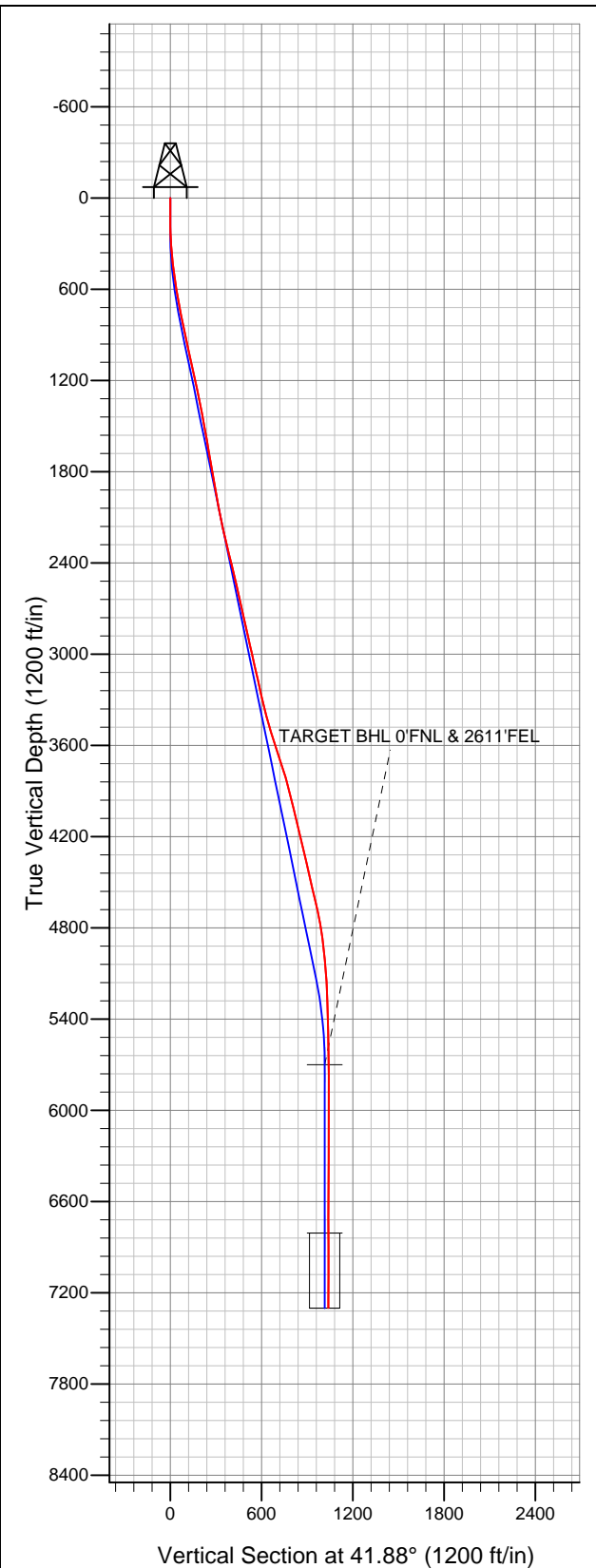


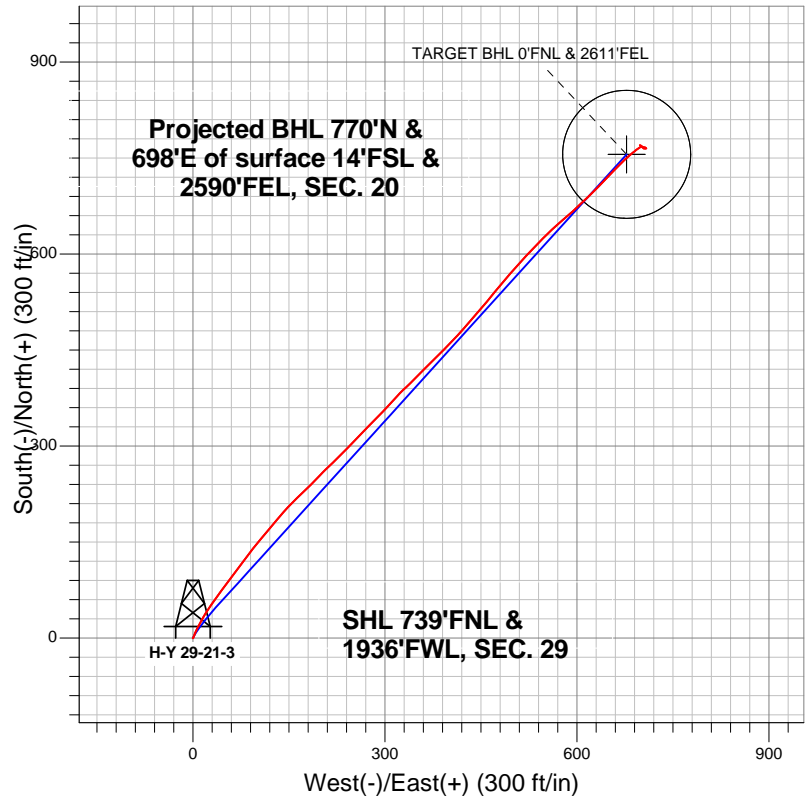
Well Name: H-Y 29-21-3

Surface Location: H-Y (East) Pad Sec.29-T6N-R67W
North American Datum 1983 US State Plane 1983Colorado Northern Zone
Ground Elevation: 4784.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1412076.37	3161522.79	40.463100	-104.919503	
Original Well Elev			WELL @ 4798.0ft (Original Well Elev)			



Great Western



LEGEND

- Wellbore #1
- H-Y 29-21-3, Wellbore #1, Plan #2 (6-18-12) R V0
- Survey #1

Final Survey Plot

Projected Final Survey -
7413'MD & 7299'TVD @ 1040'VS
0.50 deg Inc 289.40 deg AZ

Project: SEC.29-T6N-R67W
Site: H-Y (East) Pad Sec.29-T6N-R67W
Well: H-Y 29-21-3
Plan: Wellbore #1



Great Western

SEC.29-T6N-R67W

H-Y (East) Pad Sec.29-T6N-R67W

H-Y 29-21-3

Wellbore #1

Survey: Survey #1

Standard Survey Report

27 June, 2012

Company:	Great Western	Local Co-ordinate Reference:	Well H-Y 29-21-3
Project:	SEC.29-T6N-R67W	TVD Reference:	WELL @ 4798.0ft (Original Well Elev)
Site:	H-Y (East) Pad Sec.29-T6N-R67W	MD Reference:	WELL @ 4798.0ft (Original Well Elev)
Well:	H-Y 29-21-3	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Landmark

Project	SEC.29-T6N-R67W, Weld County, CO		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		Using Well Reference Point
Map Zone:	Colorado Northern Zone		Using geodetic scale factor

Site		H-Y (East) Pad Sec.29-T6N-R67W			
Site Position:		Northing:	1,412,090.58ft	Latitude:	40.463139°
From:	Lat/Long	Easting:	3,161,521.31ft	Longitude:	-104.919508°
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.38 °

Well	H-Y 29-21-3					
Well Position	+N/-S	0.0 ft	Northing:	1,412,076.37 ft	Latitude:	40.463100
	+E/-W	0.0 ft	Easting:	3,161,522.79 ft	Longitude:	-104.919503
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,784.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	6/18/2012	8.83	67.05	53,055

Design	Wellbore #1				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.0	0.0	0.0	41.88	

Survey Program		Date	6/26/2012		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
62.0	7,413.0	Survey #1 (Wellbore #1)	MWD	MWD - Standard	

Survey	Wellbore Data									
	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)
Survey A	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
	62.0	0.30	146.50	62.0	-0.1	0.1	0.0	0.48	0.48	0.00
	154.0	0.50	46.10	154.0	-0.1	0.5	0.3	0.68	0.22	-109.13
	248.0	2.60	14.60	248.0	2.3	1.3	2.6	2.33	2.23	-33.51
	340.0	4.70	22.70	339.8	7.8	3.3	8.0	2.34	2.28	8.80
	432.0	6.60	28.50	431.3	15.9	7.3	16.7	2.15	2.07	6.30
	523.0	8.40	27.30	521.5	26.4	12.8	28.2	1.99	1.98	-1.32
	614.0	10.10	32.00	611.4	39.1	20.1	42.5	2.04	1.87	5.16
	705.0	10.50	34.70	700.9	52.7	29.1	58.6	0.69	0.44	2.97
	844.0	11.60	37.10	837.3	74.2	44.7	85.1	0.86	0.79	1.73
	948.0	12.40	36.80	939.0	91.5	57.7	106.7	0.77	0.77	-0.29
	1,043.0	12.80	36.60	1,031.7	108.1	70.1	127.3	0.42	0.42	-0.21
1,138.0	12.60	36.80	1,124.4	124.9	82.6	148.1	0.22	-0.21	0.21	

Company:	Great Western	Local Co-ordinate Reference:	Well H-Y 29-21-3
Project:	SEC.29-T6N-R67W	TVD Reference:	WELL @ 4798.0ft (Original Well Elev)
Site:	H-Y (East) Pad Sec.29-T6N-R67W	MD Reference:	WELL @ 4798.0ft (Original Well Elev)
Well:	H-Y 29-21-3	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)	
1,232.0	11.30	38.00	1,216.4	140.3	94.4	167.5	1.41	-1.38	1.28	
1,330.0	11.60	39.20	1,312.4	155.5	106.5	186.9	0.39	0.31	1.22	
1,425.0	11.00	41.20	1,405.6	169.8	118.5	205.5	0.75	-0.63	2.11	
1,519.0	10.70	39.60	1,497.9	183.2	130.0	223.2	0.45	-0.32	-1.70	
1,617.0	10.30	41.30	1,594.3	196.8	141.6	241.1	0.52	-0.41	1.73	
1,710.0	9.30	44.50	1,685.9	208.4	152.3	256.9	1.22	-1.08	3.44	
1,802.0	10.10	44.20	1,776.6	219.5	163.2	272.4	0.87	0.87	-0.33	
1,900.0	10.00	47.70	1,873.1	231.4	175.5	289.4	0.63	-0.10	3.57	
1,997.0	9.80	44.50	1,968.6	243.0	187.5	306.1	0.60	-0.21	-3.30	
2,086.0	11.00	42.80	2,056.2	254.6	198.6	322.1	1.39	1.35	-1.91	
2,181.0	12.80	47.70	2,149.1	268.3	212.5	341.6	2.17	1.89	5.16	
2,280.0	12.70	44.70	2,245.7	283.4	228.3	363.4	0.68	-0.10	-3.03	
2,377.0	13.80	44.00	2,340.1	299.3	243.8	385.6	1.15	1.13	-0.72	
2,471.0	14.30	43.80	2,431.3	315.8	259.6	408.4	0.53	0.53	-0.21	
2,566.0	12.70	44.90	2,523.7	331.7	275.1	430.6	1.71	-1.68	1.16	
2,661.0	12.00	44.30	2,616.5	346.1	289.4	450.9	0.75	-0.74	-0.63	
2,756.0	13.60	42.80	2,709.1	361.4	303.9	471.9	1.72	1.68	-1.58	
2,850.0	13.30	42.40	2,800.5	377.5	318.7	493.8	0.33	-0.32	-0.43	
2,945.0	11.50	47.00	2,893.3	392.0	333.0	514.1	2.16	-1.89	4.84	
3,039.0	12.80	44.50	2,985.2	405.8	347.1	533.9	1.49	1.38	-2.66	
3,133.0	12.70	45.00	3,076.9	420.6	361.7	554.6	0.16	-0.11	0.53	
3,228.0	13.00	44.70	3,169.5	435.5	376.6	575.7	0.32	0.32	-0.32	
3,323.0	13.20	46.30	3,262.0	450.6	392.0	597.2	0.44	0.21	1.68	
3,416.0	13.70	42.80	3,352.5	466.0	407.1	618.8	1.03	0.54	-3.76	
3,513.0	15.30	41.50	3,446.4	484.1	423.4	643.1	1.68	1.65	-1.34	
3,606.0	17.30	41.00	3,535.7	503.7	440.6	669.2	2.16	2.15	-0.54	
3,701.0	18.10	39.60	3,626.2	525.7	459.3	698.0	0.95	0.84	-1.47	
3,797.0	18.80	39.40	3,717.2	549.2	478.6	728.4	0.73	0.73	-0.21	
3,891.0	16.50	41.30	3,806.8	570.9	497.1	756.9	2.52	-2.45	2.02	
3,986.0	13.70	42.20	3,898.5	589.4	513.5	781.6	2.96	-2.95	0.95	
4,081.0	13.90	43.60	3,990.8	606.0	528.9	804.3	0.41	0.21	1.47	
4,175.0	14.00	44.90	4,082.0	622.2	544.8	826.9	0.35	0.11	1.38	
4,270.0	13.50	45.90	4,174.3	638.1	560.8	849.5	0.58	-0.53	1.05	
4,364.0	13.30	51.00	4,265.7	652.5	577.1	871.1	1.27	-0.21	5.43	
4,459.0	12.90	47.00	4,358.2	666.6	593.4	892.4	1.04	-0.42	-4.21	
4,554.0	12.80	46.60	4,450.9	681.1	608.8	913.5	0.14	-0.11	-0.42	
4,648.0	13.40	45.20	4,542.4	695.9	624.1	934.7	0.72	0.64	-1.49	
4,742.0	13.60	44.50	4,633.8	711.5	639.5	956.6	0.27	0.21	-0.74	
4,837.0	11.30	44.30	4,726.6	726.1	653.9	977.1	2.42	-2.42	-0.21	
4,932.0	8.80	43.50	4,820.1	738.0	665.4	993.7	2.64	-2.63	-0.84	
5,027.0	6.20	46.50	4,914.3	746.8	674.1	1,006.1	2.77	-2.74	3.16	
5,122.0	5.70	49.40	5,008.8	753.4	681.4	1,015.8	0.61	-0.53	3.05	
5,217.0	4.60	51.00	5,103.4	758.9	687.9	1,024.3	1.17	-1.16	1.68	
5,312.0	2.70	49.30	5,198.2	762.8	692.6	1,030.3	2.00	-2.00	-1.79	
5,406.0	2.40	56.30	5,292.1	765.3	695.9	1,034.4	0.46	-0.32	7.45	
5,501.0	1.70	64.00	5,387.0	767.0	698.8	1,037.6	0.79	-0.74	8.11	
5,691.0	0.50	112.40	5,577.0	767.9	702.1	1,040.5	0.75	-0.63	25.47	
5,813.8	0.56	110.20	5,699.8	767.5	703.2	1,040.9	0.06	0.05	-1.79	
TARGET BHL 0'FNL & 2611'FEL										
5,881.0	0.60	109.20	5,767.0	767.3	703.8	1,041.1	0.06	0.05	-1.49	
6,071.0	0.50	88.00	5,957.0	767.0	705.6	1,042.1	0.12	-0.05	-11.16	
6,256.0	0.60	126.00	6,142.0	766.4	707.2	1,042.8	0.20	0.05	20.54	
6,445.0	0.30	127.00	6,331.0	765.6	708.4	1,042.9	0.16	-0.16	0.53	
6,635.0	1.10	255.00	6,521.0	764.8	707.0	1,041.4	0.69	0.42	67.37	

Company:	Great Western	Local Co-ordinate Reference:	Well H-Y 29-21-3
Project:	SEC.29-T6N-R67W	TVD Reference:	WELL @ 4798.0ft (Original Well Elev)
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Well:	H-Y 29-21-3	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)
6,824.0	0.80	314.00	6,709.9	765.2	704.3	1,039.9	0.51	-0.16	31.22
6,921.2	0.90	313.10	6,807.2	766.2	703.3	1,040.0	0.10	0.10	-0.92
TARGET CIRCLE 0'FNL & 2611'FEL									
7,016.0	1.00	312.40	6,901.9	767.3	702.1	1,040.0	0.10	0.10	-0.74
7,204.0	0.70	316.30	7,089.9	769.2	700.1	1,040.1	0.16	-0.16	2.07
7,363.0	0.50	289.40	7,248.9	770.2	698.8	1,039.9	0.21	-0.13	-16.92
7,413.0	0.50	289.40	7,298.9	770.3	698.4	1,039.8	0.00	0.00	0.00

Checked By: _____	Approved By: _____	Date: _____
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