

BONANZA CREEK ENERGY OPERATING

Well Name: **State North Platte 41-44-26HNB**

Surface Location: State North Platte P-26 Pad Sec.26-T5N-R63W
North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone

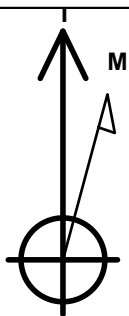
Ground Elevation: 4561.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1381369.92	3307466.61	40.375010	-104.396410	

RKB - 13' WELL @ 4574.0ft (RKB - 13')

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
BHL 470'FSL & 820'FEL	6363.0	-3843.5	-119.8	Point
CASING POINT 631'FNL & 820'FEL	6363.0	247.7	-55.7	Point



Azimuths to True North
Magnetic North: 8.44°

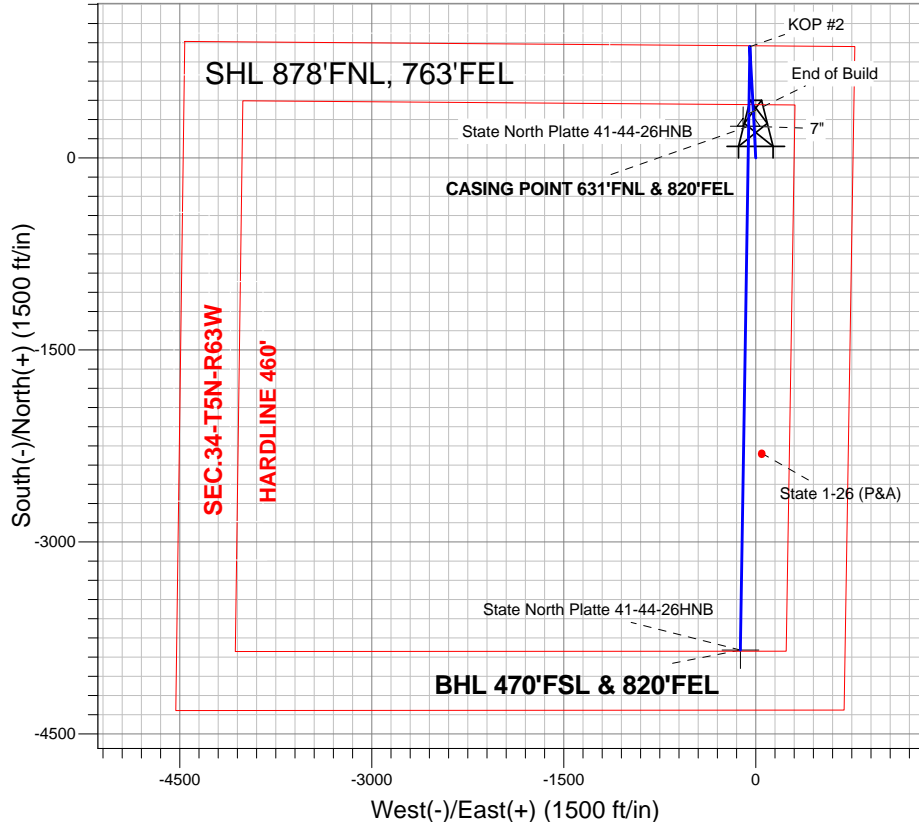
Magnetic Field
Strength: 52983.0nT
Dip Angle: 67.03°
Date: 2/15/2013
Model: IGRF2010

ANNOTATIONS

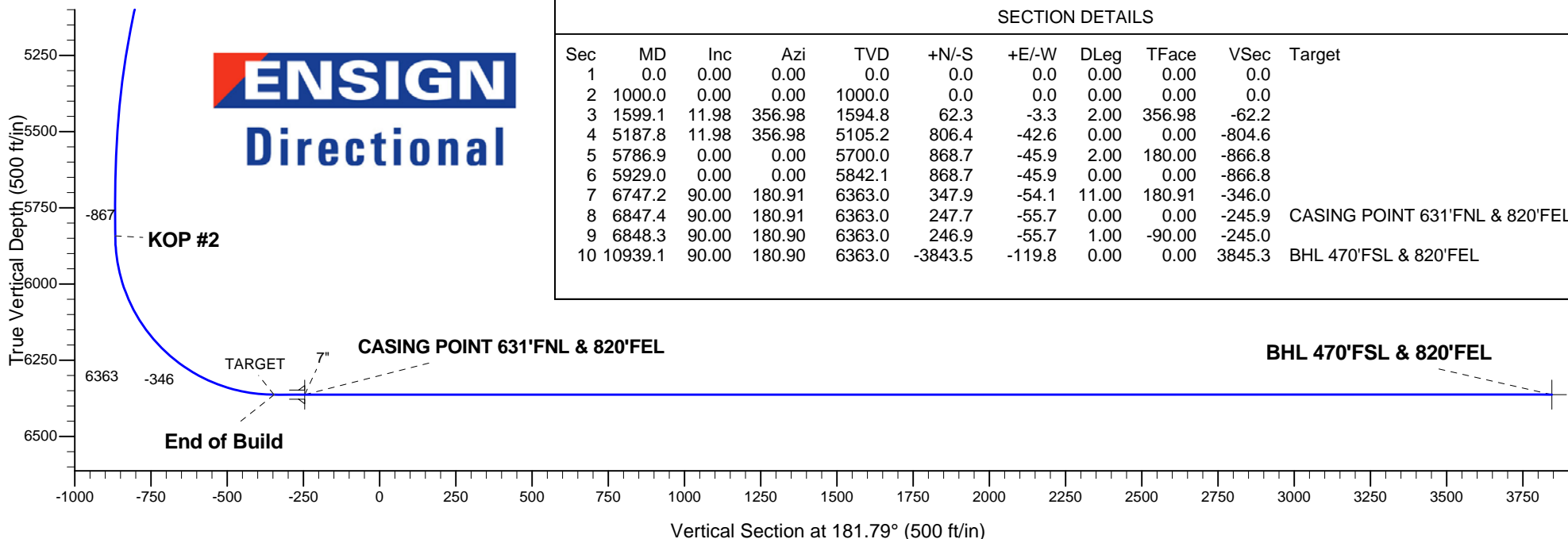
TVD	MD	Annotation
1000.0	1000.0	KOP #1
5842.1	5929.0	KOP #2
6363.0	6747.4	End of Build

State North Platte P-26 Pad Sec.26-T5N-R63W
State North Platte 41-44-26HNB
Plan #2 (2-15-13)

South(-)/North(+) (1500 ft/in)



ENSIGN
Directional



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1000.0	0.00	0.00	1000.0	0.0	0.0	0.00	0.00	0.0	
3	1599.1	11.98	356.98	1594.8	62.3	-3.3	2.00	356.98	-62.2	
4	5187.8	11.98	356.98	5105.2	806.4	-42.6	0.00	0.00	-804.6	
5	5786.9	0.00	0.00	5700.0	868.7	-45.9	2.00	180.00	-866.8	
6	5929.0	0.00	0.00	5842.1	868.7	-45.9	0.00	0.00	-866.8	
7	6747.2	90.00	180.91	6363.0	347.9	-54.1	11.00	180.91	-346.0	
8	6847.4	90.00	180.91	6363.0	247.7	-55.7	0.00	0.00	-245.9	CASING POINT 631'FNL & 820'FEL
9	6848.3	90.00	180.90	6363.0	246.9	-55.7	1.00	-90.00	-245.0	
10	10939.1	90.00	180.90	6363.0	-3843.5	-119.8	0.00	0.00	3845.3	BHL 470'FSL & 820'FEL

Vertical Section at 181.79° (500 ft/in)



Directional

BONANZA CREEK ENERGY OPERATING

SEC.26-T5N-R63W

State North Platte P-26 Pad Sec.26-T5N-R63W

State North Platte 41-44-26HNB

Wellbore #1

Plan: Plan #2 (2-15-13)

Standard Planning Report

19 February, 2013

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,599.1	11.98	356.98	1,594.8	62.3	-3.3	2.00	2.00	0.00	356.98	
5,187.8	11.98	356.98	5,105.2	806.4	-42.6	0.00	0.00	0.00	0.00	
5,786.9	0.00	0.00	5,700.0	868.7	-45.9	2.00	-2.00	0.00	180.00	
5,929.0	0.00	0.00	5,842.1	868.7	-45.9	0.00	0.00	0.00	0.00	
6,747.2	90.00	180.91	6,363.0	347.9	-54.1	11.00	11.00	0.00	180.91	
6,847.4	90.00	180.91	6,363.0	247.7	-55.7	0.00	0.00	0.00	0.00	CASING POINT 63
6,848.3	90.00	180.90	6,363.0	246.9	-55.7	1.00	0.00	-1.00	-90.00	
10,939.1	90.00	180.90	6,363.0	-3,843.5	-119.8	0.00	0.00	0.00	0.00	BHL 470'FSL & 820'

Database:	Landmark	Local Co-ordinate Reference:	Well State North Platte 41-44-26HNB
Company:	BONANZA CREEK ENERGY OPERATING	TVD Reference:	WELL @ 4574.0ft (RKB - 13')
Project:	SEC.26-T5N-R63W	MD Reference:	WELL @ 4574.0ft (RKB - 13')
Site:	State North Platte P-26 Pad	North Reference:	True
	Sec.26-T5N-R63W		
Well:	State North Platte 41-44-26HNB	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 (2-15-13)		

Planned 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
40.0	0.00	0.00	40.0	0.0	0.0	0.0	0.00	0.00	0.00
80.0	0.00	0.00	80.0	0.0	0.0	0.0	0.00	0.00	0.00
120.0	0.00	0.00	120.0	0.0	0.0	0.0	0.00	0.00	0.00
160.0	0.00	0.00	160.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
240.0	0.00	0.00	240.0	0.0	0.0	0.0	0.00	0.00	0.00
280.0	0.00	0.00	280.0	0.0	0.0	0.0	0.00	0.00	0.00
320.0	0.00	0.00	320.0	0.0	0.0	0.0	0.00	0.00	0.00
360.0	0.00	0.00	360.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
440.0	0.00	0.00	440.0	0.0	0.0	0.0	0.00	0.00	0.00
480.0	0.00	0.00	480.0	0.0	0.0	0.0	0.00	0.00	0.00
520.0	0.00	0.00	520.0	0.0	0.0	0.0	0.00	0.00	0.00
560.0	0.00	0.00	560.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
640.0	0.00	0.00	640.0	0.0	0.0	0.0	0.00	0.00	0.00
680.0	0.00	0.00	680.0	0.0	0.0	0.0	0.00	0.00	0.00
720.0	0.00	0.00	720.0	0.0	0.0	0.0	0.00	0.00	0.00
760.0	0.00	0.00	760.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
840.0	0.00	0.00	840.0	0.0	0.0	0.0	0.00	0.00	0.00
880.0	0.00	0.00	880.0	0.0	0.0	0.0	0.00	0.00	0.00
920.0	0.00	0.00	920.0	0.0	0.0	0.0	0.00	0.00	0.00
960.0	0.00	0.00	960.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP #1									
1,040.0	0.80	356.98	1,040.0	0.3	0.0	-0.3	2.00	2.00	0.00
1,080.0	1.60	356.98	1,080.0	1.1	-0.1	-1.1	2.00	2.00	0.00
1,120.0	2.40	356.98	1,120.0	2.5	-0.1	-2.5	2.00	2.00	0.00
1,160.0	3.20	356.98	1,159.9	4.5	-0.2	-4.5	2.00	2.00	0.00
1,200.0	4.00	356.98	1,199.8	7.0	-0.4	-7.0	2.00	2.00	0.00
1,240.0	4.80	356.98	1,239.7	10.0	-0.5	-10.0	2.00	2.00	0.00
1,280.0	5.60	356.98	1,279.6	13.7	-0.7	-13.6	2.00	2.00	0.00
1,320.0	6.40	356.98	1,319.3	17.8	-0.9	-17.8	2.00	2.00	0.00
1,360.0	7.20	356.98	1,359.1	22.6	-1.2	-22.5	2.00	2.00	0.00
1,400.0	8.00	356.98	1,398.7	27.8	-1.5	-27.8	2.00	2.00	0.00
1,440.0	8.80	356.98	1,438.3	33.7	-1.8	-33.6	2.00	2.00	0.00
1,480.0	9.60	356.98	1,477.8	40.1	-2.1	-40.0	2.00	2.00	0.00
1,520.0	10.40	356.98	1,517.1	47.0	-2.5	-46.9	2.00	2.00	0.00
1,560.0	11.20	356.98	1,556.4	54.5	-2.9	-54.4	2.00	2.00	0.00
1,599.1	11.98	356.98	1,594.8	62.3	-3.3	-62.2	2.00	2.00	0.00
1,600.0	11.98	356.98	1,595.6	62.5	-3.3	-62.4	0.00	0.00	0.00
1,640.0	11.98	356.98	1,634.8	70.8	-3.7	-70.7	0.00	0.00	0.00
1,680.0	11.98	356.98	1,673.9	79.1	-4.2	-78.9	0.00	0.00	0.00
1,720.0	11.98	356.98	1,713.0	87.4	-4.6	-87.2	0.00	0.00	0.00
1,760.0	11.98	356.98	1,752.1	95.7	-5.1	-95.5	0.00	0.00	0.00
1,800.0	11.98	356.98	1,791.3	104.0	-5.5	-103.8	0.00	0.00	0.00
1,840.0	11.98	356.98	1,830.4	112.3	-5.9	-112.0	0.00	0.00	0.00
1,880.0	11.98	356.98	1,869.5	120.6	-6.4	-120.3	0.00	0.00	0.00
1,920.0	11.98	356.98	1,908.7	128.9	-6.8	-128.6	0.00	0.00	0.00
1,960.0	11.98	356.98	1,947.8	137.2	-7.2	-136.9	0.00	0.00	0.00
2,000.0	11.98	356.98	1,986.9	145.4	-7.7	-145.1	0.00	0.00	0.00

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Project:	SEC.26-T5N-R63W	MD Reference:	WELL @ 4574.0ft (RKB - 13')
Site:	State North Platte P-26 Pad Sec.26-T5N-R63W	North Reference:	True
Well:	State North Platte 41-44-26HNB	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 (2-15-13)		

Planned 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)
2,040.0	11.98	356.98	2,026.0	153.7	-8.1	-153.4	0.00	0.00	0.00
2,080.0	11.98	356.98	2,065.2	162.0	-8.6	-161.7	0.00	0.00	0.00
2,120.0	11.98	356.98	2,104.3	170.3	-9.0	-170.0	0.00	0.00	0.00
2,160.0	11.98	356.98	2,143.4	178.6	-9.4	-178.2	0.00	0.00	0.00
2,200.0	11.98	356.98	2,182.5	186.9	-9.9	-186.5	0.00	0.00	0.00
2,240.0	11.98	356.98	2,221.7	195.2	-10.3	-194.8	0.00	0.00	0.00
2,280.0	11.98	356.98	2,260.8	203.5	-10.8	-203.1	0.00	0.00	0.00
2,320.0	11.98	356.98	2,299.9	211.8	-11.2	-211.3	0.00	0.00	0.00
2,360.0	11.98	356.98	2,339.1	220.1	-11.6	-219.6	0.00	0.00	0.00
2,400.0	11.98	356.98	2,378.2	228.4	-12.1	-227.9	0.00	0.00	0.00
2,440.0	11.98	356.98	2,417.3	236.7	-12.5	-236.2	0.00	0.00	0.00
2,480.0	11.98	356.98	2,456.4	245.0	-12.9	-244.4	0.00	0.00	0.00
2,520.0	11.98	356.98	2,495.6	253.3	-13.4	-252.7	0.00	0.00	0.00
2,560.0	11.98	356.98	2,534.7	261.6	-13.8	-261.0	0.00	0.00	0.00
2,600.0	11.98	356.98	2,573.8	269.8	-14.3	-269.3	0.00	0.00	0.00
2,640.0	11.98	356.98	2,613.0	278.1	-14.7	-277.5	0.00	0.00	0.00
2,680.0	11.98	356.98	2,652.1	286.4	-15.1	-285.8	0.00	0.00	0.00
2,720.0	11.98	356.98	2,691.2	294.7	-15.6	-294.1	0.00	0.00	0.00
2,760.0	11.98	356.98	2,730.3	303.0	-16.0	-302.4	0.00	0.00	0.00
2,800.0	11.98	356.98	2,769.5	311.3	-16.4	-310.6	0.00	0.00	0.00
2,840.0	11.98	356.98	2,808.6	319.6	-16.9	-318.9	0.00	0.00	0.00
2,880.0	11.98	356.98	2,847.7	327.9	-17.3	-327.2	0.00	0.00	0.00
2,920.0	11.98	356.98	2,886.9	336.2	-17.8	-335.5	0.00	0.00	0.00
2,960.0	11.98	356.98	2,926.0	344.5	-18.2	-343.7	0.00	0.00	0.00
3,000.0	11.98	356.98	2,965.1	352.8	-18.6	-352.0	0.00	0.00	0.00
3,040.0	11.98	356.98	3,004.2	361.1	-19.1	-360.3	0.00	0.00	0.00
3,080.0	11.98	356.98	3,043.4	369.4	-19.5	-368.6	0.00	0.00	0.00
3,120.0	11.98	356.98	3,082.5	377.7	-20.0	-376.8	0.00	0.00	0.00
3,160.0	11.98	356.98	3,121.6	385.9	-20.4	-385.1	0.00	0.00	0.00
3,200.0	11.98	356.98	3,160.8	394.2	-20.8	-393.4	0.00	0.00	0.00
3,240.0	11.98	356.98	3,199.9	402.5	-21.3	-401.7	0.00	0.00	0.00
3,280.0	11.98	356.98	3,239.0	410.8	-21.7	-410.0	0.00	0.00	0.00
3,320.0	11.98	356.98	3,278.1	419.1	-22.1	-418.2	0.00	0.00	0.00
3,360.0	11.98	356.98	3,317.3	427.4	-22.6	-426.5	0.00	0.00	0.00
3,400.0	11.98	356.98	3,356.4	435.7	-23.0	-434.8	0.00	0.00	0.00
3,440.0	11.98	356.98	3,395.5	444.0	-23.5	-443.1	0.00	0.00	0.00
3,480.0	11.98	356.98	3,434.7	452.3	-23.9	-451.3	0.00	0.00	0.00
3,520.0	11.98	356.98	3,473.8	460.6	-24.3	-459.6	0.00	0.00	0.00
3,560.0	11.98	356.98	3,512.9	468.9	-24.8	-467.9	0.00	0.00	0.00
3,600.0	11.98	356.98	3,552.0	477.2	-25.2	-476.2	0.00	0.00	0.00
3,640.0	11.98	356.98	3,591.2	485.5	-25.7	-484.4	0.00	0.00	0.00
3,680.0	11.98	356.98	3,630.3	493.8	-26.1	-492.7	0.00	0.00	0.00
3,720.0	11.98	356.98	3,669.4	502.1	-26.5	-501.0	0.00	0.00	0.00
3,760.0	11.98	356.98	3,708.6	510.3	-27.0	-509.3	0.00	0.00	0.00
3,800.0	11.98	356.98	3,747.7	518.6	-27.4	-517.5	0.00	0.00	0.00
3,840.0	11.98	356.98	3,786.8	526.9	-27.8	-525.8	0.00	0.00	0.00
3,880.0	11.98	356.98	3,825.9	535.2	-28.3	-534.1	0.00	0.00	0.00
3,920.0	11.98	356.98	3,865.1	543.5	-28.7	-542.4	0.00	0.00	0.00
3,960.0	11.98	356.98	3,904.2	551.8	-29.2	-550.6	0.00	0.00	0.00
4,000.0	11.98	356.98	3,943.3	560.1	-29.6	-558.9	0.00	0.00	0.00
4,040.0	11.98	356.98	3,982.5	568.4	-30.0	-567.2	0.00	0.00	0.00
4,080.0	11.98	356.98	4,021.6	576.7	-30.5	-575.5	0.00	0.00	0.00
4,120.0	11.98	356.98	4,060.7	585.0	-30.9	-583.7	0.00	0.00	0.00

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Project:	SEC.26-T5N-R63W	MD Reference:	WELL @ 4574.0ft (RKB - 13')
Site:	State North Platte P-26 Pad	North Reference:	True
	Sec.26-T5N-R63W		
Well:	State North Platte 41-44-26HNB	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 (2-15-13)		

Planned 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)
4,160.0	11.98	356.98	4,099.8	593.3	-31.3	-592.0	0.00	0.00	0.00
4,200.0	11.98	356.98	4,139.0	601.6	-31.8	-600.3	0.00	0.00	0.00
4,240.0	11.98	356.98	4,178.1	609.9	-32.2	-608.6	0.00	0.00	0.00
4,280.0	11.98	356.98	4,217.2	618.2	-32.7	-616.8	0.00	0.00	0.00
4,320.0	11.98	356.98	4,256.4	626.4	-33.1	-625.1	0.00	0.00	0.00
4,360.0	11.98	356.98	4,295.5	634.7	-33.5	-633.4	0.00	0.00	0.00
4,400.0	11.98	356.98	4,334.6	643.0	-34.0	-641.7	0.00	0.00	0.00
4,440.0	11.98	356.98	4,373.7	651.3	-34.4	-649.9	0.00	0.00	0.00
4,480.0	11.98	356.98	4,412.9	659.6	-34.9	-658.2	0.00	0.00	0.00
4,520.0	11.98	356.98	4,452.0	667.9	-35.3	-666.5	0.00	0.00	0.00
4,560.0	11.98	356.98	4,491.1	676.2	-35.7	-674.8	0.00	0.00	0.00
4,600.0	11.98	356.98	4,530.3	684.5	-36.2	-683.0	0.00	0.00	0.00
4,640.0	11.98	356.98	4,569.4	692.8	-36.6	-691.3	0.00	0.00	0.00
4,680.0	11.98	356.98	4,608.5	701.1	-37.0	-699.6	0.00	0.00	0.00
4,720.0	11.98	356.98	4,647.6	709.4	-37.5	-707.9	0.00	0.00	0.00
4,760.0	11.98	356.98	4,686.8	717.7	-37.9	-716.1	0.00	0.00	0.00
4,800.0	11.98	356.98	4,725.9	726.0	-38.4	-724.4	0.00	0.00	0.00
4,840.0	11.98	356.98	4,765.0	734.3	-38.8	-732.7	0.00	0.00	0.00
4,880.0	11.98	356.98	4,804.2	742.6	-39.2	-741.0	0.00	0.00	0.00
4,920.0	11.98	356.98	4,843.3	750.8	-39.7	-749.2	0.00	0.00	0.00
4,960.0	11.98	356.98	4,882.4	759.1	-40.1	-757.5	0.00	0.00	0.00
5,000.0	11.98	356.98	4,921.5	767.4	-40.5	-765.8	0.00	0.00	0.00
5,040.0	11.98	356.98	4,960.7	775.7	-41.0	-774.1	0.00	0.00	0.00
5,080.0	11.98	356.98	4,999.8	784.0	-41.4	-782.3	0.00	0.00	0.00
5,120.0	11.98	356.98	5,038.9	792.3	-41.9	-790.6	0.00	0.00	0.00
5,160.0	11.98	356.98	5,078.1	800.6	-42.3	-798.9	0.00	0.00	0.00
5,187.8	11.98	356.98	5,105.2	806.4	-42.6	-804.6	0.00	0.00	0.00
5,200.0	11.74	356.98	5,117.2	808.9	-42.7	-807.1	2.00	-2.00	0.00
5,240.0	10.94	356.98	5,156.4	816.7	-43.2	-815.0	2.00	-2.00	0.00
5,280.0	10.14	356.98	5,195.7	824.0	-43.5	-822.3	2.00	-2.00	0.00
5,320.0	9.34	356.98	5,235.2	830.8	-43.9	-829.0	2.00	-2.00	0.00
5,360.0	8.54	356.98	5,274.7	837.0	-44.2	-835.2	2.00	-2.00	0.00
5,400.0	7.74	356.98	5,314.3	842.6	-44.5	-840.9	2.00	-2.00	0.00
5,440.0	6.94	356.98	5,353.9	847.8	-44.8	-845.9	2.00	-2.00	0.00
5,480.0	6.14	356.98	5,393.7	852.3	-45.0	-850.5	2.00	-2.00	0.00
5,520.0	5.34	356.98	5,433.5	856.3	-45.2	-854.5	2.00	-2.00	0.00
5,560.0	4.54	356.98	5,473.3	859.7	-45.4	-857.9	2.00	-2.00	0.00
5,600.0	3.74	356.98	5,513.2	862.6	-45.6	-860.8	2.00	-2.00	0.00
5,640.0	2.94	356.98	5,553.2	864.9	-45.7	-863.1	2.00	-2.00	0.00
5,680.0	2.14	356.98	5,593.1	866.7	-45.8	-864.9	2.00	-2.00	0.00
5,720.0	1.34	356.98	5,633.1	867.9	-45.9	-866.1	2.00	-2.00	0.00
5,760.0	0.54	356.98	5,673.1	868.6	-45.9	-866.7	2.00	-2.00	0.00
5,786.9	0.00	0.00	5,700.0	868.7	-45.9	-866.8	2.00	-2.00	0.00
5,800.0	0.00	0.00	5,713.1	868.7	-45.9	-866.8	0.00	0.00	0.00
5,840.0	0.00	0.00	5,753.1	868.7	-45.9	-866.8	0.00	0.00	0.00
5,880.0	0.00	0.00	5,793.1	868.7	-45.9	-866.8	0.00	0.00	0.00
5,920.0	0.00	0.00	5,833.1	868.7	-45.9	-866.8	0.00	0.00	0.00
5,929.0	0.00	0.00	5,842.1	868.7	-45.9	-866.8	0.00	0.00	0.00
KOP #2									
5,960.0	3.41	180.91	5,873.1	867.8	-45.9	-865.9	10.99	10.99	0.00
6,000.0	7.81	180.91	5,912.9	863.9	-46.0	-862.0	11.00	11.00	0.00
6,040.0	12.21	180.91	5,952.3	856.9	-46.1	-855.1	11.00	11.00	0.00
6,080.0	16.61	180.91	5,991.0	847.0	-46.2	-845.1	11.00	11.00	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well State North Platte 41-44-26HNB
Company:	BONANZA CREEK ENERGY OPERATING	TVD Reference:	WELL @ 4574.0ft (RKB - 13')
Project:	SEC.26-T5N-R63W	MD Reference:	WELL @ 4574.0ft (RKB - 13')
Site:	State North Platte P-26 Pad Sec.26-T5N-R63W	North Reference:	True
Well:	State North Platte 41-44-26HNB	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 (2-15-13)		

Planned 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)
6,120.0	21.01	180.91	6,028.8	834.1	-46.4	-832.2	11.00	11.00	0.00
6,160.0	25.41	180.91	6,065.6	818.3	-46.7	-816.5	11.00	11.00	0.00
6,200.0	29.81	180.91	6,101.0	799.8	-47.0	-798.0	11.00	11.00	0.00
6,240.0	34.21	180.91	6,134.9	778.6	-47.3	-776.8	11.00	11.00	0.00
6,280.0	38.61	180.91	6,167.1	754.9	-47.7	-753.0	11.00	11.00	0.00
6,320.0	43.01	180.91	6,197.4	728.8	-48.1	-726.9	11.00	11.00	0.00
6,360.0	47.41	180.91	6,225.6	700.4	-48.6	-698.5	11.00	11.00	0.00
6,400.0	51.81	180.91	6,251.5	669.9	-49.0	-668.1	11.00	11.00	0.00
6,440.0	56.21	180.91	6,275.0	637.6	-49.6	-635.7	11.00	11.00	0.00
6,480.0	60.61	180.91	6,295.9	603.5	-50.1	-601.7	11.00	11.00	0.00
6,520.0	65.01	180.91	6,314.2	568.0	-50.7	-566.1	11.00	11.00	0.00
6,560.0	69.41	180.91	6,329.7	531.1	-51.2	-529.2	11.00	11.00	0.00
6,600.0	73.81	180.91	6,342.3	493.1	-51.8	-491.3	11.00	11.00	0.00
6,640.0	78.21	180.91	6,352.0	454.3	-52.5	-452.5	11.00	11.00	0.00
6,680.0	82.61	180.91	6,358.7	414.9	-53.1	-413.1	11.00	11.00	0.00
6,720.0	87.01	180.91	6,362.3	375.1	-53.7	-373.2	11.00	11.00	0.00
6,747.2	90.00	180.91	6,363.0	347.9	-54.1	-346.0	11.00	11.00	0.00
TARGET									
6,747.4	90.00	180.91	6,363.0	347.7	-54.1	-345.9	0.00	0.00	0.00
End of Build									
6,760.0	90.00	180.91	6,363.0	335.1	-54.3	-333.3	0.00	0.00	0.00
6,800.0	90.00	180.91	6,363.0	295.1	-55.0	-293.3	0.00	0.00	0.00
6,840.0	90.00	180.91	6,363.0	255.1	-55.6	-253.3	0.00	0.00	0.00
6,847.4	90.00	180.91	6,363.0	247.7	-55.7	-245.9	0.00	0.00	0.00
7"									
6,848.3	90.00	180.90	6,363.0	246.9	-55.7	-245.0	1.01	0.00	-1.01
6,880.0	90.00	180.90	6,363.0	215.1	-56.2	-213.3	0.00	0.00	0.00
6,920.0	90.00	180.90	6,363.0	175.1	-56.9	-173.3	0.00	0.00	0.00
6,960.0	90.00	180.90	6,363.0	135.1	-57.5	-133.3	0.00	0.00	0.00
7,000.0	90.00	180.90	6,363.0	95.1	-58.1	-93.3	0.00	0.00	0.00
7,040.0	90.00	180.90	6,363.0	55.2	-58.7	-53.3	0.00	0.00	0.00
7,080.0	90.00	180.90	6,363.0	15.2	-59.4	-13.3	0.00	0.00	0.00
7,120.0	90.00	180.90	6,363.0	-24.8	-60.0	26.7	0.00	0.00	0.00
7,160.0	90.00	180.90	6,363.0	-64.8	-60.6	66.7	0.00	0.00	0.00
7,200.0	90.00	180.90	6,363.0	-104.8	-61.2	106.7	0.00	0.00	0.00
7,240.0	90.00	180.90	6,363.0	-144.8	-61.9	146.7	0.00	0.00	0.00
7,280.0	90.00	180.90	6,363.0	-184.8	-62.5	186.7	0.00	0.00	0.00
7,320.0	90.00	180.90	6,363.0	-224.8	-63.1	226.7	0.00	0.00	0.00
7,360.0	90.00	180.90	6,363.0	-264.8	-63.8	266.7	0.00	0.00	0.00
7,400.0	90.00	180.90	6,363.0	-304.8	-64.4	306.7	0.00	0.00	0.00
7,440.0	90.00	180.90	6,363.0	-344.8	-65.0	346.7	0.00	0.00	0.00
7,480.0	90.00	180.90	6,363.0	-384.8	-65.6	386.7	0.00	0.00	0.00
7,520.0	90.00	180.90	6,363.0	-424.8	-66.3	426.6	0.00	0.00	0.00
7,560.0	90.00	180.90	6,363.0	-464.8	-66.9	466.6	0.00	0.00	0.00
7,600.0	90.00	180.90	6,363.0	-504.8	-67.5	506.6	0.00	0.00	0.00
7,640.0	90.00	180.90	6,363.0	-544.8	-68.1	546.6	0.00	0.00	0.00
7,680.0	90.00	180.90	6,363.0	-584.8	-68.8	586.6	0.00	0.00	0.00
7,720.0	90.00	180.90	6,363.0	-624.8	-69.4	626.6	0.00	0.00	0.00
7,760.0	90.00	180.90	6,363.0	-664.8	-70.0	666.6	0.00	0.00	0.00
7,800.0	90.00	180.90	6,363.0	-704.8	-70.6	706.6	0.00	0.00	0.00
7,840.0	90.00	180.90	6,363.0	-744.7	-71.3	746.6	0.00	0.00	0.00
7,880.0	90.00	180.90	6,363.0	-784.7	-71.9	786.6	0.00	0.00	0.00
7,920.0	90.00	180.90	6,363.0	-824.7	-72.5	826.6	0.00	0.00	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well State North Platte 41-44-26HNB
Company:	BONANZA CREEK ENERGY OPERATING	TVD Reference:	WELL @ 4574.0ft (RKB - 13')
Project:	SEC.26-T5N-R63W	MD Reference:	WELL @ 4574.0ft (RKB - 13')
Site:	State North Platte P-26 Pad Sec.26-T5N-R63W	North Reference:	True
Well:	State North Platte 41-44-26HNB	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 (2-15-13)		

Planned 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)
7,960.0	90.00	180.90	6,363.0	-864.7	-73.2	866.6	0.00	0.00	0.00
8,000.0	90.00	180.90	6,363.0	-904.7	-73.8	906.6	0.00	0.00	0.00
8,040.0	90.00	180.90	6,363.0	-944.7	-74.4	946.6	0.00	0.00	0.00
8,080.0	90.00	180.90	6,363.0	-984.7	-75.0	986.6	0.00	0.00	0.00
8,120.0	90.00	180.90	6,363.0	-1,024.7	-75.7	1,026.6	0.00	0.00	0.00
8,160.0	90.00	180.90	6,363.0	-1,064.7	-76.3	1,066.6	0.00	0.00	0.00
8,200.0	90.00	180.90	6,363.0	-1,104.7	-76.9	1,106.6	0.00	0.00	0.00
8,240.0	90.00	180.90	6,363.0	-1,144.7	-77.5	1,146.6	0.00	0.00	0.00
8,280.0	90.00	180.90	6,363.0	-1,184.7	-78.2	1,186.6	0.00	0.00	0.00
8,320.0	90.00	180.90	6,363.0	-1,224.7	-78.8	1,226.5	0.00	0.00	0.00
8,360.0	90.00	180.90	6,363.0	-1,264.7	-79.4	1,266.5	0.00	0.00	0.00
8,400.0	90.00	180.90	6,363.0	-1,304.7	-80.0	1,306.5	0.00	0.00	0.00
8,440.0	90.00	180.90	6,363.0	-1,344.7	-80.7	1,346.5	0.00	0.00	0.00
8,480.0	90.00	180.90	6,363.0	-1,384.7	-81.3	1,386.5	0.00	0.00	0.00
8,520.0	90.00	180.90	6,363.0	-1,424.7	-81.9	1,426.5	0.00	0.00	0.00
8,560.0	90.00	180.90	6,363.0	-1,464.7	-82.6	1,466.5	0.00	0.00	0.00
8,600.0	90.00	180.90	6,363.0	-1,504.7	-83.2	1,506.5	0.00	0.00	0.00
8,640.0	90.00	180.90	6,363.0	-1,544.6	-83.8	1,546.5	0.00	0.00	0.00
8,680.0	90.00	180.90	6,363.0	-1,584.6	-84.4	1,586.5	0.00	0.00	0.00
8,720.0	90.00	180.90	6,363.0	-1,624.6	-85.1	1,626.5	0.00	0.00	0.00
8,760.0	90.00	180.90	6,363.0	-1,664.6	-85.7	1,666.5	0.00	0.00	0.00
8,800.0	90.00	180.90	6,363.0	-1,704.6	-86.3	1,706.5	0.00	0.00	0.00
8,840.0	90.00	180.90	6,363.0	-1,744.6	-86.9	1,746.5	0.00	0.00	0.00
8,880.0	90.00	180.90	6,363.0	-1,784.6	-87.6	1,786.5	0.00	0.00	0.00
8,920.0	90.00	180.90	6,363.0	-1,824.6	-88.2	1,826.5	0.00	0.00	0.00
8,960.0	90.00	180.90	6,363.0	-1,864.6	-88.8	1,866.5	0.00	0.00	0.00
9,000.0	90.00	180.90	6,363.0	-1,904.6	-89.4	1,906.5	0.00	0.00	0.00
9,040.0	90.00	180.90	6,363.0	-1,944.6	-90.1	1,946.5	0.00	0.00	0.00
9,080.0	90.00	180.90	6,363.0	-1,984.6	-90.7	1,986.5	0.00	0.00	0.00
9,120.0	90.00	180.90	6,363.0	-2,024.6	-91.3	2,026.5	0.00	0.00	0.00
9,160.0	90.00	180.90	6,363.0	-2,064.6	-92.0	2,066.4	0.00	0.00	0.00
9,200.0	90.00	180.90	6,363.0	-2,104.6	-92.6	2,106.4	0.00	0.00	0.00
9,240.0	90.00	180.90	6,363.0	-2,144.6	-93.2	2,146.4	0.00	0.00	0.00
9,280.0	90.00	180.90	6,363.0	-2,184.6	-93.8	2,186.4	0.00	0.00	0.00
9,320.0	90.00	180.90	6,363.0	-2,224.6	-94.5	2,226.4	0.00	0.00	0.00
9,360.0	90.00	180.90	6,363.0	-2,264.6	-95.1	2,266.4	0.00	0.00	0.00
9,400.0	90.00	180.90	6,363.0	-2,304.6	-95.7	2,306.4	0.00	0.00	0.00
9,440.0	90.00	180.90	6,363.0	-2,344.6	-96.3	2,346.4	0.00	0.00	0.00
9,480.0	90.00	180.90	6,363.0	-2,384.5	-97.0	2,386.4	0.00	0.00	0.00
9,520.0	90.00	180.90	6,363.0	-2,424.5	-97.6	2,426.4	0.00	0.00	0.00
9,560.0	90.00	180.90	6,363.0	-2,464.5	-98.2	2,466.4	0.00	0.00	0.00
9,600.0	90.00	180.90	6,363.0	-2,504.5	-98.8	2,506.4	0.00	0.00	0.00
9,640.0	90.00	180.90	6,363.0	-2,544.5	-99.5	2,546.4	0.00	0.00	0.00
9,680.0	90.00	180.90	6,363.0	-2,584.5	-100.1	2,586.4	0.00	0.00	0.00
9,720.0	90.00	180.90	6,363.0	-2,624.5	-100.7	2,626.4	0.00	0.00	0.00
9,760.0	90.00	180.90	6,363.0	-2,664.5	-101.4	2,666.4	0.00	0.00	0.00
9,800.0	90.00	180.90	6,363.0	-2,704.5	-102.0	2,706.4	0.00	0.00	0.00
9,840.0	90.00	180.90	6,363.0	-2,744.5	-102.6	2,746.4	0.00	0.00	0.00
9,880.0	90.00	180.90	6,363.0	-2,784.5	-103.2	2,786.4	0.00	0.00	0.00
9,920.0	90.00	180.90	6,363.0	-2,824.5	-103.9	2,826.4	0.00	0.00	0.00
9,960.0	90.00	180.90	6,363.0	-2,864.5	-104.5	2,866.4	0.00	0.00	0.00
10,000.0	90.00	180.90	6,363.0	-2,904.5	-105.1	2,906.3	0.00	0.00	0.00
10,040.0	90.00	180.90	6,363.0	-2,944.5	-105.7	2,946.3	0.00	0.00	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well State North Platte 41-44-26HNB
Company:	BONANZA CREEK ENERGY OPERATING	TVD Reference:	WELL @ 4574.0ft (RKB - 13')
Project:	SEC.26-T5N-R63W	MD Reference:	WELL @ 4574.0ft (RKB - 13')
Site:	State North Platte P-26 Pad Sec.26-T5N-R63W	North Reference:	True
Well:	State North Platte 41-44-26HNB	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 (2-15-13)		

Planned 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)
10,080.0	90.00	180.90	6,363.0	-2,984.5	-106.4	2,986.3	0.00	0.00	0.00
10,120.0	90.00	180.90	6,363.0	-3,024.5	-107.0	3,026.3	0.00	0.00	0.00
10,160.0	90.00	180.90	6,363.0	-3,064.5	-107.6	3,066.3	0.00	0.00	0.00
10,200.0	90.00	180.90	6,363.0	-3,104.5	-108.2	3,106.3	0.00	0.00	0.00
10,240.0	90.00	180.90	6,363.0	-3,144.5	-108.9	3,146.3	0.00	0.00	0.00
10,280.0	90.00	180.90	6,363.0	-3,184.4	-109.5	3,186.3	0.00	0.00	0.00
10,320.0	90.00	180.90	6,363.0	-3,224.4	-110.1	3,226.3	0.00	0.00	0.00
10,360.0	90.00	180.90	6,363.0	-3,264.4	-110.8	3,266.3	0.00	0.00	0.00
10,400.0	90.00	180.90	6,363.0	-3,304.4	-111.4	3,306.3	0.00	0.00	0.00
10,440.0	90.00	180.90	6,363.0	-3,344.4	-112.0	3,346.3	0.00	0.00	0.00
10,480.0	90.00	180.90	6,363.0	-3,384.4	-112.6	3,386.3	0.00	0.00	0.00
10,520.0	90.00	180.90	6,363.0	-3,424.4	-113.3	3,426.3	0.00	0.00	0.00
10,560.0	90.00	180.90	6,363.0	-3,464.4	-113.9	3,466.3	0.00	0.00	0.00
10,600.0	90.00	180.90	6,363.0	-3,504.4	-114.5	3,506.3	0.00	0.00	0.00
10,640.0	90.00	180.90	6,363.0	-3,544.4	-115.1	3,546.3	0.00	0.00	0.00
10,680.0	90.00	180.90	6,363.0	-3,584.4	-115.8	3,586.3	0.00	0.00	0.00
10,720.0	90.00	180.90	6,363.0	-3,624.4	-116.4	3,626.3	0.00	0.00	0.00
10,760.0	90.00	180.90	6,363.0	-3,664.4	-117.0	3,666.3	0.00	0.00	0.00
10,800.0	90.00	180.90	6,363.0	-3,704.4	-117.6	3,706.3	0.00	0.00	0.00
10,840.0	90.00	180.90	6,363.0	-3,744.4	-118.3	3,746.2	0.00	0.00	0.00
10,880.0	90.00	180.90	6,363.0	-3,784.4	-118.9	3,786.2	0.00	0.00	0.00
10,920.0	90.00	180.90	6,363.0	-3,824.4	-119.5	3,826.2	0.00	0.00	0.00
10,939.1	90.00	180.90	6,363.0	-3,843.5	-119.8	3,845.3	0.00	0.00	0.00

Casing Points				
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
6,847.4	6,363.0	7"	7	7-1/2

Formations				
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)
6,747.2	6,363.0	TARGET		0.00

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	+E/-W (ft)	Comment
1,000.0	1,000.0	0.0	0.0	KOP #1
5,929.0	5,842.1	868.7	-45.9	KOP #2
6,747.4	6,363.0	347.7	-54.1	End of Build



Directional

BONANZA CREEK ENERGY OPERATING

SEC.26-T5N-R63W

State North Platte P-26 Pad Sec.26-T5N-R63W

State North Platte 41-44-26HNB

Wellbore #1

Plan #2 (2-15-13)

Anticollision Report

19 February, 2013

Company:	BONANZA CREEK ENERGY OPERATING	Local Co-ordinate Reference:	Well State North Platte 41-44-26HNB
Project:	SEC.26-T5N-R63W	TVD Reference:	WELL @ 4574.0ft (RKB - 13')
Reference Site:	State North Platte P-26 Pad Sec.26-T5N-R63W	MD Reference:	WELL @ 4574.0ft (RKB - 13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	State North Platte 41-44-26HNB	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #2 (2-15-13)	Offset TVD Reference:	Offset Datum

Offset Design State North Platte P-26 Pad Sec.26-T5N-R63W - State 1-26 (P&A) - Wellbore #1 - Wellbore #1													Offset Site Error:	0.0 ft
Survey Program: 7000-UNKNOWN													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
2,100.0	2,084.7	2,066.7	2,066.7	5.5	41.3	-178.24	-2,306.1	47.4	2,472.9	2,427.8	45.13	54.800		
2,200.0	2,182.5	2,164.5	2,164.5	5.9	43.3	-178.25	-2,306.1	47.4	2,493.7	2,446.4	47.29	52.727		
2,300.0	2,280.4	2,262.4	2,262.4	6.3	45.2	-178.27	-2,306.1	47.4	2,514.4	2,464.9	49.46	50.834		
2,400.0	2,378.2	2,360.2	2,360.2	6.7	47.2	-178.28	-2,306.1	47.4	2,535.2	2,483.5	51.63	49.099		
2,500.0	2,476.0	2,458.0	2,458.0	7.1	49.2	-178.30	-2,306.1	47.4	2,555.9	2,502.1	53.81	47.503		
2,600.0	2,573.8	2,555.8	2,555.8	7.5	51.1	-178.31	-2,306.1	47.4	2,576.7	2,520.7	55.98	46.030		
2,700.0	2,671.7	2,653.7	2,653.7	7.9	53.1	-178.32	-2,306.1	47.4	2,597.4	2,539.3	58.15	44.667		
2,800.0	2,769.5	2,751.5	2,751.5	8.4	55.0	-178.34	-2,306.1	47.4	2,618.2	2,557.9	60.33	43.401		
2,900.0	2,867.3	2,849.3	2,849.3	8.8	57.0	-178.35	-2,306.1	47.4	2,638.9	2,576.4	62.50	42.223		
3,000.0	2,965.1	2,947.1	2,947.1	9.2	58.9	-178.36	-2,306.1	47.4	2,659.7	2,595.0	64.68	41.123		
3,100.0	3,062.9	3,044.9	3,044.9	9.6	60.9	-178.37	-2,306.1	47.4	2,680.4	2,613.6	66.85	40.095		
3,200.0	3,160.8	3,142.8	3,142.8	10.1	62.9	-178.39	-2,306.1	47.4	2,701.2	2,632.2	69.03	39.131		
3,300.0	3,258.6	3,240.6	3,240.6	10.5	64.8	-178.40	-2,306.1	47.4	2,721.9	2,650.7	71.21	38.226		
3,400.0	3,356.4	3,338.4	3,338.4	10.9	66.8	-178.41	-2,306.1	47.4	2,742.7	2,669.3	73.38	37.375		
3,500.0	3,454.2	3,436.2	3,436.2	11.4	68.7	-178.42	-2,306.1	47.4	2,763.5	2,687.9	75.56	36.572		
3,600.0	3,552.0	3,534.0	3,534.0	11.8	70.7	-178.44	-2,306.1	47.4	2,784.2	2,706.5	77.74	35.815		
3,700.0	3,649.9	3,631.9	3,631.9	12.2	72.6	-178.45	-2,306.1	47.4	2,805.0	2,725.0	79.92	35.098		
3,800.0	3,747.7	3,729.7	3,729.7	12.7	74.6	-178.46	-2,306.1	47.4	2,825.7	2,743.6	82.10	34.420		
3,900.0	3,845.5	3,827.5	3,827.5	13.1	76.6	-178.47	-2,306.1	47.4	2,846.5	2,762.2	84.28	33.776		
4,000.0	3,943.3	3,925.3	3,925.3	13.5	78.5	-178.48	-2,306.1	47.4	2,867.2	2,780.8	86.45	33.165		
4,100.0	4,041.1	4,023.1	4,023.1	14.0	80.5	-178.49	-2,306.1	47.4	2,888.0	2,799.3	88.63	32.583		
4,200.0	4,139.0	4,121.0	4,121.0	14.4	82.4	-178.50	-2,306.1	47.4	2,908.7	2,817.9	90.81	32.030		
4,300.0	4,236.8	4,218.8	4,218.8	14.9	84.4	-178.51	-2,306.1	47.4	2,929.5	2,836.5	92.99	31.502		
4,400.0	4,334.6	4,316.6	4,316.6	15.3	86.3	-178.52	-2,306.1	47.4	2,950.2	2,855.1	95.17	30.999		
4,500.0	4,432.4	4,414.4	4,414.4	15.7	88.3	-178.53	-2,306.1	47.4	2,971.0	2,873.6	97.35	30.518		
4,600.0	4,530.3	4,512.3	4,512.3	16.2	90.2	-178.54	-2,306.1	47.4	2,991.8	2,892.2	99.53	30.058		
4,700.0	4,628.1	4,610.1	4,610.1	16.6	92.2	-178.55	-2,306.1	47.4	3,012.5	2,910.8	101.71	29.618		
4,800.0	4,725.9	4,707.9	4,707.9	17.0	94.2	-178.56	-2,306.1	47.4	3,033.3	2,929.4	103.89	29.196		
4,900.0	4,823.7	4,805.7	4,805.7	17.5	96.1	-178.57	-2,306.1	47.4	3,054.0	2,947.9	106.07	28.792		
5,000.0	4,921.5	4,903.5	4,903.5	17.9	98.1	-178.58	-2,306.1	47.4	3,074.8	2,966.5	108.25	28.403		
5,100.0	5,019.4	5,001.4	5,001.4	18.4	100.0	-178.59	-2,306.1	47.4	3,095.5	2,985.1	110.43	28.030		
5,200.0	5,117.2	5,099.2	5,099.2	18.8	102.0	-178.60	-2,306.1	47.4	3,116.3	3,003.6	112.70	27.650		
5,300.0	5,215.4	5,197.4	5,197.4	19.1	103.9	-178.62	-2,306.1	47.4	3,134.9	3,019.4	115.52	27.137		
5,400.0	5,314.3	5,296.3	5,296.3	19.4	105.9	-178.63	-2,306.1	47.4	3,150.1	3,031.9	118.23	26.645		
5,500.0	5,413.6	5,395.6	5,395.6	19.7	107.9	-178.65	-2,306.1	47.4	3,161.8	3,041.0	120.81	26.172		
5,600.0	5,513.2	5,495.2	5,495.2	19.9	109.9	-178.65	-2,306.1	47.4	3,170.1	3,046.8	123.25	25.720		
5,700.0	5,613.1	5,595.1	5,595.1	20.0	111.9	-178.66	-2,306.1	47.4	3,174.8	3,049.3	125.55	25.287		
5,800.0	5,713.1	5,695.1	5,695.1	20.2	113.9	-178.32	-2,306.1	47.4	3,176.2	3,048.4	127.71	24.870		
5,900.0	5,813.1	5,795.1	5,795.1	20.3	115.9	-178.32	-2,306.1	47.4	3,176.2	3,046.2	129.91	24.449		
6,000.0	5,912.9	5,894.9	5,894.9	20.4	117.9	-2.62	-2,306.1	47.4	3,171.3	3,040.7	130.61	24.281		
6,100.0	6,010.0	5,992.0	5,992.0	20.2	119.8	-2.76	-2,306.1	47.4	3,148.4	3,021.9	126.47	24.894		
6,200.0	6,101.0	6,083.0	6,083.0	19.9	121.7	-3.05	-2,306.1	47.4	3,107.3	2,989.9	117.43	26.461		
6,300.0	6,182.5	6,164.5	6,164.5	19.4	123.3	-3.56	-2,306.1	47.4	3,049.7	2,945.9	103.78	29.386		
6,400.0	6,251.5	6,233.5	6,233.5	18.8	124.7	-4.46	-2,306.1	47.4	2,977.6	2,891.4	86.22	34.534		
6,500.0	6,305.4	6,287.4	6,287.4	18.2	125.7	-6.20	-2,306.1	47.4	2,893.6	2,827.4	66.21	43.704		
6,600.0	6,342.3	6,324.3	6,324.3	17.6	126.5	-10.42	-2,306.1	47.4	2,801.0	2,752.2	48.76	57.442		
6,700.0	6,360.9	6,342.9	6,342.9	17.2	126.9	-30.42	-2,306.1	47.4	2,703.0	2,627.5	75.49	35.805		
6,800.0	6,363.0	6,345.0	6,345.0	16.9	126.9	-90.00	-2,306.1	47.4	2,603.2	2,459.4	143.81	18.102		
6,900.0	6,363.0	6,345.0	6,345.0	16.8	126.9	-90.00	-2,306.1	47.4	2,503.4	2,359.7	143.67	17.424		
7,000.0	6,363.0	6,345.0	6,345.0	16.9	126.9	-90.00	-2,306.1	47.4	2,403.6	2,259.7	143.83	16.712		
7,100.0	6,363.0	6,345.0	6,345.0	17.3	126.9	-90.00	-2,306.1	47.4	2,303.7	2,159.5	144.19	15.977		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Survey Program: 7000-UNKNOWN											Offset Site Error:		0.0 ft
Reference											Offset Well Error:		0.0 ft
Offset Design				State North Platte P-26 Pad Sec.26-T5N-R63W - State 1-26 (P&A) - Wellbore #1 - Wellbore #1									
Reference		Offset		Semi Major Axis			Distance						
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)		
7,200.0	6,363.0	6,345.0	6,345.0	17.9	126.9	-90.00	-2,306.1	47.4	2,203.9	2,059.2	144.76	15.225	
7,300.0	6,363.0	6,345.0	6,345.0	18.6	126.9	-90.00	-2,306.1	47.4	2,104.2	1,958.7	145.50	14.461	
7,400.0	6,363.0	6,345.0	6,345.0	19.5	126.9	-90.00	-2,306.1	47.4	2,004.4	1,858.0	146.41	13.691	
7,500.0	6,363.0	6,345.0	6,345.0	20.6	126.9	-90.00	-2,306.1	47.4	1,904.7	1,757.2	147.45	12.917	
7,600.0	6,363.0	6,345.0	6,345.0	21.7	126.9	-90.00	-2,306.1	47.4	1,805.0	1,656.4	148.62	12.145	
7,700.0	6,363.0	6,345.0	6,345.0	23.0	126.9	-90.00	-2,306.1	47.4	1,705.3	1,555.4	149.88	11.378	
7,800.0	6,363.0	6,345.0	6,345.0	24.3	126.9	-90.00	-2,306.1	47.4	1,605.7	1,454.4	151.23	10.617	
7,900.0	6,363.0	6,345.0	6,345.0	25.8	126.9	-90.00	-2,306.1	47.4	1,506.1	1,353.4	152.66	9.866	
8,000.0	6,363.0	6,345.0	6,345.0	27.2	126.9	-90.00	-2,306.1	47.4	1,406.6	1,252.4	154.14	9.125	
8,100.0	6,363.0	6,345.0	6,345.0	28.8	126.9	-90.00	-2,306.1	47.4	1,307.1	1,151.5	155.67	8.397	
8,200.0	6,363.0	6,345.0	6,345.0	30.4	126.9	-90.00	-2,306.1	47.4	1,207.8	1,050.5	157.25	7.681	
8,300.0	6,363.0	6,345.0	6,345.0	32.0	126.9	-90.00	-2,306.1	47.4	1,108.6	949.7	158.87	6.978	
8,400.0	6,363.0	6,345.0	6,345.0	33.6	126.9	-90.00	-2,306.1	47.4	1,009.5	849.0	160.51	6.289	
8,500.0	6,363.0	6,345.0	6,345.0	35.3	126.9	-90.00	-2,306.1	47.4	910.6	748.4	162.19	5.615	
8,600.0	6,363.0	6,345.0	6,345.0	37.0	126.9	-90.00	-2,306.1	47.4	812.0	648.1	163.88	4.955	
8,700.0	6,363.0	6,345.0	6,345.0	38.7	126.9	-90.00	-2,306.1	47.4	713.8	548.2	165.60	4.310	
8,800.0	6,363.0	6,345.0	6,345.0	40.4	126.9	-90.00	-2,306.1	47.4	616.1	448.8	167.34	3.682	
8,900.0	6,363.0	6,345.0	6,345.0	42.2	126.9	-90.00	-2,306.1	47.4	519.4	350.3	169.09	3.072	
9,000.0	6,363.0	6,345.0	6,345.0	44.0	126.9	-90.00	-2,306.1	47.4	424.2	253.3	170.85	2.483	
9,100.0	6,363.0	6,345.0	6,345.0	45.7	126.9	-90.00	-2,306.1	47.4	331.7	159.1	172.63	1.922	
9,200.0	6,363.0	6,345.0	6,345.0	47.5	126.9	-90.00	-2,306.1	47.4	245.3	70.9	174.42	1.407 Level 3	
9,300.0	6,363.0	6,345.0	6,345.0	49.3	126.9	-90.00	-2,306.1	47.4	174.2	-2.1	176.22	0.988 Level 1	
9,399.3	6,363.0	6,345.0	6,345.0	51.1	126.9	-90.00	-2,306.1	47.4	143.1	-34.9	178.01	0.804 Level 1, CC	
9,400.0	6,363.0	6,345.0	6,345.0	51.1	126.9	-90.00	-2,306.1	47.4	143.1	-34.9	178.02	0.804 Level 1, ES, SF	
9,500.0	6,363.0	6,345.0	6,345.0	52.9	126.9	-90.00	-2,306.1	47.4	175.0	-4.9	179.84	0.973 Level 1	
9,600.0	6,363.0	6,345.0	6,345.0	54.8	126.9	-90.00	-2,306.1	47.4	246.5	64.8	181.66	1.357 Level 3	
9,700.0	6,363.0	6,345.0	6,345.0	56.6	126.9	-90.00	-2,306.1	47.4	333.0	149.5	183.48	1.815	
9,800.0	6,363.0	6,345.0	6,345.0	58.4	126.9	-90.00	-2,306.1	47.4	425.5	240.2	185.32	2.296	
9,900.0	6,363.0	6,345.0	6,345.0	60.3	126.9	-90.00	-2,306.1	47.4	520.8	333.6	187.16	2.782	
10,000.0	6,363.0	6,345.0	6,345.0	62.1	126.9	-90.00	-2,306.1	47.4	617.5	428.5	189.00	3.267	
10,100.0	6,363.0	6,345.0	6,345.0	63.9	126.9	-90.00	-2,306.1	47.4	715.2	524.3	190.85	3.747	
10,200.0	6,363.0	6,345.0	6,345.0	65.8	126.9	-90.00	-2,306.1	47.4	813.4	620.7	192.70	4.221	
10,300.0	6,363.0	6,345.0	6,345.0	67.7	126.9	-90.00	-2,306.1	47.4	912.0	717.5	194.55	4.688	
10,400.0	6,363.0	6,345.0	6,345.0	69.5	126.9	-90.00	-2,306.1	47.4	1,010.9	814.5	196.41	5.147	
10,500.0	6,363.0	6,345.0	6,345.0	71.4	126.9	-90.00	-2,306.1	47.4	1,110.0	911.7	198.27	5.598	
10,600.0	6,363.0	6,345.0	6,345.0	73.2	126.9	-90.00	-2,306.1	47.4	1,209.2	1,009.1	200.13	6.042	
10,700.0	6,363.0	6,345.0	6,345.0	75.1	126.9	-90.00	-2,306.1	47.4	1,308.6	1,106.6	202.00	6.478	
10,800.0	6,363.0	6,345.0	6,345.0	77.0	126.9	-90.00	-2,306.1	47.4	1,408.0	1,204.1	203.87	6.906	
10,900.0	6,363.0	6,345.0	6,345.0	78.8	126.9	-90.00	-2,306.1	47.4	1,507.5	1,301.8	205.74	7.327	
10,939.1	6,363.0	6,345.0	6,345.0	79.6	126.9	-90.00	-2,306.1	47.4	1,546.4	1,340.0	206.47	7.490	

State North Platte P-26 Pad Sec.26-T5N-R63W - State North Platte 31-34-26HC - Wellbore #1 - Plan #2												Offset Site Error:	0.0 ft
Survey Program: 0-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance		Between		Minimum	Separation	Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	+E/-W	Centres	Ellipses	Separation	Factor	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	(ft)	(ft)	(ft)	(ft)		
0.0	0.0	1.0	1.0	0.0	0.0	0.00	18.2	0.0	18.2	18.2	0.00	N/A	
100.0	100.0	101.0	101.0	0.1	0.1	0.00	18.2	0.0	18.2	18.0	0.23	80.222	
166.3	166.3	167.3	167.3	0.3	0.3	0.00	18.2	0.0	18.2	17.7	0.53	34.676 CC	
200.0	200.0	201.0	201.0	0.3	0.3	0.00	18.2	0.0	18.2	17.5	0.68	26.920 ES	
300.0	300.0	300.6	300.6	0.6	0.6	-4.21	19.3	-1.4	19.3	18.2	1.12	17.207	
400.0	400.0	400.0	399.8	0.8	0.8	-14.09	22.4	-5.6	23.1	21.5	1.58	14.623	
500.0	500.0	498.8	498.2	1.0	1.0	-24.50	27.5	-12.5	30.3	28.3	2.04	14.822	
600.0	600.0	596.9	595.7	1.2	1.3	-32.59	34.5	-22.1	41.3	38.8	2.52	16.428	
700.0	700.0	694.2	691.7	1.5	1.6	-38.17	43.5	-34.2	56.1	53.1	2.99	18.766	
800.0	800.0	790.2	786.1	1.7	2.0	-41.93	54.2	-48.7	74.4	71.0	3.46	21.484	
900.0	900.0	885.0	878.5	1.9	2.4	-44.51	66.7	-65.5	96.2	92.2	3.94	24.397	
1,000.0	1,000.0	978.3	968.7	2.1	2.9	-46.32	80.7	-84.5	121.2	116.8	4.42	27.405	
1,100.0	1,100.0	1,072.5	1,059.1	2.4	3.4	-44.71	96.4	-105.7	147.8	143.0	4.89	30.259	
1,200.0	1,199.8	1,169.1	1,151.9	2.6	3.9	-46.50	112.7	-127.8	172.7	167.3	5.36	32.224	
1,300.0	1,299.5	1,266.2	1,244.9	2.8	4.5	-48.54	129.1	-150.0	195.4	189.6	5.84	33.468	
1,400.0	1,398.7	1,363.6	1,338.3	3.1	5.1	-50.82	145.5	-172.2	216.3	209.9	6.34	34.132	
1,500.0	1,497.5	1,461.1	1,431.8	3.3	5.6	-53.34	162.0	-194.5	235.4	228.6	6.87	34.289	
1,600.0	1,595.6	1,558.7	1,525.3	3.6	6.2	-56.10	178.5	-216.8	253.2	245.7	7.44	34.007	
1,700.0	1,693.4	1,656.2	1,618.9	4.0	6.8	-59.06	195.0	-239.0	270.7	262.6	8.08	33.483	
1,800.0	1,791.3	1,753.8	1,712.4	4.3	7.3	-61.65	211.5	-261.3	288.8	280.0	8.76	32.945	
1,900.0	1,889.1	1,851.3	1,805.9	4.7	7.9	-63.94	227.9	-283.6	307.4	297.9	9.48	32.414	
2,000.0	1,986.9	1,948.9	1,899.4	5.1	8.5	-65.97	244.4	-305.9	326.4	316.2	10.23	31.904	
2,100.0	2,084.7	2,046.4	1,993.0	5.5	9.1	-67.78	260.9	-328.2	345.8	334.8	11.00	31.425	
2,200.0	2,182.5	2,143.9	2,086.5	5.9	9.7	-69.39	277.4	-350.4	365.5	353.7	11.80	30.980	
2,300.0	2,280.4	2,241.5	2,180.0	6.3	10.2	-70.84	293.8	-372.7	385.5	372.8	12.61	30.571	
2,400.0	2,378.2	2,339.0	2,273.5	6.7	10.8	-72.15	310.3	-395.0	405.6	392.2	13.43	30.197	
2,500.0	2,476.0	2,436.6	2,367.0	7.1	11.4	-73.34	326.8	-417.3	426.0	411.7	14.27	29.855	
2,600.0	2,573.8	2,534.1	2,460.6	7.5	12.0	-74.41	343.3	-439.6	446.5	431.4	15.11	29.544	
2,700.0	2,671.7	2,631.7	2,554.1	7.9	12.6	-75.40	359.7	-461.9	467.1	451.2	15.96	29.260	
2,800.0	2,769.5	2,729.2	2,647.6	8.4	13.2	-76.30	376.2	-484.1	487.9	471.1	16.82	29.002	
2,900.0	2,867.3	2,826.7	2,741.1	8.8	13.7	-77.12	392.7	-506.4	508.8	491.1	17.69	28.765	
3,000.0	2,965.1	2,924.3	2,834.7	9.2	14.3	-77.88	409.2	-528.7	529.7	511.2	18.56	28.549	
3,100.0	3,062.9	3,021.8	2,928.2	9.6	14.9	-78.59	425.7	-551.0	550.8	531.4	19.43	28.351	
3,200.0	3,160.8	3,119.4	3,021.7	10.1	15.5	-79.24	442.1	-573.3	571.9	551.6	20.30	28.169	
3,300.0	3,258.6	3,216.9	3,115.2	10.5	16.1	-79.84	458.6	-595.5	593.1	571.9	21.18	28.001	
3,400.0	3,356.4	3,314.4	3,208.8	10.9	16.7	-80.41	475.1	-617.8	614.4	592.3	22.06	27.847	
3,500.0	3,454.2	3,412.0	3,302.3	11.4	17.2	-80.93	491.6	-640.1	635.7	612.7	22.94	27.704	
3,600.0	3,552.0	3,509.5	3,395.8	11.8	17.8	-81.43	508.0	-662.4	657.0	633.2	23.83	27.572	
3,700.0	3,649.9	3,607.1	3,489.3	12.2	18.4	-81.89	524.5	-684.7	678.4	653.7	24.71	27.450	
3,800.0	3,747.7	3,704.6	3,582.9	12.7	19.0	-82.32	541.0	-706.9	699.8	674.2	25.60	27.336	
3,900.0	3,845.5	3,802.2	3,676.4	13.1	19.6	-82.73	557.5	-729.2	721.3	694.8	26.49	27.229	
4,000.0	3,943.3	3,899.7	3,769.9	13.5	20.2	-83.11	573.9	-751.5	742.8	715.4	27.38	27.130	
4,100.0	4,041.1	3,997.2	3,863.4	14.0	20.7	-83.47	590.4	-773.8	764.4	736.1	28.27	27.037	
4,200.0	4,139.0	4,094.8	3,956.9	14.4	21.3	-83.82	606.9	-796.1	785.9	756.8	29.16	26.951	
4,300.0	4,236.8	4,192.3	4,050.5	14.9	21.9	-84.14	623.4	-818.4	807.5	777.4	30.05	26.869	
4,400.0	4,334.6	4,289.9	4,144.0	15.3	22.5	-84.45	639.8	-840.6	829.1	798.2	30.95	26.792	
4,500.0	4,432.4	4,387.4	4,237.5	15.7	23.1	-84.74	656.3	-862.9	850.7	818.9	31.84	26.720	
4,600.0	4,530.3	4,485.0	4,331.0	16.2	23.7	-85.02	672.8	-885.2	872.4	839.7	32.73	26.652	
4,700.0	4,628.1	4,582.5	4,424.6	16.6	24.2	-85.28	689.3	-907.5	894.1	860.4	33.63	26.588	
4,800.0	4,725.9	4,680.0	4,518.1	17.0	24.8	-85.53	705.8	-929.8	915.8	881.2	34.52	26.527	
4,900.0	4,823.7	4,777.6	4,611.6	17.5	25.4	-85.77	722.2	-952.0	937.5	902.0	35.42	26.470	

Company:	BONANZA CREEK ENERGY OPERATING	Local Co-ordinate Reference:	Well State North Platte 41-44-26HNB
Project:	SEC.26-T5N-R63W	TVD Reference:	WELL @ 4574.0ft (RKB - 13')
Reference Site:	State North Platte P-26 Pad Sec.26-T5N-R63W	MD Reference:	WELL @ 4574.0ft (RKB - 13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	State North Platte 41-44-26HNB	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #2 (2-15-13)	Offset TVD Reference:	Offset Datum

Offset Design State North Platte P-26 Pad Sec.26-T5N-R63W - State North Platte 31-34-26HC - Wellbore #1 - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
5,000.0	4,921.5	4,875.1	4,705.1	17.9	26.0	-86.00	738.7	-974.3	959.2	922.9	36.31	26.415		
5,100.0	5,019.4	4,972.7	4,798.7	18.4	26.6	-86.22	755.2	-996.6	980.9	943.7	37.21	26.364		
5,200.0	5,117.2	5,070.2	4,892.2	18.8	27.2	-86.48	771.7	-1,018.9	1,002.7	964.6	38.11	26.311		
5,300.0	5,215.4	5,167.8	4,985.7	19.1	27.8	-87.01	788.1	-1,041.2	1,024.5	985.6	38.96	26.299		
5,400.0	5,314.3	5,265.3	5,079.2	19.4	28.3	-87.34	804.6	-1,063.4	1,046.6	1,006.9	39.73	26.343		
5,500.0	5,413.6	5,400.7	5,209.8	19.7	29.0	-87.42	825.8	-1,092.2	1,067.2	1,026.8	40.46	26.375		
5,600.0	5,513.2	5,541.2	5,347.0	19.9	29.5	-87.39	844.0	-1,116.7	1,084.2	1,043.2	41.07	26.400		
5,700.0	5,613.1	5,683.6	5,487.3	20.0	29.9	-87.26	858.2	-1,136.0	1,097.5	1,056.0	41.56	26.411		
5,800.0	5,713.1	5,827.5	5,630.1	20.2	30.2	-90.01	868.4	-1,149.8	1,107.0	1,064.9	42.15	26.265		
5,900.0	5,813.1	5,972.5	5,774.8	20.3	30.5	-89.71	874.4	-1,157.8	1,112.6	1,070.2	42.44	26.217		
6,000.0	5,912.9	6,111.6	5,913.9	20.4	30.6	89.72	876.0	-1,160.0	1,114.1	1,071.7	42.35	26.304		
6,032.9	5,945.3	6,144.0	5,946.3	20.3	30.7	90.00	876.0	-1,160.0	1,114.1	1,071.8	42.27	26.356		
6,100.0	6,010.0	6,208.8	6,011.0	20.2	30.7	90.85	876.0	-1,160.0	1,114.2	1,072.2	42.02	26.515		
6,200.0	6,101.0	6,309.6	6,111.3	19.9	30.7	92.44	866.9	-1,160.2	1,115.2	1,073.9	41.30	27.005		
6,300.0	6,182.5	6,418.1	6,215.0	19.4	30.6	94.01	835.7	-1,160.7	1,117.1	1,076.9	40.27	27.741		
6,400.0	6,251.5	6,535.4	6,317.3	18.8	30.3	95.50	778.7	-1,161.6	1,119.7	1,080.7	39.03	28.687		
6,500.0	6,305.4	6,662.5	6,410.6	18.2	29.8	96.83	693.0	-1,163.0	1,122.6	1,084.9	37.71	29.771		
6,600.0	6,342.3	6,799.2	6,484.7	17.6	29.2	97.90	578.6	-1,164.9	1,125.2	1,088.8	36.48	30.848		
6,700.0	6,360.9	6,943.7	6,527.9	17.2	28.5	98.57	441.1	-1,167.2	1,127.0	1,091.4	35.55	31.698		
6,800.0	6,363.0	7,071.8	6,535.0	16.9	28.0	98.72	313.5	-1,169.3	1,127.5	1,092.5	35.02	32.195		
6,900.0	6,363.0	7,171.9	6,535.0	16.8	27.6	98.72	213.4	-1,170.9	1,127.5	1,092.8	34.76	32.439		
7,000.0	6,363.0	7,271.9	6,535.0	16.9	27.3	98.72	113.4	-1,172.5	1,127.6	1,092.6	34.99	32.225		
7,100.0	6,363.0	7,371.9	6,535.0	17.3	27.1	98.72	13.4	-1,174.2	1,127.7	1,092.0	35.63	31.647		
7,200.0	6,363.0	7,471.9	6,535.0	17.9	27.0	98.72	-86.6	-1,175.8	1,127.7	1,091.1	36.66	30.764		
7,300.0	6,363.0	7,571.9	6,535.0	18.6	27.0	98.72	-186.6	-1,177.4	1,127.8	1,089.8	38.03	29.657		
7,400.0	6,363.0	7,671.9	6,535.0	19.5	27.1	98.72	-286.6	-1,179.1	1,127.9	1,088.2	39.72	28.393		
7,500.0	6,363.0	7,771.9	6,535.0	20.6	27.5	98.72	-386.5	-1,180.7	1,128.0	1,086.3	41.69	27.053		
7,600.0	6,363.0	7,871.9	6,535.0	21.7	28.0	98.72	-486.5	-1,182.3	1,128.0	1,084.1	43.90	25.693		
7,700.0	6,363.0	7,971.9	6,535.0	23.0	28.7	98.72	-586.5	-1,184.0	1,128.1	1,081.8	46.32	24.355		
7,800.0	6,363.0	8,071.9	6,535.0	24.3	29.6	98.72	-686.5	-1,185.6	1,128.2	1,079.2	48.91	23.067		
7,900.0	6,363.0	8,171.9	6,535.0	25.8	30.7	98.72	-786.5	-1,187.3	1,128.2	1,076.6	51.65	21.844		
8,000.0	6,363.0	8,271.9	6,535.0	27.2	31.9	98.72	-886.5	-1,188.9	1,128.3	1,073.8	54.51	20.697		
8,100.0	6,363.0	8,371.9	6,535.0	28.8	33.2	98.72	-986.5	-1,190.5	1,128.4	1,070.9	57.49	19.628		
8,200.0	6,363.0	8,471.9	6,535.0	30.4	34.6	98.72	-1,086.5	-1,192.2	1,128.4	1,067.9	60.55	18.635		
8,300.0	6,363.0	8,571.9	6,535.0	32.0	36.1	98.72	-1,186.4	-1,193.8	1,128.5	1,064.8	63.70	17.717		
8,400.0	6,363.0	8,671.9	6,535.0	33.6	37.5	98.71	-1,286.4	-1,195.4	1,128.6	1,061.7	66.91	16.867		
8,500.0	6,363.0	8,771.9	6,535.0	35.3	39.1	98.71	-1,386.4	-1,197.1	1,128.6	1,058.5	70.18	16.082		
8,600.0	6,363.0	8,871.9	6,535.0	37.0	40.6	98.71	-1,486.4	-1,198.7	1,128.7	1,055.2	73.50	15.357		
8,700.0	6,363.0	8,971.9	6,535.0	38.7	42.2	98.71	-1,586.4	-1,200.3	1,128.8	1,051.9	76.86	14.686		
8,800.0	6,363.0	9,071.9	6,535.0	40.4	43.8	98.71	-1,686.4	-1,202.0	1,128.8	1,048.6	80.27	14.064		
8,900.0	6,363.0	9,171.9	6,535.0	42.2	45.5	98.71	-1,786.4	-1,203.6	1,128.9	1,045.2	83.70	13.487		
9,000.0	6,363.0	9,271.9	6,535.0	44.0	47.1	98.71	-1,886.3	-1,205.3	1,129.0	1,041.8	87.17	12.952		
9,100.0	6,363.0	9,371.9	6,535.0	45.7	48.8	98.71	-1,986.3	-1,206.9	1,129.1	1,038.4	90.66	12.454		
9,200.0	6,363.0	9,471.9	6,535.0	47.5	50.5	98.71	-2,086.3	-1,208.5	1,129.1	1,034.9	94.18	11.989		
9,300.0	6,363.0	9,571.9	6,535.0	49.3	52.2	98.71	-2,186.3	-1,210.2	1,129.2	1,031.5	97.71	11.556		
9,400.0	6,363.0	9,671.9	6,535.0	51.1	53.9	98.71	-2,286.3	-1,211.8	1,129.3	1,028.0	101.27	11.151		
9,500.0	6,363.0	9,771.9	6,535.0	52.9	55.7	98.71	-2,386.3	-1,213.4	1,129.3	1,024.5	104.84	10.772		
9,600.0	6,363.0	9,871.9	6,535.0	54.8	57.4	98.71	-2,486.3	-1,215.1	1,129.4	1,021.0	108.43	10.416		
9,700.0	6,363.0	9,971.9	6,535.0	56.6	59.2	98.71	-2,586.3	-1,216.7	1,129.5	1,017.4	112.03	10.082		
9,800.0	6,363.0	10,071.9	6,535.0	58.4	60.9	98.71	-2,686.2	-1,218.3	1,129.5	1,013.9	115.64	9.767		
9,900.0	6,363.0	10,171.9	6,535.0	60.3	62.7	98.71	-2,786.2	-1,220.0	1,129.6	1,010.3	119.27	9.471		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	BONANZA CREEK ENERGY OPERATING	Local Co-ordinate Reference:	Well State North Platte 41-44-26HNB
Project:	SEC.26-T5N-R63W	TVD Reference:	WELL @ 4574.0ft (RKB - 13')
Reference Site:	State North Platte P-26 Pad Sec.26-T5N-R63W	MD Reference:	WELL @ 4574.0ft (RKB - 13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	State North Platte 41-44-26HNB	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #2 (2-15-13)	Offset TVD Reference:	Offset Datum

Offset Design State North Platte P-26 Pad Sec.26-T5N-R63W - State North Platte 31-34-26HC - Wellbore #1 - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning	
Reference	Offset	Reference	Offset	Reference	Offset		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
10,000.0	6,363.0	10,271.9	6,535.0	62.1	64.5	98.71	-2,886.2	-1,221.6	1,129.7	1,006.8	122.90	9.192		
10,100.0	6,363.0	10,371.9	6,535.0	63.9	66.3	98.71	-2,986.2	-1,223.3	1,129.7	1,003.2	126.55	8.927		
10,200.0	6,363.0	10,471.9	6,535.0	65.8	68.0	98.71	-3,086.2	-1,224.9	1,129.8	999.6	130.20	8.678		
10,300.0	6,363.0	10,571.9	6,535.0	67.7	69.8	98.70	-3,186.2	-1,226.5	1,129.9	996.0	133.86	8.441		
10,400.0	6,363.0	10,671.9	6,535.0	69.5	71.7	98.70	-3,286.2	-1,228.2	1,129.9	992.4	137.53	8.216		
10,500.0	6,363.0	10,771.9	6,535.0	71.4	73.5	98.70	-3,386.1	-1,229.8	1,130.0	988.8	141.20	8.003		
10,600.0	6,363.0	10,871.9	6,535.0	73.2	75.3	98.70	-3,486.1	-1,231.4	1,130.1	985.2	144.89	7.800		
10,700.0	6,363.0	10,971.9	6,535.0	75.1	77.1	98.70	-3,586.1	-1,233.1	1,130.2	981.6	148.57	7.607		
10,800.0	6,363.0	11,071.9	6,535.0	77.0	78.9	98.70	-3,686.1	-1,234.7	1,130.2	978.0	152.26	7.423		
10,900.0	6,363.0	11,171.9	6,535.0	78.8	80.8	98.70	-3,786.1	-1,236.3	1,130.3	974.3	155.96	7.247		
10,939.1	6,363.0	11,211.0	6,535.0	79.6	81.5	98.70	-3,825.2	-1,237.0	1,130.3	972.9	157.41	7.181 SF		

Company:	BONANZA CREEK ENERGY OPERATING	Local Co-ordinate Reference:	Well State North Platte 41-44-26HNB
Project:	SEC.26-T5N-R63W	TVD Reference:	WELL @ 4574.0ft (RKB - 13')
Reference Site:	State North Platte P-26 Pad Sec.26-T5N-R63W	MD Reference:	WELL @ 4574.0ft (RKB - 13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	State North Platte 41-44-26HNB	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #2 (2-15-13)	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 4574.0ft (RKB - 13')

Offset Depths are relative to Offset Datum

Central Meridian is -105.500000 °

Coordinates are relative to: State North Platte 41-44-26HNB

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.71°



Company:	BONANZA CREEK ENERGY OPERATING	Local Co-ordinate Reference:	Well State North Platte 41-44-26HNB
Project:	SEC.26-T5N-R63W	TVD Reference:	WELL @ 4574.0ft (RKB - 13')
Reference Site:	State North Platte P-26 Pad Sec.26-T5N-R63W	MD Reference:	WELL @ 4574.0ft (RKB - 13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	State North Platte 41-44-26HNB	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #2 (2-15-13)	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 4574.0ft (RKB - 13')
Offset Depths are relative to Offset Datum
Central Meridian is -105.500000 °

Coordinates are relative to: State North Platte 41-44-26HNB
Coordinate System is US State Plane 1983, Colorado Northern Zone
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