

Results of Directional Survey

API number:	30-025-41665		
OGRID:		Operator:	EOG RESOURCES INC
		Property:	JOLLY ROGER 16 STATE # 1H

surface	ULSTR:	C	16	T	24S	R	34E
				150	FNL	2250	FWL

BH Loc	ULSTR:	N	16	T	24S	R	34E
15595	MD	10878.1	TVD	245	FSL	2289	FWL
				5035	FNL	2289	FWL

Top Perf/OH	ULSTR:	C	16	T	24S	R	34E
10970	MD	10865.1	TVD	421	FNL	2226	FWL

Bot Perf/OH	ULSTR:	N	16	T	24S	R	34E
15485	MD	10880.2	TVD	356	FSL	2288	FWL
				4924	FNL	2288	FWL

	MD	N/S	E/W	VD
	10945	-248.62	-24.43	10853.56
TOP PERFS/OH	10970	-270.80	-23.95	10865.08
	10977	-277.01	-23.82	10868.31
	15397	-4667.14	37.12	10880.97
BOT PERFS/OH	15485	-4773.85	38.13	10880.16
	15491	-4781.13	38.20	10880.10

NEXT TO LAST	15537	-4827.12	38.59	10879.30
LAST READING	15595	-4885.11	38.90	10878.08
TD	15595	-4885.11	38.90	10878.08

Surface Location	150	FN	2250	FW
Projected BHL	5035	FN	2289	FW
Location of				
Top Perfs/OH	421	FN	2226	FW
Bottom Perfs/OH	4924	FN	2288	FW

SUMMARY of Subsurface Locations

Surface Location	C-16-24S-34E	150	FN	2250	FW	Vert. Depth
Top Perfs/OH	C-16-24S-34E	421	FN	2226	FW	10865.08
Bottom Perfs/OH	N-16-24S-34E	4924	FN	2288	FW	10880.16
Projected TD	N-16-24S-34E	5035	FN	2289	FW	10878.08

SEP 16 2014



EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Jolly Roger 16 State

#1H

OH

Design: OH

EOG PVA

13 June, 2014

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HOBBS OCD



EOG Resources, Inc.
EOG PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #1H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	KB = 30 @ 3581.00usft (Cactus 123)
Site:	Jolly Roger 16 State	MD Reference:	KB = 30 @ 3581.00usft (Cactus 123)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Project	Lea County, NM (NAD 27 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	Jolly Roger 16 State		
Site Position:		Northing:	446,370.00 usft
From:	Map	Easting:	765,216.00 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 13' 27.402 N
		Longitude:	103° 28' 32.531 W
		Grid Convergence:	0.46 °

Well	#1H		
Well Position	+N/-S	0.00 usft	Northing:
	+E/-W	0.00 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft
		Latitude:	32° 13' 27.402 N
		Longitude:	103° 28' 32.531 W
		Ground Level:	3,551.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF201014	6/6/2014	7.17	60.13	48,328

Design	OH			
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	179.392



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Design:	OH	Database:	EDM 5000.1 Single User Db

Survey Program		Date	6/13/2014		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.00	1,200.00	Gyro #1 (OH)	NSG-CT_WL	Continuous north-seeking gyro on wireline	
1,326.00	15,595.00	Nexus MWD #1 (OH)	MWD	MWD - Standard	

Survey										
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.03	44.270	100.00	0.02	0.02	0.03	0.03	0.00	-0.03	0.00
200.00	0.31	0.200	200.00	0.31	0.04	0.29	0.28	-44.07	-0.31	-0.04
300.00	0.36	7.380	300.00	0.89	0.08	0.07	0.05	7.18	-0.89	0.04
400.00	0.27	14.090	400.00	1.43	0.18	0.10	-0.09	6.71	-1.43	0.18
500.00	0.32	5.210	499.99	1.94	0.26	0.07	0.05	-8.88	-1.95	-0.08
600.00	0.13	346.280	599.99	2.33	0.26	0.20	-0.19	-18.93	-2.20	-0.80
700.00	0.28	334.320	699.99	2.66	0.12	0.16	0.15	-11.96	-2.34	-1.26
800.00	0.28	336.920	799.99	3.10	-0.08	0.01	0.00	2.60	-2.88	-1.14
900.00	0.25	315.680	899.99	3.48	-0.33	0.10	-0.03	-21.24	-2.72	-2.20
1,000.00	0.35	325.000	999.99	3.89	-0.65	0.11	0.10	9.32	-3.56	-1.70
1,100.00	0.37	311.290	1,099.99	4.35	-1.07	0.09	0.02	-13.71	-3.68	-2.56
1,200.00	0.16	267.560	1,199.99	4.56	-1.45	0.28	-0.21	-43.73	-1.26	-4.62
1,326.00	0.88	307.220	1,325.98	5.14	-2.40	0.61	0.57	31.48	-5.02	-2.64
1,516.00	0.40	95.580	1,515.97	5.95	-2.90	0.65	-0.25	78.08	3.47	5.64
1,705.00	0.75	98.920	1,704.97	5.70	-1.02	0.19	0.19	1.77	1.89	5.47
1,895.00	1.10	79.760	1,894.94	5.83	2.00	0.24	0.18	-10.08	-3.01	5.38
2,085.00	0.18	175.210	2,084.93	5.86	3.82	0.60	-0.48	50.24	5.52	4.30
2,275.00	0.26	172.480	2,274.93	5.13	3.90	0.04	0.04	-1.44	4.58	4.54
2,465.00	0.31	217.130	2,464.93	4.29	3.65	0.12	0.03	23.50	5.63	0.32
2,654.00	0.31	267.140	2,653.92	3.86	2.83	0.14	0.00	26.46	3.02	-3.72



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EOG PVA

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Design:	OH	Database:	EDM 5000.1 Single User Db

Survey											
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
2,844.00	0.40	328.220	2,843.92	4.40	1.97	0.19	0.05	32.15	-2.70	-3.99	
3,034.00	0.79	340.350	3,033.91	6.20	1.18	0.21	0.21	6.38	-5.44	-3.19	
3,224.00	0.26	27.110	3,223.90	7.81	0.93	0.34	-0.28	24.61	-7.38	2.73	
3,414.00	0.48	24.910	3,413.90	8.92	1.46	0.12	0.12	-1.16	-8.71	2.43	
3,603.00	0.88	35.280	3,602.88	10.82	2.64	0.22	0.21	5.49	-10.36	4.10	
3,793.00	0.57	356.880	3,792.87	12.96	3.43	0.29	-0.16	-20.21	-12.75	-4.13	
3,982.00	0.84	325.500	3,981.86	15.04	2.59	0.24	0.14	-16.60	-10.92	-10.65	
4,172.00	0.44	258.260	4,171.85	16.04	1.09	0.41	-0.21	-35.39	4.33	-15.48	
4,361.00	0.40	241.560	4,360.84	15.57	-0.20	0.07	-0.02	-8.84	7.24	-13.79	
4,551.00	0.79	113.860	4,550.83	14.73	0.41	0.57	0.21	-67.21	5.58	13.64	
4,741.00	0.26	125.990	4,740.83	13.95	1.96	0.28	-0.28	6.38	6.61	12.44	
4,931.00	0.57	119.310	4,930.82	13.23	3.13	0.16	0.16	-3.52	3.75	13.07	
5,121.00	1.19	125.810	5,120.80	11.61	5.56	0.33	0.33	3.42	2.29	12.67	
5,159.00	1.19	129.060	5,158.79	11.13	6.18	0.18	0.00	8.55	2.21	12.54	
5,294.00	1.10	123.530	5,293.76	9.53	8.35	0.11	-0.07	-4.10	-1.69	12.56	
5,484.00	0.92	128.270	5,483.73	7.58	11.07	0.10	-0.09	2.49	-3.99	12.81	
5,672.00	0.84	129.850	5,671.71	5.76	13.31	0.04	-0.04	0.84	-6.53	12.96	
5,863.00	0.79	231.810	5,862.70	4.05	13.35	0.66	-0.03	53.38	13.00	5.07	
6,053.00	0.79	217.830	6,052.68	2.21	11.52	0.10	0.00	-7.36	8.81	7.74	
6,242.00	0.66	227.680	6,241.67	0.45	9.92	0.10	-0.07	5.21	7.63	6.35	
6,431.00	0.66	237.610	6,430.65	-0.87	8.19	0.06	0.00	5.25	6.45	5.12	
6,621.00	0.70	222.050	6,620.64	-2.32	6.49	0.10	0.02	-8.19	2.63	6.37	
6,811.00	0.70	241.920	6,810.63	-3.73	4.69	0.13	0.00	10.46	2.38	5.49	
7,000.00	0.88	236.290	6,999.61	-5.07	2.46	0.10	0.10	-2.98	-0.77	5.59	
7,190.00	1.01	181.010	7,189.59	-7.56	1.22	0.47	0.07	-29.09	-7.54	1.35	
7,380.00	0.70	24.030	7,379.58	-8.17	1.66	0.88	-0.16	-82.62	6.79	-4.85	
7,570.00	0.70	6.900	7,569.56	-5.96	2.27	0.11	0.00	-9.02	5.64	-2.97	



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Well:	#1H	North Reference:	Grid
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7,759.00	0.44	359.160	7,758.55	-4.09	2.40	0.14	-0.14	-4.10	4.12	-2.34	
7,948.00	0.48	323.740	7,947.55	-2.72	1.92	0.15	0.02	-18.74	3.33	0.06	
8,138.00	0.35	282.080	8,137.54	-1.96	0.89	0.17	-0.07	-21.93	1.28	1.73	
8,328.00	0.66	260.550	8,327.54	-2.02	-0.76	0.19	0.16	-11.33	-1.08	1.87	
8,518.00	1.05	328.930	8,517.52	-0.71	-2.74	0.53	0.21	35.99	-0.81	2.71	
8,708.00	1.19	328.400	8,707.48	2.46	-4.67	0.07	0.07	-0.28	-4.55	2.69	
8,897.00	0.62	354.250	8,896.46	5.15	-5.80	0.36	-0.30	13.68	-5.71	5.26	
9,087.00	0.22	65.430	9,086.45	6.33	-5.57	0.31	-0.21	37.46	2.44	8.07	
9,276.00	0.88	295.440	9,275.45	7.10	-6.55	0.55	0.35	-68.78	-8.97	-3.60	
9,466.00	1.05	104.100	9,465.44	7.30	-6.18	1.01	0.09	88.77	7.78	5.58	
9,656.00	0.88	98.830	9,655.41	6.66	-3.05	0.10	-0.09	-2.77	4.04	6.11	
9,845.00	0.66	84.420	9,844.39	6.54	-0.54	0.15	-0.12	-7.62	-0.10	6.56	
10,035.00	0.40	128.010	10,034.39	6.24	1.08	0.24	-0.14	22.94	2.99	5.58	
10,225.00	0.44	280.060	10,224.39	5.96	0.88	0.43	0.02	80.03	-0.17	-6.02	
10,320.00	0.79	272.150	10,319.38	6.04	-0.13	0.38	0.37	-8.33	-0.36	-6.03	
10,378.00	1.45	220.560	10,377.37	5.50	-1.01	1.97	1.14	-88.95	3.52	-4.35	
10,409.00	3.96	198.760	10,408.33	4.19	-1.61	8.61	8.10	-70.32	3.45	-2.88	
10,441.00	6.68	195.070	10,440.19	1.35	-2.45	8.56	8.50	-11.53	0.98	-2.80	
10,472.00	9.76	194.540	10,470.87	-2.94	-3.58	9.94	9.94	-1.71	-1.36	-3.37	
10,504.00	11.91	197.790	10,502.30	-8.71	-5.27	6.98	6.72	10.16	-3.48	-4.50	
10,535.00	14.15	196.040	10,532.50	-15.40	-7.29	7.34	7.23	-5.65	-4.40	-6.49	
10,567.00	16.13	194.540	10,563.39	-23.46	-9.49	6.31	6.19	-4.69	-4.40	-8.92	
10,598.00	18.59	189.970	10,592.97	-32.50	-11.43	9.07	7.94	-14.74	-2.88	-11.44	
10,630.00	21.67	187.340	10,623.02	-43.38	-13.06	10.03	9.62	-8.22	-0.93	-13.52	
10,662.00	25.93	186.460	10,652.29	-56.20	-14.61	13.36	13.31	-2.75	0.83	-15.39	
10,693.00	29.98	184.610	10,679.66	-70.66	-15.99	13.36	13.06	-5.97	2.62	-17.00	
10,724.00	33.63	181.970	10,706.01	-86.97	-16.91	12.60	11.77	-8.52	4.57	-18.02	



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10,756.00	38.07	181.620	10,731.94	-105.70	-17.49	13.89	13.87	-1.09	5.81	-18.80	
10,787.00	42.11	182.240	10,755.65	-125.64	-18.17	13.10	13.03	2.00	6.49	-19.76	
10,819.00	45.89	183.120	10,778.66	-147.84	-19.22	11.97	11.81	2.75	7.02	-21.12	
10,850.00	50.24	184.260	10,799.38	-170.85	-20.71	14.30	14.03	3.68	7.31	-22.95	
10,861.83	51.47	184.226	10,806.84	-180.00	-21.39	10.44	10.44	-0.29	7.47	-23.72	
HL Corssing, MD:10861.83', TVD:10806.84', N/S:-180.00', E/W:-21.39', INC:51.47											
10,882.00	53.58	184.170	10,819.11	-195.96	-22.56	10.44	10.44	-0.28	7.83	-25.05	
10,914.00	56.79	182.330	10,837.38	-222.19	-24.04	11.09	10.03	-5.75	9.07	-26.66	
10,945.00	60.31	179.430	10,853.56	-248.62	-24.43	13.88	11.35	-9.35	10.69	-27.08	
10,977.00	64.79	178.110	10,868.31	-277.01	-23.82	14.47	14.00	-4.12	11.70	-26.65	
11,009.00	68.62	179.160	10,880.96	-306.38	-23.12	12.34	11.97	3.28	12.00	-26.36	
11,040.00	73.80	181.010	10,890.94	-335.72	-23.17	17.64	16.71	5.97	11.82	-26.83	
11,072.00	78.68	182.760	10,898.55	-366.77	-24.20	16.15	15.25	5.47	11.03	-28.22	
11,098.00	82.77	183.730	10,902.74	-392.39	-25.65	16.16	15.73	3.73	10.02	-29.91	
11,129.00	85.85	185.310	10,905.81	-423.13	-28.08	11.15	9.94	5.10	8.71	-32.63	
11,161.00	87.12	185.490	10,907.78	-454.93	-31.09	4.01	3.97	0.56	8.20	-35.95	
11,224.00	89.41	183.910	10,909.68	-517.68	-36.25	4.42	3.63	-2.51	9.71	-41.74	
11,318.00	91.74	181.270	10,908.74	-611.57	-40.50	3.75	2.48	-2.81	8.82	-46.98	
11,413.00	91.60	178.810	10,905.97	-706.52	-40.56	2.59	-0.15	-2.59	5.99	-48.06	
11,508.00	91.43	177.760	10,903.46	-801.44	-37.72	1.12	-0.18	-1.11	3.46	-46.23	
11,603.00	89.80	176.260	10,902.44	-896.30	-32.76	2.33	-1.72	-1.58	2.48	-42.28	
11,698.00	89.89	176.170	10,902.70	-991.09	-26.49	0.13	0.09	-0.09	2.74	-37.01	
11,793.00	90.42	176.090	10,902.44	-1,085.88	-20.08	0.56	0.56	-0.08	2.46	-31.61	
11,887.00	91.78	176.610	10,900.63	-1,179.67	-14.10	1.55	1.45	0.55	0.62	-26.62	
11,982.00	92.13	176.260	10,897.39	-1,274.43	-8.20	0.52	0.37	-0.37	-2.62	-21.72	
12,077.00	88.44	177.140	10,896.92	-1,369.25	-2.73	3.99	-3.88	0.93	-3.03	-17.27	
12,172.00	89.89	176.880	10,898.31	-1,464.11	2.23	1.55	1.53	-0.27	-1.67	-13.32	



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Survey											
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
12,267.00	91.30	176.700	10,897.32	-1,558.95	7.55	1.50	1.48	-0.19	-2.67	-9.00	
12,362.00	92.92	176.260	10,893.82	-1,653.71	13.37	1.77	1.71	-0.46	-6.16	-4.18	
12,457.00	92.48	178.280	10,889.35	-1,748.49	17.89	2.17	-0.46	2.13	-10.63	-0.67	
12,551.00	93.01	177.670	10,884.84	-1,842.32	21.21	0.86	0.56	-0.65	-15.13	1.65	
12,646.00	90.11	178.630	10,882.26	-1,937.22	24.28	3.22	-3.05	1.01	-17.72	3.70	
12,741.00	91.38	178.370	10,881.02	-2,032.18	26.76	1.36	1.34	-0.27	-18.95	5.18	
12,835.00	92.88	178.900	10,877.53	-2,126.09	29.00	1.69	1.60	0.56	-22.45	6.43	
12,931.00	92.13	179.780	10,873.33	-2,221.99	30.11	1.20	-0.78	0.92	-26.64	6.51	
13,026.00	89.80	178.720	10,871.73	-2,316.96	31.35	2.69	-2.45	-1.12	-28.25	6.74	
13,120.00	90.11	178.460	10,871.81	-2,410.93	33.66	0.43	0.33	-0.28	-28.17	8.06	
13,215.00	88.57	179.860	10,872.90	-2,505.91	35.05	2.19	-1.62	1.47	-27.08	8.45	
13,310.00	87.69	180.920	10,876.00	-2,600.85	34.41	1.45	-0.93	1.12	-23.98	6.79	
13,405.00	88.00	181.270	10,879.57	-2,695.77	32.59	0.49	0.33	0.37	-20.41	3.97	
13,500.00	88.26	181.450	10,882.67	-2,790.69	30.34	0.33	0.27	0.19	-17.31	0.71	
13,596.00	88.62	182.150	10,885.29	-2,886.61	27.33	0.82	0.37	0.73	-14.70	-3.32	
13,690.00	88.88	182.330	10,887.34	-2,980.51	23.65	0.34	0.28	0.19	-12.65	-7.99	
13,785.00	88.97	181.010	10,889.12	-3,075.45	20.89	1.39	0.09	-1.39	-10.87	-11.77	
13,880.00	89.01	179.780	10,890.79	-3,170.43	20.23	1.30	0.04	-1.29	-9.19	-13.43	
13,974.00	88.97	180.300	10,892.45	-3,264.42	20.16	0.55	-0.04	0.55	-7.54	-14.50	
14,069.00	90.24	180.390	10,893.11	-3,359.41	19.59	1.34	1.34	0.09	-6.88	-16.08	
14,163.00	90.73	178.190	10,892.31	-3,453.40	20.76	2.40	0.52	-2.34	-7.68	-15.91	
14,258.00	91.08	178.550	10,890.81	-3,548.35	23.46	0.53	0.37	0.38	-9.18	-14.22	
14,352.00	91.21	178.990	10,888.93	-3,642.31	25.48	0.49	0.14	0.47	-11.06	-13.20	
14,447.00	91.56	178.900	10,886.64	-3,737.26	27.23	0.38	0.37	-0.09	-13.35	-12.46	
14,542.00	91.21	178.280	10,884.34	-3,832.20	29.56	0.75	-0.37	-0.65	-15.65	-11.13	
14,637.00	90.24	179.340	10,883.14	-3,927.17	31.53	1.51	-1.02	1.12	-16.85	-10.17	
14,732.00	90.77	179.950	10,882.30	-4,022.17	32.12	0.85	0.56	0.64	-17.69	-10.59	



EOG Resources, Inc.
EOG PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #1H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	KB = 30 @ 3581.00usft (Cactus 123)
Site:	Jolly Roger 16 State	MD Reference:	KB = 30 @ 3581.00usft (Cactus 123)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Survey										
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
14,827.00	89.89	179.510	10,881.75	-4,117.16	32.57	1.04	-0.93	-0.46	-18.24	-11.15
14,922.00	89.58	179.160	10,882.19	-4,212.16	33.67	0.49	-0.33	-0.37	-17.80	-11.05
15,016.00	90.07	179.600	10,882.48	-4,306.15	34.69	0.70	0.52	0.47	-17.52	-11.03
15,112.00	90.33	179.690	10,882.14	-4,402.15	35.29	0.29	0.27	0.09	-17.85	-11.46
15,207.00	90.29	179.780	10,881.63	-4,497.14	35.73	0.10	-0.04	0.09	-18.37	-12.03
15,302.00	90.11	179.600	10,881.30	-4,592.14	36.24	0.27	-0.19	-0.19	-18.70	-12.52
15,397.00	90.29	179.340	10,880.97	-4,687.14	37.12	0.33	0.19	-0.27	-19.03	-12.65
15,491.00	90.77	179.340	10,880.10	-4,781.13	38.20	0.51	0.51	0.00	-19.90	-12.57
15,506.78	90.92	179.460	10,879.86	-4,796.90	38.37	1.22	0.96	0.76	-20.13	-12.57
HL Corssing, MD:15506.78', TVD:10879.86',N/S:-4796.90', E/W:38.37', INC:90.92										
15,537.00	91.21	179.690	10,879.30	-4,827.12	38.59	1.22	0.96	0.76	-20.69	-12.67
Last MWD Survey										
15,595.00	91.21	179.690	10,878.08	-4,885.11	38.90	0.00	0.00	0.00	-21.92	-12.97
Projection To Bit										

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
10,861.83	10,806.84	-180.00	-21.39	HL Corssing, MD:10861.83', TVD:10806.84',N/S:-180.00', E/W:-21.39', INC:51.4
15,506.78	10,879.86	-4,796.90	38.37	HL Corssing, MD:15506.78', TVD:10879.86',N/S:-4796.90', E/W:38.37', INC:90.
15,537.00	10,879.30	-4,827.12	38.59	Last MWD Survey
15,595.00	10,878.08	-4,885.11	38.90	Projection To Bit

Checked By: _____	Approved By: _____	Date: _____
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