BISON OIL & GAS II, LLC

WELD COUNTY, COLORADO (NAD 83)
NW SW SEC. 29 T9N R60W 6th P.M.
BASHOR FED 9-60 29-30-31-2

ORIGINAL WELLBORE

08 September, 2017

Plan: PROPOSAL #1

BISON OIL & GAS II

Project: WELD COUNTY, COLORADO (NAD 83)
Site: NW SW SEC. 29 T9N R60W 6th P.M.
Well: BASHOR FED 9-60 29-30-31-2
Wellbore: ORIGINAL WELLBORE
Design: PROPOSAL #1

ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	VSect	Dep	Annotation
0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	SHL: 2183ft FSL & 310ft FWL of Sec 29
200.0	200.0	0.00	0.00	0.0	0.0	0.0	0.0	START NUDGE (2°/100ft BUR)
1495.0	1543.7	26.87	280.40	55.9	-304.3	20.7	309.4	EOB TO 26.87° INC
4551.5	4970.3	26.87	280.40	335.5	-1827.8	124.2	1858.3	END OF TANGENT
5846.5	6314.0	0.00	0.00	391.4	-2132.1	144.9	2167.7	EOD TO VERTICAL
5946.5	6414.0	0.00	0.00	391.4	-2132.1	144.9	2167.7	KOP (10°/100ft BUR)
6519.5	7314.1	90.00	177.41	-181.0	-2106.2	693.3	2740.7	BPI: 2040ft FSL & 1799ft FEL of Sec 30
6519.5	13912.3	90.00	177.41	-6772.5	-1807.9	7009.1	9338.9	EPI: 600ft FSL & 1795ft FEL of Sec 31
6519.5	13914.2	90.00	177.35	-6774.4	-1807.8	7010.9	9340.8	EOT TO 177.35° Az
6519.5	14212.1	90.00	177.36	-7071.9	-1794.0	7295.9	9638.7	BHL: 300ft FSL & 1799ft FEL of Sec 31

PROPOSED LOCAL COORDINATES:

SHL: 2183ft FSL & 310ft FWL of Sec 29

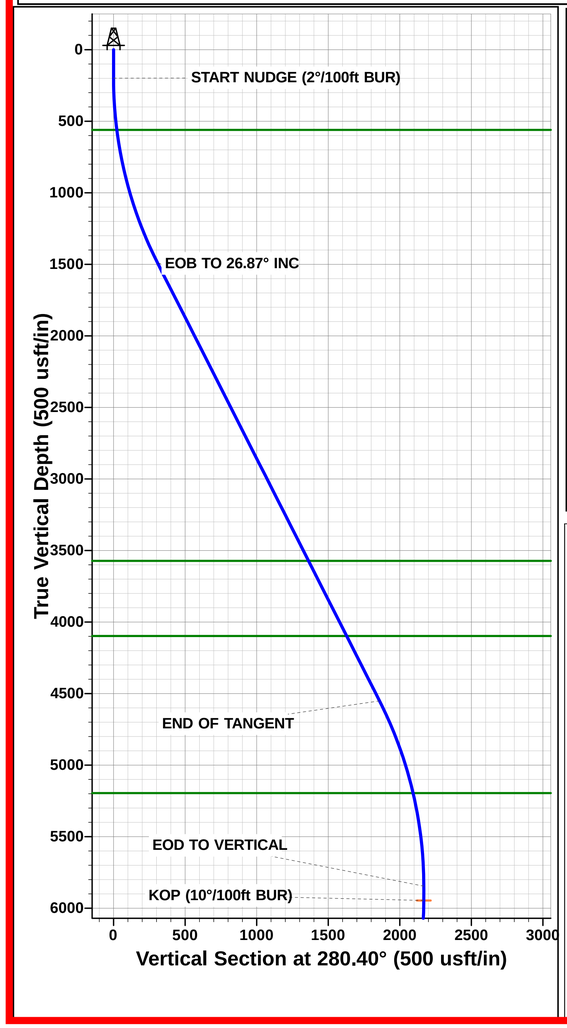
BPI: 2040ft FSL & 1799ft FEL of Sec 30

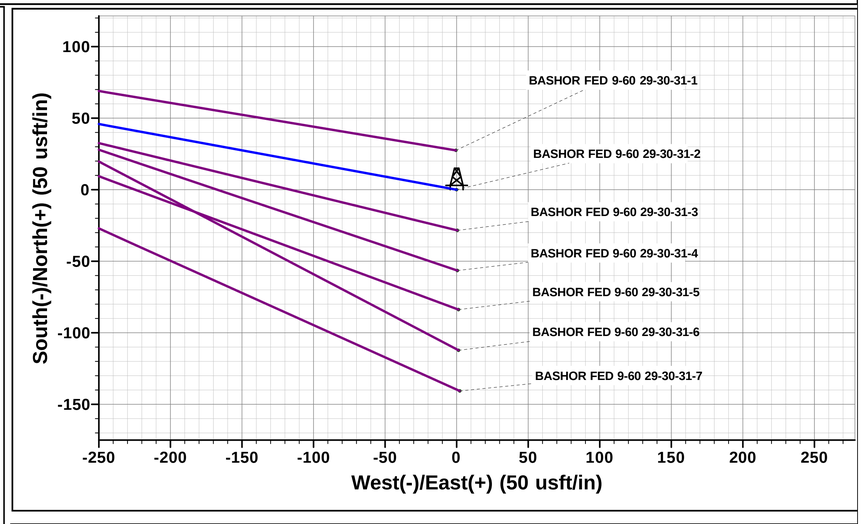
EPI: 600ft FSL & 1795ft FEL of Sec 31

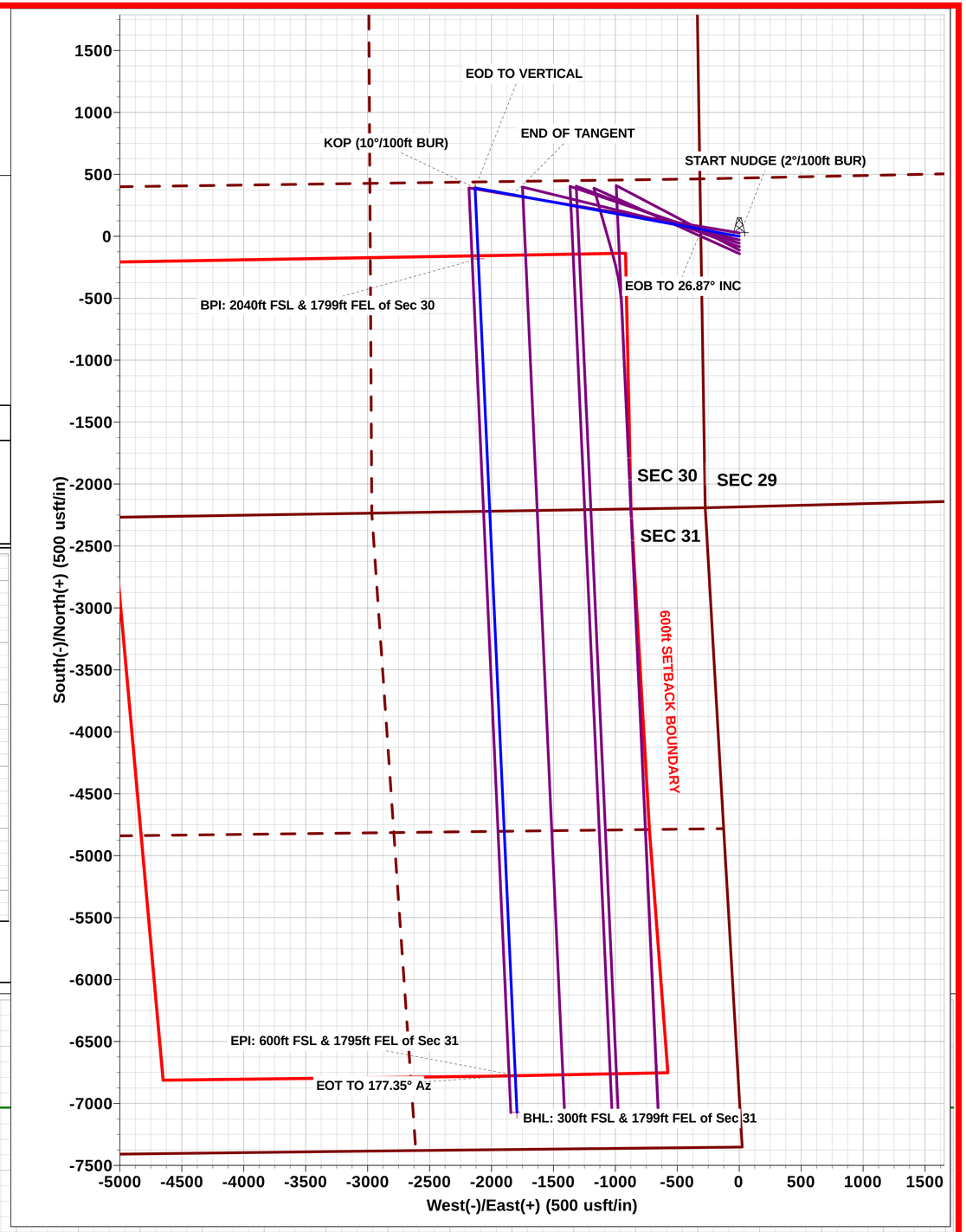
BHL: 300ft FSL & 1799ft FEL of Sec 31

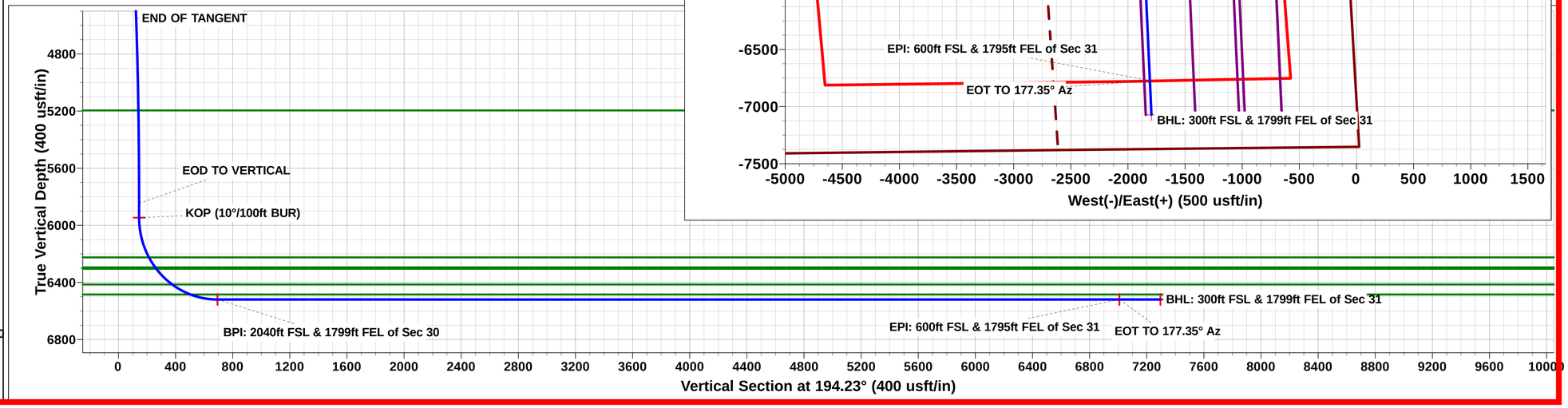
WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude
KOP: BASHOR FED 9-60 29-30-31-2	5946.5	391.4	-2132.1	40.719910	-104.133200
BPI: BASHOR FED 9-60 29-30-31-2	6519.5	-181.0	-2106.2	40.718339	-104.133106
EPI: BASHOR FED 9-60 29-30-31-2	6519.5	-6772.5	-1807.9	40.700247	-104.132028
BHL: BASHOR FED 9-60 29-30-31-2	6519.5	-7071.9	-1794.0	40.699425	-104.131978









Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well BASHOR FED 9-60 29-30-31-2
Company:	BISON OIL & GAS II, LLC	**TVD Reference:**	KB-EST @ 4980.5usft (Original Well Elev)
Project:	WELD COUNTY, COLORADO (NAD 83)	**MD Reference:**	KB-EST @ 4980.5usft (Original Well Elev)
Site:	NW SW SEC. 29 T9N R60W 6th P.M.	**North Reference:**	True
Well:	BASHOR FED 9-60 29-30-31-2	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #1		

Project WELD COUNTY, COLORADO (NAD 83)

Map System:	US State Plane 1983	**System Datum:**	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		Using geodetic scale factor

Site NW SW SEC. 29 T9N R60W 6th P.M.

Site Position:		**Northing:**	1,507,696.32 usft	**Latitude:**	40.718911
From:	Map	**Easting:**	3,380,993.65 usft	**Longitude:**	-104.125510
Position Uncertainty:	0.0 usft	**Slot Radius:**	1.10000 ft	**Grid Convergence:**	0.89 °

Well BASHOR FED 9-60 29-30-31-2

Well Position	**+N/-S**	-27.5 usft	**Northing:**	1,507,668.83 usft	**Latitude:**	40.718836
	+E/-W	0.5 usft	**Easting:**	3,380,994.55 usft	**Longitude:**	-104.125508
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	usft	**Ground Level:**	4,955.5 usft

Wellbore ORIGINAL WELLBORE

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	07/09/2017	7.87	67.20	52,595

Design PROPOSAL #1

Audit Notes:

Version:		**Phase:**	PROTOTYPE	**Tie On Depth:**	0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	194.23

Plan Sections

MD (usft)	Inc (°)	Azi (°)	Vertical Depth	SS (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft	Build Rate (°/100usft	Turn Rate (°/100usft	TFO (°)	Target
0.0	0.00	0.00	0.0	-4,980.5	0.0	0.0	0.00	0.00	0.00	0.00	
200.0	0.00	0.00	200.0	-4,780.5	0.0	0.0	0.00	0.00	0.00	0.00	
1,543.7	26.87	280.40	1,495.0	-3,485.5	55.9	-304.3	2.00	2.00	0.00	280.40	
4,970.3	26.87	280.40	4,551.5	-429.0	335.5	-1,827.8	0.00	0.00	0.00	0.00	
6,314.0	0.00	0.00	5,846.5	866.0	391.4	-2,132.1	2.00	-2.00	0.00	180.00	
6,414.0	0.00	0.00	5,946.5	966.0	391.4	-2,132.1	0.00	0.00	0.00	0.00	KOP: BASHOR FED !
7,314.1	90.00	177.41	6,519.5	1,539.0	-181.0	-2,106.2	10.00	10.00	19.71	177.41	BPI: BASHOR FED 9
13,912.3	90.00	177.41	6,519.5	1,539.0	-6,772.5	-1,807.9	0.00	0.00	0.00	-14.96	EPI: BASHOR FED 9
13,914.2	90.00	177.35	6,519.5	1,539.0	-6,774.4	-1,807.8	3.00	0.00	-3.00	-90.00	
14,212.1	90.00	177.36	6,519.5	1,539.0	-7,071.9	-1,794.0	0.00	0.00	0.00	141.81	BHL: BASHOR FED !

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Project:	WELD COUNTY, COLORADO (NAD 83)	**MD Reference:**	KB-EST @ 4980.5usft (Original Well Elev)
Site:	NW SW SEC. 29 T9N R60W 6th P.M.	**North Reference:**	True
Well:	BASHOR FED 9-60 29-30-31-2	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #1		

Planned Survey

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	SS (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
SHL: 2183ft FSL & 310ft FWL of Sec 29										
0.0	***0.00***	***0.00***	***0.0***	***4,980.50***	***0.0***	***0.0***	***0.0***	***0.00***	***0.00***	***0.00***
100.0	0.00	0.00	100.0	4,880.50	0.0	0.0	0.0	0.00	0.00	0.00
START NUDGE (2°/100ft BUR)										
200.0	***0.00***	***0.00***	***200.0***	***4,780.50***	***0.0***	***0.0***	***0.0***	***0.00***	***0.00***	***0.00***
300.0	2.00	280.40	300.0	4,680.52	0.3	-1.7	0.1	2.00	2.00	0.00
400.0	4.00	280.40	399.8	4,580.66	1.3	-6.9	0.5	2.00	2.00	0.00
500.0	6.00	280.40	499.5	4,481.05	2.8	-15.4	1.0	2.00	2.00	0.00
PIERRE SHALE (BASE FOX HILLS)										
561.5	***7.23***	***280.40***	***560.5***	***4,420.00***	***4.1***	***-22.4***	***1.5***	***2.00***	***2.00***	***0.00***
600.0	8.00	280.40	598.7	4,381.80	5.0	-27.4	1.9	2.00	2.00	0.00
700.0	10.00	280.40	697.5	4,283.03	7.9	-42.8	2.9	2.00	2.00	0.00
800.0	12.00	280.40	795.6	4,184.88	11.3	-61.6	4.2	2.00	2.00	0.00
900.0	14.00	280.40	893.1	4,087.44	15.4	-83.7	5.7	2.00	2.00	0.00
1,000.0	16.00	280.40	989.6	3,990.86	20.0	-109.2	7.4	2.00	2.00	0.00
1,100.0	18.00	280.40	1,085.3	3,895.23	25.3	-137.9	9.4	2.00	2.00	0.00
1,200.0	20.00	280.40	1,179.8	3,800.68	31.2	-169.9	11.5	2.00	2.00	0.00
1,300.0	22.00	280.40	1,273.2	3,707.33	37.7	-205.2	13.9	2.00	2.00	0.00
1,400.0	24.00	280.40	1,365.2	3,615.29	44.7	-243.6	16.6	2.00	2.00	0.00
1,500.0	26.00	280.40	1,455.8	3,524.66	52.4	-285.2	19.4	2.00	2.00	0.00
EOB TO 26.87° INC										
1,543.7	***26.87***	***280.40***	***1,495.0***	***3,485.52***	***55.9***	***-304.3***	***20.7***	***2.00***	***2.00***	***0.00***
1,600.0	26.87	280.40	1,545.2	3,435.31	60.5	-329.3	22.4	0.00	0.00	0.00
1,700.0	26.87	280.40	1,634.4	3,346.11	68.6	-373.8	25.4	0.00	0.00	0.00
1,800.0	26.87	280.40	1,723.6	3,256.91	76.8	-418.3	28.4	0.00	0.00	0.00
1,900.0	26.87	280.40	1,812.8	3,167.71	84.9	-462.7	31.4	0.00	0.00	0.00
2,000.0	26.87	280.40	1,902.0	3,078.51	93.1	-507.2	34.5	0.00	0.00	0.00
2,100.0	26.87	280.40	1,991.2	2,989.31	101.3	-551.6	37.5	0.00	0.00	0.00
2,200.0	26.87	280.40	2,080.4	2,900.11	109.4	-596.1	40.5	0.00	0.00	0.00
2,300.0	26.87	280.40	2,169.6	2,810.91	117.6	-640.6	43.5	0.00	0.00	0.00
2,400.0	26.87	280.40	2,258.8	2,721.71	125.8	-685.0	46.5	0.00	0.00	0.00
2,500.0	26.87	280.40	2,348.0	2,632.51	133.9	-729.5	49.6	0.00	0.00	0.00
2,600.0	26.87	280.40	2,437.2	2,543.31	142.1	-773.9	52.6	0.00	0.00	0.00
2,700.0	26.87	280.40	2,526.4	2,454.11	150.2	-818.4	55.6	0.00	0.00	0.00
2,800.0	26.87	280.40	2,615.6	2,364.91	158.4	-862.9	58.6	0.00	0.00	0.00
2,900.0	26.87	280.40	2,704.8	2,275.71	166.6	-907.3	61.7	0.00	0.00	0.00
3,000.0	26.87	280.40	2,794.0	2,186.51	174.7	-951.8	64.7	0.00	0.00	0.00
3,100.0	26.87	280.40	2,883.2	2,097.31	182.9	-996.2	67.7	0.00	0.00	0.00
3,200.0	26.87	280.40	2,972.4	2,008.11	191.0	-1,040.7	70.7	0.00	0.00	0.00
3,300.0	26.87	280.40	3,061.6	1,918.91	199.2	-1,085.2	73.7	0.00	0.00	0.00
3,400.0	26.87	280.40	3,150.8	1,829.71	207.4	-1,129.6	76.8	0.00	0.00	0.00
3,500.0	26.87	280.40	3,240.0	1,740.51	215.5	-1,174.1	79.8	0.00	0.00	0.00
3,600.0	26.87	280.40	3,329.2	1,651.31	223.7	-1,218.5	82.8	0.00	0.00	0.00
3,700.0	26.87	280.40	3,418.4	1,562.11	231.9	-1,263.0	85.8	0.00	0.00	0.00
3,800.0	26.87	280.40	3,507.6	1,472.91	240.0	-1,307.5	88.8	0.00	0.00	0.00
PARKMAN										
3,872.8	***26.87***	***280.40***	***3,572.5***	***1,408.00***	***246.0***	***-1,339.8***	***91.0***	***0.00***	***0.00***	***0.00***
3,900.0	26.87	280.40	3,596.8	1,383.71	248.2	-1,351.9	91.9	0.00	0.00	0.00
4,000.0	26.87	280.40	3,686.0	1,294.51	256.3	-1,396.4	94.9	0.00	0.00	0.00
4,100.0	26.87	280.40	3,775.2	1,205.31	264.5	-1,440.8	97.9	0.00	0.00	0.00
4,200.0	26.87	280.40	3,864.4	1,116.11	272.7	-1,485.3	100.9	0.00	0.00	0.00
4,300.0	26.87	280.40	3,953.6	1,026.91	280.8	-1,529.8	104.0	0.00	0.00	0.00
4,400.0	26.87	280.40	4,042.8	937.71	289.0	-1,574.2	107.0	0.00	0.00	0.00

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Site:	NW SW SEC. 29 T9N R60W 6th P.M.	**North Reference:**	True
Well:	BASHOR FED 9-60 29-30-31-2	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #1		

Planned Survey

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	SS (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
SUSSEX										
4,461.3	***26.87***	***280.40***	***4,097.5***	***883.00***	***294.0***	***-1,601.5***	***108.8***	***0.00***	***0.00***	***0.00***
4,500.0	26.87	280.40	4,132.0	848.51	297.2	-1,618.7	110.0	0.00	0.00	0.00
4,600.0	26.87	280.40	4,221.2	759.31	305.3	-1,663.1	113.0	0.00	0.00	0.00
4,700.0	26.87	280.40	4,310.4	670.11	313.5	-1,707.6	116.0	0.00	0.00	0.00
4,800.0	26.87	280.40	4,399.6	580.91	321.6	-1,752.1	119.1	0.00	0.00	0.00
4,900.0	26.87	280.40	4,488.8	491.71	329.8	-1,796.5	122.1	0.00	0.00	0.00
END OF TANGENT										
4,970.3	***26.87***	***280.40***	***4,551.5***	***428.98***	***335.5***	***-1,827.8***	***124.2***	***0.00***	***0.00***	***0.00***
5,000.0	26.28	280.40	4,578.1	402.44	337.9	-1,840.9	125.1	2.00	-2.00	0.00
5,100.0	24.28	280.40	4,668.5	312.02	345.6	-1,882.9	127.9	2.00	-2.00	0.00
5,200.0	22.28	280.40	4,760.3	220.17	352.8	-1,921.7	130.6	2.00	-2.00	0.00
5,300.0	20.28	280.40	4,853.5	126.99	359.3	-1,957.4	133.0	2.00	-2.00	0.00
5,400.0	18.28	280.40	4,947.9	32.60	365.3	-1,989.9	135.2	2.00	-2.00	0.00
5,500.0	16.28	280.40	5,043.4	-62.88	370.7	-2,019.1	137.2	2.00	-2.00	0.00
5,600.0	14.28	280.40	5,139.8	-159.34	375.4	-2,045.0	139.0	2.00	-2.00	0.00
SHANNON										
5,657.3	***13.13***	***280.40***	***5,195.5***	***-215.00***	***377.9***	***-2,058.4***	***139.9***	***2.00***	***-2.00***	***0.00***
5,700.0	12.28	280.40	5,237.2	-256.66	379.6	-2,067.6	140.5	2.00	-2.00	0.00
5,800.0	10.28	280.40	5,335.2	-354.72	383.1	-2,086.9	141.8	2.00	-2.00	0.00
5,900.0	8.28	280.40	5,433.9	-453.41	386.0	-2,102.7	142.9	2.00	-2.00	0.00
6,000.0	6.28	280.40	5,533.1	-552.60	388.3	-2,115.2	143.7	2.00	-2.00	0.00
6,100.0	4.28	280.40	5,632.7	-652.17	390.0	-2,124.2	144.3	2.00	-2.00	0.00
6,200.0	2.28	280.40	5,732.5	-752.00	391.0	-2,129.9	144.7	2.00	-2.00	0.00
6,300.0	0.28	280.40	5,832.5	-851.97	391.4	-2,132.1	144.9	2.00	-2.00	0.00
EOD TO VERTICAL										
6,314.0	***0.00***	***0.00***	***5,846.5***	***-866.00***	***391.4***	***-2,132.1***	***144.9***	***2.00***	***-2.00***	***567.32***
6,400.0	0.00	0.00	5,932.5	-951.97	391.4	-2,132.1	144.9	0.00	0.00	0.00
KOP (10°/100ft BUR)										
6,414.0	***0.00***	***0.00***	***5,946.5***	***-966.00***	***391.4***	***-2,132.1***	***144.9***	***0.00***	***0.00***	***0.00***
6,500.0	8.60	177.41	6,032.1	-1,051.65	385.0	-2,131.8	151.0	10.00	10.00	0.00
6,600.0	18.60	177.41	6,129.2	-1,148.72	361.5	-2,130.7	173.5	10.00	10.00	0.00
6,700.0	28.59	177.41	6,220.7	-1,240.24	321.6	-2,128.9	211.8	10.00	10.00	0.00
SHARON SPRINGS SHALE										
6,704.3	***29.02***	***177.41***	***6,224.5***	***-1,244.00***	***319.5***	***-2,128.8***	***213.8***	***10.00***	***10.00***	***0.00***
NIOBRARA FORMATION										
6,788.0	***37.40***	***177.41***	***6,294.5***	***-1,314.00***	***273.7***	***-2,126.8***	***257.6***	***10.00***	***10.00***	***0.00***
6,800.0	38.59	177.41	6,303.9	-1,323.44	266.4	-2,126.4	264.7	10.00	10.00	0.00
NIOBRARA A CHALK										
6,800.7	***38.67***	***177.41***	***6,304.5***	***-1,324.00***	***265.9***	***-2,126.4***	***265.1***	***10.00***	***10.00***	***0.00***
6,900.0	48.59	177.41	6,376.3	-1,395.77	197.6	-2,123.3	330.6	10.00	10.00	0.00
NIOBRARA B CHALK										
6,961.7	***54.76***	***177.41***	***6,414.5***	***-1,434.00***	***149.3***	***-2,121.1***	***376.9***	***10.00***	***10.00***	***0.00***
7,000.0	58.59	177.41	6,435.5	-1,455.05	117.3	-2,119.7	407.5	10.00	10.00	0.00
7,100.0	68.59	177.41	6,480.0	-1,499.47	27.9	-2,115.7	493.2	10.00	10.00	0.00
NIOBRARA C CHALK										
7,112.8	***69.87***	***177.41***	***6,484.5***	***-1,504.00***	***16.0***	***-2,115.1***	***504.6***	***10.00***	***10.00***	***0.00***
7,200.0	78.59	177.41	6,508.2	-1,527.68	-67.8	-2,111.3	584.9	10.00	10.00	0.00
7,300.0	88.59	177.41	6,519.3	-1,538.83	-166.9	-2,106.8	679.9	10.00	10.00	0.00
BPI: 2040ft FSL & 1799ft FEL of Sec 30										
7,314.1	***90.00***	***177.41***	***6,519.5***	***-1,539.00***	***-181.0***	***-2,106.2***	***693.3***	***10.00***	***10.00***	***0.00***
7,400.0	90.00	177.41	6,519.5	-1,539.01	-266.8	-2,102.3	775.6	0.00	0.00	0.00
7,500.0	90.00	177.41	6,519.5	-1,539.01	-366.7	-2,097.8	871.3	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well BASHOR FED 9-60 29-30-31-2
Company:	BISON OIL & GAS II, LLC	**TVD Reference:**	KB-EST @ 4980.5usft (Original Well Elev)
Project:	WELD COUNTY, COLORADO (NAD 83)	**MD Reference:**	KB-EST @ 4980.5usft (Original Well Elev)
Site:	NW SW SEC. 29 T9N R60W 6th P.M.	**North Reference:**	True
Well:	BASHOR FED 9-60 29-30-31-2	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #1		

Planned Survey

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	SS (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,600.0	90.00	177.41	6,519.5	-1,539.02	-466.6	-2,093.3	967.0	0.00	0.00	0.00
7,700.0	90.00	177.41	6,519.5	-1,539.03	-566.5	-2,088.8	1,062.7	0.00	0.00	0.00
7,800.0	90.00	177.41	6,519.5	-1,539.03	-666.4	-2,084.2	1,158.5	0.00	0.00	0.00
7,900.0	90.00	177.41	6,519.5	-1,539.04	-766.3	-2,079.7	1,254.2	0.00	0.00	0.00
8,000.0	90.00	177.41	6,519.5	-1,539.05	-866.2	-2,075.2	1,349.9	0.00	0.00	0.00
8,100.0	90.00	177.41	6,519.6	-1,539.05	-966.1	-2,070.7	1,445.6	0.00	0.00	0.00
8,200.0	90.00	177.41	6,519.6	-1,539.06	-1,066.0	-2,066.2	1,541.3	0.00	0.00	0.00
8,300.0	90.00	177.41	6,519.6	-1,539.06	-1,165.9	-2,061.6	1,637.1	0.00	0.00	0.00
8,400.0	90.00	177.41	6,519.6	-1,539.07	-1,265.8	-2,057.1	1,732.8	0.00	0.00	0.00
8,500.0	90.00	177.41	6,519.6	-1,539.07	-1,365.7	-2,052.6	1,828.5	0.00	0.00	0.00
8,600.0	90.00	177.41	6,519.6	-1,539.08	-1,465.6	-2,048.1	1,924.2	0.00	0.00	0.00
8,700.0	90.00	177.41	6,519.6	-1,539.08	-1,565.5	-2,043.6	2,019.9	0.00	0.00	0.00
8,800.0	90.00	177.41	6,519.6	-1,539.09	-1,665.4	-2,039.0	2,115.6	0.00	0.00	0.00
8,900.0	90.00	177.41	6,519.6	-1,539.09	-1,765.3	-2,034.5	2,211.4	0.00	0.00	0.00
9,000.0	90.00	177.41	6,519.6	-1,539.10	-1,865.2	-2,030.0	2,307.1	0.00	0.00	0.00
9,100.0	90.00	177.41	6,519.6	-1,539.10	-1,965.1	-2,025.5	2,402.8	0.00	0.00	0.00
9,200.0	90.00	177.41	6,519.6	-1,539.10	-2,065.0	-2,021.0	2,498.5	0.00	0.00	0.00
9,300.0	90.00	177.41	6,519.6	-1,539.11	-2,164.9	-2,016.4	2,594.2	0.00	0.00	0.00
9,400.0	90.00	177.41	6,519.6	-1,539.11	-2,264.8	-2,011.9	2,690.0	0.00	0.00	0.00
9,500.0	90.00	177.41	6,519.6	-1,539.11	-2,364.7	-2,007.4	2,785.7	0.00	0.00	0.00
9,600.0	90.00	177.41	6,519.6	-1,539.11	-2,464.6	-2,002.9	2,881.4	0.00	0.00	0.00
9,700.0	90.00	177.41	6,519.6	-1,539.12	-2,564.5	-1,998.4	2,977.1	0.00	0.00	0.00
9,800.0	90.00	177.41	6,519.6	-1,539.12	-2,664.4	-1,993.8	3,072.8	0.00	0.00	0.00
9,900.0	90.00	177.41	6,519.6	-1,539.12	-2,764.3	-1,989.3	3,168.6	0.00	0.00	0.00
10,000.0	90.00	177.41	6,519.6	-1,539.12	-2,864.2	-1,984.8	3,264.3	0.00	0.00	0.00
10,100.0	90.00	177.41	6,519.6	-1,539.12	-2,964.1	-1,980.3	3,360.0	0.00	0.00	0.00
10,200.0	90.00	177.41	6,519.6	-1,539.12	-3,064.0	-1,975.7	3,455.7	0.00	0.00	0.00
10,300.0	90.00	177.41	6,519.6	-1,539.13	-3,163.9	-1,971.2	3,551.4	0.00	0.00	0.00
10,400.0	90.00	177.41	6,519.6	-1,539.13	-3,263.8	-1,966.7	3,647.2	0.00	0.00	0.00
10,500.0	90.00	177.41	6,519.6	-1,539.13	-3,363.7	-1,962.2	3,742.9	0.00	0.00	0.00
10,600.0	90.00	177.41	6,519.6	-1,539.13	-3,463.6	-1,957.7	3,838.6	0.00	0.00	0.00
10,700.0	90.00	177.41	6,519.6	-1,539.13	-3,563.5	-1,953.1	3,934.3	0.00	0.00	0.00
10,800.0	90.00	177.41	6,519.6	-1,539.13	-3,663.3	-1,948.6	4,030.0	0.00	0.00	0.00
10,900.0	90.00	177.41	6,519.6	-1,539.13	-3,763.2	-1,944.1	4,125.7	0.00	0.00	0.00
11,000.0	90.00	177.41	6,519.6	-1,539.12	-3,863.1	-1,939.6	4,221.5	0.00	0.00	0.00
11,100.0	90.00	177.41	6,519.6	-1,539.12	-3,963.0	-1,935.1	4,317.2	0.00	0.00	0.00
11,200.0	90.00	177.41	6,519.6	-1,539.12	-4,062.9	-1,930.5	4,412.9	0.00	0.00	0.00
11,300.0	90.00	177.41	6,519.6	-1,539.12	-4,162.8	-1,926.0	4,508.6	0.00	0.00	0.00
11,400.0	90.00	177.41	6,519.6	-1,539.12	-4,262.7	-1,921.5	4,604.3	0.00	0.00	0.00
11,500.0	90.00	177.41	6,519.6	-1,539.12	-4,362.6	-1,917.0	4,700.1	0.00	0.00	0.00
11,600.0	90.00	177.41	6,519.6	-1,539.12	-4,462.5	-1,912.4	4,795.8	0.00	0.00	0.00
11,700.0	90.00	177.41	6,519.6	-1,539.11	-4,562.4	-1,907.9	4,891.5	0.00	0.00	0.00
11,800.0	90.00	177.41	6,519.6	-1,539.11	-4,662.3	-1,903.4	4,987.2	0.00	0.00	0.00
11,900.0	90.00	177.41	6,519.6	-1,539.11	-4,762.2	-1,898.9	5,082.9	0.00	0.00	0.00
12,000.0	90.00	177.41	6,519.6	-1,539.10	-4,862.1	-1,894.4	5,178.6	0.00	0.00	0.00
12,100.0	90.00	177.41	6,519.6	-1,539.10	-4,962.0	-1,889.8	5,274.4	0.00	0.00	0.00
12,200.0	90.00	177.41	6,519.6	-1,539.10	-5,061.9	-1,885.3	5,370.1	0.00	0.00	0.00
12,300.0	90.00	177.41	6,519.6	-1,539.09	-5,161.8	-1,880.8	5,465.8	0.00	0.00	0.00
12,400.0	90.00	177.41	6,519.6	-1,539.09	-5,261.7	-1,876.3	5,561.5	0.00	0.00	0.00
12,500.0	90.00	177.41	6,519.6	-1,539.09	-5,361.6	-1,871.7	5,657.2	0.00	0.00	0.00
12,600.0	90.00	177.41	6,519.6	-1,539.08	-5,461.5	-1,867.2	5,753.0	0.00	0.00	0.00
12,700.0	90.00	177.41	6,519.6	-1,539.08	-5,561.4	-1,862.7	5,848.7	0.00	0.00	0.00
12,800.0	90.00	177.41	6,519.6	-1,539.07	-5,661.3	-1,858.2	5,944.4	0.00	0.00	0.00
12,900.0	90.00	177.41	6,519.6	-1,539.07	-5,761.2	-1,853.7	6,040.1	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well BASHOR FED 9-60 29-30-31-2
Company:	BISON OIL & GAS II, LLC	**TVD Reference:**	KB-EST @ 4980.5usft (Original Well Elev)
Project:	WELD COUNTY, COLORADO (NAD 83)	**MD Reference:**	KB-EST @ 4980.5usft (Original Well Elev)
Site:	NW SW SEC. 29 T9N R60W 6th P.M.	**North Reference:**	True
Well:	BASHOR FED 9-60 29-30-31-2	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #1		

Planned Survey

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	SS (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,000.0	90.00	177.41	6,519.6	-1,539.06	-5,861.1	-1,849.1	6,135.8	0.00	0.00	0.00
13,100.0	90.00	177.41	6,519.6	-1,539.05	-5,961.0	-1,844.6	6,231.6	0.00	0.00	0.00
13,200.0	90.00	177.41	6,519.5	-1,539.05	-6,060.9	-1,840.1	6,327.3	0.00	0.00	0.00
13,300.0	90.00	177.41	6,519.5	-1,539.04	-6,160.8	-1,835.6	6,423.0	0.00	0.00	0.00
13,400.0	90.00	177.41	6,519.5	-1,539.04	-6,260.7	-1,831.0	6,518.7	0.00	0.00	0.00
13,500.0	90.00	177.41	6,519.5	-1,539.03	-6,360.6	-1,826.5	6,614.4	0.00	0.00	0.00
13,600.0	90.00	177.41	6,519.5	-1,539.02	-6,460.5	-1,822.0	6,710.1	0.00	0.00	0.00
13,700.0	90.00	177.41	6,519.5	-1,539.02	-6,560.4	-1,817.5	6,805.9	0.00	0.00	0.00
13,800.0	90.00	177.41	6,519.5	-1,539.01	-6,660.3	-1,812.9	6,901.6	0.00	0.00	0.00
13,900.0	90.00	177.41	6,519.5	-1,539.00	-6,760.2	-1,808.4	6,997.3	0.00	0.00	0.00
EPI: 600ft FSL & 1795ft FEL of Sec 31										
13,912.3	***90.00***	***177.41***	***6,519.5***	***-1,539.00***	***-6,772.5***	***-1,807.9***	***7,009.1***	***0.00***	***0.00***	***0.00***
EOT TO 177.35° Az										
13,914.2	***90.00***	***177.35***	***6,519.5***	***-1,539.00***	***-6,774.4***	***-1,807.8***	***7,010.9***	***3.00***	***0.00***	***-3.00***
14,000.0	90.00	177.35	6,519.5	-1,539.00	-6,860.1	-1,803.8	7,093.0	0.00	0.00	0.00
14,100.0	90.00	177.35	6,519.5	-1,538.99	-6,960.0	-1,799.2	7,188.7	0.00	0.00	0.00
14,200.0	90.00	177.36	6,519.5	-1,539.00	-7,059.9	-1,794.6	7,284.4	0.00	0.00	0.00
BHL: 300ft FSL & 1799ft FEL of Sec 31										
14,212.1	***90.00***	***177.36***	***6,519.5***	***-1,539.00***	***-7,071.9***	***-1,794.0***	***7,295.9***	***0.00***	***0.00***	***0.00***

Formations

MD (usft)	TVD (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
561.5	560.5	PIERRE SHALE (BASE FOX HILLS)			
3,872.8	3,572.5	PARKMAN			
4,461.3	4,097.5	SUSSEX			
5,657.3	5,195.5	SHANNON			
6,704.3	6,224.5	SHARON SPRINGS SHALE			
6,788.0	6,294.5	NIOBRARA FORMATION			
6,800.7	6,304.5	NIOBRARA A CHALK			
6,961.7	6,414.5	NIOBRARA B CHALK			
7,112.8	6,484.5	NIOBRARA C CHALK			

Plan Annotations

MD (usft)	TVD (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
0.0	0.0	0.0	0.0	SHL: 2183ft FSL & 310ft FWL of Sec 29
200.0	200.0	0.0	0.0	START NUDGE (2°/100ft BUR)
1,543.7	1,495.0	55.9	-304.3	EOB TO 26.87° INC
4,970.3	4,551.5	335.5	-1,827.8	END OF TANGENT
6,314.0	5,846.5	391.4	-2,132.1	EOD TO VERTICAL
6,414.0	5,946.5	391.4	-2,132.1	KOP (10°/100ft BUR)
7,314.1	6,519.5	-181.0	-2,106.2	BPI: 2040ft FSL & 1799ft FEL of Sec 30
13,912.3	6,519.5	-6,772.5	-1,807.9	EPI: 600ft FSL & 1795ft FEL of Sec 31
13,914.2	6,519.5	-6,774.4	-1,807.8	EOT TO 177.35° Az
14,212.1	6,519.5	-7,071.9	-1,794.0	BHL: 300ft FSL & 1799ft FEL of Sec 31