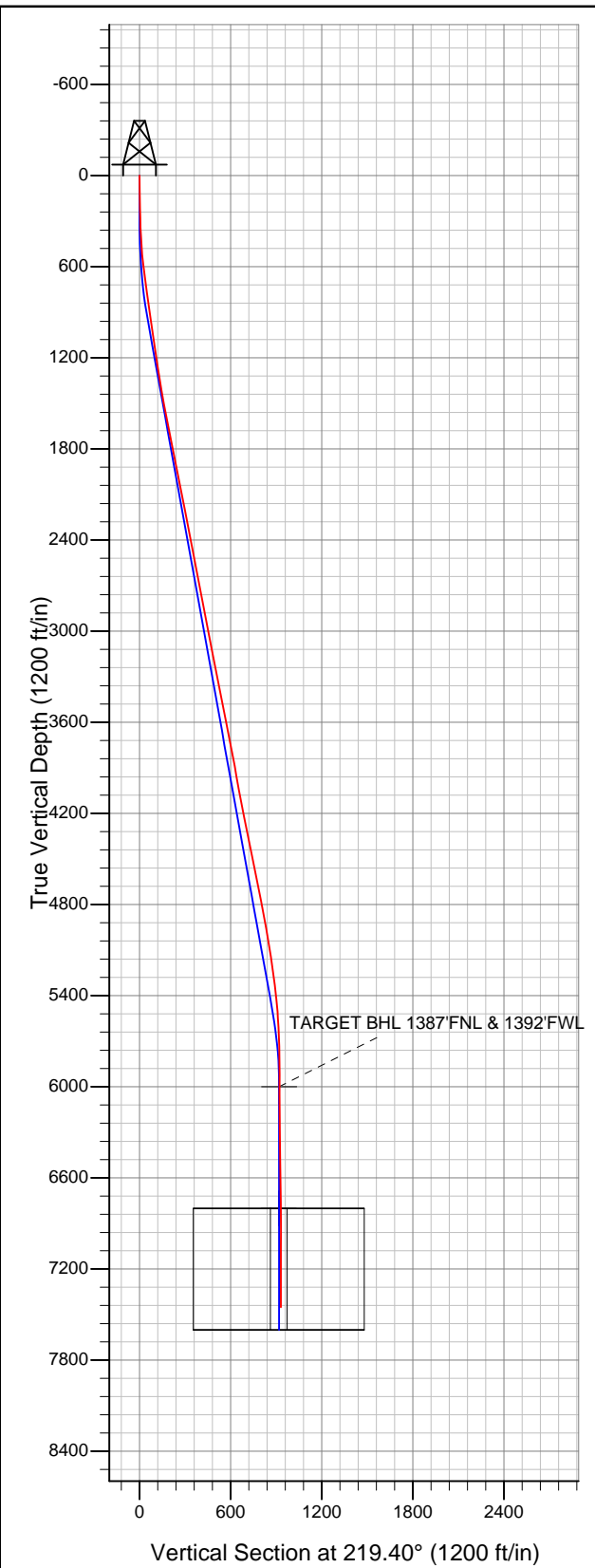


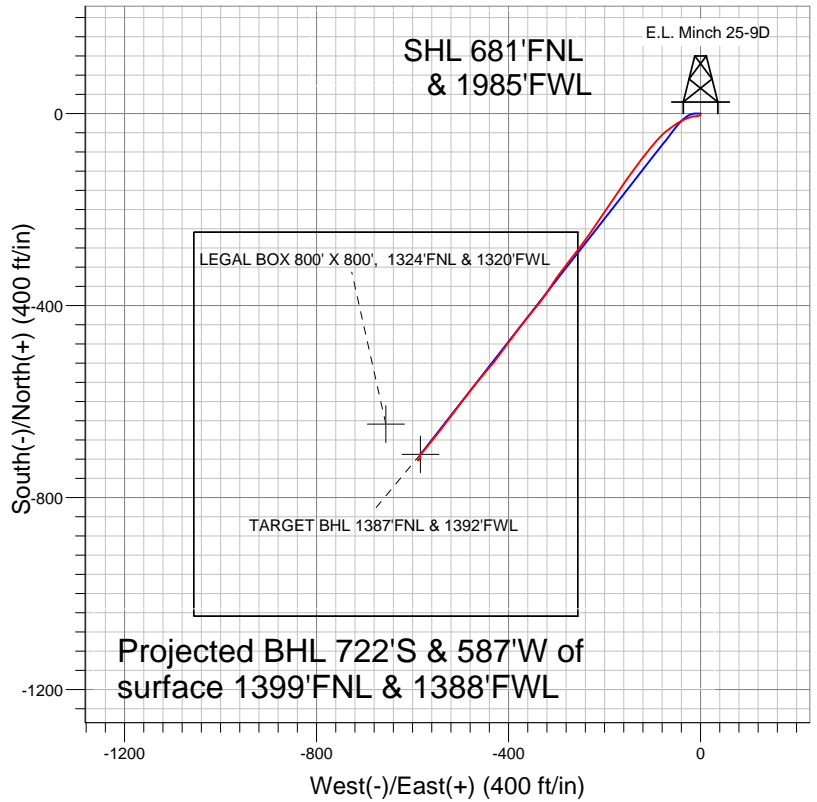
Well Name: E.L. Minch 25-9D

Surface Location: E.L. Minch 25-9D Pad Sec.9-T3N-R68W
 North American Datum 1983 US State Plane 1983 Colorado Northern Zone
 Ground Elevation: 5051.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1332763.77	3136629.05	40.245800	-105.010540	
		13' EST KB	RKB @ 5064.0ft (13' EST KB)			



APOLLO OPERATING, LLC.



LEGEND

- E.L. Minch 25-9D, Wellbore #1, Plan # 2 (3-16-12) R V0
- Wellbore #1

Final Survey Plot

Projected Final Survey -
 7535'MD & 7452'TVD @ 931'VS
 0.3 deg Inc 189.4 deg AZ

Project: SEC.9-T3N-R68W
 Site: E.L. Minch 25-9D Pad Sec.9-T3N-R68W
 Well: E.L. Minch 25-9D
 Plan: Wellbore #1



APOLLO OPERATING, LLC.

SEC.9-T3N-R68W

E.L. Minch 25-9D Pad Sec.9-T3N-R68W

E.L. Minch 25-9D

Wellbore #1

Design: Wellbore #1

Standard Survey Report

26 March, 2012

Company:	APOLLO OPERATING, LLC.	Local Co-ordinate Reference:	Well E.L. Minch 25-9D
Project:	SEC.9-T3N-R68W	TVD Reference:	RKB @ 5064.0ft (13' EST KB)
Site:	E.L. Minch 25-9D Pad Sec.9-T3N-R68W	MD Reference:	RKB @ 5064.0ft (13' EST KB)
Well:	E.L. Minch 25-9D	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Landmark

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
1,513.0	10.20	215.40	1,501.2	-102.2	-127.6	160.0	0.62	0.56	-1.60
1,637.0	11.30	217.30	1,623.0	-120.8	-141.3	183.1	0.93	0.89	1.53
1,762.0	11.30	216.20	1,745.6	-140.4	-156.0	207.5	0.17	0.00	-0.88
1,887.0	11.60	213.90	1,868.1	-160.8	-170.2	232.3	0.44	0.24	-1.84
2,012.0	10.60	212.60	1,990.8	-180.9	-183.4	256.2	0.82	-0.80	-1.04
2,136.0	11.30	212.70	2,112.5	-200.7	-196.1	279.6	0.56	0.56	0.08
2,261.0	11.20	215.50	2,235.1	-220.9	-209.8	303.9	0.44	-0.08	2.24
2,386.0	11.80	216.00	2,357.6	-241.1	-224.4	328.7	0.49	0.48	0.40
2,510.0	11.00	215.20	2,479.1	-261.0	-238.6	353.2	0.66	-0.65	-0.65
2,635.0	10.60	215.50	2,601.9	-280.1	-252.2	376.5	0.32	-0.32	0.24
2,760.0	11.00	219.80	2,724.7	-298.7	-266.5	399.9	0.72	0.32	3.44
2,885.0	10.40	215.40	2,847.5	-317.0	-280.7	423.1	0.81	-0.48	-3.52
3,009.0	11.00	218.50	2,969.4	-335.4	-294.5	446.1	0.67	0.48	2.50
3,134.0	11.00	211.00	3,092.1	-355.0	-308.1	469.8	1.14	0.00	-6.00
3,259.0	10.90	214.40	3,214.8	-374.9	-320.9	493.4	0.52	-0.08	2.72
3,383.0	11.00	219.30	3,336.6	-393.8	-335.0	516.9	0.75	0.08	3.95
3,508.0	11.90	218.60	3,459.1	-413.1	-350.6	541.7	0.73	0.72	-0.56
3,633.0	10.60	218.20	3,581.7	-432.2	-365.8	566.1	1.04	-1.04	-0.32
3,758.0	11.50	217.50	3,704.4	-451.1	-380.5	590.1	0.73	0.72	-0.56
3,882.0	10.90	217.00	3,826.0	-470.3	-395.0	614.1	0.49	-0.48	-0.40
4,007.0	9.80	214.80	3,949.0	-488.4	-408.2	636.5	0.93	-0.88	-1.76
4,132.0	10.70	216.90	4,072.0	-506.5	-421.3	658.7	0.78	0.72	1.68
4,256.0	11.70	221.10	4,193.6	-525.1	-436.4	682.8	1.04	0.81	3.39
4,381.0	11.30	219.30	4,316.1	-544.2	-452.5	707.7	0.43	-0.32	-1.44
4,506.0	11.30	219.20	4,438.7	-563.1	-468.0	732.2	0.02	0.00	-0.08
4,631.0	11.50	217.60	4,561.2	-582.5	-483.4	756.9	0.30	0.16	-1.28
4,755.0	11.50	216.10	4,682.7	-602.3	-498.2	781.6	0.24	0.00	-1.21
4,880.0	10.30	217.50	4,805.5	-621.2	-512.3	805.2	0.98	-0.96	1.12
5,005.0	10.20	218.80	4,928.5	-638.7	-526.1	827.5	0.20	-0.08	1.04
5,130.0	10.20	217.70	5,051.5	-656.1	-539.8	849.6	0.16	0.00	-0.88
5,254.0	8.20	217.50	5,173.9	-671.8	-551.9	869.4	1.61	-1.61	-0.16
5,379.0	7.50	217.30	5,297.7	-685.4	-562.2	886.5	0.56	-0.56	-0.16
5,504.0	5.80	219.60	5,421.9	-696.7	-571.2	900.9	1.38	-1.36	1.84
5,628.0	3.50	221.40	5,545.5	-704.4	-577.7	911.0	1.86	-1.85	1.45
5,753.0	2.60	226.20	5,670.3	-709.2	-582.3	917.6	0.75	-0.72	3.84
5,878.0	0.60	234.40	5,795.2	-711.5	-584.9	921.1	1.61	-1.60	6.56
6,003.0	0.60	97.90	5,920.2	-712.0	-584.7	921.4	0.89	0.00	-109.20
6,082.8	0.60	135.32	6,000.0	-712.4	-584.0	921.2	0.48	0.00	46.90
TARGET BHL 1387'FNL & 1392'FWL									
6,127.0	0.70	152.10	6,044.2	-712.8	-583.7	921.3	0.48	0.22	37.95
6,252.0	0.80	188.00	6,169.2	-714.3	-583.5	922.3	0.38	0.08	28.72
6,377.0	0.80	201.30	6,294.2	-716.0	-583.9	923.9	0.15	0.00	10.64
6,501.0	1.00	195.80	6,418.2	-717.8	-584.6	925.7	0.18	0.16	-4.44
6,626.0	0.20	307.60	6,543.2	-718.8	-585.0	926.7	0.87	-0.64	89.44
6,751.0	1.10	219.90	6,668.2	-719.5	-586.0	927.9	0.89	0.72	-70.16
6,876.0	1.30	223.20	6,793.1	-721.5	-587.7	930.6	0.17	0.16	2.64
6,882.9	1.22	223.66	6,800.1	-721.6	-587.8	930.7	1.13	-1.12	6.67
LEGAL BOX 800' X 800', 1324'FNL & 1320'FWL									
7,000.0	0.20	341.40	6,917.1	-722.3	-588.7	931.9	1.13	-0.87	100.58
7,125.0	0.50	99.50	7,042.1	-722.2	-588.3	931.5	0.50	0.24	94.48
7,250.0	0.40	105.00	7,167.1	-722.4	-587.3	931.0	0.09	-0.08	4.40
7,374.0	0.30	335.80	7,291.1	-722.2	-587.0	930.7	0.51	-0.08	-104.19
7,489.0	0.30	189.40	7,406.1	-722.2	-587.2	930.8	0.50	0.00	-127.30
7,535.0	0.30	189.40	7,452.1	-722.5	-587.2	931.0	0.00	0.00	0.00

Company:	APOLLO OPERATING, LLC.	Local Co-ordinate Reference:	Well E.L. Minch 25-9D
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Site:	E.L. Minch 25-9D Pad Sec.9-T3N-R68W	MD Reference:	RKB @ 5064.0ft (13' EST KB)
Well:	E.L. Minch 25-9D	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Landmark

Checked By: _____	Approved By: _____	Date: _____
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