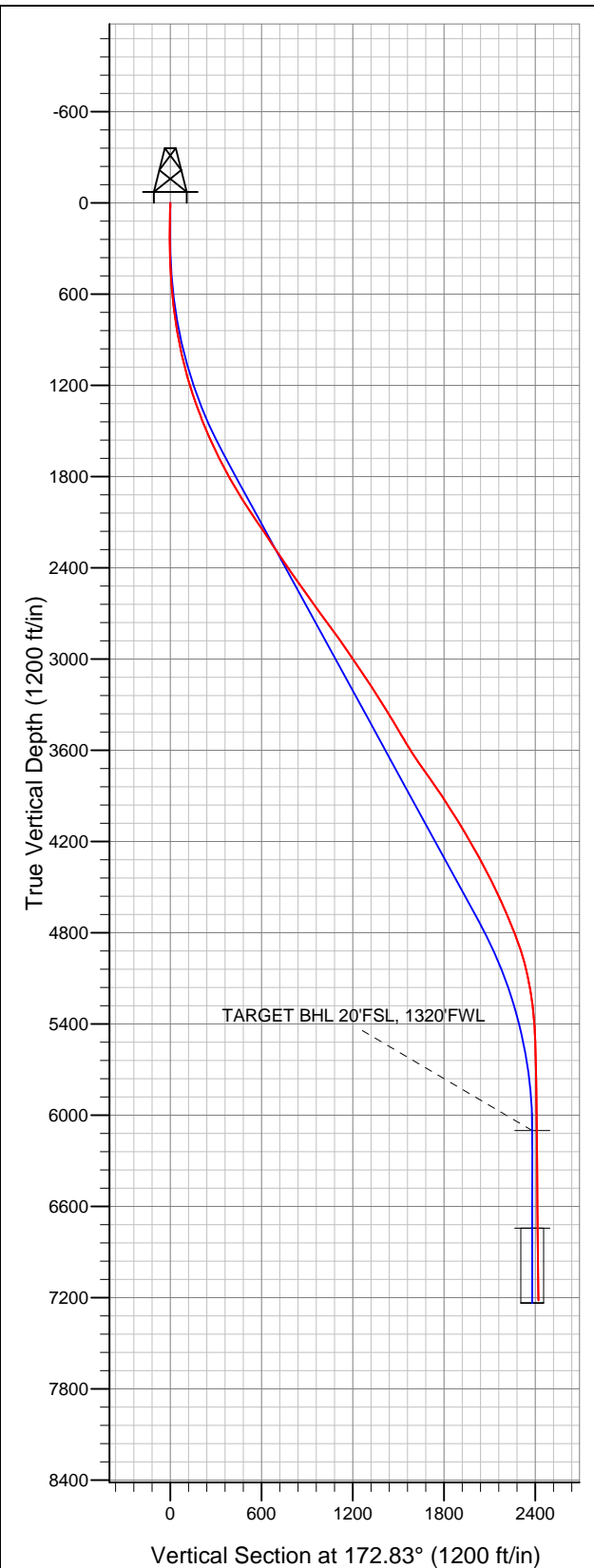


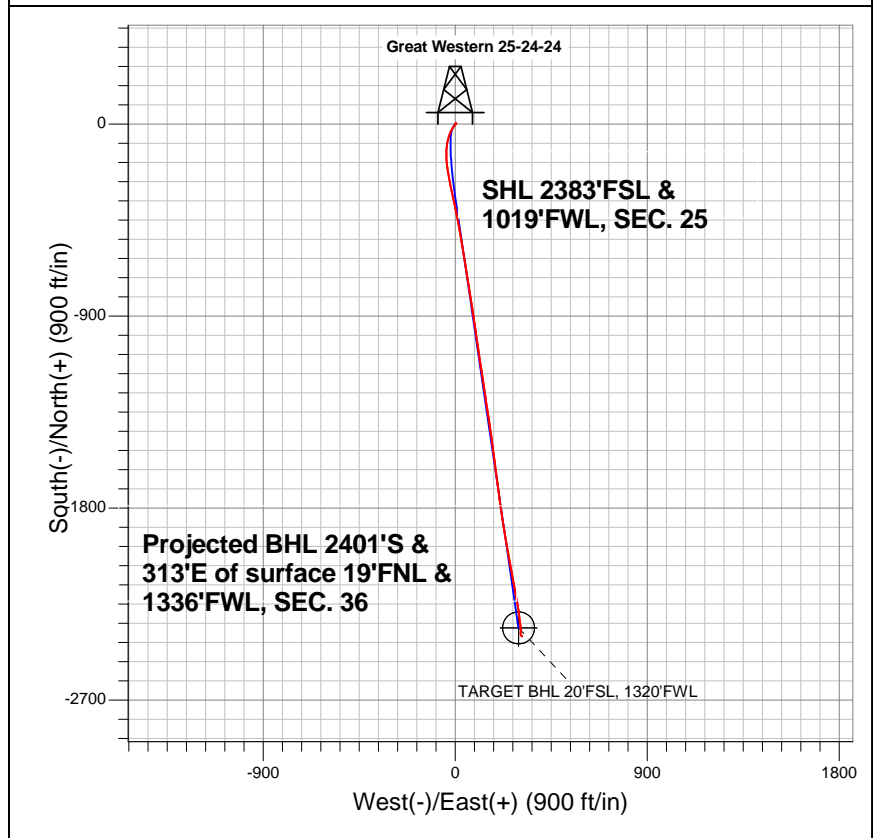
Well Name: Great Western 25-24-24

Surface Location: Great Western 25-12-15 Pad Sec.25-T6N-R67W
 North American Datum 1983 US State Plane 1983Colorado Northern Zone
 Ground Elevation: 4752.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1410077.09	3181499.49	40.457231	-104.847764	
Original Well Elev		WELL @ 4766.0ft (Original Well Elev)				



Great Western



LEGEND

- Wellbore #1
- Great Western 25-24-24, Wellbore #1, Plan #2 (7-24-12) R V0
- Survey #1

Final Survey Plot

Projected Final Survey -
 7850'MD & 7217'TVD @ 2422'VS
 1.00 deg Inc 132.00 deg AZ

Project: SEC.25-T6N-R67W
 Site: Great Western 25-12-15 Pad Sec.25-T6N-R67W
 Well: Great Western 25-24-24
 Plan: Wellbore #1



Great Western

SEC.25-T6N-R67W

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

Great Western 25-24-24

Wellbore #1

Survey: Survey #1

Standard Survey Report

31 July, 2012

Company:	Great Western	Local Co-ordinate Reference:	Well Great Western 25-24-24
Project:	SEC.25-T6N-R67W	TVD Reference:	WELL @ 4766.0ft (Original Well Elev)
Site:	Great Western 25-12-15 Pad Sec.25-T6N-R67W	MD Reference:	WELL @ 4766.0ft (Original Well Elev)
Well:	Great Western 25-24-24	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 25-24-24					
Well Position	+N/-S	0.0 ft	Northing:	1,410,077.09 ft	Latitude:	40.457231
	+E/-W	0.0 ft	Easting:	3,181,499.49 ft	Longitude:	-104.847764
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,752.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	7/24/2012	8.77	67.05	53,036

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	172.83	

Survey Program		Date	7/31/2012		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
57.0	7,850.0	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 1	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
	57.0	1.30	21.10	57.0	0.6	0.2	-0.6	2.28	2.28	0.00
	149.0	2.20	55.20	149.0	2.6	2.1	-2.3	1.46	0.98	37.07
	243.0	1.00	80.70	242.9	3.7	4.3	-3.2	1.45	-1.28	27.13
	336.0	1.60	206.90	335.9	2.7	4.6	-2.1	2.51	0.65	135.70
	427.0	4.20	221.90	426.8	-0.9	1.8	1.1	2.95	2.86	16.48
	518.0	6.00	219.00	517.4	-7.1	-3.5	6.6	2.00	1.98	-3.19
	609.0	7.40	212.40	607.8	-15.7	-9.6	14.4	1.75	1.54	-7.25
	692.0	8.90	208.00	690.0	-25.9	-15.5	23.8	1.96	1.81	-5.30
	790.0	9.80	205.20	786.7	-40.1	-22.6	37.0	1.03	0.92	-2.86
	885.0	11.00	199.70	880.1	-56.0	-29.1	51.9	1.64	1.26	-5.79
	980.0	12.90	193.60	973.0	-74.8	-34.6	69.9	2.40	2.00	-6.42
1,075.0	15.00	188.60	1,065.2	-97.3	-39.0	91.7	2.55	2.21	-5.26	

Company:	Great Western	Local Co-ordinate Reference:	Well Great Western 25-24-24
Project:	SEC.25-T6N-R67W	TVD Reference:	WELL @ 4766.0ft (Original Well Elev)
Site:	Great Western 25-12-15 Pad Sec.25-T6N-R67W	MD Reference:	WELL @ 4766.0ft (Original Well Elev)
Well:	Great Western 25-24-24	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)	
1,170.0	16.60	182.80	1,156.6	-123.0	-41.5	116.9	2.36	1.68	-6.11	
1,265.0	18.40	178.80	1,247.2	-151.6	-41.8	145.2	2.28	1.89	-4.21	
1,360.0	19.60	174.00	1,337.1	-182.4	-39.8	176.0	2.07	1.26	-5.05	
1,455.0	21.50	170.90	1,426.0	-215.4	-35.4	209.3	2.30	2.00	-3.26	
1,549.0	23.30	170.00	1,512.9	-250.8	-29.5	245.1	1.95	1.91	-0.96	
1,644.0	25.10	167.90	1,599.6	-289.0	-22.0	284.0	2.10	1.89	-2.21	
1,739.0	26.80	168.20	1,685.0	-329.6	-13.4	325.4	1.79	1.79	0.32	
1,834.0	28.40	168.10	1,769.2	-372.7	-4.3	369.3	1.68	1.68	-0.11	
1,929.0	30.10	168.60	1,852.1	-418.2	5.0	415.5	1.81	1.79	0.53	
2,021.0	32.20	168.80	1,930.8	-464.8	14.4	463.0	2.29	2.28	0.22	
2,116.0	33.10	171.60	2,010.8	-515.3	23.1	514.2	1.85	0.95	2.95	
2,211.0	33.90	170.70	2,090.0	-567.1	31.1	566.6	0.99	0.84	-0.95	
2,306.0	34.70	170.20	2,168.5	-619.9	40.0	620.1	0.89	0.84	-0.53	
2,401.0	33.90	169.80	2,247.0	-672.7	49.3	673.5	0.87	-0.84	-0.42	
2,496.0	32.90	170.40	2,326.3	-724.2	58.3	725.8	1.11	-1.05	0.63	
2,591.0	33.70	171.10	2,405.7	-775.6	66.7	777.9	0.93	0.84	0.74	
2,686.0	35.70	171.80	2,483.8	-829.1	74.7	832.0	2.15	2.11	0.74	
2,781.0	36.60	172.10	2,560.5	-884.6	82.6	888.0	0.97	0.95	0.32	
2,876.0	35.30	171.90	2,637.4	-939.8	90.3	943.8	1.37	-1.37	-0.21	
2,970.0	35.30	170.70	2,714.1	-993.5	98.5	998.1	0.74	0.00	-1.28	
3,065.0	36.30	171.90	2,791.2	-1,048.5	106.9	1,053.6	1.29	1.05	1.26	
3,160.0	36.20	170.70	2,867.8	-1,104.0	115.4	1,109.8	0.75	-0.11	-1.26	
3,255.0	34.60	171.60	2,945.2	-1,158.4	123.9	1,164.8	1.77	-1.68	0.95	
3,348.0	34.10	171.60	3,022.0	-1,210.3	131.6	1,217.2	0.54	-0.54	0.00	
3,443.0	33.70	171.90	3,100.8	-1,262.7	139.2	1,270.2	0.46	-0.42	0.32	
3,537.0	33.30	171.60	3,179.2	-1,314.1	146.6	1,322.1	0.46	-0.43	-0.32	
3,632.0	32.40	171.40	3,259.0	-1,365.0	154.2	1,373.6	0.95	-0.95	-0.21	
3,727.0	31.70	171.20	3,339.6	-1,414.8	161.9	1,424.0	0.75	-0.74	-0.21	
3,821.0	30.70	172.10	3,420.0	-1,463.0	168.9	1,472.7	1.17	-1.06	0.96	
3,916.0	30.40	171.80	3,501.8	-1,510.8	175.7	1,521.0	0.35	-0.32	-0.32	
4,010.0	32.50	173.20	3,582.0	-1,559.5	182.1	1,570.0	2.37	2.23	1.49	
4,105.0	33.20	173.20	3,661.8	-1,610.6	188.2	1,621.5	0.74	0.74	0.00	
4,200.0	35.10	172.60	3,740.4	-1,663.5	194.8	1,674.8	2.03	2.00	-0.63	
4,294.0	35.50	172.30	3,817.1	-1,717.4	201.9	1,729.2	0.46	0.43	-0.32	
4,389.0	33.50	172.30	3,895.4	-1,770.7	209.1	1,783.0	2.11	-2.11	0.00	
4,484.0	32.60	171.10	3,975.0	-1,822.0	216.6	1,834.8	1.17	-0.95	-1.26	
4,578.0	32.00	171.20	4,054.5	-1,871.6	224.3	1,885.0	0.64	-0.64	0.11	
4,673.0	30.50	170.70	4,135.7	-1,920.3	232.1	1,934.2	1.60	-1.58	-0.53	
4,765.0	29.80	170.20	4,215.2	-1,965.8	239.7	1,980.4	0.81	-0.76	-0.54	
4,860.0	29.60	170.00	4,297.8	-2,012.2	247.8	2,027.4	0.23	-0.21	-0.21	
4,955.0	27.60	169.60	4,381.2	-2,057.0	255.9	2,072.8	2.11	-2.11	-0.42	
5,050.0	25.90	168.90	4,466.0	-2,099.0	263.9	2,115.5	1.82	-1.79	-0.74	
5,144.0	24.50	169.60	4,551.0	-2,138.3	271.3	2,155.4	1.52	-1.49	0.74	
5,239.0	24.40	169.50	4,637.5	-2,177.0	278.5	2,194.7	0.11	-0.11	-0.11	
5,334.0	22.80	169.50	4,724.6	-2,214.4	285.4	2,232.7	1.68	-1.68	0.00	
5,429.0	21.30	170.40	4,812.6	-2,249.5	291.6	2,268.3	1.62	-1.58	0.95	
5,524.0	18.50	171.80	4,901.9	-2,281.4	296.7	2,300.6	2.99	-2.95	1.47	
5,619.0	15.40	173.90	4,992.8	-2,308.9	300.1	2,328.3	3.33	-3.26	2.21	
5,714.0	11.80	173.00	5,085.1	-2,331.1	302.7	2,350.6	3.80	-3.79	-0.95	
5,809.0	9.60	172.50	5,178.5	-2,348.6	304.9	2,368.3	2.32	-2.32	-0.53	
5,904.0	6.90	170.90	5,272.5	-2,362.1	306.8	2,381.9	2.85	-2.84	-1.68	
5,998.0	5.00	178.40	5,366.0	-2,371.7	307.8	2,391.6	2.18	-2.02	7.98	
6,093.0	2.90	190.90	5,460.7	-2,378.2	307.5	2,398.0	2.38	-2.21	13.16	
6,187.0	1.80	188.30	5,554.7	-2,382.0	306.8	2,401.7	1.18	-1.17	-2.77	

Company:	Great Western	Local Co-ordinate Reference:	Well Great Western 25-24-24
Project:	SEC.25-T6N-R67W	TVD Reference:	WELL @ 4766.0ft (Original Well Elev)
Site:	Great Western 25-12-15 Pad Sec.25-T6N-R67W	MD Reference:	WELL @ 4766.0ft (Original Well Elev)
Well:	Great Western 25-24-24	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)	
6,284.0	1.50	189.50	5,651.6	-2,384.8	306.4	2,404.4	0.31	-0.31	1.24	
6,474.0	0.80	180.90	5,841.6	-2,388.6	306.0	2,408.1	0.38	-0.37	-4.53	
6,663.0	0.60	163.10	6,030.6	-2,390.8	306.2	2,410.4	0.16	-0.11	-9.42	
6,732.2	0.53	160.84	6,099.7	-2,391.5	306.4	2,411.0	0.11	-0.11	-3.27	
TARGET BHL 20'FSL, 1320'FWL										
6,853.0	0.40	154.90	6,220.6	-2,392.4	306.8	2,412.0	0.11	-0.10	-4.91	
7,042.0	0.40	176.30	6,409.6	-2,393.6	307.1	2,413.2	0.08	0.00	11.32	
7,232.0	0.50	165.00	6,599.6	-2,395.1	307.4	2,414.7	0.07	0.05	-5.95	
7,375.1	0.64	147.94	6,742.6	-2,396.4	308.0	2,416.1	0.15	0.10	-11.92	
TARGET CIRCLE 20'FSL & 1320'FWL										
7,422.0	0.70	144.00	6,789.5	-2,396.8	308.3	2,416.6	0.15	0.12	-8.40	
7,612.0	1.00	128.00	6,979.5	-2,398.8	310.3	2,418.8	0.20	0.16	-8.42	
7,800.0	1.00	132.00	7,167.5	-2,400.9	312.8	2,421.2	0.04	0.00	2.13	
7,850.0	1.00	132.00	7,217.5	-2,401.5	313.4	2,421.8	0.00	0.00	0.00	

Checked By: _____	Approved By: _____	Date: _____
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