

Results of Directional Survey

API number:	30-025-40927		
OGRID:		Operator:	EOG RESOURCES INC
		Property:	DRAGON 36 STATE # 5H

surface

ULSTR:	O	36	T 24S	R 33E
			220 FSL	1995 FEL

BH Loc

ULSTR:	B	36	T 24S	R 33E
14262 MD	9426.4	TVD	234 FNL	1932 FEL
			5046 FSL	

Top Perf/OH

ULSTR:	O	36	T 24S	R 33E
9623 MD	9454.1	TVD	413 FSL	1907 FEL

Bot Perf/OH

ULSTR:	B	36	T 24S	R 33E
14148 MD	9424.6	TVD	348 FNL	1926 FEL
			4932 FSL	

	MD	N/S	E/W	VD
	9607	177.70	88.74	9449.98
TOP PERFS/OH	9623	193.16	88.38	9454.08
	9639	208.62	88.01	9458.18
	14055	4619.50	72.05	9424.31
BOT PERFS/OH	14148	4712.45	69.29	9424.63
	14150	4714.45	69.23	9424.64

NEXT TO LAST	14202	4766.37	66.51	9425.60
LAST READING	14262	4826.28	63.27	9426.43
TD	14262	4826.28	63.27	9426.43

Surface Location	220	FS	1995	FE
Projected BHL	5046	FS	1932	FE
Location of				
Top Perfs/OH	413	FS	1907	FE
Bottom Perfs/OH	4932	FS	1926	FE

SUMMARY of Subsurface Locations

Surface Location	O-36-24S-33E	220	FS	1995	FE	Vert. Depth
Top Perfs/OH	O-36-24S-33E	413	FS	1907	FE	9454.08
Bottom Perfs/OH	B-36-24S-33E	4932	FS	1926	FE	9424.63
Projected TD	B-36-24S-33E	5046	FS	1932	FE	9426.43

AUG 19 201



EOG Resources

Lea County, NM (NAD27 NME)

Dragon 36 State

#5H

Wellbore #1 Job #1410346

Survey: Phoenix MWD Surveys

Survey Report

31 March, 2014

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Phoenix Technology Services

Survey Report



Company:	EOG Resources	Local Co-ordinate Reference:	Well #5H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	WELL @ 3498.00usft (Patterson 452)
Site:	Dragon 36 State	MD Reference:	WELL @ 3498.00usft (Patterson 452)
Well:	#5H	North Reference:	Grid
Wellbore:	Wellbore #1 Job #1410346	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Patterson 452)	Database:	Compass 5000 GCR DB

Project	Lea County, NM (NAD27 NME)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Dragon 36 State		
Site Position:		Northing:	425,522.00 usft
From:	Map	Easting:	750,598.00 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 10' 2.22516 N
		Longitude:	103° 31' 24.51649 W
		Grid Convergence:	0.43 °

Well	#5H		
Well Position	+N-S	0.00 usft	Northing: 425,522.00 usft
	+E-W	0.00 usft	Easting: 750,598.00 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
		Latitude:	32° 10' 2.22516 N
		Longitude:	103° 31' 24.51649 W
		Ground Level:	3,471.00 usft

Wellbore	Wellbore #1 Job #1410346				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010_14	03/05/14	7.22	60.07	48,315

Design	Surveys (Patterson 452)			
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 0.00
Vertical Section:	Depth From (TVD) (usft)	+N-S (usft)	+E-W (usft)	Direction (°)
	0.00	0.00	0.00	0.83

Survey Program	Date	03/31/14		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
191.00	14,262.00	Phoenix MWD Surveys (Wellbore #1 Job #	MWD	MWD - Standard



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Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
0.00	0.00	0.00	-3,498.00	0.00	0.00	0.00	0.00	0.00	425,522.00	750,598.00	
191.00	0.90	196.30	-3,307.01	190.99	-1.44	-0.42	-1.45	0.47	425,520.56	750,597.58	
First Phoenix MWD Survey											
252.00	1.10	206.50	-3,246.02	251.98	-2.42	-0.82	-2.44	0.44	425,519.58	750,597.18	
313.00	1.10	205.70	-3,185.03	312.97	-3.48	-1.33	-3.49	0.03	425,518.52	750,596.67	
372.00	1.20	201.10	-3,126.04	371.96	-4.56	-1.80	-4.59	0.23	425,517.44	750,596.20	
433.00	1.30	202.40	-3,065.05	432.95	-5.80	-2.29	-5.83	0.17	425,516.20	750,595.71	
528.00	1.40	201.50	-2,970.08	527.92	-7.87	-3.13	-7.92	0.11	425,514.13	750,594.87	
620.00	0.60	189.90	-2,878.10	619.90	-9.39	-3.62	-9.45	0.89	425,512.61	750,594.38	
712.00	0.60	200.80	-2,786.10	711.90	-10.32	-3.88	-10.37	0.12	425,511.68	750,594.12	
804.00	0.30	31.00	-2,694.10	803.90	-10.56	-3.93	-10.62	0.97	425,511.44	750,594.07	
897.00	0.40	28.10	-2,601.10	896.90	-10.07	-3.65	-10.12	0.11	425,511.93	750,594.35	
989.00	0.30	357.20	-2,509.11	988.89	-9.54	-3.51	-9.59	0.23	425,512.46	750,594.49	
1,081.00	0.40	46.30	-2,417.11	1,080.89	-9.08	-3.29	-9.13	0.33	425,512.92	750,594.71	
1,173.00	0.50	31.80	-2,325.11	1,172.89	-8.52	-2.84	-8.56	0.16	425,513.48	750,595.16	
1,197.00	0.40	53.60	-2,301.11	1,196.89	-8.38	-2.72	-8.42	0.82	425,513.62	750,595.28	
1,364.00	0.60	33.90	-2,134.12	1,363.88	-7.31	-1.76	-7.33	0.16	425,514.69	750,596.24	
1,554.00	0.70	140.40	-1,944.12	1,553.88	-7.38	-0.47	-7.38	0.55	425,514.62	750,597.53	
1,745.00	0.70	147.90	-1,753.14	1,744.86	-9.26	0.89	-9.25	0.05	425,512.74	750,598.89	
1,936.00	2.70	168.40	-1,562.23	1,935.77	-14.66	2.42	-14.62	1.08	425,507.34	750,600.42	
2,125.00	1.80	106.70	-1,373.35	2,124.65	-19.87	6.16	-19.78	1.29	425,502.13	750,604.16	
2,316.00	1.40	129.70	-1,182.43	2,315.57	-22.23	10.83	-22.07	0.39	425,499.77	750,608.83	
2,507.00	1.50	139.80	-991.49	2,506.51	-25.63	14.24	-25.42	0.14	425,496.37	750,612.24	
2,697.00	1.30	134.30	-801.54	2,696.46	-29.03	17.38	-28.78	0.13	425,492.97	750,615.38	
2,887.00	1.10	131.20	-611.59	2,886.41	-31.74	20.30	-31.44	0.11	425,490.26	750,618.30	
3,078.00	1.10	114.10	-420.62	3,077.38	-33.69	23.35	-33.35	0.17	425,488.31	750,621.35	
3,269.00	1.20	98.50	-229.66	3,268.34	-34.74	27.00	-34.34	0.17	425,487.26	750,625.00	



Phoenix Technology Services
Survey Report



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Project:	Lea County, NM (NAD27 NME)	TVD Reference:	WELL @ 3498.00usft (Patterson 452)
Site:	Dragon 36 State	MD Reference:	WELL @ 3498.00usft (Patterson 452)
Well:	#5H	North Reference:	Grid
Wellbore:	Wellbore #1 Job #1410346	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Patterson 452)	Database:	Compass 5000 GCR DB

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
3,460.00	1.70	109.60	-38.72	3,459.28	-35.98	31.65	-35.52	0.30	425,486.02	750,629.65
3,651.00	2.60	152.10	152.15	3,650.15	-40.76	36.35	-40.23	0.93	425,481.24	750,634.35
3,842.00	1.90	147.20	343.01	3,841.01	-47.25	40.09	-46.67	0.38	425,474.75	750,638.09
4,033.00	1.60	147.90	533.92	4,031.92	-52.17	43.22	-51.54	0.16	425,469.83	750,641.22
4,224.00	1.10	155.00	724.86	4,222.86	-56.09	45.41	-55.43	0.28	425,465.91	750,643.41
4,414.00	1.60	155.80	914.81	4,412.81	-60.17	47.27	-59.48	0.26	425,461.83	750,645.27
4,605.00	1.90	137.00	1,105.72	4,603.72	-64.91	50.52	-64.18	0.34	425,457.09	750,648.52
4,796.00	1.80	158.30	1,296.63	4,794.63	-70.02	53.79	-69.23	0.36	425,451.98	750,651.79
4,987.00	2.10	146.70	1,487.52	4,985.52	-75.73	56.82	-74.90	0.26	425,446.27	750,654.82
5,069.00	1.50	148.60	1,569.47	5,067.47	-77.90	58.21	-77.05	0.74	425,444.10	750,656.21
5,260.00	1.40	144.30	1,760.41	5,258.41	-81.93	60.87	-81.04	0.08	425,440.07	750,658.87
5,451.00	1.50	152.20	1,951.35	5,449.35	-86.04	63.40	-85.11	0.12	425,435.96	750,661.40
5,642.00	1.60	147.20	2,142.28	5,640.28	-90.49	66.01	-89.52	0.09	425,431.51	750,664.01
5,833.00	1.40	149.60	2,333.22	5,831.22	-94.74	68.63	-93.74	0.11	425,427.26	750,666.63
6,023.00	1.10	157.30	2,523.17	6,021.17	-98.43	70.51	-97.40	0.18	425,423.57	750,668.51
6,214.00	1.30	184.90	2,714.13	6,212.13	-102.28	71.03	-101.24	0.32	425,419.72	750,669.03
6,405.00	2.20	171.00	2,905.04	6,403.04	-108.06	71.42	-107.01	0.52	425,413.94	750,669.42
6,596.00	2.50	154.70	3,095.88	6,593.88	-115.44	73.78	-114.36	0.38	425,406.56	750,671.78
6,787.00	2.50	151.30	3,286.70	6,784.70	-122.86	77.56	-121.73	0.08	425,399.14	750,675.56
6,977.00	2.60	151.70	3,476.51	6,974.51	-130.29	81.59	-129.10	0.05	425,391.71	750,679.59
7,167.00	1.60	130.80	3,666.38	7,164.38	-135.82	85.64	-134.57	0.65	425,386.18	750,683.64
7,358.00	1.70	123.90	3,857.31	7,355.31	-139.14	90.01	-137.83	0.12	425,382.86	750,688.01
7,548.00	1.60	129.70	4,047.23	7,545.23	-142.41	94.39	-141.03	0.10	425,379.59	750,692.39
7,737.00	1.40	126.80	4,236.16	7,734.16	-145.48	98.27	-144.04	0.11	425,376.52	750,696.27
7,928.00	1.50	173.20	4,427.11	7,925.11	-149.36	100.43	-147.89	0.60	425,372.64	750,698.43
8,119.00	1.40	170.10	4,618.05	8,116.05	-154.14	101.13	-152.66	0.07	425,367.86	750,699.13
8,310.00	1.40	156.60	4,808.99	8,306.99	-158.58	102.46	-157.08	0.17	425,363.42	750,700.46



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Well:	#5H	North Reference:	Grid
Wellbore:	Wellbore #1 Job #1410346	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Patterson 452)	Database:	Compass 5000 GCR DB

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
8,501.00	1.20	148.90	4,999.94	8,497.94	-162.43	104.42	-160.90	0.14	425,359.57	750,702.42
8,692.00	1.20	141.30	5,190.90	8,688.90	-165.71	106.70	-164.14	0.08	425,356.29	750,704.70
8,882.00	1.20	132.20	5,380.86	8,878.86	-168.60	109.42	-166.99	0.10	425,353.40	750,707.42
8,939.00	0.80	125.10	5,437.85	8,935.85	-169.23	110.19	-167.61	0.73	425,352.77	750,708.19
8,971.00	2.90	356.90	5,469.84	8,967.84	-168.55	110.33	-166.93	10.79	425,353.45	750,708.33
9,003.00	6.80	1.40	5,501.72	8,999.72	-165.84	110.33	-164.23	12.24	425,356.16	750,708.33
9,034.00	8.90	4.30	5,532.42	9,030.42	-161.62	110.55	-160.00	6.89	425,360.38	750,708.55
9,066.00	12.70	7.40	5,563.85	9,061.85	-155.66	111.19	-154.03	12.01	425,366.34	750,709.19
9,098.00	15.90	6.10	5,594.86	9,092.86	-147.81	112.11	-146.17	10.05	425,374.19	750,710.11
9,130.00	18.10	4.90	5,625.46	9,123.46	-138.50	113.00	-136.84	6.96	425,383.50	750,711.00
9,161.00	19.30	7.10	5,654.82	9,152.82	-128.61	114.05	-126.95	4.49	425,393.39	750,712.05
9,193.00	22.60	3.50	5,684.70	9,182.70	-117.23	115.08	-115.55	11.06	425,404.77	750,713.08
9,225.00	26.70	2.10	5,713.78	9,211.78	-103.90	115.72	-102.21	12.94	425,418.10	750,713.72
9,257.00	30.10	357.80	5,741.93	9,239.93	-88.69	115.67	-87.00	12.39	425,433.31	750,713.67
9,288.00	33.50	352.70	5,768.27	9,266.27	-72.43	114.29	-70.76	13.97	425,449.57	750,712.29
9,320.00	36.90	354.40	5,794.42	9,292.42	-54.10	112.23	-52.47	11.06	425,467.90	750,710.23
9,352.00	40.70	355.50	5,819.35	9,317.35	-34.13	110.47	-32.53	12.07	425,487.87	750,708.47
9,384.00	44.80	355.80	5,842.85	9,340.85	-12.48	108.82	-10.90	12.83	425,509.52	750,706.82
9,416.00	49.10	354.40	5,864.69	9,362.69	10.81	106.82	12.36	13.81	425,532.81	750,704.82
9,448.00	53.60	353.80	5,884.67	9,382.67	35.67	104.24	37.17	14.14	425,557.67	750,702.24
9,480.00	57.80	352.40	5,902.70	9,400.70	61.90	101.06	63.36	13.61	425,583.90	750,699.06
9,511.00	62.20	352.80	5,918.19	9,416.19	88.52	97.61	89.92	14.24	425,610.52	750,695.61
9,543.00	67.50	352.90	5,931.79	9,429.79	117.25	94.00	118.60	16.56	425,639.25	750,692.00
9,575.00	72.40	355.00	5,942.76	9,440.76	147.13	90.84	148.43	16.51	425,669.13	750,688.84
9,607.00	74.10	357.10	5,951.98	9,449.98	177.70	88.74	178.97	8.23	425,699.70	750,686.74
9,639.00	76.20	0.20	5,960.18	9,458.18	208.62	88.01	209.87	11.43	425,730.62	750,686.01
9,670.00	79.10	3.30	5,966.81	9,464.81	238.88	88.94	240.14	13.52	425,760.88	750,686.94



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9,697.00	81.50	2.80	5,971.36	9,469.36	265.45	90.36	266.73	9.07	425,787.45	750,688.36
9,729.00	85.10	1.70	5,975.10	9,473.10	297.20	91.60	298.50	11.76	425,819.20	750,689.60
9,760.00	86.00	1.40	5,977.50	9,475.50	328.10	92.44	329.40	3.06	425,850.10	750,690.44
9,856.00	89.90	0.50	5,980.93	9,478.93	424.00	94.03	425.32	4.17	425,946.00	750,692.03
9,951.00	91.40	2.70	5,979.86	9,477.86	518.95	96.68	520.30	2.80	426,040.95	750,694.68
10,047.00	91.70	3.90	5,977.26	9,475.26	614.75	102.20	616.17	1.29	426,136.75	750,700.20
10,142.00	90.20	3.80	5,975.68	9,473.68	709.52	108.58	711.02	1.58	426,231.52	750,706.58
10,238.00	90.20	3.50	5,975.35	9,473.35	805.33	114.69	806.91	0.31	426,327.33	750,712.69
10,333.00	90.30	3.40	5,974.94	9,472.94	900.16	120.41	901.81	0.15	426,422.16	750,718.41
10,428.00	89.10	2.40	5,975.43	9,473.43	995.03	125.22	996.74	1.64	426,517.03	750,723.22
10,524.00	88.60	0.60	5,977.36	9,475.36	1,090.97	127.73	1,092.71	1.95	426,612.97	750,725.73
10,619.00	89.20	358.40	5,979.18	9,477.18	1,185.95	128.90	1,187.66	2.40	426,707.95	750,724.90
10,715.00	89.20	358.70	5,980.52	9,478.52	1,281.91	124.47	1,283.57	0.31	426,803.91	750,722.47
10,810.00	89.50	357.40	5,981.60	9,479.60	1,376.84	121.24	1,378.45	1.40	426,898.84	750,719.24
10,906.00	91.40	356.10	5,980.85	9,478.85	1,472.68	115.80	1,474.20	2.40	426,994.68	750,713.80
11,001.00	91.90	356.20	5,978.11	9,476.11	1,567.43	109.42	1,568.85	0.54	427,089.43	750,707.42
11,097.00	93.10	357.90	5,973.92	9,471.92	1,663.20	104.48	1,664.54	2.17	427,185.20	750,702.48
11,192.00	91.00	358.40	5,970.53	9,468.53	1,758.09	101.42	1,759.37	2.27	427,280.09	750,699.42
11,287.00	90.30	357.90	5,969.45	9,467.45	1,853.03	98.35	1,854.26	0.91	427,375.03	750,696.35
11,383.00	89.70	357.90	5,969.45	9,467.45	1,948.96	94.84	1,950.13	0.62	427,470.96	750,692.84
11,478.00	90.20	357.30	5,969.53	9,467.53	2,043.88	90.86	2,044.98	0.82	427,565.88	750,688.86
11,574.00	89.90	358.00	5,969.45	9,467.45	2,139.80	86.92	2,140.83	0.79	427,661.80	750,684.92
11,669.00	89.50	356.30	5,969.95	9,467.95	2,234.68	82.20	2,235.63	1.84	427,756.68	750,680.20
11,764.00	90.30	356.70	5,970.11	9,468.11	2,329.50	76.40	2,330.36	0.94	427,851.50	750,674.40
11,860.00	91.70	357.80	5,968.44	9,466.44	2,425.37	71.79	2,426.15	1.85	427,947.37	750,669.79
11,955.00	91.10	358.60	5,966.11	9,464.11	2,520.29	68.81	2,521.02	1.05	428,042.29	750,666.81
12,051.00	91.70	0.00	5,963.77	9,461.77	2,616.25	67.64	2,616.96	1.59	428,138.25	750,665.64



Phoenix Technology Services

Survey Report



Company:	EOG Resources	Local Co-ordinate Reference:	Well #5H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	WELL @ 3498.00usft (Patterson 452)
Site:	Dragon 36 State	MD Reference:	WELL @ 3498.00usft (Patterson 452)
Well:	#5H	North Reference:	Grid
Wellbore:	Wellbore #1 Job #1410346	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Patterson 452)	Database:	Compass 5000 GCR DB

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
12,146.00	91.40	0.10	5,961.20	9,459.20	2,711.22	67.72	2,711.92	0.33	428,233.22	750,665.72
12,242.00	91.20	0.30	5,959.02	9,457.02	2,807.19	68.05	2,807.88	0.29	428,329.19	750,666.05
12,337.00	91.20	0.40	5,957.03	9,455.03	2,902.17	68.64	2,902.86	0.11	428,424.17	750,666.64
12,433.00	92.50	359.80	5,953.93	9,451.93	2,998.12	68.80	2,998.80	1.49	428,520.12	750,666.80
12,528.00	92.20	359.80	5,950.04	9,448.04	3,093.04	68.47	3,093.70	0.32	428,615.04	750,666.47
12,623.00	91.90	0.00	5,946.64	9,444.64	3,187.98	68.31	3,188.63	0.38	428,709.98	750,666.31
12,719.00	92.10	0.00	5,943.29	9,441.29	3,283.92	68.31	3,284.56	0.21	428,805.92	750,666.31
12,814.00	91.90	0.80	5,939.97	9,437.97	3,378.86	68.97	3,379.50	0.87	428,900.86	750,666.97
12,910.00	91.40	0.50	5,937.21	9,435.21	3,474.81	70.06	3,475.46	0.61	428,996.81	750,668.06
13,005.00	91.00	0.30	5,935.22	9,433.22	3,569.79	70.72	3,570.44	0.47	429,091.79	750,668.72
13,100.00	91.90	0.40	5,932.82	9,430.82	3,664.75	71.30	3,665.40	0.95	429,186.75	750,669.30
13,196.00	92.10	1.30	5,929.47	9,427.47	3,760.68	72.72	3,761.34	0.96	429,282.68	750,670.72
13,291.00	91.40	1.10	5,926.56	9,424.56	3,855.62	74.71	3,856.30	0.77	429,377.62	750,672.71
13,387.00	91.30	1.20	5,924.30	9,422.30	3,951.57	76.64	3,952.27	0.15	429,473.57	750,674.64
13,482.00	89.50	359.90	5,923.64	9,421.64	4,046.56	77.55	4,047.26	2.34	429,568.56	750,675.55
13,578.00	89.40	359.70	5,924.56	9,422.56	4,142.55	77.21	4,143.24	0.23	429,664.55	750,675.21
13,673.00	90.30	358.90	5,924.81	9,422.81	4,237.55	76.05	4,238.20	1.27	429,759.55	750,674.05
13,769.00	89.80	359.80	5,924.73	9,422.73	4,333.54	74.97	4,334.17	1.07	429,855.54	750,672.97
13,864.00	88.90	359.40	5,925.80	9,423.80	4,428.53	74.30	4,429.14	1.04	429,950.53	750,672.30
13,960.00	89.80	359.20	5,926.89	9,424.89	4,524.51	73.13	4,525.10	0.96	430,046.51	750,671.13
14,055.00	90.90	359.50	5,926.31	9,424.31	4,619.50	72.05	4,620.06	1.20	430,141.50	750,670.05
14,150.00	88.70	357.10	5,926.64	9,424.64	4,714.45	69.23	4,714.96	3.43	430,236.45	750,667.23
14,202.00	89.20	356.90	5,927.60	9,425.60	4,766.37	66.51	4,766.83	1.04	430,288.37	750,664.51
Final Phoenix MWD Survey										
14,262.00	89.20	356.90	5,928.43	9,426.43	4,826.28	63.27	4,826.69	0.00	430,348.28	750,661.27
Projection to TD										



Phoenix Technology Services
Survey Report



Company: EOG Resources
Project: Lea County, NM (NAD27 NME)
Site: Dragon 36 State
Well: #5H
Wellbore: Wellbore #1 Job #1410346
Design: Surveys (Patterson 452)

Local Co-ordinate Reference: Well #5H
TVD Reference: WELL @ 3498.00usft (Patterson 452)
MD Reference: WELL @ 3498.00usft (Patterson 452)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Compass 5000 GCR DB

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
191.00	190.99	-1.44	-0.42	First Phoenix MWD Survey
14,202.00	9,425.60	4,766.37	66.51	Final Phoenix MWD Survey
14,262.00	9,426.43	4,826.28	63.27	Projection to TD

Checked By: _____ Approved By: _____ Date: _____

