
8,800.0	1.14	196.42	8,798.4	-34.3	15.7	155.41	37.7	
8,900.0	1.14	197.35	8,898.4	-36.2	15.1	157.34	39.2	
9,000.0	1.21	201.77	8,998.3	-38.1	14.4	159.28	40.7	
9,100.0	1.23	205.39	9,098.3	-40.1	13.6	161.29	42.3	
9,200.0	1.40	209.10	9,198.3	-42.1	12.5	163.45	43.9	
9,300.0	1.36	209.47	9,298.3	-44.2	11.3	165.62	45.6	
9,400.0	1.28	213.89	9,398.2	-46.2	10.1	167.63	47.3	
9,500.0	1.35	216.96	9,498.2	-48.0	8.8	169.62	48.8	
9,600.0	1.50	227.41	9,598.2	-49.9	7.1	171.87	50.4	
9,700.0	1.59	248.28	9,698.1	-51.3	4.9	174.57	51.5	
9,800.0	1.79	267.97	9,798.1	-51.8	2.0	177.77	51.9	
9,900.0	1.79	276.30	9,898.0	-51.7	-1.1	181.21	51.7	
10,000.0	2.82	293.13	9,998.0	-50.6	-4.9	185.54	50.8	
10,100.0	2.85	296.20	10,097.8	-48.5	-9.4	190.97	49.4	
10,200.0	2.98	295.96	10,197.7	-46.3	-14.0	196.80	48.3	
10,300.0	2.47	295.66	10,297.6	-44.2	-18.2	202.43	47.8	
10,400.0	2.65	284.35	10,397.5	-42.7	-22.4	207.71	48.2	

Scientific Drilling International, Inc.
SDI Standard Survey Report

Company:	EOG	Local Co-ordinate Reference:	Well Endurance 25 Federal Com #1H
Project:	Wildcat (Lea County, NM)	TVD Reference:	WELL @ 0.0usft (Original Well Elev)
Site:	Lea County, NM	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Well:	Endurance 25 Federal Com #1H	North Reference:	Grid
Wellbore:	VH - Job #32K0810574	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0810574	Database:	EDM-Regulatory

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)
10,500.0	3.35	279.21	10,497.4	-41.7	-27.6	213.48	49.9
10,600.0	3.95	279.19	10,597.2	-40.6	-33.8	219.78	52.9
10,700.0	4.58	284.26	10,696.9	-39.1	-41.1	226.43	56.7
10,800.0	3.88	290.26	10,796.6	-36.9	-48.1	232.50	60.7
10,900.0	3.62	298.97	10,896.4	-34.2	-54.1	237.66	64.0
11,000.0	2.98	307.59	10,996.2	-31.1	-58.9	242.14	66.6
11,100.0	2.31	313.68	11,096.1	-28.2	-62.4	245.72	68.5



Scientific Drilling
Directional Drilling Operations

Project: Wildcat (Lea County, NM)
Lea County, NM
Well: Endurance 25 Federal Com #1H
Wellbore: VH - Job #32K0810574
Design: VH - Job #32K0810574



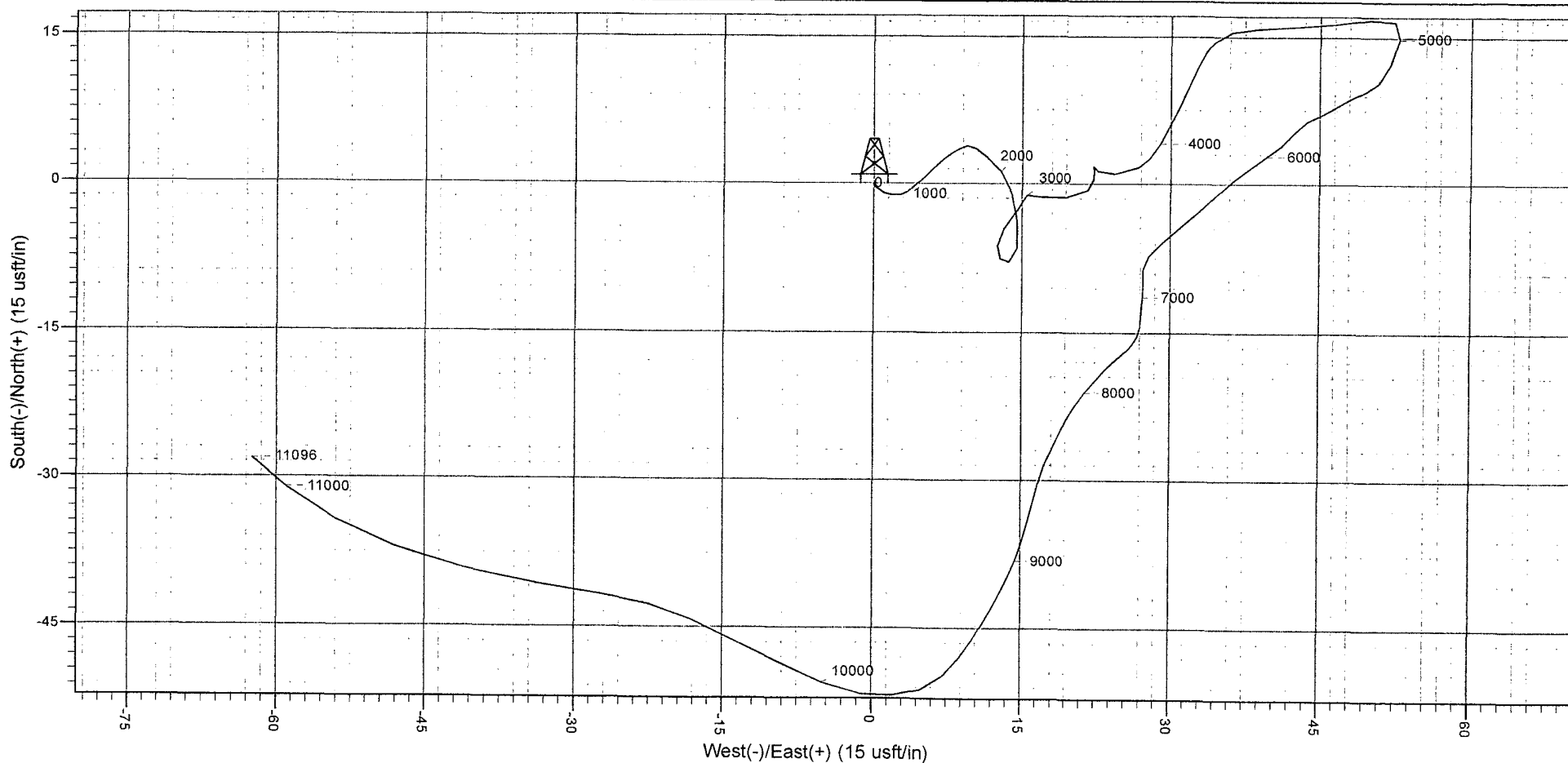
Azimuths to Grid North
True North: -1.45°
Magnetic North: 6.19°

Magnetic Field
Strength: 48636.2snT
Dip Angle: 60.05°
Date: 9/3/2010
Model: IGRF200510

WELL DETAILS: Endurance 25 Federal Com #1H
WELL @ 0.0usft (Original Well Elev)

Ground Level: 0.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	381899.43	1345284.76	32° 1' 14.273 N	103° 31' 22.968 W	



PROJECT DETAILS: Wildcat (Lea County, NM)
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico Central 3002
System Datum: Mean Sea Level

SITE DETAILS: Lea County, NM
Site Centre Latitude: 32° 1' 14.273 N
Longitude: 103° 31' 22.968 W
Positional Uncertainty: 0.0
Convergence: 1.45
Local North: Grid

PathFinder Energy Services, Inc.

Survey Report

EOG RESOURCES
ENDURANCE 25 FED COM #1H ST2
LEA COUNTY, NM
Rig:CACTUS 123
PathFinder Office Supervisor: FRANCISCO SINISTERRA
PathFinder Field Engineers: C. WOOSTER
S. ROBERTSON
J. NEWHOUSE

Survey Calculations by RX5 V6.03B using Minimum Curvature

Survey Horiz. Reference:WELLHEAD
Ref Coordinates: LAT:32.1.14.2732 N LON:103.31.22.9679 W
GRID Reference:NAD27 new mexico east Transverse Mercator
Ref GRID Coord: X: 751132.0000 Y: 372173.8000
North Aligned To:GRID NORTH
Total Magnetic Correction: 7.20°EAST TO GRID
Vertical Section Plane: 179.56
Survey Vert. Reference: 30.00' Rotary Table To Ground
Altitude:3360.30' Ground To MSL

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
THE FOLLOWING ARE SCIENTIFIC DRILLING MULTI-SHOT GYRO SURVEYS.										
100.00	0.16	187.00	100.00	0.00	-0.11	0.11 N	0.18 W	0.21@	301.21	0.00
200.00	0.22	118.59	200.00	100.00	0.12	0.12 S	0.02 W	0.13@	190.84	0.22
300.00	0.27	128.66	300.00	100.00	0.37	0.36 S	0.33 E	0.49@	137.86	0.07
400.00	0.26	126.03	399.99	100.00	0.65	0.64 S	0.70 E	0.95@	132.77	0.02
500.00	0.27	96.60	499.99	100.00	0.81	0.80 S	1.11 E	1.37@	125.84	0.13
600.00	0.27	106.68	599.99	100.00	0.91	0.90 S	1.57 E	1.81@	119.75	0.05
700.00	0.30	79.83	699.99	100.00	0.94	0.92 S	2.06 E	2.25@	114.11	0.14
800.00	0.31	95.51	799.99	100.00	0.92	0.90 S	2.58 E	2.74@	109.21	0.08
900.00	0.49	51.01	899.99	100.00	0.68	0.66 S	3.19 E	3.25@	101.66	0.35
1000.00	0.41	44.89	999.98	100.00	0.16	0.13 S	3.77 E	3.77@	92.05	0.09
1100.00	0.63	50.31	1099.98	100.00	-0.44	0.47 N	4.45 E	4.47@	83.97	0.23
1200.00	0.49	44.02	1199.98	100.00	-1.09	1.13 N	5.17 E	5.29@	77.68	0.15
1300.00	0.63	47.24	1299.97	100.00	-1.76	1.81 N	5.87 E	6.14@	72.86	0.14
1400.00	0.51	44.45	1399.97	100.00	-2.45	2.50 N	6.58 E	7.04@	69.20	0.12
1500.00	0.67	59.14	1499.96	100.00	-3.06	3.12 N	7.40 E	8.03@	67.14	0.22
1600.00	0.65	57.51	1599.95	100.00	-3.66	3.72 N	8.38 E	9.17@	66.04	0.03
1700.00	0.45	83.22	1699.95	100.00	-4.00	4.07 N	9.24 E	10.10@	66.22	0.31
1800.00	0.68	123.45	1799.95	100.00	-3.71	3.79 N	10.13 E	10.82@	69.47	0.45
1900.00	1.05	130.67	1899.93	100.00	-2.78	2.87 N	11.32 E	11.68@	75.78	0.38
2000.00	1.24	140.45	1999.91	100.00	-1.34	1.44 N	12.70 E	12.78@	83.55	0.27
2100.00	1.63	163.41	2099.88	100.00	0.87	0.76 S	13.80 E	13.82@	93.15	0.69
2200.00	1.76	173.61	2199.84	100.00	3.76	3.65 S	14.38 E	14.83@	104.24	0.33
2300.00	1.32	192.23	2299.80	100.00	6.41	6.30 S	14.30 E	15.63@	113.78	0.66
2400.00	0.65	247.81	2399.79	100.00	7.74	7.64 S	13.53 E	15.54@	119.45	1.09
2500.00	0.75	326.54	2499.78	100.00	7.41	7.31 S	12.65 E	14.61@	120.03	0.89
2600.00	0.87	6.94	2599.78	100.00	6.10	6.01 S	12.38 E	13.76@	115.90	0.57

SUR: B-25-26s-33e, 330/N & 1850/E
BHL: B-36-26s-33e, 781/N & 1775/E
API # 30-025-39743

PathFinder Energy Services, Inc.

Survey Report

EOG RESOURCES
ENDURANCE 25 FED COM #1H ST2
LEA COUNTY, NM
RIG:CACTUS 123

Page 02/07

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
2700.00	1.23	30.67	2699.76	100.00	4.43	4.33 S	13.02 E	13.72@	108.41	0.56
2800.00	1.43	40.04	2799.73	100.00	2.56	2.45 S	14.37 E	14.58@	99.69	0.30
2900.00	0.36	5.32	2899.72	100.00	1.30	1.19 S	15.20 E	15.25@	94.46	1.15
3000.00	0.18	104.00	2999.72	100.00	1.03	0.91 S	15.38 E	15.41@	93.39	0.43
3100.00	1.20	97.99	3099.71	100.00	1.22	1.10 S	16.57 E	16.61@	93.78	1.02
3200.00	1.89	86.97	3199.67	100.00	1.30	1.15 S	19.25 E	19.29@	93.43	0.75
3300.00	0.95	42.43	3299.64	100.00	0.62	0.45 S	21.46 E	21.47@	91.21	1.38
3400.00	0.55	6.36	3399.64	100.00	-0.46	0.63 N	22.07 E	22.08@	88.35	0.60
3500.00	0.60	5.55	3499.63	100.00	-1.46	1.63 N	22.18 E	22.24@	85.79	0.05
3600.00	0.22	217.15	3599.63	100.00	-1.83	2.00 N	22.11 E	22.20@	84.83	0.80
3700.00	0.69	120.58	3699.63	100.00	-1.37	1.54 N	22.51 E	22.57@	86.08	0.75
3800.00	1.39	88.16	3799.61	100.00	-1.09	1.27 N	24.24 E	24.28@	86.99	0.89
3900.00	1.49	61.38	3899.58	100.00	-1.73	1.94 N	26.60 E	26.67@	85.84	0.67
4000.00	2.34	30.98	3999.52	100.00	-4.09	4.31 N	28.79 E	29.11@	81.49	1.30
4100.00	2.59	24.16	4099.43	100.00	-7.88	8.12 N	30.77 E	31.82@	75.21	0.38
4200.00	2.41	24.78	4199.34	100.00	-11.84	12.09 N	32.57 E	34.74@	69.63	0.18
4300.00	1.21	48.52	4299.29	100.00	-14.44	14.70 N	34.24 E	37.27@	66.77	1.39
4400.00	1.08	72.41	4399.27	100.00	-15.41	15.68 N	35.93 E	39.21@	66.42	0.49
4500.00	2.00	86.34	4499.23	100.00	-15.78	16.08 N	38.57 E	41.79@	67.37	0.99
4600.00	2.43	87.09	4599.16	100.00	-15.97	16.30 N	42.43 E	45.45@	68.99	0.43
4700.00	2.12	84.19	4699.08	100.00	-16.24	16.59 N	46.39 E	49.27@	70.32	0.33
4800.00	1.86	81.04	4799.02	100.00	-16.65	17.03 N	49.83 E	52.66@	71.13	0.28
4900.00	1.04	118.88	4898.99	100.00	-16.45	16.85 N	52.23 E	54.88@	72.12	1.22
5000.00	1.56	194.03	4998.97	100.00	-14.68	15.09 N	52.70 E	54.81@	74.02	1.64
5100.00	1.68	202.23	5098.93	100.00	-12.01	12.41 N	51.81 E	53.28@	76.53	0.26
5200.00	0.91	228.86	5198.90	100.00	-10.14	10.53 N	50.66 E	51.74@	78.26	0.96
5300.00	0.90	243.14	5298.89	100.00	-9.28	9.65 N	49.36 E	50.29@	78.93	0.23
5400.00	1.02	244.04	5398.87	100.00	-8.54	8.91 N	47.86 E	48.68@	79.45	0.12
5500.00	0.87	234.07	5498.86	100.00	-7.72	8.08 N	46.44 E	47.14@	80.14	0.22

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Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
5600.00	0.96	246.77	5598.85	100.00	-6.95	7.30 N	45.06 E	45.65@	80.80	0.22
5700.00	0.99	234.27	5698.83	100.00	-6.13	6.46 N	43.59 E	44.06@	81.56	0.21
5800.00	1.00	212.64	5798.82	100.00	-4.90	5.23 N	42.42 E	42.74@	82.98	0.37
5900.00	1.06	233.54	5898.80	100.00	-3.62	3.94 N	41.20 E	41.39@	84.54	0.38
6000.00	1.17	233.88	5998.78	100.00	-2.48	2.79 N	39.63 E	39.73@	85.97	0.11
6100.00	1.08	234.94	6098.76	100.00	-1.35	1.65 N	38.04 E	38.07@	87.52	0.09
6200.00	1.35	231.58	6198.74	100.00	-0.09	0.37 N	36.34 E	36.34@	89.41	0.28
6300.00	1.34	224.33	6298.71	100.00	1.46	1.20 S	34.60 E	34.62@	91.98	0.17
6400.00	1.31	229.50	6398.69	100.00	3.03	2.77 S	32.92 E	33.03@	94.82	0.12
6500.00	1.34	231.06	6498.66	100.00	4.49	4.25 S	31.14 E	31.43@	97.78	0.05
6600.00	1.42	228.25	6598.63	100.00	6.04	5.81 S	29.30 E	29.87@	101.22	0.10
6700.00	0.96	222.72	6698.61	100.00	7.47	7.25 S	27.81 E	28.74@	104.62	0.47
6800.00	0.83	178.49	6798.60	100.00	8.80	8.59 S	27.26 E	28.58@	107.49	0.68
6900.00	0.75	181.64	6898.59	100.00	10.18	9.97 S	27.26 E	29.03@	110.09	0.09
7000.00	0.86	184.99	6998.58	100.00	11.58	11.37 S	27.18 E	29.46@	112.71	0.12
7100.00	0.84	183.78	7098.57	100.00	13.06	12.85 S	27.06 E	29.96@	115.40	0.03
7200.00	0.92	185.47	7198.56	100.00	14.59	14.38 S	26.94 E	30.54@	118.10	0.08
7300.00	0.52	215.81	7298.55	100.00	15.75	15.55 S	26.60 E	30.81@	120.31	0.54
7400.00	0.36	206.20	7398.55	100.00	16.40	16.20 S	26.19 E	30.80@	121.73	0.18
7500.00	0.40	232.79	7498.54	100.00	16.89	16.69 S	25.78 E	30.71@	122.93	0.18
7600.00	0.57	226.90	7598.54	100.00	17.44	17.24 S	25.14 E	30.48@	124.45	0.18
7700.00	0.62	231.04	7698.54	100.00	18.11	17.92 S	24.35 E	30.24@	126.35	0.07
7800.00	0.77	223.21	7798.53	100.00	18.93	18.75 S	23.47 E	30.04@	128.62	0.18
7900.00	0.88	219.79	7898.52	100.00	20.00	19.83 S	22.52 E	30.01@	131.37	0.12
8000.00	0.99	220.81	7998.50	100.00	21.24	21.08 S	21.46 E	30.08@	134.48	0.11
8100.00	0.98	213.18	8098.49	100.00	22.60	22.45 S	20.43 E	30.35@	137.69	0.13
8200.00	0.86	208.54	8198.48	100.00	23.97	23.82 S	19.60 E	30.85@	140.55	0.14
8300.00	0.95	207.02	8298.46	100.00	25.36	25.22 S	18.87 E	31.50@	143.20	0.09
8400.00	1.04	207.75	8398.45	100.00	26.90	26.76 S	18.07 E	32.29@	145.97	0.09

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8500.00	1.11	201.00	8498.43	100.00	28.60	28.47 S	17.30 E	33.31@	148.71	0.14
8600.00	1.18	194.29	8598.41	100.00	30.50	30.37 S	16.70 E	34.66@	151.20	0.15
8700.00	1.15	194.34	8698.39	100.00	32.46	32.34 S	16.20 E	36.17@	153.40	0.03
8800.00	1.14	196.42	8798.37	100.00	34.39	34.27 S	15.67 E	37.68@	155.43	0.04
8900.00	1.14	197.35	8898.35	100.00	36.28	36.17 S	15.09 E	39.19@	157.36	0.02
** TIED IN TO SCIENTIFIC DRILLING GYRO SURVEY AT 9000' MD.										
9000.00	1.21	201.77	8998.33	100.00	38.21	38.10 S	14.40 E	40.73@	159.30	0.11
ST2 DEPARTS ORIGINAL WELLBORE AT 9002' MD. THE FOLLOWING ARE PATHFINDER MWD SURVEYS.										
9027.00	3.43	178.00	9025.31	27.00	39.28	39.17 S	14.32 E	41.71@	159.92	8.79
9059.00	5.45	176.43	9057.21	32.00	41.76	41.65 S	14.45 E	44.08@	160.86	6.32
9090.00	7.39	176.73	9088.01	31.00	45.22	45.11 S	14.66 E	47.43@	162.00	6.26
9122.00	10.02	178.23	9119.64	32.00	50.06	49.94 S	14.86 E	52.11@	163.43	8.25
9153.00	13.19	182.70	9150.01	31.00	56.29	56.17 S	14.78 E	58.08@	165.26	10.62
9184.00	16.09	185.09	9180.00	31.00	64.09	63.99 S	14.23 E	65.55@	167.46	9.55
9216.00	18.55	185.66	9210.54	32.00	73.57	73.47 S	13.33 E	74.67@	169.71	7.71
9248.00	20.93	185.28	9240.66	32.00	84.32	84.23 S	12.30 E	85.12@	171.69	7.45
9279.00	23.04	184.10	9269.40	31.00	95.88	95.79 S	11.36 E	96.47@	173.24	6.95
9311.00	25.41	182.73	9298.58	32.00	108.98	108.90 S	10.59 E	109.41@	174.45	7.61
9343.00	27.52	182.31	9327.23	32.00	123.22	123.15 S	9.96 E	123.55@	175.38	6.62
9375.00	29.46	181.83	9355.35	32.00	138.47	138.40 S	9.41 E	138.72@	176.11	6.11
9406.00	31.30	180.62	9382.10	31.00	154.14	154.07 S	9.08 E	154.34@	176.63	6.26
9438.00	33.85	179.81	9409.06	32.00	171.36	171.30 S	9.02 E	171.54@	176.99	8.08
9469.00	36.23	179.13	9434.44	31.00	189.16	189.10 S	9.19 E	189.32@	177.22	7.78
9500.00	38.87	179.68	9459.01	31.00	208.05	207.99 S	9.38 E	208.20@	177.42	8.58
9532.00	40.98	179.94	9483.55	32.00	228.59	228.52 S	9.45 E	228.72@	177.63	6.62
9564.00	43.35	179.43	9507.27	32.00	250.07	250.00 S	9.57 E	250.18@	177.81	7.48
9595.00	46.08	179.22	9529.30	31.00	271.88	271.81 S	9.83 E	271.99@	177.93	8.82
9626.00	49.24	179.22	9550.17	31.00	294.79	294.72 S	10.14 E	294.89@	178.03	10.19
9657.00	52.06	178.88	9569.83	31.00	318.75	318.68 S	10.54 E	318.86@	178.11	9.14
9689.00	54.52	179.42	9588.95	32.00	344.41	344.33 S	10.92 E	344.51@	178.18	7.81

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9720.00	57.07	179.97	9606.38	31.00	370.04	369.97 S	11.05 E	370.13@	178.29	8.36
9751.00	59.18	179.96	9622.75	31.00	396.36	396.29 S	11.07 E	396.45@	178.40	6.81
9783.00	61.91	180.15	9638.48	32.00	424.22	424.15 S	11.04 E	424.30@	178.51	8.55
9814.00	64.63	180.01	9652.43	31.00	451.91	451.84 S	11.00 E	451.97@	178.61	8.78
9845.00	66.92	180.00	9665.14	31.00	480.17	480.10 S	11.00 E	480.23@	178.69	7.39
9877.00	69.03	179.70	9677.14	32.00	509.84	509.77 S	11.08 E	509.89@	178.76	6.65
9910.00	71.67	179.29	9688.24	33.00	540.91	540.84 S	11.35 E	540.96@	178.80	8.09
9941.00	72.98	179.05	9697.65	31.00	570.45	570.38 S	11.78 E	570.50@	178.82	4.29
9973.00	74.22	179.05	9706.69	32.00	601.14	601.07 S	12.29 E	601.19@	178.83	3.88
10005.00	75.18	178.94	9715.13	32.00	632.01	631.93 S	12.83 E	632.06@	178.84	3.02
10034.00	77.03	179.30	9722.09	29.00	660.16	660.08 S	13.26 E	660.21@	178.85	6.49
10066.00	80.99	178.92	9728.19	32.00	691.56	691.48 S	13.75 E	691.62@	178.86	12.43
10097.00	84.77	178.99	9732.04	31.00	722.32	722.23 S	14.31 E	722.37@	178.86	12.19
10129.00	87.58	179.21	9734.17	32.00	754.24	754.15 S	14.81 E	754.30@	178.87	8.81
10160.00	90.13	179.32	9734.79	31.00	785.23	785.14 S	15.21 E	785.29@	178.89	8.23
10224.00	91.45	179.80	9733.91	64.00	849.23	849.13 S	15.70 E	849.27@	178.94	2.20
10319.00	91.10	178.95	9731.79	95.00	944.20	944.10 S	16.74 E	944.25@	178.98	0.97
10414.00	90.04	177.52	9730.85	95.00	1039.17	1039.05 S	19.66 E	1039.23@	178.92	1.87
10508.00	90.13	177.75	9730.71	94.00	1133.11	1132.97 S	23.54 E	1133.21@	178.81	0.26
10602.00	90.04	176.37	9730.57	94.00	1227.02	1226.84 S	28.36 E	1227.17@	178.68	1.47
10697.00	89.69	177.58	9730.79	95.00	1321.92	1321.70 S	33.38 E	1322.13@	178.55	1.33
10793.00	89.96	177.80	9731.09	96.00	1417.87	1417.63 S	37.25 E	1418.12@	178.49	0.36
10887.00	89.96	178.27	9731.15	94.00	1511.84	1511.57 S	40.47 E	1512.11@	178.47	0.50
10983.00	89.78	178.45	9731.37	96.00	1607.82	1607.53 S	43.22 E	1608.11@	178.46	0.27
11079.00	89.60	178.79	9731.89	96.00	1703.80	1703.50 S	45.53 E	1704.11@	178.47	0.40
11175.00	89.69	179.29	9732.48	96.00	1799.79	1799.49 S	47.14 E	1800.10@	178.50	0.53
11271.00	89.60	180.73	9733.08	96.00	1895.79	1895.48 S	47.12 E	1896.07@	178.58	1.50
11367.00	89.08	181.00	9734.18	96.00	1991.76	1991.46 S	45.67 E	1991.99@	178.69	0.61
11462.00	88.02	180.87	9736.59	95.00	2086.70	2086.42 S	44.12 E	2086.89@	178.79	1.12

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11558.00	86.88	181.05	9740.86	96.00	2182.57	2182.31 S	42.52 E	2182.72@	178.88	1.20
11653.00	86.79	181.85	9746.11	95.00	2277.37	2277.13 S	40.12 E	2277.49@	178.99	0.85
11748.00	88.81	180.53	9749.75	95.00	2372.26	2372.04 S	38.14 E	2372.34@	179.08	2.54
11844.00	89.16	179.84	9751.45	96.00	2468.24	2468.02 S	37.84 E	2468.31@	179.12	0.81
11939.00	89.08	180.02	9752.91	95.00	2563.22	2563.01 S	37.95 E	2563.29@	179.15	0.21
12035.00	89.52	181.30	9754.08	96.00	2659.20	2658.99 S	36.85 E	2659.25@	179.21	1.41
12130.00	88.46	181.32	9755.76	95.00	2754.14	2753.95 S	34.67 E	2754.17@	179.28	1.12
12226.00	87.76	178.23	9758.93	96.00	2850.07	2849.89 S	35.05 E	2850.10@	179.30	3.30
12264.00	88.90	177.44	9760.03	38.00	2888.04	2887.84 S	36.49 E	2888.07@	179.28	3.65
12360.00	89.69	177.90	9761.21	96.00	2983.98	2983.75 S	40.39 E	2984.03@	179.22	0.95
12456.00	90.40	178.53	9761.14	96.00	3079.95	3079.71 S	43.38 E	3080.01@	179.19	0.99
12552.00	89.78	178.70	9760.99	96.00	3175.94	3175.68 S	45.70 E	3176.01@	179.18	0.67
12648.00	90.48	179.18	9760.77	96.00	3271.93	3271.66 S	47.47 E	3272.00@	179.17	0.88
12742.00	90.04	179.24	9760.34	94.00	3365.93	3365.65 S	48.77 E	3366.00@	179.17	0.47
12838.00	89.08	178.52	9761.08	96.00	3461.91	3461.63 S	50.65 E	3462.00@	179.16	1.25
12934.00	88.72	177.40	9762.92	96.00	3557.86	3557.55 S	54.06 E	3557.96@	179.13	1.23
13029.00	87.93	175.77	9765.70	95.00	3652.69	3652.33 S	59.72 E	3652.82@	179.06	1.91
13125.00	87.23	176.38	9769.75	96.00	3748.42	3748.02 S	66.28 E	3748.61@	178.99	0.97
13220.00	89.78	176.36	9772.23	95.00	3843.23	3842.79 S	72.30 E	3843.47@	178.92	2.68
13315.00	89.78	175.93	9772.60	95.00	3938.06	3937.58 S	78.68 E	3938.36@	178.86	0.45
13411.00	90.66	177.82	9772.23	96.00	4033.95	4033.43 S	83.92 E	4034.30@	178.81	2.17
13507.00	90.66	180.59	9771.12	96.00	4129.94	4129.40 S	85.25 E	4130.28@	178.82	2.89
13603.00	90.40	180.64	9770.23	96.00	4225.91	4225.39 S	84.22 E	4226.23@	178.86	0.28
13699.00	90.31	179.83	9769.64	96.00	4321.91	4321.39 S	83.82 E	4322.20@	178.89	0.85
13794.00	91.28	179.95	9768.32	95.00	4416.89	4416.38 S	84.01 E	4417.18@	178.91	1.03
13890.00	90.22	180.91	9767.07	96.00	4512.87	4512.36 S	83.29 E	4513.13@	178.94	1.49
13986.00	90.22	181.96	9766.70	96.00	4608.82	4608.33 S	80.88 E	4609.04@	178.99	1.09
14082.00	90.40	182.52	9766.18	96.00	4704.71	4704.26 S	77.13 E	4704.89@	179.06	0.61
14177.00	90.66	181.70	9765.30	95.00	4799.61	4799.19 S	73.63 E	4799.75@	179.12	0.90

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14273.00	90.57	181.62	9764.27	96.00	4895.54	4895.14 S	70.85 E	4895.65@	179.17	0.13
14369.00	90.04	181.60	9763.76	96.00	4991.48	4991.10 S	68.15 E	4991.57@	179.22	0.55
14465.00	91.01	181.01	9762.88	96.00	5087.43	5087.07 S	65.97 E	5087.50@	179.26	1.18
14560.00	89.60	179.63	9762.37	95.00	5182.42	5182.07 S	65.44 E	5182.48@	179.28	2.08
14656.00	90.84	178.91	9762.00	96.00	5278.41	5278.05 S	66.66 E	5278.48@	179.28	1.49
14752.00	90.57	178.35	9760.82	96.00	5374.39	5374.02 S	68.96 E	5374.46@	179.26	0.65
14848.00	90.66	178.56	9759.79	96.00	5470.37	5469.98 S	71.54 E	5470.45@	179.25	0.24
14944.00	90.04	179.08	9759.21	96.00	5566.36	5565.96 S	73.52 E	5566.44@	179.24	0.84
15039.00	90.22	179.54	9758.99	95.00	5661.35	5660.95 S	74.67 E	5661.44@	179.24	0.52
15082.00	87.58	179.72	9759.81	43.00	5704.34	5703.94 S	74.94 E	5704.43@	179.25	6.15
15087.00	86.44	179.39	9760.08	5.00	5709.34	5708.93 S	74.98 E	5709.42@	179.25	23.73
15092.00	85.91	179.23	9760.41	5.00	5714.32	5713.92 S	75.04 E	5714.41@	179.25	11.07
15097.00	85.91	178.70	9760.77	5.00	5719.31	5718.90 S	75.13 E	5719.40@	179.25	10.57
STRAIGHT LINE PROJECTION TO BIT DEPTH @ 15109' MD.										
15109.00	85.91	178.70	9761.62	12.00	5731.28	5730.87 S	75.40 E	5731.37@	179.25	0.00

** The survey data at tie-in point was furnished by a recognized survey company and entered as submitted. Survey stations above the tie-in point represent recalculated data by PathFinder Energy Services, Inc. and may reflect minor changes due to rounding differences between survey programs. Only survey stations taken by qualified PathFinder personnel are subject to certification.