

EOG Resources

Lea County, NM (Nad27)
Caballo 23 Federal
Caballo 23 Fed. 5H
Wellbore #1

HOBBS OCD

DEC 12 2011

Survey: Phoenix MWD Surveys

RECEIVED

EOG Resources

02 December, 2011



DEC 15 2011

Phoenix Technology Services
EOG Resources



Company: EOG Resources Project: Lea County, NM (Nad27) Site: Caballo 23 Federal Well: Caballo 23 Fed. 5H Wellbore: Wellbore #1 Design: Wellbore #1		Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Database:		Well Caballo 23 Fed 5H WELL @ 3373.99usft (Original Well Elev + 30' KB Cact WELL @ 3373.99usft (Original Well Elev + 30' KB Cact Gnd Minimum Curvature GCR DB v5000												
Project Lea County, NM (Nad27)																
Map System: US State Plane 1927 (Exact solution) Geo Datum: NAD 1927 (NADCON CONUS) Map Zone: New Mexico East 3001		System Datum: Mean Sea Level														
Site Caballo 23 Federal																
Site Position: From: Map Position Uncertainty: 0.00 usft		Northing: 409,417.30 usft Easting: 746,110.10 usft Slot Radius: 13-3/16 " Latitude: 32° 7' 23.191 N Longitude: 103° 32' 18.108 W Grid Convergence: 0.42 °														
Well Caballo 23 Fed. 5H																
Well Position +N/-S 0.00 usft +E/-W 0.00 usft Position Uncertainty 0.00 usft		Northing: 409,379.30 usft Easting: 743,433.50 usft Wellhead Elevation: usft Latitude: 32° 7' 23.010 N Longitude: 103° 32' 49.234 W Ground Level: 3,343.99 usft														
Wellbore Wellbore #1																
<table border="1"> <thead> <tr> <th>Magnetics</th> <th>Model Name</th> <th>Sample Date</th> <th>Declination (°)</th> <th>Dip Angle (°)</th> <th>Field Strength (nT)</th> </tr> </thead> <tbody> <tr> <td></td> <td>IGRF2010_14</td> <td>09/08/11</td> <td>7.54</td> <td>60.09</td> <td>48,535</td> </tr> </tbody> </table>					Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)		IGRF2010_14	09/08/11	7.54	60.09	48,535
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)											
	IGRF2010_14	09/08/11	7.54	60.09	48,535											
Design Wellbore #1																
Audit Notes: Version: 1.0 Phase: ACTUAL Tie On Depth: 0.00																
Vertical Section: <table border="1"> <thead> <tr> <th>Depth From (TVD) (usft)</th> <th>+N/-S (usft)</th> <th>+E/-W (usft)</th> <th>Direction (°)</th> </tr> </thead> <tbody> <tr> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td>179.40</td> </tr> </tbody> </table>					Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	0.00	0.00	0.00	179.40				
Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)													
0.00	0.00	0.00	179.40													
Survey Program Date 12/02/11																
<table border="1"> <thead> <tr> <th>From (usft)</th> <th>To (usft)</th> <th>Survey (Wellbore)</th> <th>Tool Name</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1,143.00</td> <td>14,025.00</td> <td>Phoenix MWD Surveys (Wellbore #1)</td> <td>MWD</td> <td>MWD - Standard</td> </tr> </tbody> </table>					From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	1,143.00	14,025.00	Phoenix MWD Surveys (Wellbore #1)	MWD	MWD - Standard		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description												
1,143.00	14,025.00	Phoenix MWD Surveys (Wellbore #1)	MWD	MWD - Standard												

Phoenix Technology Services
EOG Resources



Company:	EOG Resources	Local Co-ordinate Reference:	Well Caballo 23 Fed. 5H
Project:	Lea County, NM (Nad27)	TVD Reference:	WELL @ 3373.99usft (Original Well Elev + 30' KB Cacti
Site:	Caballo 23 Federal	MD Reference:	WELL @ 3373.99usft (Original Well Elev + 30' KB Cacti
Well:	Caballo 23 Fed. 5H	North Reference:	Gnd
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	GCR DB v5000

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)
1,100.00	0.38	240.41	-2,274.02	1,099.98	-4.46	-5.20	4.41	0.00	409,374.84	743,428.30
Tie In From Gyros @ 1100' MD										
1,143.00	0.50	274.52	-2,231.02	1,142.98	-4.52	-5.51	4.46	0.66	409,374.78	743,427.99
First Phoenix MWD Survey @ 1143' MD										
1,245.00	0.60	265.60	-2,129.02	1,244.97	-4.53	-6.49	4.46	0.13	409,374.77	743,427.01
1,429.00	0.60	300.10	-1,945.03	1,428.96	-4.12	-8.28	4.03	0.19	409,375.18	743,425.22
1,613.00	0.50	310.80	-1,761.04	1,612.95	-3.11	-9.72	3.01	0.08	409,376.19	743,423.78
1,804.00	0.90	305.70	-1,570.06	1,803.94	-1.69	-11.57	1.57	0.21	409,377.61	743,421.93
1,995.00	1.30	313.20	-1,379.09	1,994.90	0.67	-14.37	-0.82	0.22	409,379.97	743,419.13
2,186.00	1.80	326.00	-1,188.16	2,185.83	4.64	-17.63	-4.82	0.32	409,383.94	743,415.87
2,377.00	1.40	338.10	-997.23	2,376.76	9.29	-20.17	-9.50	0.27	409,388.59	743,413.33
2,567.00	1.90	330	-807.31	2,566.68	14.59	-20.86	-14.81	0.46	409,393.89	743,412.64
2,758.00	1.30	40.30	-616.38	2,757.61	19.40	-19.28	-19.60	0.61	409,398.70	743,414.22
2,949.00	0.70	73.70	-425.41	2,948.58	21.38	-16.75	-21.56	0.43	409,400.68	743,416.75
3,139.00	1.30	84.00	-235.44	3,138.55	21.93	-13.50	-22.07	0.33	409,401.23	743,420.00
3,330.00	1.40	109.90	-44.49	3,329.50	21.37	-9.15	-21.46	0.32	409,400.67	743,424.35
3,520.00	1.10	166.50	145.47	3,519.46	18.80	-6.54	-18.87	0.64	409,398.10	743,426.96
3,711.00	1.30	209.80	336.43	3,710.42	15.14	-7.19	-15.21	0.47	409,394.44	743,426.31
3,902.00	1.20	199.90	527.39	3,901.38	11.38	-8.95	-11.47	0.12	409,390.68	743,424.55
4,092.00	1.00	203.00	717.35	4,091.34	7.98	-10.27	-8.09	0.11	409,387.28	743,423.23
4,282.00	1.10	216.80	907.32	4,281.31	5.00	-12.01	-5.12	0.14	409,384.30	743,421.49
4,473.00	1.90	156.80	1,098.26	4,472.26	0.62	-11.86	-0.74	0.87	409,379.92	743,421.64
4,665.00	1.70	149.90	1,290.17	4,664.16	-4.77	-9.18	4.68	0.15	409,374.53	743,424.32
4,856.00	1.00	125.30	1,481.12	4,855.11	-8.19	-6.40	8.12	0.47	409,371.11	743,427.10
4,944.00	0.90	129.30	1,569.10	4,943.10	-9.07	-5.24	9.01	0.14	409,370.23	743,428.26
5,076.00	0.80	140.70	1,701.09	5,075.08	-10.44	-3.85	10.40	0.15	409,368.86	743,429.65
5,267.00	0.80	142.90	1,892.07	5,266.06	-12.53	-2.20	12.51	0.02	409,366.77	743,431.30

Phoenix Technology Services
EOG Resources



Company:	EOG Resources	Local Co-ordinate Reference:	Well Caballo 23 Fed 5H
Project:	Lea County, NM (Nad27)	TVD Reference:	WELL @ 3373.99usft (Original Well Elev + 30' KB Cact)
Site:	Caballo 23 Federal	MD Reference:	WELL @ 3373 99usft (Original Well Elev + 30' KB Cact)
Well:	Caballo 23 Fed. 5H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	GCR DB v5000

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)
5,458.00	0.90	144.00	2,083.05	5,457.04	-14.81	-0.52	14.80	0.05	409,364.49	743,432.98
5,649.00	0.90	137.60	2,274.03	5,648.02	-17.13	1.38	17.15	0.05	409,362.17	743,434.88
5,840.00	1.00	127.50	2,465.00	5,838.99	-19.25	3.71	19.29	0.10	409,360.05	743,437.21
6,031.00	0.90	127.10	2,655.97	6,029.97	-21.17	6.23	21.24	0.05	409,358.13	743,439.73
6,222.00	0.70	127.90	2,846.95	6,220.95	-22.79	8.35	22.88	0.10	409,356.51	743,441.85
6,413.00	0.50	132.00	3,037.94	6,411.94	-24.07	9.89	24.17	0.11	409,355.23	743,443.39
6,604.00	0.50	122.20	3,228.94	6,602.93	-25.07	11.21	25.19	0.04	409,354.23	743,444.71
6,795.00	0.50	117.80	3,419.93	6,793.92	-25.90	12.65	26.03	0.02	409,353.40	743,446.15
6,986.00	0.20	108.30	3,610.93	6,984.92	-26.40	13.71	26.54	0.16	409,352.90	743,447.21
7,177.00	0.30	157.60	3,801.92	7,175.92	-26.96	14.21	27.11	0.12	409,352.34	743,447.71
7,369.00	1.00	99.00	3,993.91	7,367.90	-27.69	16.06	27.86	0.46	409,351.61	743,449.56
7,560.00	0.90	94.60	4,184.89	7,558.88	-28.07	19.20	28.27	0.06	409,351.23	743,452.70
7,751.00	0.40	16.30	4,375.88	7,749.87	-27.55	20.88	27.77	0.48	409,351.75	743,454.38
7,942.00	0.30	0.20	4,566.87	7,940.86	-26.41	21.07	26.63	0.07	409,352.89	743,454.57
8,134.00	0.30	109.20	4,758.87	8,132.86	-26.08	21.55	26.30	0.25	409,353.22	743,455.05
8,325.00	0.40	138.80	4,949.87	8,323.86	-26.74	22.46	26.97	0.11	409,352.56	743,455.96
8,516.00	0.60	166.70	5,140.86	8,514.85	-28.22	23.13	28.46	0.16	409,351.08	743,456.63
8,708.00	1.10	157.90	5,332.84	8,706.83	-30.90	24.05	31.15	0.27	409,348.40	743,457.55
8,856.00	1.20	159.70	5,480.81	8,854.80	-33.67	25.13	33.93	0.07	409,345.63	743,458.63
8,927.00	3.90	189.70	5,551.73	8,925.73	-36.75	24.98	37.01	4.12	409,342.55	743,458.48
8,958.00	8.50	189.80	5,582.54	8,956.54	-40.05	24.41	40.30	14.84	409,339.25	743,457.91
8,990.00	13.60	188.10	5,613.94	8,987.93	-46.11	23.48	46.35	15.97	409,333.19	743,456.98
9,022.00	19.30	189.00	5,644.62	9,018.61	-55.06	22.12	55.29	17.83	409,324.24	743,455.62
9,054.00	22.40	186.90	5,674.52	9,048.51	-66.34	20.56	66.55	9.96	409,312.96	743,454.06
9,086.00	24.40	185.90	5,703.89	9,077.88	-78.97	19.15	79.17	6.37	409,300.33	743,452.65
9,118.00	27.40	185.80	5,732.67	9,106.66	-92.87	17.72	93.05	9.38	409,286.43	743,451.22
9,150.00	30.80	186.00	5,760.63	9,134.62	-108.35	16.12	108.51	10.63	409,270.95	743,449.62

Phoenix Technology Services
EOG Resources



Company:	EOG Resources	Local Co-ordinate Reference:	Well Caballo 23 Fed. 5H
Project:	Lea County, NM (Nad27)	TVD Reference:	WELL @ 3373.99usft (Original Well Elev + 30' KB Cact)
Site:	Caballo 23 Federal	MD Reference:	WELL @ 3373.99usft (Original Well Elev + 30' KB Cact)
Well:	Caballo 23 Fed 5H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	GCR DB v5000

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)
9,181.00	32.70	186.70	5,786.98	9,160.98	-124.56	14.31	124.71	6.24	409,254.74	743,447.81
9,213.00	34.90	186.40	5,813.57	9,187.57	-142.25	12.29	142.37	6.89	409,237.05	743,445.79
9,245.00	37.70	185.50	5,839.36	9,213.36	-161.09	10.33	161.19	8.91	409,218.21	743,443.83
9,277.00	39.80	184.10	5,864.32	9,238.31	-181.05	8.66	181.13	7.11	409,198.25	743,442.16
9,309.00	41.50	183.70	5,888.60	9,262.59	-201.84	7.24	201.91	5.37	409,177.46	743,440.74
9,341.00	43.70	182.10	5,912.15	9,286.14	-223.47	6.15	223.52	7.66	409,155.83	743,439.65
9,373.00	46.00	179.50	5,934.84	9,308.83	-246.03	5.85	246.08	9.19	409,133.27	743,439.35
9,405.00	49.50	177.30	5,956.35	9,330.34	-269.70	6.52	269.76	12.06	409,109.60	743,440.02
9,436.00	52.70	177.30	5,975.81	9,349.81	-293.80	7.66	293.86	10.32	409,085.50	743,441.16
9,468.00	56.70	178.20	5,994.30	9,368.30	-319.89	8.68	319.96	12.71	409,059.41	743,442.18
9,500.00	61.40	179.20	6,010.76	9,384.75	-347.32	9.29	347.40	14.93	409,031.98	743,442.79
9,532.00	66.20	180.70	6,024.88	9,398.87	-376.02	9.31	376.10	15.58	409,003.28	743,442.81
9,564.00	70.30	181.80	6,036.74	9,410.73	-405.73	8.66	405.80	13.20	408,973.57	743,442.16
9,595.00	74.90	181.40	6,046.00	9,420.00	-435.29	7.83	435.35	14.89	408,944.01	743,441.33
9,629.00	77.30	181.60	6,054.17	9,428.16	-468.28	6.97	468.33	7.08	408,911.02	743,440.47
9,661.00	79.40	181.40	6,060.63	9,434.63	-499.61	6.15	499.65	6.59	408,879.69	743,439.65
9,693.00	81.80	181.60	6,065.86	9,439.85	-531.17	5.32	531.19	7.53	408,848.13	743,438.82
9,725.00	85.00	181.20	6,069.54	9,443.53	-562.94	4.55	562.96	10.08	408,816.36	743,438.05
9,757.00	87.90	181.10	6,071.52	9,445.51	-594.87	3.91	594.88	9.07	408,784.43	743,437.41
9,788.00	89.30	180.60	6,072.27	9,446.27	-625.86	3.45	625.86	4.80	408,753.44	743,436.95
9,884.00	90.60	180.40	6,072.36	9,446.35	-721.85	2.61	721.84	1.37	408,657.45	743,436.11
9,980.00	90.60	181.50	6,071.35	9,445.35	-817.83	1.02	817.80	1.15	408,561.47	743,434.52
10,075.00	90.90	181.50	6,070.11	9,444.10	-912.79	-1.47	912.72	0.32	408,466.51	743,432.03
10,171.00	90.70	180.70	6,068.77	9,442.76	-1,008.76	-3.31	1,008.67	0.86	408,370.54	743,430.19
10,266.00	90.00	180.20	6,068.19	9,442.18	-1,103.76	-4.06	1,103.65	0.91	408,275.54	743,429.44
10,362.00	90.30	178.30	6,067.94	9,441.93	-1,199.74	-2.80	1,199.65	2.00	408,179.56	743,430.70
10,457.00	89.90	176.70	6,067.77	9,441.76	-1,294.65	1.34	1,294.59	1.74	408,084.65	743,434.84

Phoenix Technology Services
EOG Resources



Company:	EOG Resources	Local Co-ordinate Reference:	Well Caballo 23 Fed. 5H
Project:	Lea County, NM (Nad27)	TVD Reference:	WELL @ 3373.99usft (Original Well Elev + 30' KB Cacti
Site:	Caballo 23 Federal	MD Reference:	WELL @ 3373 99usft (Original Well Elev + 30' KB Cacti
Well:	Caballo 23 Fed. 5H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	GCR DB v5000

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)
10,553.00	90.30	176.50	6,067.60	9,441.60	-1,390.48	7.03	1,390.48	0.47	407,988.82	743,440.53
10,649.00	88.00	176.50	6,069.03	9,443.02	-1,486.28	12.89	1,486.34	2.40	407,893.02	743,446.39
10,744.00	85.90	178.10	6,074.08	9,448.08	-1,581.04	17.36	1,581.13	2.78	407,798.26	743,450.86
10,840.00	88.80	178.00	6,078.52	9,452.51	-1,676.87	20.63	1,676.99	3.02	407,702.43	743,454.13
10,935.00	89.30	179.50	6,080.10	9,454.09	-1,771.83	22.70	1,771.97	1.66	407,607.47	743,456.20
11,031.00	90.70	179.60	6,080.10	9,454.09	-1,867.82	23.45	1,867.97	1.46	407,511.48	743,456.95
11,126.00	91.10	179.60	6,078.60	9,452.60	-1,962.81	24.12	1,962.95	0.42	407,416.49	743,457.82
11,221.00	91.40	180.20	6,076.53	9,450.52	-2,057.79	24.28	2,057.93	0.71	407,321.51	743,457.78
11,317.00	91.30	180.40	6,074.27	9,448.26	-2,153.76	23.78	2,153.89	0.23	407,225.54	743,457.28
11,412.00	90.20	179.90	6,073.03	9,447.02	-2,248.75	23.53	2,248.87	1.27	407,130.55	743,457.03
11,508.00	90.10	180.30	6,072.77	9,446.77	-2,344.75	23.36	2,344.86	0.43	407,034.55	743,456.86
11,603.00	91.10	180.80	6,071.78	9,445.77	-2,439.74	22.45	2,439.84	1.18	406,939.56	743,455.95
11,699.00	90.60	181.10	6,070.36	9,444.35	-2,535.71	20.86	2,535.79	0.61	406,843.59	743,454.36
11,794.00	90.50	180.90	6,069.44	9,443.44	-2,630.69	19.20	2,630.75	0.24	406,748.61	743,452.70
11,890.00	90.20	180.80	6,068.86	9,442.85	-2,726.68	17.78	2,726.72	0.33	406,652.62	743,451.28
11,985.00	90.10	180.20	6,068.61	9,442.60	-2,821.68	16.95	2,821.70	0.64	406,557.62	743,450.45
12,080.00	89.60	179.60	6,068.86	9,442.85	-2,916.67	17.11	2,916.69	0.82	406,462.63	743,450.61
12,176.00	89.60	180.60	6,069.53	9,443.52	-3,012.67	16.95	3,012.68	1.04	406,366.63	743,450.45
12,271.00	90.40	179.10	6,069.53	9,443.52	-3,107.67	17.20	3,107.68	1.79	406,271.63	743,450.70
12,366.00	90.50	179.60	6,068.78	9,442.78	-3,202.66	18.27	3,202.67	0.54	406,176.64	743,451.77
12,462.00	91.70	178.30	6,066.94	9,440.93	-3,298.62	20.03	3,298.65	1.84	406,080.68	743,453.53
12,557.00	91.90	178.90	6,063.95	9,437.95	-3,393.54	22.35	3,393.59	0.67	405,985.76	743,455.85
12,653.00	89.80	177.90	6,062.53	9,436.52	-3,489.49	25.03	3,489.56	2.42	405,889.81	743,458.53
12,749.00	89.20	177.70	6,063.37	9,437.36	-3,585.42	28.72	3,585.52	0.66	405,793.88	743,462.22
12,844.00	88.90	177.50	6,064.94	9,438.94	-3,680.32	32.69	3,680.46	0.38	405,698.98	743,466.19
12,940.00	88.10	177.10	6,067.46	9,441.45	-3,776.18	37.21	3,776.36	0.93	405,603.12	743,470.71
13,035.00	89.60	177.30	6,069.36	9,443.36	-3,871.04	41.85	3,871.27	1.59	405,508.26	743,475.35

Phoenix Technology Services
EOG Resources



Company:	EOG Resources	Local Co-ordinate Reference:	Well Caballo 23 Fed. 5H
Project:	Lea County, NM (Nad27)	TVD Reference:	WELL @ 3373.99usft (Original Well Elev + 30' KB Cacti
Site:	Caballo 23 Federal	MD Reference:	WELL @ 3373.99usft (Original Well Elev + 30' KB Cacti
Well:	Caballo 23 Fed. 5H	North Reference:	Gnd
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	GCR DB v5000

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)
13,131.00	89.10	176.20	6,070.45	9,444.45	-3,966.88	47.30	3,967.16	1.26	405,412.42	743,480.80
13,226.00	89.70	178.40	6,071.45	9,445.44	-4,061.76	51.77	4,062.08	2.40	405,317.54	743,485.27
13,322.00	90.00	179.60	6,071.70	9,445.69	-4,157.75	53.45	4,158.08	1.29	405,221.55	743,486.95
13,417.00	90.00	180.40	6,071.70	9,445.69	-4,252.75	53.45	4,253.07	0.84	405,126.55	743,486.95
13,513.00	90.30	180.70	6,071.45	9,445.44	-4,348.74	52.52	4,349.05	0.44	405,030.56	743,486.02
13,608.00	90.20	180.40	6,071.03	9,445.03	-4,443.74	51.61	4,444.03	0.33	404,935.56	743,485.11
13,704.00	89.70	180.10	6,071.12	9,445.11	-4,539.73	51.19	4,540.02	0.61	404,839.57	743,484.69
13,799.00	90.10	180.20	6,071.28	9,445.28	-4,634.73	50.95	4,635.01	0.43	404,744.57	743,484.45
13,895.00	92.60	181.50	6,069.02	9,443.01	-4,730.69	49.52	4,730.95	2.93	404,648.61	743,483.02
13,966.00	92.10	181.10	6,066.11	9,440.10	-4,801.61	47.91	4,801.85	0.90	404,577.69	743,481.41
Last Phoenix MWD Survey										
14,025.00	92.10	181.10	6,063.95	9,437.94	-4,860.56	46.78	4,860.78	0.00	404,518.74	743,480.28
Projection to TD										

Survey Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,100.00	1,099.98	-4.46	-5.20	Tie In From Gyros @ 1100' MD
1,143.00	1,142.98	-4.52	-5.51	First Phoenix MWD Survey @ 1143' MD
13,966.00	9,440.10	-4,801.61	47.91	Last Phoenix MWD Survey
14,025.00	9,437.94	-4,860.56	46.78	Projection to TD

Checked By: _____	Approved By: _____	Date: _____
-------------------	--------------------	-------------