

BONANZA CREEK ENERGY OPERATING

Well Name: **State North Platte 24-21-26HNB**

Surface Location: State North Platte 24-21-26HNB Sec.26-T5N-R63W
North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone

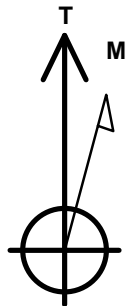
Ground Elevation: 4551.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1377592.47	3305752.38	40.364700	-104.402730	

RKB-15' WELL @ 4566.0ft (RKB-15')

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
SHL 559'FSL, 2463'FEL	1.0	0.0	0.0	Point
BHL 470'FNL & 1959'FWL	6334.0	4182.3	-746.7	Point
LANDING PT. 531'FSL & 1965'FWL	6334.0	-29.1	-797.0	Point



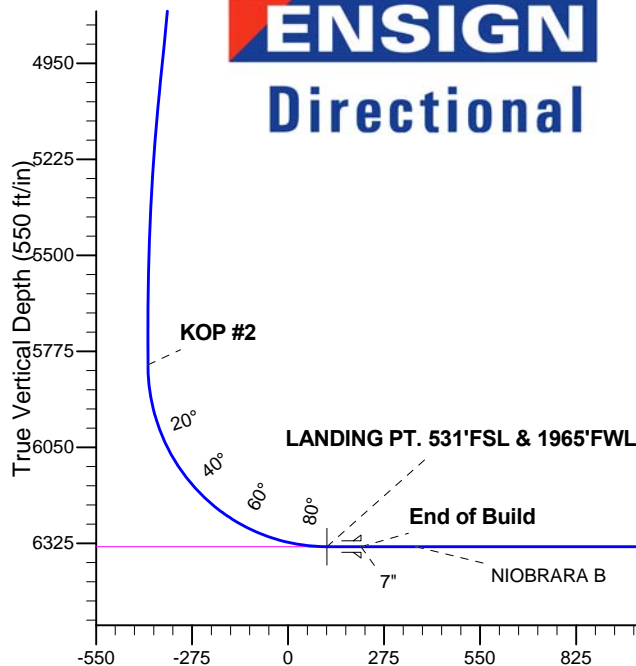
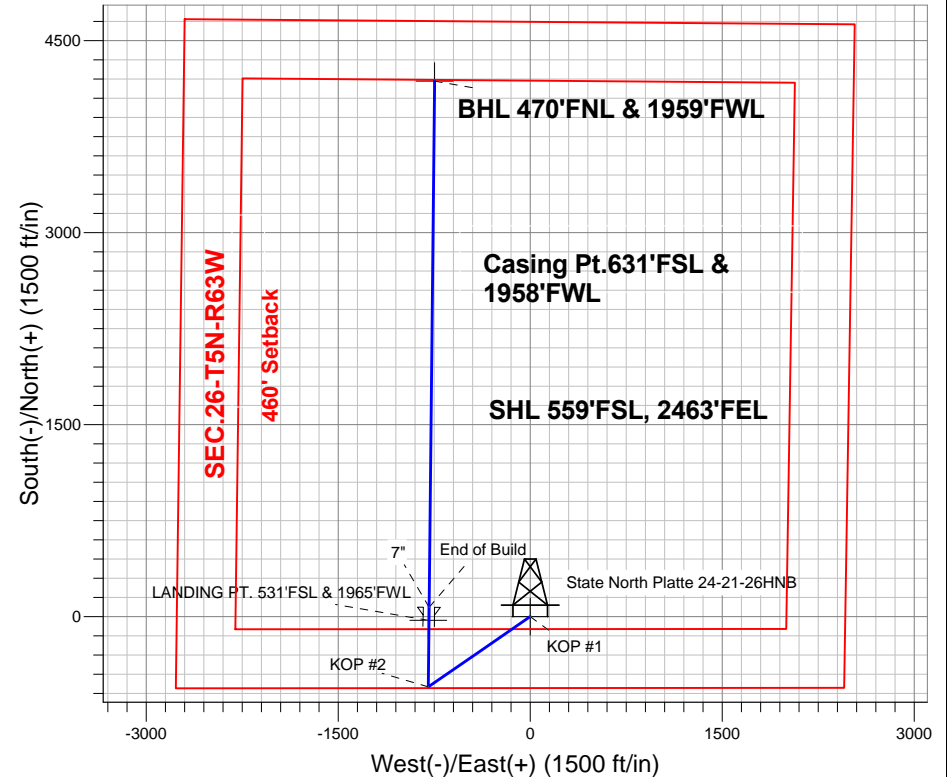
Azimuths to True North
Magnetic North: 8.39°

Magnetic Field
Strength: 52935.0snT
Dip Angle: 67.01°
Date: 7/10/2013
Model: IGRF2010

State North Platte 24-21-26HNB Sec.26-T5N-R63W
State North Platte 24-21-26HNB
Plan #2 (7-10-13)
13:41, July 10 2013

ANNOTATIONS

TVD	MD	Annotation
1000.0	1000.0	KOP #1
5813.1	5921.8	KOP #2
6334.0	6840.0	End of Build



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	1677.3	13.55	235.39	1671.0	-45.3	-65.6	2.00	235.39	-33.0	
4	5131.4	13.55	235.39	5029.0	-504.8	-731.4	0.00	0.00	-368.4	
5	5808.7	0.00	0.00	5700.0	-550.1	-797.0	2.00	180.00	-401.5	
6	5921.8	0.00	0.00	5813.1	-550.1	-797.0	0.00	0.00	-401.5	
7	6740.0	90.00	0.61	6334.0	-29.3	-791.5	11.00	0.61	110.3	
8	6840.0	90.00	0.61	6334.0	70.7	-790.4	0.00	0.00	208.6	
9	6840.0	90.00	0.61	6334.0	70.7	-790.4	11.00	180.00	208.6	
10	10951.8	90.00	0.61	6334.0	4182.3	-746.7	0.00	0.00	4248.4	BHL 470'FNL & 1959'FWL

Vertical Section at 349.88° (550 ft/in)



BONANZA CREEK ENERGY OPERATING

SEC.26-T5N-R63W

State North Platte 24-21-26HNB Sec.26-T5N-R63W

State North Platte 24-21-26HNB

Wellbore #1

Plan: Plan #2 (7-10-13)

Standard Planning Report

10 July, 2013

Database:	Landmark	Local Co-ordinate Reference:	Well State North Platte 24-21-26HNB
Company:	BONANZA CREEK ENERGY OPERATING	TVD Reference:	WELL @ 4566.0ft (RKB-15')
Project:	SEC.26-T5N-R63W	MD Reference:	WELL @ 4566.0ft (RKB-15')
Site:	State North Platte 24-21-26HNB Sec.26-T5N-R63W	North Reference:	True
Well:	State North Platte 24-21-26HNB	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 (7-10-13)		

Project	SEC.26-T5N-R63W, 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						State North Platte 24-21-26HNB Sec.26-T5N-R63W											
Site Position:						Northing:			1,377,512.35 ft			Latitude:			40.364480		
From:			Lat/Long			Easting:			3,305,753.37 ft			Longitude:			-104.402730		
Position Uncertainty:			0.0 ft			Slot Radius:			"			Grid Convergence:			0.71 °		

Well	State North Platte 24-21-26HNB					
Well Position	+N/-S	80.1 ft	Northing:	1,377,592.47 ft	Latitude:	40.364700
	+E/-W	0.0 ft	Easting:	3,305,752.38 ft	Longitude:	-104.402730
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,551.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	7/10/2013	8.39	67.01	52,935

Design	Plan #2 (7-10-13)			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	349.88

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	
1,677.3	13.55	235.39	1,671.0	-45.3	-65.6	2.00	2.00	0.00	235.39	
5,131.4	13.55	235.39	5,029.0	-504.8	-731.4	0.00	0.00	0.00	0.00	
5,808.7	0.00	0.00	5,700.0	-550.1	-797.0	2.00	-2.00	0.00	180.00	
5,921.8	0.00	0.00	5,813.1	-550.1	-797.0	0.00	0.00	0.00	0.00	
6,740.0	90.00	0.61	6,334.0	-29.3	-791.5	11.00	11.00	0.00	0.61	
6,840.0	90.00	0.61	6,334.0	70.7	-790.4	0.00	0.00	0.00	0.00	
6,840.0	90.00	0.61	6,334.0	70.7	-790.4	11.00	11.00	0.00	180.00	
10,951.8	90.00	0.61	6,334.0	4,182.3	-746.7	0.00	0.00	0.00	0.00	BHL 470'FNL & 195

Database:	Landmark	Local Co-ordinate Reference:	Well State North Platte 24-21-26HNB
Company:	BONANZA CREEK ENERGY OPERATING	TVD Reference:	WELL @ 4566.0ft (RKB-15')
Project:	SEC.26-T5N-R63W	MD Reference:	WELL @ 4566.0ft (RKB-15')
Site:	State North Platte 24-21-26HNB	North Reference:	True
	Sec.26-T5N-R63W		
Well:	State North Platte 24-21-26HNB	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 (7-10-13)		

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
1.0	0.00	0.00	1.0	0.0	0.0	0.0	0.00	0.00	0.00
SHL 559'FSL, 2463'FEL									
100.0	0.00	0.00	100.0	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
300.0	0.00	0.00	300.0	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
500.0	0.00	0.00	500.0	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
700.0	0.00	0.00	700.0	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
900.0	0.00	0.00	900.0	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									
1,100.0	2.00	235.39	1,100.0	-1.0	-1.4	-0.7	2.00	2.00	0.00
1,200.0	4.00	235.39	1,199.8	-4.0	-5.7	-2.9	2.00	2.00	0.00
1,300.0	6.00	235.39	1,299.5	-8.9	-12.9	-6.5	2.00	2.00	0.00
1,400.0	8.00	235.39	1,398.7	-15.8	-22.9	-11.6	2.00	2.00	0.00
1,500.0	10.00	235.39	1,497.5	-24.7	-35.8	-18.0	2.00	2.00	0.00
1,600.0	12.00	235.39	1,595.6	-35.6	-51.5	-26.0	2.00	2.00	0.00
1,677.3	13.55	235.39	1,671.0	-45.3	-65.6	-33.0	2.00	2.00	0.00
1,700.0	13.55	235.39	1,693.1	-48.3	-70.0	-35.2	0.00	0.00	0.00
1,800.0	13.55	235.39	1,790.3	-61.6	-89.2	-45.0	0.00	0.00	0.00
1,900.0	13.55	235.39	1,887.5	-74.9	-108.5	-54.7	0.00	0.00	0.00
2,000.0	13.55	235.39	1,984.7	-88.2	-127.8	-64.4	0.00	0.00	0.00
2,100.0	13.55	235.39	2,081.9	-101.5	-147.1	-74.1	0.00	0.00	0.00
2,200.0	13.55	235.39	2,179.2	-114.8	-166.3	-83.8	0.00	0.00	0.00
2,300.0	13.55	235.39	2,276.4	-128.1	-185.6	-93.5	0.00	0.00	0.00
2,400.0	13.55	235.39	2,373.6	-141.4	-204.9	-103.2	0.00	0.00	0.00
2,500.0	13.55	235.39	2,470.8	-154.7	-224.2	-112.9	0.00	0.00	0.00
2,600.0	13.55	235.39	2,568.0	-168.0	-243.5	-122.6	0.00	0.00	0.00
2,700.0	13.55	235.39	2,665.3	-181.3	-262.7	-132.3	0.00	0.00	0.00
2,800.0	13.55	235.39	2,762.5	-194.6	-282.0	-142.0	0.00	0.00	0.00
2,900.0	13.55	235.39	2,859.7	-207.9	-301.3	-151.8	0.00	0.00	0.00
3,000.0	13.55	235.39	2,956.9	-221.3	-320.6	-161.5	0.00	0.00	0.00
3,100.0	13.55	235.39	3,054.1	-234.6	-339.8	-171.2	0.00	0.00	0.00
3,200.0	13.55	235.39	3,151.4	-247.9	-359.1	-180.9	0.00	0.00	0.00
3,300.0	13.55	235.39	3,248.6	-261.2	-378.4	-190.6	0.00	0.00	0.00
3,400.0	13.55	235.39	3,345.8	-274.5	-397.7	-200.3	0.00	0.00	0.00
3,500.0	13.55	235.39	3,443.0	-287.8	-416.9	-210.0	0.00	0.00	0.00
3,600.0	13.55	235.39	3,540.2	-301.1	-436.2	-219.7	0.00	0.00	0.00
3,700.0	13.55	235.39	3,637.4	-314.4	-455.5	-229.4	0.00	0.00	0.00
3,800.0	13.55	235.39	3,734.7	-327.7	-474.8	-239.1	0.00	0.00	0.00
3,900.0	13.55	235.39	3,831.9	-341.0	-494.0	-248.9	0.00	0.00	0.00
4,000.0	13.55	235.39	3,929.1	-354.3	-513.3	-258.6	0.00	0.00	0.00
4,100.0	13.55	235.39	4,026.3	-367.6	-532.6	-268.3	0.00	0.00	0.00
4,200.0	13.55	235.39	4,123.5	-380.9	-551.9	-278.0	0.00	0.00	0.00
4,300.0	13.55	235.39	4,220.8	-394.2	-571.2	-287.7	0.00	0.00	0.00
4,400.0	13.55	235.39	4,318.0	-407.5	-590.4	-297.4	0.00	0.00	0.00
4,500.0	13.55	235.39	4,415.2	-420.8	-609.7	-307.1	0.00	0.00	0.00
4,600.0	13.55	235.39	4,512.4	-434.1	-629.0	-316.8	0.00	0.00	0.00
4,700.0	13.55	235.39	4,609.6	-447.4	-648.3	-326.5	0.00	0.00	0.00
4,800.0	13.55	235.39	4,706.8	-460.7	-667.5	-336.2	0.00	0.00	0.00

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Project:	SEC.26-T5N-R63W	MD Reference:	WELL @ 4566.0ft (RKB-15')
Site:	State North Platte 24-21-26HNB	North Reference:	True
Well:	State North Platte 24-21-26HNB	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 (7-10-13)		

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)
4,900.0	13.55	235.39	4,804.1	-474.0	-686.8	-346.0	0.00	0.00	0.00
5,000.0	13.55	235.39	4,901.3	-487.4	-706.1	-355.7	0.00	0.00	0.00
5,100.0	13.55	235.39	4,998.5	-500.7	-725.4	-365.4	0.00	0.00	0.00
5,131.4	13.55	235.39	5,029.0	-504.8	-731.4	-368.4	0.00	0.00	0.00
5,200.0	12.17	235.39	5,095.9	-513.5	-744.0	-374.8	2.00	-2.00	0.00
5,300.0	10.17	235.39	5,194.0	-524.5	-759.9	-382.8	2.00	-2.00	0.00
5,400.0	8.17	235.39	5,292.7	-533.6	-773.1	-389.4	2.00	-2.00	0.00
5,500.0	6.17	235.39	5,391.9	-540.7	-783.3	-394.6	2.00	-2.00	0.00
5,600.0	4.17	235.39	5,491.5	-545.8	-790.7	-398.3	2.00	-2.00	0.00
5,700.0	2.17	235.39	5,591.4	-548.9	-795.3	-400.6	2.00	-2.00	0.00
5,800.0	0.17	235.39	5,691.3	-550.1	-797.0	-401.5	2.00	-2.00	0.00
5,808.7	0.00	0.00	5,700.0	-550.1	-797.0	-401.5	2.00	-2.00	0.00
5,900.0	0.00	0.00	5,791.3	-550.1	-797.0	-401.5	0.00	0.00	0.00
5,921.8	0.00	0.00	5,813.1	-550.1	-797.0	-401.5	0.00	0.00	0.00
KOP #2									
6,000.0	8.60	0.61	5,891.0	-544.2	-796.9	-395.7	11.00	11.00	0.00
6,100.0	19.60	0.61	5,987.9	-519.9	-796.7	-371.8	11.00	11.00	0.00
6,200.0	30.60	0.61	6,078.3	-477.6	-796.2	-330.2	11.00	11.00	0.00
6,300.0	41.60	0.61	6,159.0	-418.7	-795.6	-272.4	11.00	11.00	0.00
6,400.0	52.60	0.61	6,226.9	-345.6	-794.8	-200.5	11.00	11.00	0.00
6,500.0	63.60	0.61	6,279.7	-260.8	-793.9	-117.2	11.00	11.00	0.00
6,600.0	74.60	0.61	6,315.3	-167.6	-792.9	-25.6	11.00	11.00	0.00
6,700.0	85.60	0.61	6,332.5	-69.2	-791.9	71.1	11.00	11.00	0.00
6,740.0	90.00	0.61	6,334.0	-29.3	-791.5	110.3	11.00	11.00	0.00
NIOBRARA B									
6,740.1	90.00	0.61	6,334.0	-29.2	-791.5	110.4	0.00	0.00	0.00
LANDING PT. 531'FSL & 1965'FWL									
6,800.0	90.00	0.61	6,334.0	30.8	-790.8	169.3	0.00	0.00	0.00
6,840.0	90.00	0.61	6,334.0	70.8	-790.4	208.6	0.00	0.00	0.00
End of Build - 7"									
6,900.0	90.00	0.61	6,334.0	130.8	-789.8	267.5	0.00	0.00	0.00
7,000.0	90.00	0.61	6,334.0	230.7	-788.7	365.8	0.00	0.00	0.00
7,100.0	90.00	0.61	6,334.0	330.7	-787.6	464.0	0.00	0.00	0.00
7,200.0	90.00	0.61	6,334.0	430.7	-786.6	562.3	0.00	0.00	0.00
7,300.0	90.00	0.61	6,334.0	530.7	-785.5	660.5	0.00	0.00	0.00
7,400.0	90.00	0.61	6,334.0	630.7	-784.4	758.8	0.00	0.00	0.00
7,500.0	90.00	0.61	6,334.0	730.7	-783.4	857.0	0.00	0.00	0.00
7,600.0	90.00	0.61	6,334.0	830.7	-782.3	955.3	0.00	0.00	0.00
7,700.0	90.00	0.61	6,334.0	930.7	-781.3	1,053.5	0.00	0.00	0.00
7,800.0	90.00	0.61	6,334.0	1,030.7	-780.2	1,151.8	0.00	0.00	0.00
7,900.0	90.00	0.61	6,334.0	1,130.7	-779.1	1,250.0	0.00	0.00	0.00
8,000.0	90.00	0.61	6,334.0	1,230.7	-778.1	1,348.3	0.00	0.00	0.00
8,100.0	90.00	0.61	6,334.0	1,330.7	-777.0	1,446.5	0.00	0.00	0.00
8,200.0	90.00	0.61	6,334.0	1,430.7	-775.9	1,544.8	0.00	0.00	0.00
8,300.0	90.00	0.61	6,334.0	1,530.7	-774.9	1,643.0	0.00	0.00	0.00
8,400.0	90.00	0.61	6,334.0	1,630.7	-773.8	1,741.3	0.00	0.00	0.00
8,500.0	90.00	0.61	6,334.0	1,730.7	-772.8	1,839.5	0.00	0.00	0.00
8,600.0	90.00	0.61	6,334.0	1,830.7	-771.7	1,937.8	0.00	0.00	0.00
8,700.0	90.00	0.61	6,334.0	1,930.7	-770.6	2,036.0	0.00	0.00	0.00
8,800.0	90.00	0.61	6,334.0	2,030.6	-769.6	2,134.3	0.00	0.00	0.00
8,900.0	90.00	0.61	6,334.0	2,130.6	-768.5	2,232.5	0.00	0.00	0.00
9,000.0	90.00	0.61	6,334.0	2,230.6	-767.4	2,330.8	0.00	0.00	0.00
9,100.0	90.00	0.61	6,334.0	2,330.6	-766.4	2,429.0	0.00	0.00	0.00

Plan Annotations					
	Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
			+N/-S	+E/-W	
			(ft)	(ft)	
	1,000.0	1,000.0	0.0	0.0	KOP #1
	5,921.8	5,813.1	-550.1	-797.0	KOP #2
	6,840.0	6,334.0	70.8	-790.4	End of Build



BONANZA CREEK ENERGY OPERATING

SEC.26-T5N-R63W

State North Platte 24-21-26HNB Sec.26-T5N-R63W

State North Platte 24-21-26HNB

Wellbore #1

Plan #2 (7-10-13)

Anticollision Report

10 July, 2013

Company:	BONANZA CREEK ENERGY OPERATING	Local Co-ordinate Reference:	Well State North Platte 24-21-26HNB
Project:	SEC.26-T5N-R63W	TVD Reference:	WELL @ 4566.0ft (RKB-15')
Reference Site:	State North Platte 24-21-26HNB Sec.26-T5N-R63W	MD Reference:	WELL @ 4566.0ft (RKB-15')
Site Error:	0.0ft	North Reference:	True
Reference Well:	State North Platte 24-21-26HNB	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 (7-10-13)	Offset TVD Reference:	Offset Datum

Reference	Plan #2 (7-10-13)		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.0ft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 1,000.0ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program	Date 7/10/2013			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	10,951.8	Plan #2 (7-10-13) (Wellbore #1)	MWD	MWD - Standard

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
State North Platte 24-21-26HNB Sec.26-T5N-R63W						
State North Platte 24-21-26HNC - Wellbore #1 - Plan #2	800.0	800.0	21.9	18.5	6.486	CC, ES
State North Platte 24-21-26HNC - Wellbore #1 - Plan #2	10,951.8	11,000.9	183.5	29.6	1.192	Level 2, SF
State North Platte O24-K21-26HNB - Wellbore #1 - Plan	600.0	600.0	40.1	37.6	16.212	CC, ES
State North Platte O24-K21-26HNB - Wellbore #1 - Plan	10,951.8	10,890.3	326.0	157.5	1.935	SF
State North Platte O24-K21-26HNC - Wellbore #1 - Plan	400.0	399.0	61.9	60.4	39.420	CC, ES
State North Platte O24-K21-26HNC - Wellbore #1 - Plan	10,951.8	10,956.8	495.3	327.7	2.956	SF
State North Platte O-K-26HNB - Wellbore #1 - Plan #2 (7	200.0	198.0	80.1	79.5	119.659	CC, ES
State North Platte O-K-26HNB - Wellbore #1 - Plan #2 (7	10,951.8	10,860.8	652.0	482.6	3.850	SF

Offset Design													
State North Platte 24-21-26HNB Sec.26-T5N-R63W - State North Platte 24-21-26HNC - Wellbore #1 - P													
Survey Program: 0-MWD													
Reference													
Offset													
Semi Major Axis													
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)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-180.00	-21.9	0.0	21.9				
100.0	100.0	100.0	100.0	0.1	0.1	-180.00	-21.9	0.0	21.9	21.6	0.22	97.287	
200.0	200.0	200.0	200.0	0.3	0.3	-180.00	-21.9	0.0	21.9	21.2	0.67	32.429	
300.0	300.0	300.0	300.0	0.6	0.6	-180.00	-21.9	0.0	21.9	20.7	1.12	19.457	
400.0	400.0	400.0	400.0	0.8	0.8	-180.00	-21.9	0.0	21.9	20.3	1.57	13.898	
500.0	500.0	500.0	500.0	1.0	1.0	-180.00	-21.9	0.0	21.9	19.8	2.02	10.810	
600.0	600.0	600.0	600.0	1.2	1.2	-180.00	-21.9	0.0	21.9	19.4	2.47	8.844	
700.0	700.0	700.0	700.0	1.5	1.5	-180.00	-21.9	0.0	21.9	18.9	2.92	7.484	
800.0	800.0	800.0	800.0	1.7	1.7	-180.00	-21.9	0.0	21.9	18.5	3.37	6.486	CC, ES
900.0	900.0	899.5	899.5	1.9	1.9	-176.70	-23.0	-1.3	23.0	19.2	3.80	6.062	
1,000.0	1,000.0	998.7	998.5	2.1	2.1	-168.63	-26.3	-5.3	26.8	22.6	4.21	6.377	
1,100.0	1,100.0	1,097.6	1,097.1	2.3	2.3	-36.59	-31.8	-11.9	32.6	28.0	4.61	7.072	
1,200.0	1,199.8	1,196.3	1,195.0	2.5	2.5	-31.89	-39.4	-21.0	38.9	33.9	5.00	7.772	
1,300.0	1,299.5	1,294.8	1,292.3	2.7	2.8	-28.88	-49.2	-32.7	45.4	40.0	5.41	8.402	
1,400.0	1,398.7	1,394.2	1,390.1	3.0	3.1	-27.33	-60.6	-46.4	51.3	45.5	5.83	8.802	
1,500.0	1,497.5	1,494.1	1,488.4	3.2	3.4	-27.68	-72.2	-60.3	54.2	48.0	6.28	8.642	
1,600.0	1,595.6	1,594.1	1,586.7	3.5	3.8	-29.76	-83.8	-74.2	54.1	47.3	6.76	8.002	
1,700.0	1,693.1	1,694.0	1,685.0	3.9	4.1	-33.88	-95.4	-88.1	51.2	43.8	7.32	6.987	

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

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Site Error:	0.0ft	North Reference:	True
Reference Well:	State North Platte 24-21-26HNB	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 (7-10-13)	Offset TVD Reference:	Offset Datum

Offset Design State North Platte 24-21-26HNB Sec.26-T5N-R63W - State North Platte 24-21-26HNC - Wellbore #1 - P													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	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
1,800.0	1,790.3	1,793.8	1,783.1	4.3	4.5	-39.22	-107.0	-102.0	47.7	39.7	8.00	5.968		
1,900.0	1,887.5	1,893.7	1,881.3	4.7	4.9	-45.33	-118.6	-115.8	44.7	36.0	8.77	5.102		
2,000.0	1,984.7	1,993.5	1,979.5	5.1	5.3	-52.21	-130.2	-129.7	42.4	32.7	9.66	4.386		
2,100.0	2,081.9	2,093.3	2,077.7	5.6	5.7	-59.79	-141.8	-143.6	40.6	30.0	10.64	3.819		
2,200.0	2,179.2	2,193.2	2,175.9	6.1	6.1	-67.87	-153.4	-157.5	39.7	28.0	11.70	3.393		
2,264.8	2,242.2	2,257.9	2,239.5	6.4	6.3	-73.25	-160.9	-166.5	39.5	27.1	12.40	3.188		
2,300.0	2,276.4	2,293.0	2,274.1	6.5	6.5	-76.18	-165.0	-171.3	39.6	26.8	12.77	3.099		
2,400.0	2,373.6	2,392.8	2,372.2	7.0	6.9	-84.36	-176.5	-185.2	40.3	26.5	13.80	2.919		
2,500.0	2,470.8	2,492.7	2,470.4	7.5	7.3	-92.12	-188.1	-199.1	41.8	27.0	14.74	2.834		
2,600.0	2,568.0	2,592.5	2,568.6	8.0	7.7	-99.22	-199.7	-213.0	44.0	28.4	15.58	2.822		
2,700.0	2,665.3	2,692.3	2,666.8	8.4	8.1	-105.55	-211.3	-226.8	46.8	30.5	16.33	2.865		
2,800.0	2,762.5	2,792.2	2,765.0	8.9	8.5	-111.12	-222.9	-240.7	50.1	33.1	16.99	2.948		
2,900.0	2,859.7	2,892.0	2,863.2	9.4	8.9	-115.95	-234.5	-254.6	53.8	36.2	17.60	3.058		
3,000.0	2,956.9	2,991.8	2,961.4	9.9	9.3	-120.14	-246.1	-268.4	57.9	39.7	18.17	3.185		
3,100.0	3,054.1	3,091.7	3,059.5	10.4	9.7	-123.76	-257.6	-282.3	62.2	43.5	18.72	3.324		
3,200.0	3,151.4	3,191.5	3,157.7	10.9	10.1	-126.90	-269.2	-296.2	66.7	47.5	19.25	3.468		
3,300.0	3,248.6	3,291.3	3,255.9	11.4	10.5	-129.63	-280.8	-310.1	71.5	51.7	19.77	3.615		
3,400.0	3,345.8	3,391.2	3,354.1	11.9	11.0	-132.02	-292.4	-323.9	76.3	56.0	20.29	3.762		
3,500.0	3,443.0	3,491.0	3,452.3	12.4	11.4	-134.12	-304.0	-337.8	81.3	60.5	20.80	3.908		
3,600.0	3,540.2	3,590.8	3,550.5	12.9	11.8	-135.98	-315.6	-351.7	86.4	65.0	21.33	4.050		
3,700.0	3,637.4	3,690.7	3,648.6	13.4	12.2	-137.63	-327.2	-365.6	91.5	69.7	21.85	4.189		
3,800.0	3,734.7	3,790.5	3,746.8	13.9	12.6	-139.10	-338.7	-379.4	96.7	74.4	22.38	4.323		
3,900.0	3,831.9	3,890.3	3,845.0	14.4	13.0	-140.42	-350.3	-393.3	102.0	79.1	22.91	4.453		
4,000.0	3,929.1	3,990.2	3,943.2	14.9	13.4	-141.62	-361.9	-407.2	107.3	83.9	23.44	4.579		
4,100.0	4,026.3	4,090.0	4,041.4	15.4	13.8	-142.69	-373.5	-421.1	112.7	88.7	23.98	4.700		
4,200.0	4,123.5	4,189.8	4,139.6	15.9	14.3	-143.67	-385.1	-434.9	118.1	93.6	24.52	4.817		
4,300.0	4,220.8	4,289.7	4,237.7	16.5	14.7	-144.57	-396.7	-448.8	123.5	98.5	25.07	4.929		
4,400.0	4,318.0	4,389.5	4,335.9	17.0	15.1	-145.39	-408.3	-462.7	129.0	103.4	25.62	5.036		
4,500.0	4,415.2	4,489.3	4,434.1	17.5	15.5	-146.14	-419.8	-476.6	134.5	108.3	26.17	5.140		
4,600.0	4,512.4	4,589.2	4,532.3	18.0	15.9	-146.83	-431.4	-490.4	140.0	113.3	26.72	5.240		
4,700.0	4,609.6	4,689.0	4,630.5	18.5	16.3	-147.47	-443.0	-504.3	145.5	118.3	27.28	5.335		
4,800.0	4,706.8	4,788.9	4,728.7	19.0	16.8	-148.06	-454.6	-518.2	151.1	123.2	27.84	5.427		
4,900.0	4,804.1	4,888.7	4,826.9	19.5	17.2	-148.61	-466.2	-532.0	156.6	128.2	28.40	5.516		
5,000.0	4,901.3	4,988.5	4,925.0	20.0	17.6	-149.13	-477.8	-545.9	162.2	133.2	28.96	5.601		
5,100.0	4,998.5	5,088.4	5,023.2	20.5	18.0	-149.61	-489.4	-559.8	167.8	138.3	29.53	5.683		
5,200.0	5,095.9	5,188.2	5,121.4	21.0	18.4	-149.95	-501.0	-573.7	172.7	142.6	30.11	5.736		
5,300.0	5,194.0	5,288.2	5,219.8	21.3	18.8	-149.73	-512.6	-587.6	174.7	143.9	30.75	5.681		
5,400.0	5,292.7	5,386.4	5,316.4	21.6	19.2	-148.95	-523.8	-601.0	173.9	142.4	31.47	5.526		
5,500.0	5,391.9	5,481.7	5,410.6	21.8	19.5	-148.11	-533.1	-612.2	172.3	140.2	32.09	5.369		
5,600.0	5,491.5	5,577.2	5,505.3	22.0	19.7	-147.31	-540.4	-620.9	170.5	137.8	32.65	5.221		
5,700.0	5,591.4	5,672.7	5,600.5	22.2	19.9	-146.53	-545.7	-627.3	168.3	135.2	33.14	5.079		
5,800.0	5,691.3	5,768.3	5,696.0	22.3	20.1	-145.78	-549.0	-631.2	165.9	132.3	33.58	4.940		
5,900.0	5,791.3	5,864.0	5,791.7	22.4	20.2	90.02	-550.2	-632.6	164.4	130.6	33.82	4.861		
5,947.2	5,838.5	5,910.9	5,838.5	22.5	20.2	90.00	-550.2	-632.6	164.4	130.2	34.24	4.801		
6,000.0	5,891.0	5,963.4	5,891.0	22.5	20.3	91.44	-550.2	-632.6	164.4	129.7	34.73	4.734		
6,100.0	5,987.9	6,064.4	5,991.5	22.4	20.4	97.10	-542.1	-632.5	165.7	129.6	36.10	4.589		
6,200.0	6,078.3	6,168.9	6,091.9	22.3	20.3	102.50	-513.6	-632.2	168.5	131.8	36.70	4.590		
6,300.0	6,159.0	6,277.0	6,187.6	22.0	20.1	107.34	-463.7	-631.7	172.3	136.0	36.33	4.743		
6,400.0	6,226.9	6,388.7	6,273.5	21.7	19.8	111.41	-392.5	-631.0	176.6	141.5	35.10	5.032		
6,500.0	6,279.7	6,503.7	6,343.9	21.3	19.4	114.56	-301.9	-630.1	180.7	147.3	33.42	5.406		
6,600.0	6,315.3	6,621.4	6,393.7	21.0	19.0	116.71	-195.6	-629.0	183.8	151.9	31.94	5.756		

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

Offset Design		State North Platte 24-21-26HNB Sec.26-T5N-R63W - State North Platte 24-21-26HNC - Wellbore #1 - P										Offset Site Error:		0.0 ft
Survey Program: 0-MWD												Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre +N/-S	+E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)			
6,700.0	6,332.5	6,740.8	6,418.6	20.7	18.6	117.80	-79.1	-627.9	185.5	154.2	31.28	5.930		
6,900.0	6,334.0	6,949.1	6,421.0	20.4	18.3	117.95	129.1	-625.8	185.6	152.8	32.82	5.656		
7,000.0	6,334.0	7,049.1	6,421.0	20.4	18.4	117.96	229.1	-624.8	185.6	151.4	34.15	5.435		
7,100.0	6,334.0	7,149.1	6,421.0	20.8	19.1	117.96	329.1	-623.8	185.5	149.8	35.76	5.188		
7,200.0	6,334.0	7,249.1	6,421.0	21.4	20.1	117.97	429.1	-622.8	185.5	147.9	37.63	4.930		
7,300.0	6,334.0	7,349.1	6,421.0	22.3	21.3	117.98	529.1	-621.8	185.4	145.7	39.70	4.670		
7,400.0	6,334.0	7,449.1	6,421.0	23.4	22.6	117.99	629.1	-620.8	185.4	143.4	41.96	4.418		
7,500.0	6,334.0	7,549.1	6,421.0	24.6	23.9	118.00	729.1	-619.8	185.3	141.0	44.37	4.176		
7,600.0	6,334.0	7,649.1	6,421.0	25.9	25.3	118.01	829.1	-618.8	185.3	138.4	46.92	3.949		
7,700.0	6,334.0	7,749.1	6,421.0	27.3	26.8	118.02	929.1	-617.8	185.2	135.7	49.57	3.737		
7,800.0	6,334.0	7,849.1	6,421.0	28.7	28.3	118.02	1,029.1	-616.8	185.2	132.9	52.31	3.540		
7,900.0	6,334.0	7,949.1	6,421.0	30.3	29.9	118.03	1,129.1	-615.7	185.1	130.0	55.14	3.357		
8,000.0	6,334.0	8,049.1	6,421.0	31.8	31.5	118.04	1,229.1	-614.7	185.1	127.0	58.03	3.189		
8,100.0	6,334.0	8,149.1	6,421.0	33.4	33.2	118.05	1,329.0	-613.7	185.0	124.0	60.98	3.034		
8,200.0	6,334.0	8,249.1	6,421.0	35.0	34.8	118.06	1,429.0	-612.7	185.0	121.0	63.98	2.891		
8,300.0	6,334.0	8,349.1	6,421.0	36.7	36.5	118.07	1,529.0	-611.7	184.9	117.9	67.03	2.759		
8,400.0	6,334.0	8,449.1	6,421.0	38.3	38.2	118.08	1,629.0	-610.7	184.9	114.7	70.11	2.637		
8,500.0	6,334.0	8,549.1	6,421.0	40.0	39.9	118.08	1,729.0	-609.7	184.8	111.6	73.22	2.524		
8,600.0	6,334.0	8,649.1	6,421.0	41.7	41.7	118.09	1,829.0	-608.7	184.8	108.4	76.36	2.419		
8,700.0	6,334.0	8,749.1	6,421.0	43.5	43.4	118.10	1,929.0	-607.7	184.7	105.2	79.53	2.322		
8,800.0	6,334.0	8,849.1	6,421.0	45.2	45.2	118.11	2,029.0	-606.7	184.6	101.9	82.72	2.232		
8,900.0	6,334.0	8,949.1	6,421.0	47.0	47.0	118.12	2,129.0	-605.7	184.6	98.7	85.92	2.148		
9,000.0	6,334.0	9,049.1	6,421.0	48.7	48.8	118.13	2,229.0	-604.7	184.5	95.4	89.15	2.070		
9,100.0	6,334.0	9,149.1	6,421.0	50.5	50.6	118.14	2,329.0	-603.7	184.5	92.1	92.39	1.997		
9,200.0	6,334.0	9,249.1	6,421.0	52.3	52.4	118.15	2,429.0	-602.7	184.4	88.8	95.65	1.928		
9,300.0	6,334.0	9,349.1	6,421.0	54.1	54.2	118.15	2,529.0	-601.7	184.4	85.5	98.91	1.864		
9,400.0	6,334.0	9,449.1	6,421.0	55.9	56.0	118.16	2,629.0	-600.7	184.3	82.1	102.19	1.804		
9,500.0	6,334.0	9,549.1	6,421.0	57.7	57.8	118.17	2,729.0	-599.7	184.3	78.8	105.48	1.747		
9,600.0	6,334.0	9,649.1	6,421.0	59.5	59.6	118.18	2,829.0	-598.7	184.2	75.4	108.78	1.694		
9,700.0	6,334.0	9,749.1	6,421.0	61.3	61.5	118.19	2,929.0	-597.7	184.2	72.1	112.09	1.643		
9,800.0	6,334.0	9,849.1	6,421.0	63.2	63.3	118.20	3,029.0	-596.7	184.1	68.7	115.40	1.596		
9,900.0	6,334.0	9,949.1	6,421.0	65.0	65.2	118.21	3,129.0	-595.7	184.1	65.4	118.72	1.550		
10,000.0	6,334.0	10,049.1	6,421.0	66.8	67.0	118.21	3,229.0	-594.7	184.0	62.0	122.05	1.508		
10,100.0	6,334.0	10,149.1	6,421.0	68.7	68.9	118.22	3,328.9	-593.7	184.0	58.6	125.38	1.467 Level 3		
10,200.0	6,334.0	10,249.1	6,421.0	70.5	70.7	118.23	3,428.9	-592.7	183.9	55.2	128.72	1.429 Level 3		
10,300.0	6,334.0	10,349.1	6,421.0	72.4	72.6	118.24	3,528.9	-591.7	183.9	51.8	132.06	1.392 Level 3		
10,400.0	6,334.0	10,449.1	6,421.0	74.2	74.4	118.25	3,628.9	-590.7	183.8	48.4	135.41	1.357 Level 3		
10,500.0	6,334.0	10,549.1	6,421.0	76.1	76.3	118.26	3,728.9	-589.7	183.8	45.0	138.76	1.324 Level 3		
10,600.0	6,334.0	10,649.1	6,421.0	77.9	78.2	118.27	3,828.9	-588.6	183.7	41.6	142.12	1.293 Level 3		
10,700.0	6,334.0	10,749.1	6,421.0	79.8	80.0	118.28	3,928.9	-587.6	183.7	38.2	145.48	1.262 Level 3		
10,800.0	6,334.0	10,849.1	6,421.0	81.7	81.9	118.28	4,028.9	-586.6	183.6	34.8	148.84	1.234 Level 2		
10,900.0	6,334.0	10,949.1	6,421.0	83.5	83.8	118.29	4,128.9	-585.6	183.6	31.3	152.20	1.206 Level 2		
10,951.8	6,334.0	11,000.9	6,421.0	84.5	84.8	118.30	4,180.7	-585.1	183.5	29.6	153.95	1.192 Level 2, SF		

Offset Design													State North Platte 24-21-26HNB Sec.26-T5N-R63W - State North Platte O24-K21-26HNB - Wellbore #1		Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft		
Reference		Offset		Semi Major Axis			Distance									
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	+E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning			
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	(ft)	(ft)	(ft)	(ft)	(ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-180.00	-40.1	0.0	40.1							
100.0	100.0	100.0	100.0	0.1	0.1	-180.00	-40.1	0.0	40.1	39.9	0.22	178.329				
200.0	200.0	200.0	200.0	0.3	0.3	-180.00	-40.1	0.0	40.1	39.4	0.67	59.443				
300.0	300.0	300.0	300.0	0.6	0.6	-180.00	-40.1	0.0	40.1	39.0	1.12	35.666				
400.0	400.0	400.0	400.0	0.8	0.8	-180.00	-40.1	0.0	40.1	38.5	1.57	25.476				
500.0	500.0	500.0	500.0	1.0	1.0	-180.00	-40.1	0.0	40.1	38.1	2.02	19.814				
600.0	600.0	600.0	600.0	1.2	1.2	-180.00	-40.1	0.0	40.1	37.6	2.47	16.212	CC, ES			
700.0	700.0	698.9	698.9	1.5	1.4	-178.39	-41.3	-1.2	41.4	38.5	2.90	14.285				
800.0	800.0	797.7	797.5	1.7	1.6	-174.15	-45.1	-4.6	45.4	42.1	3.31	13.718				
900.0	900.0	895.9	895.4	1.9	1.8	-168.59	-51.3	-10.4	52.5	48.8	3.74	14.034				
1,000.0	1,000.0	993.4	992.2	2.1	2.1	-163.01	-59.9	-18.3	63.1	58.9	4.21	15.001				
1,100.0	1,100.0	1,091.8	1,089.5	2.3	2.3	-34.24	-70.6	-28.1	75.3	70.7	4.60	16.367				
1,200.0	1,199.8	1,191.3	1,187.8	2.5	2.7	-32.39	-81.6	-38.3	85.0	80.0	5.00	16.986				
1,300.0	1,299.5	1,291.0	1,286.4	2.7	3.0	-32.05	-92.6	-48.5	91.8	86.4	5.43	16.922				
1,400.0	1,398.7	1,390.9	1,385.2	3.0	3.3	-32.89	-103.6	-58.6	95.7	89.8	5.87	16.304				
1,500.0	1,497.5	1,490.9	1,484.0	3.2	3.6	-34.83	-114.6	-68.8	96.7	90.4	6.34	15.246				
1,600.0	1,595.6	1,590.7	1,582.7	3.5	4.0	-38.02	-125.6	-79.0	95.1	88.2	6.87	13.845				
1,700.0	1,693.1	1,690.3	1,681.2	3.9	4.3	-42.72	-136.6	-89.2	91.2	83.7	7.48	12.199				
1,800.0	1,790.3	1,789.9	1,779.6	4.3	4.7	-48.26	-147.6	-99.3	87.3	79.1	8.19	10.660				
1,900.0	1,887.5	1,889.4	1,878.1	4.7	5.0	-54.26	-158.6	-109.5	84.3	75.3	8.99	9.378				
2,000.0	1,984.7	1,989.0	1,976.5	5.1	5.4	-60.62	-169.6	-119.6	82.2	72.4	9.86	8.338				
2,100.0	2,081.9	2,088.5	2,074.9	5.6	5.7	-67.21	-180.6	-129.8	81.3	70.5	10.80	7.525				
2,137.2	2,118.1	2,125.5	2,111.5	5.8	5.9	-69.69	-184.7	-133.5	81.2	70.0	11.16	7.276				
2,200.0	2,179.2	2,188.1	2,173.3	6.1	6.1	-73.87	-191.6	-139.9	81.4	69.7	11.77	6.917				
2,300.0	2,276.4	2,287.6	2,271.7	6.5	6.4	-80.42	-202.6	-150.0	82.7	69.9	12.74	6.486				
2,400.0	2,373.6	2,387.2	2,370.2	7.0	6.8	-86.70	-213.6	-160.2	85.0	71.3	13.69	6.206				
2,500.0	2,470.8	2,486.7	2,468.6	7.5	7.2	-92.58	-224.6	-170.3	88.2	73.6	14.59	6.046				
2,600.0	2,568.0	2,586.3	2,567.0	8.0	7.5	-98.00	-235.6	-180.5	92.3	76.9	15.44	5.982				
2,700.0	2,665.3	2,685.8	2,665.4	8.4	7.9	-102.92	-246.6	-190.6	97.2	81.0	16.23	5.990				
2,800.0	2,762.5	2,785.4	2,763.8	8.9	8.3	-107.34	-257.5	-200.8	102.7	85.8	16.97	6.053				
2,900.0	2,859.7	2,884.9	2,862.2	9.4	8.6	-111.29	-268.5	-210.9	108.8	91.1	17.68	6.156				
3,000.0	2,956.9	2,984.5	2,960.7	9.9	9.0	-114.81	-279.5	-221.1	115.3	97.0	18.35	6.287				
3,100.0	3,054.1	3,084.0	3,059.1	10.4	9.3	-117.94	-290.5	-231.2	122.3	103.3	18.99	6.438				
3,200.0	3,151.4	3,183.6	3,157.5	10.9	9.7	-120.74	-301.5	-241.4	129.5	109.9	19.62	6.603				
3,300.0	3,248.6	3,283.1	3,255.9	11.4	10.1	-123.23	-312.5	-251.5	137.0	116.8	20.23	6.776				
3,400.0	3,345.8	3,382.7	3,354.3	11.9	10.4	-125.46	-323.5	-261.7	144.8	124.0	20.83	6.953				
3,500.0	3,443.0	3,482.2	3,452.8	12.4	10.8	-127.46	-334.5	-271.8	152.8	131.3	21.42	7.132				
3,600.0	3,540.2	3,581.8	3,551.2	12.9	11.2	-129.26	-345.5	-282.0	160.9	138.9	22.00	7.311				
3,700.0	3,637.4	3,681.3	3,649.6	13.4	11.5	-130.89	-356.5	-292.1	169.1	146.6	22.59	7.488				
3,800.0	3,734.7	3,780.9	3,748.0	13.9	11.9	-132.36	-367.4	-302.3	177.5	154.4	23.17	7.662				
3,900.0	3,831.9	3,880.4	3,846.4	14.4	12.3	-133.70	-378.4	-312.4	186.0	162.3	23.75	7.833				
4,000.0	3,929.1	3,980.0	3,944.8	14.9	12.6	-134.93	-389.4	-322.6	194.6	170.3	24.33	7.999				
4,100.0	4,026.3	4,079.5	4,043.3	15.4	13.0	-136.05	-400.4	-332.7	203.3	178.4	24.91	8.161				
4,200.0	4,123.5	4,179.0	4,141.7	15.9	13.4	-137.08	-411.4	-342.9	212.0	186.5	25.49	8.318				
4,300.0	4,220.8	4,278.6	4,240.1	16.5	13.7	-138.02	-422.4	-353.0	220.8	194.7	26.07	8.471				
4,400.0	4,318.0	4,378.1	4,338.5	17.0	14.1	-138.90	-433.4	-363.2	229.7	203.0	26.65	8.619				
4,500.0	4,415.2	4,477.7	4,436.9	17.5	14.5	-139.71	-444.4	-373.3	238.6	211.3	27.23	8.762				
4,600.0	4,512.4	4,577.2	4,535.4	18.0	14.8	-140.46	-455.4	-383.4	247.5	219.7	27.81	8.900				
4,700.0	4,609.6	4,676.8	4,633.8	18.5	15.2	-141.15	-466.4	-393.6	256.5	228.1	28.39	9.034				
4,800.0	4,706.8	4,776.3	4,732.2	19.0	15.6	-141.81	-477.3	-403.7	265.5	236.6	28.98	9.163				
4,900.0	4,804.1	4,875.9	4,830.6	19.5	15.9	-142.41	-488.3	-413.9	274.6	245.0	29.56	9.288				

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Company:	BONANZA CREEK ENERGY OPERATING	Local Co-ordinate Reference:	Well State North Platte 24-21-26HNB
Project:	SEC.26-T5N-R63W	TVD Reference:	WELL @ 4566.0ft (RKB-15')
Reference Site:	State North Platte 24-21-26HNB Sec.26-T5N-R63W	MD Reference:	WELL @ 4566.0ft (RKB-15')
Site Error:	0.0ft	North Reference:	True
Reference Well:	State North Platte 24-21-26HNB	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 (7-10-13)	Offset TVD Reference:	Offset Datum

Offset Design State North Platte 24-21-26HNB Sec.26-T5N-R63W - State North Platte O24-K21-26HNB - Wellbore #1													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 (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	Warning	
5,000.0	4,901.3	4,975.4	4,929.0	20.0	16.3	-142.98	-499.3	-424.0	283.7	253.5	30.15	9.409		
5,100.0	4,998.5	5,075.0	5,027.4	20.5	16.7	-143.52	-510.3	-434.2	292.8	262.0	30.73	9.526		
5,200.0	5,095.9	5,174.6	5,125.9	21.0	17.0	-143.99	-521.3	-444.3	301.2	269.9	31.32	9.619		
5,300.0	5,194.0	5,270.7	5,221.0	21.3	17.3	-144.16	-531.6	-453.8	307.4	275.5	31.84	9.653		
5,400.0	5,292.7	5,369.3	5,313.5	21.6	17.6	-144.33	-539.5	-461.2	312.6	280.4	32.26	9.692		
5,500.0	5,391.9	5,466.9	5,406.3	21.8	17.7	-144.56	-545.3	-466.5	317.2	284.6	32.59	9.735		
5,600.0	5,491.5	5,569.9	5,499.1	22.0	17.9	-144.84	-548.8	-469.7	321.2	288.3	32.84	9.779		
5,700.0	5,591.4	5,672.8	5,592.0	22.2	18.0	-145.17	-550.1	-470.9	324.4	291.4	33.03	9.821		
5,800.0	5,691.3	5,774.1	5,691.3	22.3	18.2	-145.39	-550.1	-470.9	326.1	292.9	33.22	9.816		
5,900.0	5,791.3	5,874.1	5,791.3	22.4	18.3	90.00	-550.1	-470.9	326.1	292.7	33.36	9.775		
6,000.0	5,891.0	5,974.6	5,890.5	22.5	18.4	89.39	-544.3	-470.8	326.1	292.4	33.67	9.684		
6,100.0	5,987.9	6,071.0	5,986.8	22.4	18.3	89.42	-520.3	-470.6	326.1	292.5	33.55	9.720		
6,200.0	6,078.3	6,164.4	6,076.8	22.3	18.2	89.47	-478.4	-470.1	326.1	292.9	33.17	9.831		
6,300.0	6,159.0	6,249.8	6,157.2	22.0	17.9	89.54	-420.2	-469.5	326.1	293.5	32.62	9.995		
6,400.0	6,226.9	6,319.4	6,225.3	21.7	17.6	89.63	-347.8	-468.8	326.1	294.0	32.04	10.177		
6,500.0	6,279.7	6,370.0	6,278.3	21.3	17.3	89.73	-263.6	-467.9	326.1	294.5	31.56	10.331		
6,600.0	6,315.3	6,401.8	6,314.4	21.0	17.0	89.84	-170.8	-466.9	326.1	294.7	31.34	10.404		
6,700.0	6,332.5	6,420.7	6,332.2	20.7	16.7	89.95	-72.6	-465.8	326.1	294.6	31.48	10.359		
6,800.0	6,334.0	6,423.7	6,334.0	20.5	16.4	90.00	27.3	-464.8	326.1	294.0	32.03	10.179		
6,900.0	6,334.0	6,423.7	6,334.0	20.4	16.4	90.00	127.3	-463.7	326.1	293.1	33.01	9.877		
7,000.0	6,334.0	6,423.7	6,334.0	20.4	17.3	90.00	227.3	-462.7	326.1	291.7	34.39	9.483		
7,100.0	6,334.0	7,038.7	6,334.0	20.8	18.3	90.00	327.3	-461.6	326.1	290.0	36.12	9.029		
7,200.0	6,334.0	7,138.7	6,334.0	21.4	19.5	90.00	427.3	-460.5	326.1	287.9	38.15	8.546		
7,300.0	6,334.0	7,238.7	6,334.0	22.3	20.7	90.00	527.3	-459.5	326.1	285.6	40.45	8.061		
7,400.0	6,334.0	7,338.7	6,334.0	23.4	22.1	90.00	627.3	-458.4	326.1	283.1	42.97	7.588		
7,500.0	6,334.0	7,438.7	6,334.0	24.6	23.5	90.00	727.3	-457.3	326.1	280.4	45.67	7.139		
7,600.0	6,334.0	7,538.7	6,334.0	25.9	24.9	90.00	827.3	-456.3	326.1	277.5	48.53	6.719		
7,700.0	6,334.0	7,638.7	6,334.0	27.3	26.5	90.00	927.2	-455.2	326.1	274.5	51.51	6.330		
7,800.0	6,334.0	7,738.7	6,334.0	28.7	28.0	90.00	1,027.2	-454.2	326.1	271.5	54.60	5.972		
7,900.0	6,334.0	7,838.7	6,334.0	30.3	29.6	90.00	1,127.2	-453.1	326.1	268.3	57.78	5.643		
8,000.0	6,334.0	7,938.7	6,334.0	31.8	31.3	90.00	1,227.2	-452.0	326.1	265.0	61.03	5.342		
8,100.0	6,334.0	8,038.7	6,334.0	33.4	32.9	90.00	1,327.2	-451.0	326.1	261.7	64.35	5.067		
8,200.0	6,334.0	8,138.7	6,334.0	35.0	34.6	90.00	1,427.2	-449.9	326.0	258.3	67.73	4.814		
8,300.0	6,334.0	8,238.7	6,334.0	36.7	36.3	90.00	1,527.2	-448.9	326.0	254.9	71.15	4.583		
8,400.0	6,334.0	8,338.7	6,334.0	38.3	38.1	90.00	1,627.2	-447.8	326.0	251.4	74.61	4.370		
8,500.0	6,334.0	8,438.7	6,334.0	40.0	39.8	90.00	1,727.2	-446.7	326.0	247.9	78.10	4.175		
8,600.0	6,334.0	8,538.7	6,334.0	41.7	41.6	90.00	1,827.2	-445.7	326.0	244.4	81.63	3.994		
8,700.0	6,334.0	8,638.7	6,334.0	43.5	43.4	90.00	1,927.2	-444.6	326.0	240.9	85.18	3.828		
8,800.0	6,334.0	8,738.7	6,334.0	45.2	45.1	90.00	2,027.2	-443.5	326.0	237.3	88.76	3.673		
8,900.0	6,334.0	8,838.7	6,334.0	47.0	46.9	90.00	2,127.2	-442.5	326.0	233.7	92.35	3.530		
9,000.0	6,334.0	8,938.7	6,334.0	48.7	48.7	90.00	2,227.2	-441.4	326.0	230.1	95.97	3.397		
9,100.0	6,334.0	9,038.7	6,334.0	50.5	50.6	90.00	2,327.2	-440.4	326.0	226.4	99.60	3.273		
9,200.0	6,334.0	9,138.7	6,334.0	52.3	52.4	90.00	2,427.2	-439.3	326.0	222.8	103.25	3.158		
9,300.0	6,334.0	9,238.7	6,334.0	54.1	54.2	90.00	2,527.2	-438.2	326.0	219.1	106.91	3.050		
9,400.0	6,334.0	9,338.7	6,334.0	55.9	56.0	90.00	2,627.2	-437.2	326.0	215.5	110.58	2.948		
9,500.0	6,334.0	9,438.7	6,334.0	57.7	57.9	90.00	2,727.1	-436.1	326.0	211.8	114.26	2.853		
9,600.0	6,334.0	9,538.7	6,334.0	59.5	59.7	90.00	2,827.1	-435.1	326.0	208.1	117.95	2.764		
9,700.0	6,334.0	9,638.7	6,334.0	61.3	61.6	90.00	2,927.1	-434.0	326.0	204.4	121.66	2.680		
9,800.0	6,334.0	9,738.7	6,334.0	63.2	63.4	90.00	3,027.1	-432.9	326.0	200.7	125.36	2.601		
9,900.0	6,334.0	9,838.7	6,334.0	65.0	65.3	90.00	3,127.1	-431.9	326.0	196.9	129.08	2.526		
10,000.0	6,334.0	9,938.7	6,334.0	66.8	67.1	90.00	3,227.1	-430.8	326.0	193.2	132.80	2.455		

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 24-21-26HNB
Project:	SEC.26-T5N-R63W	TVD Reference:	WELL @ 4566.0ft (RKB-15')
Reference Site:	State North Platte 24-21-26HNB Sec.26-T5N-R63W	MD Reference:	WELL @ 4566.0ft (RKB-15')
Site Error:	0.0ft	North Reference:	True
Reference Well:	State North Platte 24-21-26HNB	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 (7-10-13)	Offset TVD Reference:	Offset Datum

Offset Design													State North Platte 24-21-26HNB Sec.26-T5N-R63W - State North Platte O24-K21-26HNB - Wellbore #1		Offset Site Error:		0.0 ft	
Survey Program: 0-MWD															Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning				
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor						
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)							
10,100.0	6,334.0	10,038.7	6,334.0	68.7	69.0	90.00	3,327.1	-429.8	326.0	189.5	136.53	2.388						
10,200.0	6,334.0	10,138.7	6,334.0	70.5	70.9	90.00	3,427.1	-428.7	326.0	185.7	140.27	2.324						
10,300.0	6,334.0	10,238.7	6,334.0	72.4	72.7	90.00	3,527.1	-427.6	326.0	182.0	144.01	2.264						
10,400.0	6,334.0	10,338.7	6,334.0	74.2	74.6	90.00	3,627.1	-426.6	326.0	178.3	147.75	2.206						
10,500.0	6,334.0	10,438.7	6,334.0	76.1	76.5	90.00	3,727.1	-425.5	326.0	174.5	151.50	2.152						
10,600.0	6,334.0	10,538.7	6,334.0	77.9	78.3	90.00	3,827.1	-424.4	326.0	170.8	155.26	2.100						
10,700.0	6,334.0	10,638.7	6,334.0	79.8	80.2	90.00	3,927.1	-423.4	326.0	167.0	159.02	2.050						
10,800.0	6,334.0	10,738.7	6,334.0	81.7	82.1	90.00	4,027.1	-422.3	326.0	163.2	162.78	2.003						
10,900.0	6,334.0	10,838.7	6,334.0	83.5	84.0	90.00	4,127.1	-421.3	326.0	159.5	166.54	1.958						
10,935.2	6,334.0	10,873.8	6,334.0	84.2	84.6	90.00	4,162.2	-420.9	326.0	158.1	167.87	1.942						
10,951.8	6,334.0	10,890.3	6,334.0	84.5	84.9	90.00	4,178.7	-420.7	326.0	157.5	168.49	1.935 SF						

Company:	BONANZA CREEK ENERGY OPERATING	Local Co-ordinate Reference:	Well State North Platte 24-21-26HNB
Project:	SEC.26-T5N-R63W	TVD Reference:	WELL @ 4566.0ft (RKB-15')
Reference Site:	State North Platte 24-21-26HNB Sec.26-T5N-R63W	MD Reference:	WELL @ 4566.0ft (RKB-15')
Site Error:	0.0ft	North Reference:	True
Reference Well:	State North Platte 24-21-26HNB	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 (7-10-13)	Offset TVD Reference:	Offset Datum

Offset Design State North Platte 24-21-26HNB Sec.26-T5N-R63W - State North Platte O24-K21-26HNC - Wellbore #1													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 (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	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	-180.00	-61.9	0.0	61.9					
100.0	100.0	99.0	99.0	0.1	0.1	-180.00	-61.9	0.0	61.9	61.7	0.22	276.925		
200.0	200.0	199.0	199.0	0.3	0.3	-180.00	-61.9	0.0	61.9	61.3	0.67	92.155		
300.0	300.0	299.0	299.0	0.6	0.6	-180.00	-61.9	0.0	61.9	60.8	1.12	55.219		
400.0	400.0	399.0	399.0	0.8	0.8	-180.00	-61.9	0.0	61.9	60.4	1.57	39.420 CC, ES		
500.0	500.0	497.2	497.2	1.0	1.0	-179.21	-63.3	-0.9	63.4	61.4	1.99	31.796		
600.0	600.0	595.1	595.0	1.2	1.2	-177.01	-67.6	-3.5	67.8	65.4	2.41	28.140		
700.0	700.0	692.6	692.1	1.5	1.4	-173.92	-74.6	-7.9	75.3	72.5	2.85	26.430		
800.0	800.0	791.0	789.9	1.7	1.6	-170.64	-84.0	-13.8	85.6	82.3	3.32	25.752		
900.0	900.0	890.4	888.6	1.9	1.9	-167.99	-93.7	-19.9	96.3	92.5	3.82	25.238		
1,000.0	1,000.0	989.7	987.2	2.1	2.2	-165.88	-103.4	-26.0	107.2	102.9	4.32	24.828		
1,100.0	1,100.0	1,089.2	1,086.1	2.3	2.5	-39.96	-113.1	-32.1	116.9	112.3	4.61	25.387		
1,200.0	1,199.8	1,188.9	1,185.2	2.5	2.8	-39.89	-122.8	-38.2	124.0	118.9	5.02	24.682		
1,300.0	1,299.5	1,288.8	1,284.4	2.7	3.1	-40.85	-132.6	-44.3	128.3	122.9	5.46	23.520		
1,400.0	1,398.7	1,388.7	1,383.6	3.0	3.4	-42.80	-142.3	-50.5	130.2	124.3	5.92	22.008		
1,500.0	1,497.5	1,488.5	1,482.7	3.2	3.7	-45.80	-152.0	-56.6	129.7	123.3	6.41	20.238		
1,600.0	1,595.6	1,588.0	1,581.5	3.5	4.0	-50.01	-161.8	-62.7	127.4	120.4	6.97	18.285		
1,700.0	1,693.1	1,687.2	1,680.1	3.9	4.3	-55.61	-171.4	-68.7	123.7	116.1	7.61	16.255		
1,800.0	1,790.3	1,786.2	1,778.4	4.3	4.6	-61.86	-181.1	-74.8	120.9	112.5	8.35	14.474		
1,900.0	1,887.5	1,885.3	1,876.8	4.7	4.9	-68.32	-190.8	-80.9	119.5	110.4	9.15	13.057		
1,935.9	1,922.4	1,920.8	1,912.2	4.9	5.1	-70.67	-194.2	-83.1	119.4	110.0	9.45	12.629		
2,000.0	1,984.7	1,984.3	1,975.2	5.1	5.2	-74.85	-200.4	-87.0	119.7	109.7	10.00	11.973		
2,100.0	2,081.9	2,083.4	2,073.6	5.6	5.6	-81.27	-210.1	-93.0	121.5	110.7	10.87	11.183		
2,200.0	2,179.2	2,182.4	2,172.0	6.1	5.9	-87.43	-219.8	-99.1	124.8	113.1	11.73	10.641		
2,300.0	2,276.4	2,281.5	2,270.4	6.5	6.2	-93.22	-229.4	-105.2	129.5	116.9	12.57	10.302		
2,400.0	2,373.6	2,380.5	2,368.8	7.0	6.5	-98.56	-239.1	-111.2	135.4	122.0	13.37	10.123		
2,500.0	2,470.8	2,479.6	2,467.2	7.5	6.8	-103.42	-248.8	-117.3	142.4	128.2	14.14	10.068		
2,600.0	2,568.0	2,578.6	2,565.6	8.0	7.1	-107.81	-258.4	-123.4	150.3	135.4	14.87	10.106		
2,700.0	2,665.3	2,677.7	2,664.0	8.4	7.4	-111.74	-268.1	-129.4	159.0	143.5	15.57	10.213		
2,800.0	2,762.5	2,776.7	2,762.3	8.9	7.7	-115.25	-277.8	-135.5	168.4	152.2	16.24	10.370		
2,900.0	2,859.7	2,875.8	2,860.7	9.4	8.1	-118.38	-287.4	-141.6	178.4	161.5	16.89	10.562		
3,000.0	2,956.9	2,974.8	2,959.1	9.9	8.4	-121.18	-297.1	-147.6	188.8	171.3	17.52	10.778		
3,100.0	3,054.1	3,073.9	3,057.5	10.4	8.7	-123.68	-306.8	-153.7	199.7	181.5	18.14	11.009		
3,200.0	3,151.4	3,172.9	3,155.9	10.9	9.0	-125.92	-316.4	-159.8	210.9	192.1	18.74	11.250		
3,300.0	3,248.6	3,272.0	3,254.3	11.4	9.3	-127.94	-326.1	-165.9	222.3	203.0	19.34	11.496		
3,400.0	3,345.8	3,371.0	3,352.7	11.9	9.6	-129.75	-335.8	-171.9	234.1	214.1	19.93	11.744		
3,500.0	3,443.0	3,470.1	3,451.1	12.4	9.9	-131.39	-345.4	-178.0	246.0	225.5	20.52	11.990		
3,600.0	3,540.2	3,569.1	3,549.5	12.9	10.3	-132.88	-355.1	-184.1	258.1	237.0	21.10	12.233		
3,700.0	3,637.4	3,668.2	3,647.9	13.4	10.6	-134.24	-364.8	-190.1	270.3	248.7	21.68	12.471		
3,800.0	3,734.7	3,767.2	3,746.3	13.9	10.9	-135.48	-374.4	-196.2	282.7	260.5	22.26	12.705		
3,900.0	3,831.9	3,866.3	3,844.6	14.4	11.2	-136.61	-384.1	-202.3	295.3	272.4	22.83	12.932		
4,000.0	3,929.1	3,965.3	3,943.0	14.9	11.5	-137.65	-393.8	-208.3	307.9	284.5	23.41	13.153		
4,100.0	4,026.3	4,064.4	4,041.4	15.4	11.8	-138.61	-403.4	-214.4	320.6	296.6	23.98	13.368		
4,200.0	4,123.5	4,163.4	4,139.8	15.9	12.1	-139.50	-413.1	-220.5	333.4	308.9	24.56	13.576		
4,300.0	4,220.8	4,262.5	4,238.2	16.5	12.5	-140.32	-422.8	-226.5	346.3	321.1	25.13	13.778		
4,400.0	4,318.0	4,361.5	4,336.6	17.0	12.8	-141.08	-432.4	-232.6	359.2	333.5	25.71	13.973		
4,500.0	4,415.2	4,460.6	4,435.0	17.5	13.1	-141.79	-442.1	-238.7	372.2	345.9	26.28	14.161		
4,600.0	4,512.4	4,559.6	4,533.4	18.0	13.4	-142.45	-451.8	-244.8	385.3	358.4	26.86	14.343		
4,700.0	4,609.6	4,658.7	4,631.8	18.5	13.7	-143.07	-461.4	-250.8	398.4	370.9	27.44	14.520		
4,800.0	4,706.8	4,757.7	4,730.2	19.0	14.0	-143.65	-471.1	-256.9	411.5	383.5	28.01	14.690		
4,900.0	4,804.1	4,856.8	4,828.5	19.5	14.4	-144.19	-480.8	-263.0	424.7	396.1	28.59	14.854		

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

Offset Design		State North Platte 24-21-26HNB Sec.26-T5N-R63W - State North Platte O24-K21-26HNC - Wellbore #1										Offset Site Error:		0.0 ft
Survey Program: 0-MWD												Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis					Distance					
Measured Depth	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre		Between	Between	Minimum	Separation	Warning	
Depth (ft)	Depth (ft)	Depth (ft)	Depth (ft)	(ft)	(ft)	Toolface (°)	+N/-S (ft)	+E/-W (ft)	Centres (ft)	Ellipses (ft)	Separation (ft)	Factor		
5,000.0	4,901.3	4,955.8	4,926.9	20.0	14.7	-144.70	-490.4	-269.0	437.9	408.7	29.17	15.013		
5,100.0	4,998.5	5,054.9	5,025.3	20.5	15.0	-145.18	-500.1	-275.1	451.1	421.4	29.74	15.167		
5,200.0	5,095.9	5,154.0	5,123.8	21.0	15.3	-145.67	-509.8	-281.2	463.7	433.4	30.31	15.298		
5,300.0	5,194.0	5,253.5	5,222.6	21.3	15.6	-145.93	-519.5	-287.3	473.6	442.8	30.85	15.351		
5,400.0	5,292.7	5,353.3	5,321.7	21.6	15.9	-145.92	-529.2	-293.4	480.6	449.2	31.40	15.304		
5,500.0	5,391.9	5,448.8	5,416.7	21.8	16.2	-145.70	-538.2	-299.0	485.0	453.1	31.92	15.193		
5,600.0	5,491.5	5,540.4	5,508.0	22.0	16.4	-145.53	-544.7	-303.1	488.0	455.7	32.33	15.096		
5,700.0	5,591.4	5,632.1	5,599.5	22.2	16.6	-145.42	-548.6	-305.6	489.8	457.2	32.63	15.009		
5,800.0	5,691.3	5,723.7	5,691.1	22.3	16.7	-145.38	-550.1	-306.5	490.5	457.6	32.89	14.914		
5,900.0	5,791.3	5,822.9	5,790.3	22.4	16.8	90.00	-550.1	-306.5	490.5	457.4	33.06	14.838		
5,985.2	5,876.3	5,907.9	5,875.3	22.5	17.0	90.03	-550.1	-306.5	490.5	457.0	33.50	14.643		
6,000.0	5,891.0	5,922.6	5,890.0	22.5	17.0	90.08	-550.1	-306.5	490.5	456.9	33.54	14.624		
6,100.0	5,987.9	6,023.0	5,989.9	22.4	17.0	91.99	-542.2	-306.4	490.8	456.9	33.90	14.477		
6,200.0	6,078.3	6,126.8	6,089.7	22.3	17.0	93.87	-514.0	-306.1	491.6	457.7	33.90	14.501		
6,300.0	6,159.0	6,234.2	6,184.9	22.0	16.8	95.64	-464.7	-305.6	492.9	459.3	33.55	14.692		
6,400.0	6,226.9	6,345.3	6,270.6	21.7	16.5	97.20	-394.4	-304.9	494.3	461.4	32.94	15.009		
6,500.0	6,279.7	6,459.7	6,341.2	21.3	16.3	98.49	-304.7	-304.0	495.8	463.5	32.28	15.361		
6,600.0	6,315.3	6,576.9	6,391.5	21.0	16.0	99.43	-199.1	-303.0	497.0	465.2	31.85	15.607		
6,700.0	6,332.5	6,696.1	6,417.2	20.7	15.9	99.97	-83.0	-301.8	497.7	465.8	31.89	15.608		
6,800.0	6,334.0	6,805.0	6,420.0	20.5	16.1	100.07	25.8	-300.7	497.8	465.3	32.52	15.305		
6,900.0	6,334.0	6,905.0	6,420.0	20.4	16.7	100.07	125.8	-299.7	497.7	464.1	33.60	14.814		
7,000.0	6,334.0	7,005.0	6,420.0	20.4	17.5	100.07	225.8	-298.7	497.7	462.6	35.04	14.201		
7,100.0	6,334.0	7,105.0	6,420.0	20.8	18.5	100.07	325.8	-297.7	497.6	460.8	36.82	13.513		
7,200.0	6,334.0	7,205.0	6,420.0	21.4	19.6	100.07	425.8	-296.7	497.5	458.7	38.89	12.793		
7,300.0	6,334.0	7,305.0	6,420.0	22.3	20.9	100.07	525.8	-295.7	497.5	456.3	41.20	12.074		
7,400.0	6,334.0	7,405.0	6,420.0	23.4	22.2	100.07	625.8	-294.7	497.4	453.7	43.72	11.378		
7,500.0	6,334.0	7,505.0	6,420.0	24.6	23.7	100.07	725.8	-293.7	497.4	451.0	46.41	10.717		
7,600.0	6,334.0	7,605.0	6,420.0	25.9	25.2	100.08	825.8	-292.7	497.3	448.1	49.24	10.099		
7,700.0	6,334.0	7,705.0	6,420.0	27.3	26.7	100.08	925.8	-291.7	497.2	445.0	52.20	9.527		
7,800.0	6,334.0	7,805.0	6,420.0	28.7	28.3	100.08	1,025.8	-290.7	497.2	441.9	55.25	8.999		
7,900.0	6,334.0	7,905.0	6,420.0	30.3	29.9	100.08	1,125.8	-289.7	497.1	438.7	58.39	8.514		
8,000.0	6,334.0	8,005.0	6,420.0	31.8	31.5	100.08	1,225.8	-288.7	497.1	435.5	61.61	8.069		
8,100.0	6,334.0	8,105.0	6,420.0	33.4	33.2	100.08	1,325.8	-287.7	497.0	432.1	64.88	7.660		
8,200.0	6,334.0	8,205.0	6,420.0	35.0	34.9	100.08	1,425.8	-286.7	496.9	428.7	68.21	7.286		
8,300.0	6,334.0	8,305.0	6,420.0	36.7	36.7	100.08	1,525.8	-285.7	496.9	425.3	71.58	6.942		
8,400.0	6,334.0	8,405.0	6,420.0	38.3	38.4	100.09	1,625.8	-284.7	496.8	421.8	74.99	6.625		
8,500.0	6,334.0	8,505.0	6,420.0	40.0	40.2	100.09	1,725.8	-283.7	496.8	418.3	78.44	6.333		
8,600.0	6,334.0	8,605.0	6,420.0	41.7	41.9	100.09	1,825.8	-282.7	496.7	414.8	81.92	6.064		
8,700.0	6,334.0	8,705.0	6,420.0	43.5	43.7	100.09	1,925.8	-281.7	496.6	411.2	85.42	5.814		
8,800.0	6,334.0	8,805.0	6,420.0	45.2	45.5	100.09	2,025.7	-280.7	496.6	407.6	88.94	5.583		
8,900.0	6,334.0	8,905.0	6,420.0	47.0	47.3	100.09	2,125.7	-279.7	496.5	404.0	92.49	5.368		
9,000.0	6,334.0	9,005.0	6,420.0	48.7	49.1	100.09	2,225.7	-278.7	496.5	400.4	96.05	5.169		
9,100.0	6,334.0	9,105.0	6,420.0	50.5	51.0	100.09	2,325.7	-277.7	496.4	396.8	99.63	4.982		
9,200.0	6,334.0	9,205.0	6,420.0	52.3	52.8	100.09	2,425.7	-276.7	496.3	393.1	103.23	4.808		
9,300.0	6,334.0	9,305.0	6,420.0	54.1	54.6	100.10	2,525.7	-275.7	496.3	389.5	106.84	4.645		
9,400.0	6,334.0	9,405.0	6,420.0	55.9	56.5	100.10	2,625.7	-274.7	496.2	385.8	110.46	4.493		
9,500.0	6,334.0	9,505.0	6,420.0	57.7	58.3	100.10	2,725.7	-273.7	496.2	382.1	114.09	4.349		
9,600.0	6,334.0	9,605.0	6,420.0	59.5	60.1	100.10	2,825.7	-272.7	496.1	378.4	117.73	4.214		
9,700.0	6,334.0	9,705.0	6,420.0	61.3	62.0	100.10	2,925.7	-271.7	496.0	374.7	121.37	4.087		
9,800.0	6,334.0	9,805.0	6,420.0	63.2	63.9	100.10	3,025.7	-270.7	496.0	371.0	125.03	3.967		
9,900.0	6,334.0	9,905.0	6,420.0	65.0	65.7	100.10	3,125.7	-269.7	495.9	367.2	128.70	3.853		

Company:	BONANZA CREEK ENERGY OPERATING	Local Co-ordinate Reference:	Well State North Platte 24-21-26HNB
Project:	SEC.26-T5N-R63W	TVD Reference:	WELL @ 4566.0ft (RKB-15')
Reference Site:	State North Platte 24-21-26HNB Sec.26-T5N-R63W	MD Reference:	WELL @ 4566.0ft (RKB-15')
Site Error:	0.0ft	North Reference:	True
Reference Well:	State North Platte 24-21-26HNB	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 (7-10-13)	Offset TVD Reference:	Offset Datum

Offset Design										State North Platte 24-21-26HNB Sec.26-T5N-R63W - State North Platte O24-K21-26HNC - Wellbore #1			Offset Site Error:		0.0 ft
Survey Program: 0-MWD												Offset Well Error:		0.0 ft	
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)				
10,000.0	6,334.0	10,005.0	6,420.0	66.8	67.6	100.10	3,225.7	-268.7	495.9	363.5	132.37	3.746			
10,100.0	6,334.0	10,105.0	6,420.0	68.7	69.4	100.11	3,325.7	-267.7	495.8	359.8	136.04	3.644			
10,200.0	6,334.0	10,205.0	6,420.0	70.5	71.3	100.11	3,425.7	-266.7	495.7	356.0	139.73	3.548			
10,300.0	6,334.0	10,305.0	6,420.0	72.4	73.2	100.11	3,525.7	-265.7	495.7	352.3	143.41	3.456			
10,400.0	6,334.0	10,405.0	6,420.0	74.2	75.1	100.11	3,625.7	-264.7	495.6	348.5	147.11	3.369			
10,500.0	6,334.0	10,505.0	6,420.0	76.1	76.9	100.11	3,725.7	-263.7	495.6	344.8	150.80	3.286			
10,600.0	6,334.0	10,605.0	6,420.0	77.9	78.8	100.11	3,825.7	-262.7	495.5	341.0	154.50	3.207			
10,700.0	6,334.0	10,705.0	6,420.0	79.8	80.7	100.11	3,925.7	-261.7	495.4	337.2	158.21	3.132			
10,800.0	6,334.0	10,805.0	6,420.0	81.7	82.6	100.11	4,025.6	-260.7	495.4	333.5	161.92	3.059			
10,900.0	6,334.0	10,905.0	6,420.0	83.5	84.5	100.12	4,125.6	-259.6	495.3	329.7	165.63	2.991			
10,951.8	6,334.0	10,956.8	6,420.0	84.5	85.4	100.12	4,177.4	-259.1	495.3	327.7	167.55	2.956 SF			

Company:	BONANZA CREEK ENERGY OPERATING	Local Co-ordinate Reference:	Well State North Platte 24-21-26HNB
Project:	SEC.26-T5N-R63W	TVD Reference:	WELL @ 4566.0ft (RKB-15')
Reference Site:	State North Platte 24-21-26HNB Sec.26-T5N-R63W	MD Reference:	WELL @ 4566.0ft (RKB-15')
Site Error:	0.0ft	North Reference:	True
Reference Well:	State North Platte 24-21-26HNB	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 (7-10-13)	Offset TVD Reference:	Offset Datum

Offset Design State North Platte 24-21-26HNB Sec.26-T5N-R63W - State North Platte O-K-26HNB - Wellbore #1 - Pla													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	Semi Major Axis	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-180.00	-180.00	-80.1	0.0	80.2				
100.0	100.0	98.0	98.0	0.1	0.1	-180.00	-180.00	-80.1	0.0	80.1	79.9	0.22	360.180	
200.0	200.0	198.0	198.0	0.3	0.3	-180.00	-180.00	-80.1	0.0	80.1	79.5	0.67	119.659 CC, ES	
300.0	300.0	295.4	295.4	0.6	0.5	-179.68	-179.68	-81.7	-0.5	81.7	80.6	1.09	74.857	
400.0	400.0	392.5	392.4	0.8	0.7	-178.76	-178.76	-86.3	-1.9	86.5	85.0	1.52	56.998	
500.0	500.0	489.2	488.7	1.0	1.0	-177.43	-177.43	-94.1	-4.2	94.7	92.7	1.97	47.936	
600.0	600.0	587.9	586.8	1.2	1.2	-176.00	-176.00	-104.3	-7.3	105.1	102.7	2.46	42.694	
700.0	700.0	687.3	685.7	1.5	1.5	-174.80	-174.80	-114.6	-10.4	115.8	112.8	2.96	39.070	
800.0	800.0	786.7	784.5	1.7	1.8	-173.81	-173.81	-125.0	-13.6	126.5	123.0	3.47	36.452	
900.0	900.0	886.1	883.3	1.9	2.1	-172.97	-172.97	-135.3	-16.7	137.2	133.2	3.98	34.485	
1,000.0	1,000.0	985.5	982.1	2.1	2.4	-172.25	-172.25	-145.7	-19.8	147.9	143.4	4.49	32.958	
1,100.0	1,100.0	1,085.1	1,081.1	2.3	2.7	-47.35	-47.35	-156.1	-23.0	157.5	152.8	4.65	33.832	
1,200.0	1,199.8	1,184.8	1,180.2	2.5	3.0	-48.00	-48.00	-166.4	-26.1	164.7	159.6	5.08	32.434	
1,300.0	1,299.5	1,284.5	1,279.3	2.7	3.3	-49.50	-49.50	-176.8	-29.2	169.7	164.2	5.52	30.747	
1,400.0	1,398.7	1,384.2	1,378.5	3.0	3.6	-51.84	-51.84	-187.2	-32.4	172.6	166.6	5.99	28.838	
1,500.0	1,497.5	1,483.8	1,477.4	3.2	3.9	-55.04	-55.04	-197.6	-35.5	173.8	167.3	6.49	26.772	
1,600.0	1,595.6	1,583.0	1,576.0	3.5	4.2	-59.17	-59.17	-207.9	-38.6	173.7	166.7	7.06	24.613	
1,700.0	1,693.1	1,681.7	1,674.2	3.9	4.5	-64.24	-64.24	-218.2	-41.7	173.0	165.3	7.71	22.446	
1,727.0	1,719.3	1,708.4	1,700.6	4.0	4.6	-65.70	-65.70	-221.0	-42.6	173.0	165.1	7.90	21.893	
1,800.0	1,790.3	1,780.4	1,772.2	4.3	4.8	-69.62	-69.62	-228.5	-44.8	173.4	165.0	8.43	20.558	
1,900.0	1,887.5	1,879.0	1,870.3	4.7	5.1	-74.93	-74.93	-238.7	-47.9	175.3	166.1	9.21	19.038	
2,000.0	1,984.7	1,977.6	1,968.3	5.1	5.5	-80.08	-80.08	-249.0	-51.0	178.7	168.7	10.02	17.846	
2,100.0	2,081.9	2,076.3	2,066.4	5.6	5.8	-85.01	-85.01	-259.3	-54.2	183.6	172.7	10.84	16.935	
2,200.0	2,179.2	2,174.9	2,164.4	6.1	6.1	-89.65	-89.65	-269.5	-57.3	189.7	178.1	11.67	16.260	
2,300.0	2,276.4	2,273.5	2,262.5	6.5	6.4	-93.99	-93.99	-279.8	-60.4	197.1	184.6	12.49	15.777	
2,400.0	2,373.6	2,372.2	2,360.5	7.0	6.7	-98.00	-98.00	-290.1	-63.5	205.5	192.2	13.30	15.449	
2,500.0	2,470.8	2,470.8	2,458.6	7.5	7.0	-101.68	-101.68	-300.3	-66.6	214.8	200.7	14.09	15.243	
2,600.0	2,568.0	2,569.4	2,556.6	8.0	7.3	-105.05	-105.05	-310.6	-69.7	225.0	210.1	14.87	15.133	
2,700.0	2,665.3	2,668.1	2,654.7	8.4	7.6	-108.12	-108.12	-320.9	-72.8	235.8	220.2	15.62	15.097	
2,800.0	2,762.5	2,766.7	2,752.7	8.9	7.9	-110.92	-110.92	-331.1	-75.9	247.3	231.0	16.36	15.118	
2,900.0	2,859.7	2,865.3	2,850.8	9.4	8.2	-113.47	-113.47	-341.4	-79.0	259.4	242.3	17.08	15.184	
3,000.0	2,956.9	2,964.0	2,948.8	9.9	8.5	-115.79	-115.79	-351.7	-82.1	271.9	254.1	17.79	15.282	
3,100.0	3,054.1	3,062.6	3,046.9	10.4	8.8	-117.91	-117.91	-361.9	-85.2	284.8	266.3	18.49	15.405	
3,200.0	3,151.4	3,161.2	3,144.9	10.9	9.1	-119.84	-119.84	-372.2	-88.3	298.0	278.9	19.17	15.546	
3,300.0	3,248.6	3,259.9	3,242.9	11.4	9.4	-121.61	-121.61	-382.5	-91.4	311.6	291.7	19.85	15.700	
3,400.0	3,345.8	3,358.5	3,341.0	11.9	9.7	-123.23	-123.23	-392.8	-94.5	325.4	304.9	20.51	15.863	
3,500.0	3,443.0	3,457.1	3,439.0	12.4	10.0	-124.72	-124.72	-403.0	-97.6	339.5	318.3	21.18	16.032	
3,600.0	3,540.2	3,555.8	3,537.1	12.9	10.3	-126.08	-126.08	-413.3	-100.7	353.8	331.9	21.83	16.205	
3,700.0	3,637.4	3,654.4	3,635.1	13.4	10.6	-127.35	-127.35	-423.6	-103.8	368.2	345.7	22.48	16.379	
3,800.0	3,734.7	3,753.0	3,733.2	13.9	10.9	-128.52	-128.52	-433.8	-106.9	382.8	359.7	23.13	16.554	
3,900.0	3,831.9	3,851.7	3,831.2	14.4	11.2	-129.60	-129.60	-444.1	-110.0	397.6	373.8	23.77	16.728	
4,000.0	3,929.1	3,950.3	3,929.3	14.9	11.5	-130.60	-130.60	-454.4	-113.1	412.5	388.1	24.41	16.900	
4,100.0	4,026.3	4,048.9	4,027.3	15.4	11.9	-131.54	-131.54	-464.6	-116.2	427.5	402.5	25.05	17.070	
4,200.0	4,123.5	4,147.6	4,125.4	15.9	12.2	-132.41	-132.41	-474.9	-119.4	442.6	417.0	25.68	17.237	
4,300.0	4,220.8	4,246.2	4,223.4	16.5	12.5	-133.22	-133.22	-485.2	-122.5	457.8	431.5	26.31	17.400	
4,400.0	4,318.0	4,344.8	4,321.5	17.0	12.8	-133.98	-133.98	-495.4	-125.6	473.1	446.2	26.94	17.560	
4,500.0	4,415.2	4,443.5	4,419.5	17.5	13.1	-134.70	-134.70	-505.7	-128.7	488.5	460.9	27.57	17.717	
4,600.0	4,512.4	4,542.1	4,517.6	18.0	13.4	-135.37	-135.37	-516.0	-131.8	504.0	475.8	28.20	17.869	
4,700.0	4,609.6	4,640.7	4,615.6	18.5	13.7	-136.00	-136.00	-526.3	-134.9	519.5	490.6	28.83	18.018	
4,800.0	4,706.8	4,738.7	4,713.0	19.0	14.0	-136.60	-136.60	-536.4	-137.9	535.0	505.6	29.44	18.175	
4,900.0	4,804.1	4,834.2	4,808.2	19.5	14.2	-137.39	-137.39	-544.0	-140.2	551.1	521.1	29.94	18.406	

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 24-21-26HNB
Project:	SEC.26-T5N-R63W	TVD Reference:	WELL @ 4566.0ft (RKB-15')
Reference Site:	State North Platte 24-21-26HNB Sec.26-T5N-R63W	MD Reference:	WELL @ 4566.0ft (RKB-15')
Site Error:	0.0ft	North Reference:	True
Reference Well:	State North Platte 24-21-26HNB	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 (7-10-13)	Offset TVD Reference:	Offset Datum

Offset Design State North Platte 24-21-26HNB Sec.26-T5N-R63W - State North Platte O-K-26HNB - Wellbore #1 - Pla													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)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
5,000.0	4,901.3	4,929.0	4,902.8	20.0	14.3	-138.45	-548.6	-141.6	567.8	537.4	30.34	18.715		
5,100.0	4,998.5	5,022.8	4,996.6	20.5	14.5	-139.74	-550.1	-142.1	585.4	554.7	30.67	19.083		
5,200.0	5,095.9	5,120.1	5,093.9	21.0	14.6	-141.27	-550.1	-142.1	603.0	572.0	30.96	19.476		
5,300.0	5,194.0	5,218.2	5,192.0	21.3	14.8	-142.57	-550.1	-142.1	618.4	587.2	31.18	19.831		
5,400.0	5,292.7	5,316.9	5,290.7	21.6	14.9	-143.60	-550.1	-142.1	631.2	599.8	31.41	20.096		
5,500.0	5,391.9	5,416.1	5,389.9	21.8	15.0	-144.38	-550.1	-142.1	641.3	609.7	31.64	20.271		
5,600.0	5,491.5	5,515.7	5,489.5	22.0	15.2	-144.93	-550.1	-142.1	648.7	616.8	31.87	20.356		
5,700.0	5,591.4	5,615.5	5,589.4	22.2	15.3	-145.26	-550.1	-142.1	653.2	621.1	32.09	20.354		
5,800.0	5,691.3	5,715.5	5,689.3	22.3	15.4	-145.38	-550.1	-142.1	654.9	622.6	32.32	20.260		
5,900.0	5,791.3	5,815.5	5,789.3	22.4	15.6	90.00	-550.1	-142.1	654.9	622.4	32.50	20.148		
6,000.0	5,891.0	5,914.5	5,888.1	22.5	15.7	89.40	-544.4	-142.0	654.9	622.1	32.79	19.972		
6,100.0	5,987.9	6,013.3	5,983.8	22.4	15.6	89.43	-520.7	-141.8	654.9	622.2	32.69	20.033		
6,200.0	6,078.3	6,112.2	6,073.5	22.3	15.5	89.48	-479.3	-141.4	654.8	622.5	32.35	20.245		
6,300.0	6,159.0	6,211.2	6,153.8	22.0	15.3	89.55	-421.6	-140.8	654.8	622.9	31.86	20.555		
6,400.0	6,226.9	6,310.4	6,221.8	21.7	15.1	89.63	-349.7	-140.1	654.8	623.4	31.35	20.888		
6,500.0	6,279.7	6,409.7	6,275.1	21.3	15.0	89.73	-266.1	-139.3	654.7	623.7	30.97	21.143		
6,600.0	6,315.3	6,509.2	6,311.6	21.0	15.0	89.84	-173.6	-138.3	654.6	623.8	30.85	21.217		
6,700.0	6,332.5	6,609.0	6,329.9	20.7	15.2	89.95	-75.7	-137.3	654.6	623.5	31.11	21.039		
6,800.0	6,334.0	6,709.0	6,332.0	20.5	15.6	90.00	24.2	-136.3	654.5	622.7	31.78	20.594		
6,900.0	6,334.0	6,809.0	6,332.0	20.4	16.3	90.00	124.2	-135.3	654.5	621.6	32.88	19.905		
7,000.0	6,334.0	6,909.0	6,332.0	20.4	17.2	90.00	224.2	-134.3	654.4	620.0	34.37	19.042		
7,100.0	6,334.0	7,009.0	6,332.0	20.8	18.2	90.00	324.2	-133.3	654.3	618.1	36.20	18.076		
7,200.0	6,334.0	7,109.0	6,332.0	21.4	19.4	90.00	424.2	-132.3	654.3	615.9	38.33	17.071		
7,300.0	6,334.0	7,209.0	6,332.0	22.3	20.6	90.00	524.2	-131.3	654.2	613.5	40.71	16.071		
7,400.0	6,334.0	7,309.0	6,332.0	23.4	22.0	90.00	624.2	-130.3	654.1	610.9	43.29	15.109		
7,500.0	6,334.0	7,409.0	6,332.0	24.6	23.5	90.00	724.2	-129.3	654.1	608.0	46.06	14.202		
7,600.0	6,334.0	7,509.0	6,332.0	25.9	25.0	90.00	824.2	-128.3	654.0	605.1	48.96	13.357		
7,700.0	6,334.0	7,609.0	6,332.0	27.3	26.5	90.00	924.2	-127.3	654.0	602.0	51.99	12.578		
7,800.0	6,334.0	7,709.0	6,332.0	28.7	28.1	90.00	1,024.2	-126.3	653.9	598.8	55.12	11.863		
7,900.0	6,334.0	7,809.0	6,332.0	30.3	29.8	90.00	1,124.1	-125.3	653.8	595.5	58.33	11.209		
8,000.0	6,334.0	7,909.0	6,332.0	31.8	31.5	90.00	1,224.1	-124.3	653.8	592.2	61.62	10.610		
8,100.0	6,334.0	8,009.0	6,332.0	33.4	33.2	90.00	1,324.1	-123.3	653.7	588.8	64.96	10.063		
8,200.0	6,334.0	8,109.0	6,332.0	35.0	34.9	90.00	1,424.1	-122.3	653.7	585.3	68.36	9.562		
8,300.0	6,334.0	8,209.0	6,332.0	36.7	36.6	90.00	1,524.1	-121.3	653.6	581.8	71.80	9.103		
8,400.0	6,334.0	8,309.0	6,332.0	38.3	38.4	90.00	1,624.1	-120.3	653.5	578.3	75.28	8.682		
8,500.0	6,334.0	8,409.0	6,332.0	40.0	40.2	90.00	1,724.1	-119.3	653.5	574.7	78.79	8.294		
8,600.0	6,334.0	8,509.0	6,332.0	41.7	41.9	90.00	1,824.1	-118.3	653.4	571.1	82.33	7.936		
8,700.0	6,334.0	8,609.0	6,332.0	43.5	43.7	90.00	1,924.1	-117.3	653.4	567.5	85.90	7.606		
8,800.0	6,334.0	8,709.0	6,332.0	45.2	45.6	90.00	2,024.1	-116.3	653.3	563.8	89.49	7.300		
8,900.0	6,334.0	8,809.0	6,332.0	47.0	47.4	90.00	2,124.1	-115.3	653.2	560.1	93.09	7.017		
9,000.0	6,334.0	8,909.0	6,332.0	48.7	49.2	90.00	2,224.1	-114.3	653.2	556.4	96.72	6.753		
9,100.0	6,334.0	9,009.0	6,332.0	50.5	51.0	90.00	2,324.1	-113.3	653.1	552.7	100.36	6.508		
9,200.0	6,334.0	9,109.0	6,332.0	52.3	52.9	90.00	2,424.1	-112.3	653.0	549.0	104.02	6.278		
9,300.0	6,334.0	9,209.0	6,332.0	54.1	54.7	90.00	2,524.1	-111.3	653.0	545.3	107.68	6.064		
9,400.0	6,334.0	9,309.0	6,332.0	55.9	56.5	90.00	2,624.1	-110.3	652.9	541.6	111.36	5.863		
9,500.0	6,334.0	9,409.0	6,332.0	57.7	58.4	90.00	2,724.1	-109.3	652.9	537.8	115.05	5.674		
9,600.0	6,334.0	9,509.0	6,332.0	59.5	60.3	90.00	2,824.1	-108.3	652.8	534.1	118.75	5.497		
9,700.0	6,334.0	9,609.0	6,332.0	61.3	62.1	90.00	2,924.1	-107.3	652.7	530.3	122.46	5.330		
9,800.0	6,334.0	9,709.0	6,332.0	63.2	64.0	90.00	3,024.1	-106.3	652.7	526.5	126.17	5.173		
9,900.0	6,334.0	9,809.0	6,332.0	65.0	65.8	90.00	3,124.0	-105.3	652.6	522.7	129.89	5.024		
10,000.0	6,334.0	9,909.0	6,332.0	66.8	67.7	90.00	3,224.0	-104.3	652.6	518.9	133.62	4.884		

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 24-21-26HNB
Project:	SEC.26-T5N-R63W	TVD Reference:	WELL @ 4566.0ft (RKB-15')
Reference Site:	State North Platte 24-21-26HNB Sec.26-T5N-R63W	MD Reference:	WELL @ 4566.0ft (RKB-15')
Site Error:	0.0ft	North Reference:	True
Reference Well:	State North Platte 24-21-26HNB	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 (7-10-13)	Offset TVD Reference:	Offset Datum

Offset Design State North Platte 24-21-26HNB Sec.26-T5N-R63W - State North Platte O-K-26HNB - Wellbore #1 - Pla													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	(ft)	(ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
10,100.0	6,334.0	10,009.0	6,332.0	68.7	69.6	90.00	3,324.0	-103.3	652.5	515.1	137.36	4.750		
10,200.0	6,334.0	10,109.0	6,332.0	70.5	71.5	90.00	3,424.0	-102.3	652.4	511.3	141.10	4.624		
10,300.0	6,334.0	10,209.0	6,332.0	72.4	73.3	90.00	3,524.0	-101.3	652.4	507.5	144.84	4.504		
10,400.0	6,334.0	10,309.0	6,332.0	74.2	75.2	90.00	3,624.0	-100.3	652.3	503.7	148.59	4.390		
10,500.0	6,334.0	10,409.0	6,332.0	76.1	77.1	90.00	3,724.0	-99.3	652.3	499.9	152.34	4.281		
10,600.0	6,334.0	10,509.0	6,332.0	77.9	79.0	90.00	3,824.0	-98.3	652.2	496.1	156.10	4.178		
10,700.0	6,334.0	10,609.0	6,332.0	79.8	80.9	90.00	3,924.0	-97.3	652.1	492.3	159.86	4.079		
10,800.0	6,334.0	10,709.0	6,332.0	81.7	82.7	90.00	4,024.0	-96.3	652.1	488.4	163.63	3.985		
10,900.0	6,334.0	10,809.0	6,332.0	83.5	84.6	90.00	4,124.0	-95.3	652.0	484.6	167.39	3.895		
10,951.8	6,334.0	10,860.8	6,332.0	84.5	85.6	90.00	4,175.8	-94.8	652.0	482.6	169.35	3.850 SF		


Reference Depths are relative to WELL @ 4566.0ft (RKB-15')	Coordinates are relative to: State North Platte 24-21-26HNB
Offset Depths are relative to Offset Datum	Coordinate System is US State Plane 1983, Colorado Northern Zone
Central Meridian is -105.500000 °	Grid Convergence at Surface is: 0.71°



Reference Depths are relative to WELL @ 4566.0ft (RKB-15')
Offset Depths are relative to Offset Datum
Central Meridian is -105.500000 °

Coordinates are relative to: State North Platte 24-21-26HNB
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.71°



3. Wellbore #1, Plan #2 (7-10-13) VO  State North Platte 024-K21-26HNC, Wellbore #1, Plan #2 (7-10-13) VO