



Noble Energy Inc.

Weld County, CO

Sec 14, T6N, R64W 6th PM

Rayglo A15-68-1HN

Wellbore #1

Survey: MWD **Final**

DDC Survey Report

24 April, 2012



Company:	Noble Energy Inc.	Local Co-ordinate Reference:	Well Rayglo A15-68-1HN
Project:	Weld County, CO	TVD Reference:	WELL @ 4767.0usft (H&P #323)
Site:	Sec 14, T6N, R64W 6th PM	MD Reference:	WELL @ 4767.0usft (H&P #323)
Well:	Rayglo A15-68-1HN	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Project	Weld County, CO		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Site	Sec 14, T6N, R64W 6th PM				
Site Position:		Northing:	1,422,457.54 usft	Latitude:	40° 29' 20.256 N
From:	Lat/Long	Easting:	3,271,010.58 usft	Longitude:	104° 31' 32.268 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.63 °

Well	Rayglo A15-68-1HN					
Well Position	+N/-S	0.0 usft	Northing:	1,422,453.46 usft	Latitude:	40° 29' 20.220 N
	+E/-W	0.0 usft	Easting:	3,270,971.68 usft	Longitude:	104° 31' 32.772 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	4,743.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	3/21/2012	8.64	67.14	53,123

Design	Wellbore #1				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	276.52	

Survey Program	Date 4/24/2012			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
887.0	11,340.0	MWD (Wellbore #1)	MWD default	MWD - Standard

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
Tie In @ 887' MD / 887' TVD									
887.0	0.00	0.00	887.0	0.0	0.0	0.0	0.00	0.00	0.00
908.0	1.00	341.80	908.0	0.2	-0.1	0.1	4.76	4.76	0.00
1,154.0	1.10	350.10	1,154.0	4.5	-1.1	1.6	0.07	0.04	3.37
1,439.0	1.10	351.80	1,438.9	9.9	-2.0	3.1	0.01	0.00	0.60
1,534.0	3.70	345.70	1,533.8	13.8	-2.9	4.4	2.75	2.74	-6.42
1,629.0	5.60	342.50	1,628.5	21.2	-5.0	7.4	2.02	2.00	-3.37
1,724.0	6.90	334.80	1,722.9	30.8	-8.9	12.3	1.63	1.37	-8.11
1,819.0	8.10	337.10	1,817.1	42.1	-13.9	18.6	1.30	1.26	2.42
1,914.0	10.90	336.50	1,910.8	56.5	-20.1	26.4	2.95	2.95	-0.63

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Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
2,009.0	12.70	335.70	2,003.8	74.3	-28.0	36.2	1.90	1.89	-0.84
2,104.0	12.90	338.80	2,096.4	93.7	-36.1	46.5	0.75	0.21	3.26
2,199.0	13.80	344.60	2,188.9	114.5	-42.9	55.7	1.70	0.95	6.11
2,294.0	14.50	342.70	2,281.0	136.8	-49.5	64.7	0.88	0.74	-2.00
2,389.0	14.90	345.30	2,372.9	159.9	-56.1	73.9	0.81	0.42	2.74
2,484.0	15.90	340.90	2,464.5	184.1	-63.5	84.0	1.62	1.05	-4.63
2,579.0	15.60	340.40	2,555.9	208.4	-72.0	95.2	0.35	-0.32	-0.53
2,674.0	15.80	340.90	2,647.4	232.6	-80.5	106.4	0.25	0.21	0.53
2,768.0	15.00	340.80	2,738.0	256.2	-88.7	117.2	0.85	-0.85	-0.11
2,863.0	15.90	344.30	2,829.6	280.4	-96.3	127.5	1.36	0.95	3.68
2,958.0	17.10	342.70	2,920.6	306.2	-104.0	138.1	1.35	1.26	-1.68
3,053.0	14.30	341.30	3,012.1	330.7	-111.9	148.7	2.97	-2.95	-1.47
3,148.0	15.60	340.90	3,103.9	353.9	-119.8	159.2	1.37	1.37	-0.42
3,243.0	15.10	343.00	3,195.5	377.8	-127.6	169.7	0.79	-0.53	2.21
3,338.0	13.20	341.10	3,287.6	399.9	-134.7	179.3	2.06	-2.00	-2.00
3,433.0	13.30	341.10	3,380.1	420.5	-141.8	188.6	0.11	0.11	0.00
3,528.0	12.60	335.10	3,472.7	440.2	-149.7	198.7	1.59	-0.74	-6.32
3,623.0	13.20	340.00	3,565.3	459.8	-157.8	209.0	1.31	0.63	5.16
3,718.0	15.50	343.90	3,657.3	482.2	-165.0	218.7	2.62	2.42	4.11
3,814.0	17.30	343.20	3,749.4	508.2	-172.7	229.3	1.89	1.88	-0.73
3,909.0	18.20	342.70	3,839.9	535.9	-181.2	240.9	0.96	0.95	-0.53
4,004.0	16.10	340.40	3,930.6	562.4	-190.0	252.7	2.32	-2.21	-2.42
4,099.0	13.40	339.50	4,022.5	585.2	-198.3	263.5	2.85	-2.84	-0.95
4,194.0	10.30	338.50	4,115.5	603.4	-205.3	272.5	3.27	-3.26	-1.05
4,289.0	9.10	342.30	4,209.1	618.4	-210.7	279.5	1.43	-1.26	4.00
4,384.0	6.70	349.50	4,303.2	631.1	-214.0	284.2	2.73	-2.53	7.58
4,479.0	4.80	343.20	4,397.7	640.3	-216.1	287.4	2.10	-2.00	-6.63
4,574.0	3.30	337.20	4,492.5	646.6	-218.3	290.3	1.64	-1.58	-6.32
4,669.0	1.50	345.00	4,587.4	650.4	-219.7	292.1	1.92	-1.89	8.21
4,764.0	0.30	285.20	4,682.4	651.6	-220.3	292.8	1.45	-1.26	-62.95
4,859.0	0.80	301.20	4,777.4	652.0	-221.1	293.7	0.55	0.53	16.84
4,954.0	1.30	163.60	4,872.4	651.3	-221.3	293.9	2.07	0.53	-144.84
5,049.0	0.40	177.80	4,967.3	650.0	-221.0	293.4	0.97	-0.95	14.95
5,144.0	1.80	123.70	5,062.3	648.8	-219.8	292.0	1.68	1.47	-56.95
5,239.0	1.70	119.10	5,157.3	647.3	-217.3	289.4	0.18	-0.11	-4.84
5,334.0	1.80	156.50	5,252.2	645.3	-215.5	287.3	1.19	0.11	39.37
5,430.0	1.90	170.60	5,348.2	642.3	-214.6	286.2	0.48	0.10	14.69
5,525.0	2.00	170.10	5,443.1	639.1	-214.1	285.2	0.11	0.11	-0.53
5,619.0	1.90	158.10	5,537.1	636.0	-213.2	284.0	0.45	-0.11	-12.77
5,714.0	1.90	147.80	5,632.0	633.3	-211.8	282.3	0.36	0.00	-10.84
5,809.0	2.30	145.60	5,727.0	630.4	-209.9	280.1	0.43	0.42	-2.32
5,904.0	2.20	145.50	5,821.9	627.3	-207.7	277.6	0.11	-0.11	-0.11
5,999.0	2.10	147.40	5,916.8	624.3	-205.8	275.3	0.13	-0.11	2.00
6,026.0	2.20	148.80	5,943.8	623.4	-205.2	274.7	0.42	0.37	5.19

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Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
6,071.0	2.00	167.40	5,988.8	621.9	-204.6	273.9	1.57	-0.44	41.33
6,121.0	4.80	246.90	6,038.7	620.3	-206.4	275.5	9.70	5.60	159.00
6,166.0	8.30	255.30	6,083.4	618.7	-211.2	280.1	8.04	7.78	18.67
6,217.0	11.70	267.80	6,133.6	617.6	-220.0	288.7	7.87	6.67	24.51
6,262.0	14.00	274.70	6,177.5	617.8	-230.0	298.6	6.14	5.11	15.33
6,312.0	17.30	277.10	6,225.6	619.3	-243.4	312.1	6.72	6.60	4.80
6,357.0	20.80	276.10	6,268.2	620.9	-257.9	326.8	7.81	7.78	-2.22
6,407.0	25.00	273.60	6,314.2	622.5	-277.3	346.2	8.62	8.40	-5.00
Crossed Hard Line @ 6443' MD / 6346' TVD									
6,443.0	28.04	273.93	6,346.4	623.6	-293.4	362.3	8.45	8.44	0.91
6,452.0	28.80	274.00	6,354.3	623.9	-297.6	366.6	8.45	8.45	0.80
6,502.0	32.30	275.40	6,397.4	626.0	-323.0	392.0	7.14	7.00	2.80
6,547.0	35.10	272.20	6,434.8	627.6	-347.9	416.9	7.37	6.22	-7.11
6,597.0	38.80	266.00	6,474.8	627.1	-377.9	446.6	10.50	7.40	-12.40
6,642.0	43.30	266.60	6,508.7	625.2	-407.4	475.7	10.04	10.00	1.33
6,692.0	47.00	272.40	6,544.0	624.9	-442.8	510.9	11.06	7.40	11.60
6,737.0	51.30	270.80	6,573.4	625.9	-476.8	544.8	9.93	9.56	-3.56
6,787.0	55.20	266.00	6,603.3	624.7	-516.8	584.4	10.95	7.80	-9.60
6,832.0	58.80	264.00	6,627.9	621.4	-554.4	621.4	8.83	8.00	-4.44
6,882.0	61.60	264.60	6,652.7	617.1	-597.6	663.8	5.70	5.60	1.20
6,927.0	63.10	265.70	6,673.6	613.7	-637.3	702.8	3.97	3.33	2.44
6,977.0	64.10	266.20	6,695.8	610.6	-682.0	746.9	2.19	2.00	1.00
7,014.0	66.90	268.30	6,711.2	609.0	-715.6	780.1	9.16	7.57	5.68
7,046.0	68.80	270.40	6,723.2	608.6	-745.2	809.5	8.50	5.94	6.56
Crossed Hard Line @ 7049' MD / 6724' TVD									
7,049.0	69.05	270.55	6,724.3	608.6	-748.0	812.3	9.68	8.45	5.06
7,072.0	71.00	271.70	6,732.2	609.1	-769.6	833.8	9.68	8.46	4.99
7,103.0	74.80	271.90	6,741.3	610.0	-799.2	863.3	12.27	12.26	0.65
7,150.0	80.10	272.90	6,751.5	611.9	-845.0	909.1	11.47	11.28	2.13
7,238.0	87.00	272.20	6,761.4	615.8	-932.4	996.2	7.88	7.84	-0.80
7,270.0	87.80	270.40	6,762.8	616.5	-964.3	1,028.1	6.15	2.50	-5.63
7,301.0	89.60	271.30	6,763.5	617.0	-995.3	1,058.9	6.49	5.81	2.90
7,333.0	90.00	271.70	6,763.6	617.8	-1,027.3	1,090.8	1.77	1.25	1.25
7,365.0	90.70	269.20	6,763.4	618.1	-1,059.3	1,122.6	8.11	2.19	-7.81
7,460.0	91.60	268.50	6,761.5	616.2	-1,154.2	1,216.7	1.20	0.95	-0.74
7,555.0	90.90	268.20	6,759.5	613.4	-1,249.2	1,310.8	0.80	-0.74	-0.32
7,650.0	90.20	267.80	6,758.5	610.1	-1,344.1	1,404.7	0.85	-0.74	-0.42
7,744.0	89.60	266.80	6,758.7	605.7	-1,438.0	1,497.5	1.24	-0.64	-1.06
7,839.0	89.80	268.30	6,759.2	601.6	-1,532.9	1,591.3	1.59	0.21	1.58
7,934.0	89.70	268.50	6,759.6	599.0	-1,627.9	1,685.4	0.24	-0.11	0.21
8,028.0	89.10	269.70	6,760.6	597.5	-1,721.9	1,778.6	1.43	-0.64	1.28
8,124.0	89.30	268.70	6,761.9	596.2	-1,817.8	1,873.8	1.06	0.21	-1.04
8,219.0	89.30	269.00	6,763.1	594.3	-1,912.8	1,967.9	0.32	0.00	0.32

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Survey

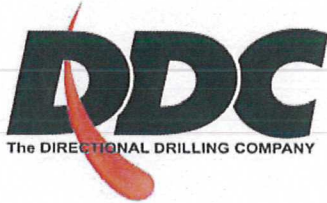
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,314.0	89.80	268.00	6,763.8	591.8	-2,007.8	2,062.0	1.18	0.53	-1.05
8,409.0	90.50	268.50	6,763.6	588.9	-2,102.7	2,156.0	0.91	0.74	0.53
8,504.0	91.00	268.50	6,762.4	586.4	-2,197.7	2,250.1	0.53	0.53	0.00
8,599.0	90.50	269.20	6,761.1	584.5	-2,292.7	2,344.2	0.91	-0.53	0.74
8,694.0	91.20	269.40	6,759.7	583.3	-2,387.6	2,438.4	0.77	0.74	0.21
8,789.0	90.80	270.80	6,758.0	583.5	-2,482.6	2,532.8	1.53	-0.42	1.47
8,885.0	88.70	271.30	6,758.5	585.3	-2,578.6	2,628.4	2.25	-2.19	0.52
8,980.0	88.10	271.70	6,761.1	587.7	-2,673.5	2,723.0	0.76	-0.63	0.42
9,075.0	89.10	271.10	6,763.4	590.1	-2,768.5	2,817.6	1.23	1.05	-0.63
9,170.0	89.50	270.60	6,764.6	591.5	-2,863.5	2,912.1	0.67	0.42	-0.53
9,265.0	90.00	270.40	6,765.0	592.3	-2,958.5	3,006.6	0.57	0.53	-0.21
9,360.0	89.50	270.60	6,765.4	593.1	-3,053.4	3,101.0	0.57	-0.53	0.21
9,455.0	91.70	270.80	6,764.4	594.3	-3,148.4	3,195.5	2.33	2.32	0.21
9,550.0	91.00	267.10	6,762.2	592.5	-3,243.4	3,289.7	3.96	-0.74	-3.89
9,645.0	90.00	268.30	6,761.4	588.7	-3,338.3	3,383.5	1.64	-1.05	1.26
9,740.0	90.00	269.20	6,761.4	586.7	-3,433.3	3,477.7	0.95	0.00	0.95
9,833.0	89.30	268.30	6,761.9	584.6	-3,526.2	3,569.8	1.23	-0.75	-0.97
9,928.0	89.00	265.70	6,763.3	579.7	-3,621.1	3,663.5	2.75	-0.32	-2.74
9,959.0	89.30	265.50	6,763.8	577.3	-3,652.0	3,693.9	1.16	0.97	-0.65
10,023.0	88.90	265.70	6,764.8	572.4	-3,715.8	3,756.8	0.70	-0.63	0.31
10,054.0	89.20	266.90	6,765.3	570.4	-3,746.7	3,787.3	3.99	0.97	3.87
10,118.0	89.50	267.80	6,766.0	567.4	-3,810.7	3,850.4	1.48	0.47	1.41
10,213.0	89.60	268.70	6,766.8	564.5	-3,905.6	3,944.4	0.95	0.11	0.95
10,308.0	90.40	271.50	6,766.8	564.7	-4,000.6	4,038.8	3.07	0.84	2.95
10,403.0	90.70	271.90	6,765.9	567.5	-4,095.6	4,133.5	0.53	0.32	0.42
10,498.0	92.10	271.00	6,763.6	569.9	-4,190.5	4,228.1	1.75	1.47	-0.95
10,593.0	89.60	272.00	6,762.2	572.4	-4,285.4	4,322.7	2.83	-2.63	1.05
10,688.0	90.00	272.00	6,762.5	575.7	-4,380.4	4,417.4	0.42	0.42	0.00
10,783.0	90.70	271.90	6,761.9	578.9	-4,475.3	4,512.1	0.74	0.74	-0.11
10,877.0	90.00	271.00	6,761.3	581.3	-4,569.3	4,605.7	1.21	-0.74	-0.96
10,972.0	90.50	270.60	6,760.9	582.6	-4,664.3	4,700.3	0.67	0.53	-0.42
11,067.0	90.00	269.60	6,760.5	582.8	-4,759.3	4,794.7	1.18	-0.53	-1.05
11,163.0	89.40	268.30	6,761.0	581.0	-4,855.3	4,889.8	1.49	-0.63	-1.35
11,258.0	89.30	268.50	6,762.1	578.4	-4,950.2	4,983.9	0.24	-0.11	0.21
11,288.0	89.40	268.90	6,762.4	577.7	-4,980.2	5,013.6	1.37	0.33	1.33
TD @ 11340' MD / 6763' TVD									
11,340.0	89.40	268.90	6,763.0	576.7	-5,032.2	5,065.1	0.00	0.00	0.00

Company:	Noble Energy Inc.	Local Co-ordinate Reference:	Well Rayglo A15-68-1HN
Project:	Weld County, CO	TVD Reference:	WELL @ 4767.0usft (H&P #323)
Site:	Sec 14, T6N, R64W 6th PM	MD Reference:	WELL @ 4767.0usft (H&P #323)
Well:	Rayglo A15-68-1HN	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
887.0	887.0	0.0	0.0	Tie In @ 887' MD / 887' TVD
6,443.0	6,346.4	623.6	-293.4	Crossed Hard Line @ 6443' MD / 6346' TVD
7,049.0	6,724.3	608.6	-748.0	Crossed Hard Line @ 7049' MD / 6724' TVD
11,340.0	6,763.0	576.7	-5,032.2	TD @ 11340' MD / 6763' TVD

Checked By: _____ Approved By: _____ Date: _____



Survey Certification Sheet

Noble Energy
Company

RM-12262
Job Number

4/24/12
Date

Sec 14, T6N, R64W, 6th PM
Lease

Rayglo A15-68-1HN
Well Name

Weld, CO
County & State

Surveyed from a depth of: 887 feet to 11340 feet MD

Type of Survey: MWD

Directional Supervisor/Surveyor: Boyd Wolff

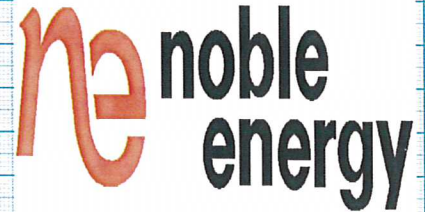
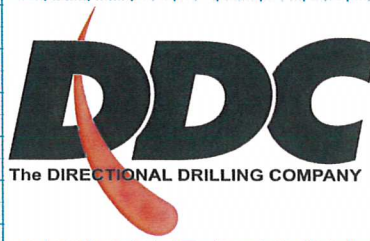
The data and calculations for this survey have been checked by me and conform to the standards and procedures set forth by **The Directional Drilling Company (DDC)**. This report represents a true and correct Directional survey of this well based on the original data obtained at the well site. Wellbore Coordinates are calculated using minimum curvature.

Digitally signed by Larry Wright
DN: cn=Larry Wright, o=The
Directional Drilling Company,
ou=GM of Guidance Services,
email=larryw@directionaldriller
s.com, c=US
Date: 2012.04.25 15:48:38
-05'00'

Larry Wright
MWD General Manager

Company Name: Noble Energy Inc.
Rayglo A15-68-1HN
Weld County, CO
Rig: H&P #323
Created By: Dina Chance
Date: 4/24/2012

Rayglo A15-68-1HN
Weld County, CO
Q120237 & RM-12262

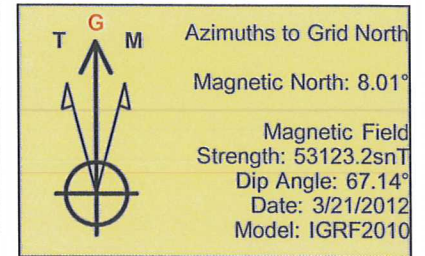
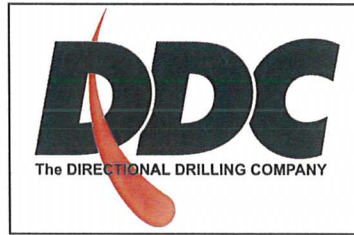


Crossed Hard Line @ 6443' MD / 8349' TVD

Crossed Hard Line @ 7049' MD / 8724' TVD

Vertical Section at 276.52" (25 usft/in)

Company Name: Noble Energy Inc.
Rayglo A15-68-1HN
Weld County, CO
Rig: H&P #323
Created By: Dina Chance
Date: 4/24/2012



Rayglo A15-68-1HN
Weld County, CO
Q120237 & RM-12262

PROJECT DETAILS: Weld County, CO

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: Colorado Northern Zone
System Datum: Mean Sea Level

WELL DETAILS: Rayglo A15-68-1HN

Ground Level: 4743.0
+N/-S +E/-W Northing Easting Latitude Longitude
0.0 0.0 1422453.46 3270971.68 40° 29' 20.220 N 104° 31' 32.772 W

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
VP Rayglo A15-68-1HN Design #2 - plan hits target center	4639.0	620.0	-209.0	1423073.46	3270762.68	40° 29' 26.369 N 104° 31' 35.389 W	
PBHL Rayglo A15-68-1HN Design #2 - plan hits target center	6763.0	575.5	-5032.6	1423028.97	3265939.10	40° 29' 26.448 N 104° 32' 37.824 W	

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	VsectDeparture	Annotation
887.0	0.00	0.00	887.0	0.0	0.0	0.0	Tie in @ 887' MD / 887' TVD
6443.0	28.04	273.93	6346.4	623.6	-293.4	362.3	Crossed Hard Line @ 6443' MD / 6346' TVD
7049.0	69.05	270.55	6724.3	608.6	-748.0	812.3	Crossed Hard Line @ 7049' MD / 6724' TVD
11340.0	69.40	268.90	6763.0	578.7	-5032.2	6085.1	TD @ 11340' MD / 6763' TVD

