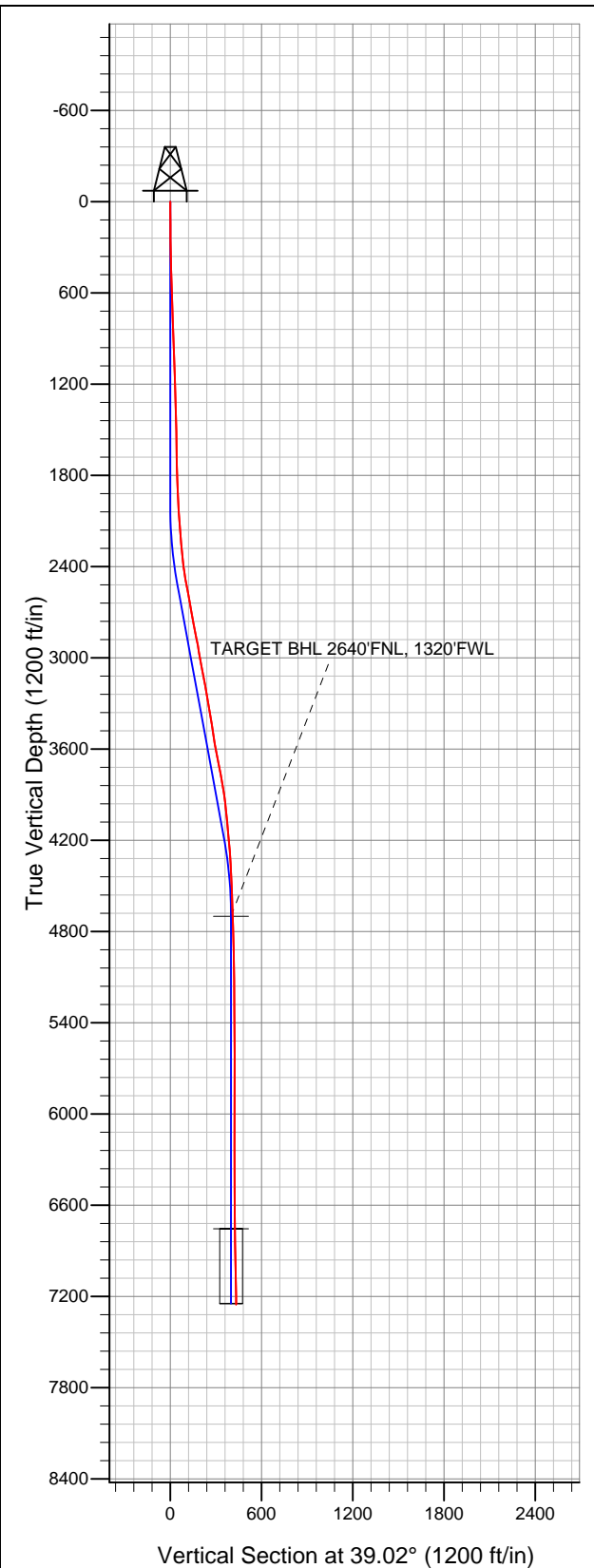


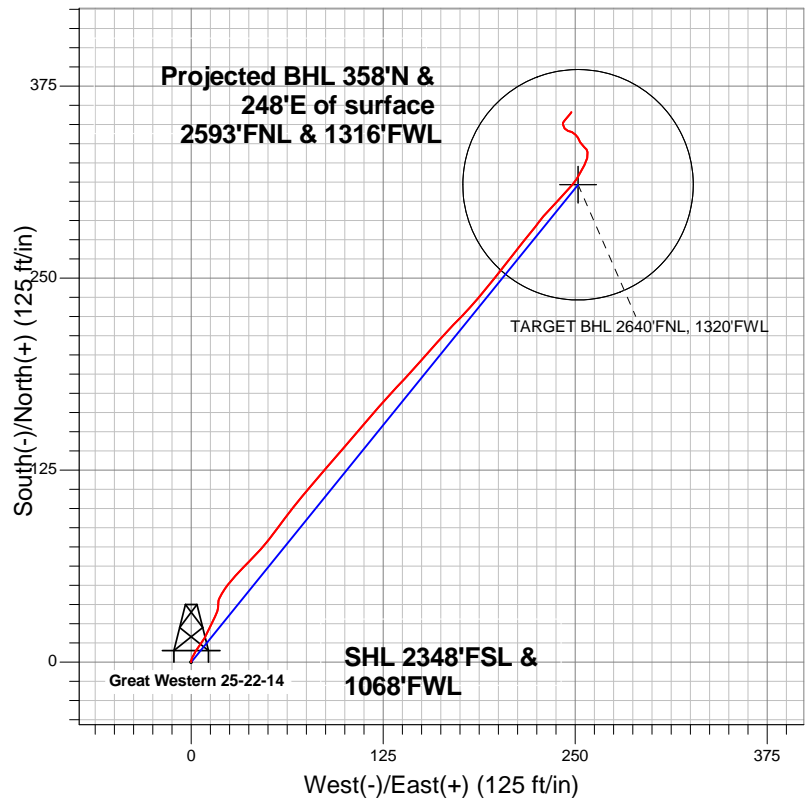
Well Name: Great Western 25-22-14

Surface Location: Great Western 25-12-15 Pad Sec.25-T6N-R67W
North American Datum 1983 US State Plane 1983Colorado Northern Zone
Ground Elevation: 4751.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1410042.84	3181549.28	40.457136	-104.847586	
Original Well Elev			WELL @ 4765.0ft (Original Well Elev)			



Great Western



LEGEND

- Wellbore #1
- Great Western 25-22-14, Wellbore #1, Plan #2 (8-10-12) R V0
- Survey #1

Final Survey Plot

Projected Final Survey -
7282'MD & 7253'TVD @ 434'VS
1.30 deg Inc 39.20 deg AZ

Project: SEC.25-T6N-R67W
Site: Great Western 25-12-15 Pad Sec.25-T6N-R67W
Well: Great Western 25-22-14
Plan: Wellbore #1



Great Western

SEC.25-T6N-R67W

Great Western 25-12-15 Pad Sec.25-T6N-R67W

Great Western 25-22-14

Wellbore #1

Survey: Survey #1

Standard Survey Report

20 August, 2012

Company:	Great Western	Local Co-ordinate Reference:	Well Great Western 25-22-14
Project:	SEC.25-T6N-R67W	TVD Reference:	WELL @ 4765.0ft (Original Well Elev)
Site:	Great Western 25-12-15 Pad Sec.25-T6N-R67W	MD Reference:	WELL @ 4765.0ft (Original Well Elev)
Well:	Great Western 25-22-14	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Landmark

Project	SEC.25-T6N-R67W, Weld County, Colorado		
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	Great Western 25-12-15 Pad Sec.25-T6N-R67W				
Site Position:		Northing:	1,410,085.03ft	Latitude:	40.457253
From:	Lat/Long	Easting:	3,181,487.19ft	Longitude:	-104.847808
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.42 °

Well	Great Western 25-22-14					
Well Position	+N-S	0.0 ft	Northing:	1,410,042.84 ft	Latitude:	40.457136
	+E-W	0.0 ft	Easting:	3,181,549.28 ft	Longitude:	-104.847586
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,751.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	8/10/2012	8.76	67.04	53,031

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	39.02	

Survey Program	Date	8/17/2012			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
58.0	7,282.0	Survey #1 (Wellbore #1)	MWD	MWD - Standard	

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)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
58.0	0.50	352.80	58.0	0.3	0.0	0.2	0.86	0.86	0.00	
151.0	0.50	27.00	151.0	1.0	0.1	0.9	0.32	0.00	36.77	
245.0	0.80	4.90	245.0	2.0	0.3	1.8	0.41	0.32	-23.51	
337.0	1.00	33.00	337.0	3.3	0.8	3.1	0.52	0.22	30.54	
428.0	1.20	26.60	428.0	4.9	1.7	4.8	0.26	0.22	-7.03	
519.0	1.80	31.30	518.9	6.9	2.9	7.2	0.67	0.66	5.16	
610.0	2.20	32.90	609.9	9.6	4.6	10.3	0.44	0.44	1.76	
696.0	2.40	39.00	695.8	12.4	6.6	13.8	0.37	0.23	7.09	
791.0	2.40	28.00	790.7	15.7	8.8	17.7	0.48	0.00	-11.58	
886.0	1.90	24.50	885.7	18.9	10.4	21.2	0.54	-0.53	-3.68	
981.0	1.90	26.30	980.6	21.7	11.7	24.3	0.06	0.00	1.89	
1,076.0	2.00	26.50	1,075.5	24.6	13.1	27.4	0.11	0.11	0.21	

Company:	Great Western	Local Co-ordinate Reference:	Well Great Western 25-22-14
Project:	SEC.25-T6N-R67W	TVD Reference:	WELL @ 4765.0ft (Original Well Elev)
Site:	Great Western 25-12-15 Pad Sec.25-T6N-R67W	MD Reference:	WELL @ 4765.0ft (Original Well Elev)
Well:	Great Western 25-22-14	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)
1,171.0	1.80	26.10	1,170.5	27.5	14.5	30.5	0.21	-0.21	-0.42
1,266.0	1.90	27.20	1,265.4	30.2	15.9	33.5	0.11	0.11	1.16
1,361.0	1.60	14.80	1,360.4	32.9	17.0	36.2	0.51	-0.32	-13.05
1,456.0	1.40	6.20	1,455.4	35.3	17.4	38.4	0.32	-0.21	-9.05
1,551.0	1.20	3.70	1,550.3	37.5	17.6	40.2	0.22	-0.21	-2.63
1,645.0	0.90	0.00	1,644.3	39.2	17.7	41.6	0.33	-0.32	-3.94
1,740.0	2.10	21.30	1,739.3	41.6	18.3	43.8	1.37	1.26	22.42
1,835.0	2.10	34.30	1,834.2	44.6	19.9	47.2	0.50	0.00	13.68
1,930.0	2.40	33.10	1,929.2	47.7	22.0	50.9	0.32	0.32	-1.26
2,025.0	3.40	38.30	2,024.0	51.6	24.8	55.7	1.09	1.05	5.47
2,120.0	4.00	43.60	2,118.8	56.2	28.9	61.8	0.73	0.63	5.58
2,215.0	4.80	42.90	2,213.6	61.5	33.9	69.1	0.84	0.84	-0.74
2,310.0	5.80	45.50	2,308.2	67.8	40.0	77.9	1.08	1.05	2.74
2,405.0	6.90	40.10	2,402.6	75.5	47.1	88.3	1.32	1.16	-5.68
2,500.0	10.10	36.40	2,496.5	86.6	55.7	102.4	3.42	3.37	-3.89
2,595.0	11.30	38.20	2,589.9	100.6	66.4	120.0	1.31	1.26	1.89
2,690.0	10.00	41.00	2,683.2	114.2	77.6	137.5	1.47	-1.37	2.95
2,785.0	10.40	40.30	2,776.7	126.9	88.5	154.4	0.44	0.42	-0.74
2,880.0	11.00	40.50	2,870.1	140.4	100.0	172.0	0.63	0.63	0.21
2,975.0	9.80	41.00	2,963.5	153.4	111.2	189.1	1.27	-1.26	0.53
3,069.0	10.50	40.60	3,056.0	165.9	122.0	205.7	0.75	0.74	-0.43
3,164.0	10.60	42.90	3,149.4	178.9	133.6	223.1	0.46	0.11	2.42
3,259.0	10.40	43.10	3,242.8	191.5	145.4	240.3	0.21	-0.21	0.21
3,349.0	9.50	40.50	3,331.5	203.1	155.7	255.9	1.12	-1.00	-2.89
3,444.0	9.20	42.90	3,425.2	214.6	166.0	271.3	0.52	-0.32	2.53
3,538.0	8.80	44.70	3,518.1	225.2	176.2	285.9	0.52	-0.43	1.91
3,633.0	10.20	40.60	3,611.8	236.8	186.8	301.6	1.64	1.47	-4.32
3,728.0	10.80	38.50	3,705.2	250.2	197.8	318.9	0.75	0.63	-2.21
3,822.0	11.20	37.50	3,797.4	264.3	208.8	336.8	0.47	0.43	-1.06
3,917.0	8.40	39.60	3,891.0	277.0	218.9	353.0	2.97	-2.95	2.21
4,011.0	6.20	36.40	3,984.3	286.3	226.2	364.9	2.38	-2.34	-3.40
4,106.0	5.30	44.10	4,078.8	293.6	232.3	374.4	1.25	-0.95	8.11
4,201.0	5.00	43.30	4,173.4	299.8	238.2	382.9	0.32	-0.32	-0.84
4,295.0	4.70	41.20	4,267.1	305.7	243.6	390.8	0.37	-0.32	-2.23
4,390.0	3.30	43.00	4,361.8	310.6	248.0	397.5	1.48	-1.47	1.89
4,485.0	2.60	32.70	4,456.7	314.4	251.0	402.3	0.92	-0.74	-10.84
4,579.0	2.10	23.00	4,550.6	317.8	252.9	406.1	0.68	-0.53	-10.32
4,728.0	1.86	32.04	4,699.6	322.3	255.2	411.1	0.26	-0.16	6.07
TARGET BHL 2640'FNL, 1320'FWL									
4,770.0	1.80	35.00	4,741.5	323.5	256.0	412.5	0.26	-0.14	7.05
4,960.0	1.30	5.50	4,931.5	328.0	257.9	417.2	0.49	-0.26	-15.53
5,150.0	1.10	356.00	5,121.4	332.0	258.0	420.4	0.15	-0.11	-5.00
5,339.0	1.50	307.00	5,310.4	335.3	255.9	421.6	0.60	0.21	-25.93
5,524.0	1.10	339.10	5,495.3	338.4	253.3	422.4	0.44	-0.22	17.35
5,719.0	0.90	325.00	5,690.3	341.4	251.7	423.8	0.16	-0.10	-7.23
5,876.0	1.00	314.50	5,847.3	343.4	250.1	424.2	0.13	0.06	-6.69
6,033.0	1.00	300.50	6,004.3	345.1	247.9	424.2	0.16	0.00	-8.92
6,192.0	1.00	275.30	6,163.2	345.9	245.3	423.2	0.27	0.00	-15.85
6,350.0	1.10	327.70	6,321.2	347.3	243.1	422.9	0.59	0.06	33.16
6,539.0	0.60	355.30	6,510.2	349.8	242.1	424.2	0.33	-0.26	14.60
6,697.0	0.30	14.40	6,668.2	351.0	242.1	425.2	0.21	-0.19	12.09
6,783.6	0.47	31.12	6,754.7	351.6	242.4	425.7	0.24	0.20	19.32
TARGET CIRCLE 2640'FNL & 1320'FWL									
6,887.0	0.70	39.60	6,858.2	352.4	243.0	426.8	0.24	0.22	8.19

Company:	Great Western	Local Co-ordinate Reference:	Well Great Western 25-22-14
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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)	
7,232.0	1.30	39.20	7,203.1	357.1	246.8	432.8	0.17	0.17	-0.12	
7,282.0	1.30	39.20	7,253.1	358.0	247.5	433.9	0.00	0.00	0.00	

Checked By: _____	Approved By: _____	Date: _____
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