

BISON OIL & GAS II, LLC

WELD COUNTY, COLORADO (NAD 83)

SW SW SEC. 6 T8N R60W 6th P.M.

HUNT 8-60 6C-5-6

ORIGINAL WELLBORE

15 March, 2018

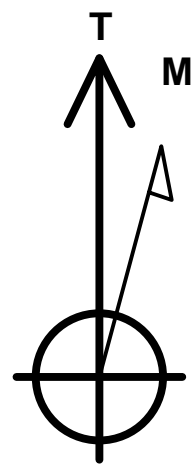
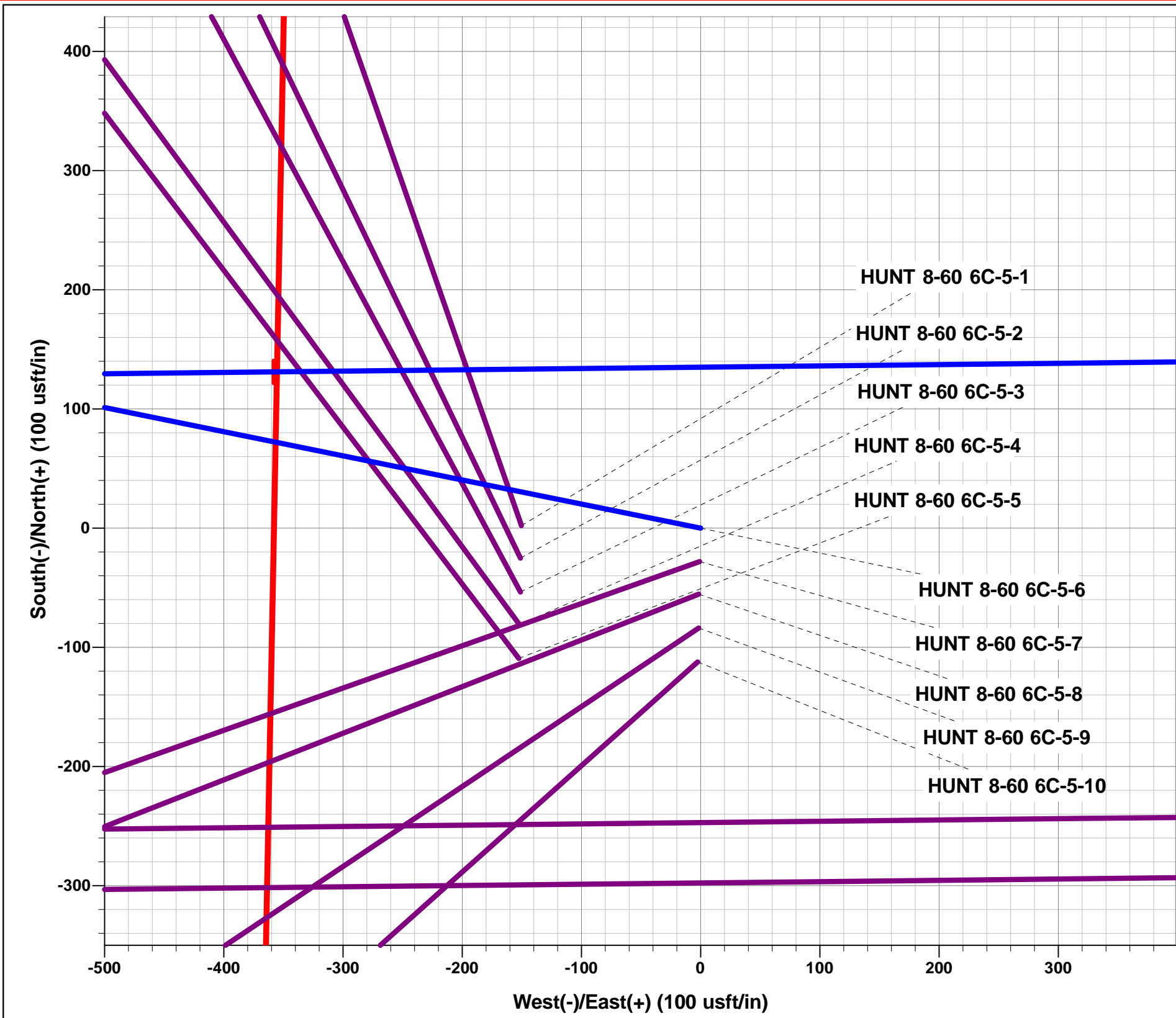
Plan: PROPOSAL #2



Project: WELD COUNTY, COLORADO (NAD 83)
Site: SW SW SEC. 6 T8N R60W 6th P.M.
Well: HUNT 8-60 6C-5-6
Wellbore: ORIGINAL WELLBORE
Design: PROPOSAL #2

ANNOTATIONS									
TVD	MD	Inc	Azi	+N/-S	+E/-W	VSect	Dep	Annotation	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL: 1297ft FSL & 660ft FWL of Sec 6	
600.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	START NUDGE (2°/100ft BUR)	
1195.62	1200.00	12.00	281.44	12.42	-61.36	-61.03	62.60	EOB TO 12° INC	
3646.40	3705.53	12.00	281.44	115.77	-571.93	-568.90	583.53	END OF TANGENT	
4242.02	4305.53	0.00	0.00	128.19	-633.29	-629.93	646.13	EOD TO VERTICAL	
5869.24	5932.75	0.00	0.00	128.19	-633.29	-629.93	646.13	KOP (10°/100ft BUR)	
6358.63	6519.40	58.67	89.38	131.17	-358.31	-354.96	921.40	BPI: 1430ft FSL & 300ft FWL of Sec 6	
6442.20	6832.75	90.00	89.38	134.40	-60.36	-57.02	1219.10	HZ LANDING POINT	
6442.20	16545.89	90.00	89.38	239.81	9652.21	9655.19	10932.24	EPI: 1494ft FSL & 300ft FEL of Sec 5	
6442.20	16646.01	90.00	89.33	240.94	9752.32	9755.29	11032.35	BHL: 1494ft FSL & 200ft FEL of Sec 5	

WELLBORE TARGET DETAILS (LAT/LONG)					
Name	TVD	+N/-S	+E/-W	Latitude	Longitude
KOP - HUNT 8-60 6C-5-6 (P2)	5869.24	128.19	-633.29	40.687896	-104.143403
EPI - HUNT 8-60 6C-5-6 (P2)	6442.20	239.81	9652.20	40.688197	-104.106315
BHL - HUNT 8-60 6C-5-6 (P2)	6442.20	240.94	9752.32	40.688200	-104.105954
BPI - HUNT 8-60 6C-5-6 (P2)	6358.63	131.17	-358.31	40.687904	-104.142411



Azimuths to True North
Magnetic North: 7.85°

Magnetic Field
Strength: 52551.7snT
Dip Angle: 67.17°
Date: 29/11/2017
Model: IGRF2015

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
567.20	567.20	PIERRE SHALE
3570.20	3627.63	PARKMAN
4095.20	4158.64	SUSSEX
5193.20	5256.71	SHANNON
6222.20	6313.01	SHARON SPRINGS SHALE
6292.20	6408.53	NIOBARARA FORMATION
6302.20	6423.57	NIOBARARA A CHALK
6412.20	6646.52	NIOBARARA B CHALK

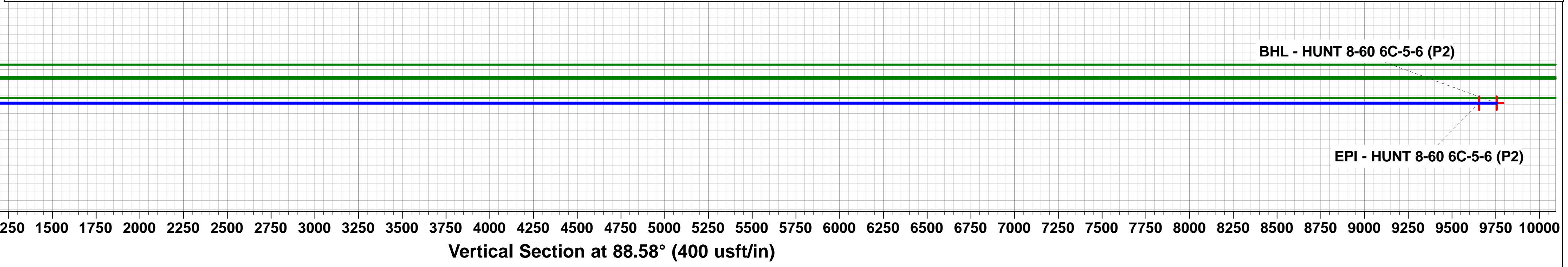
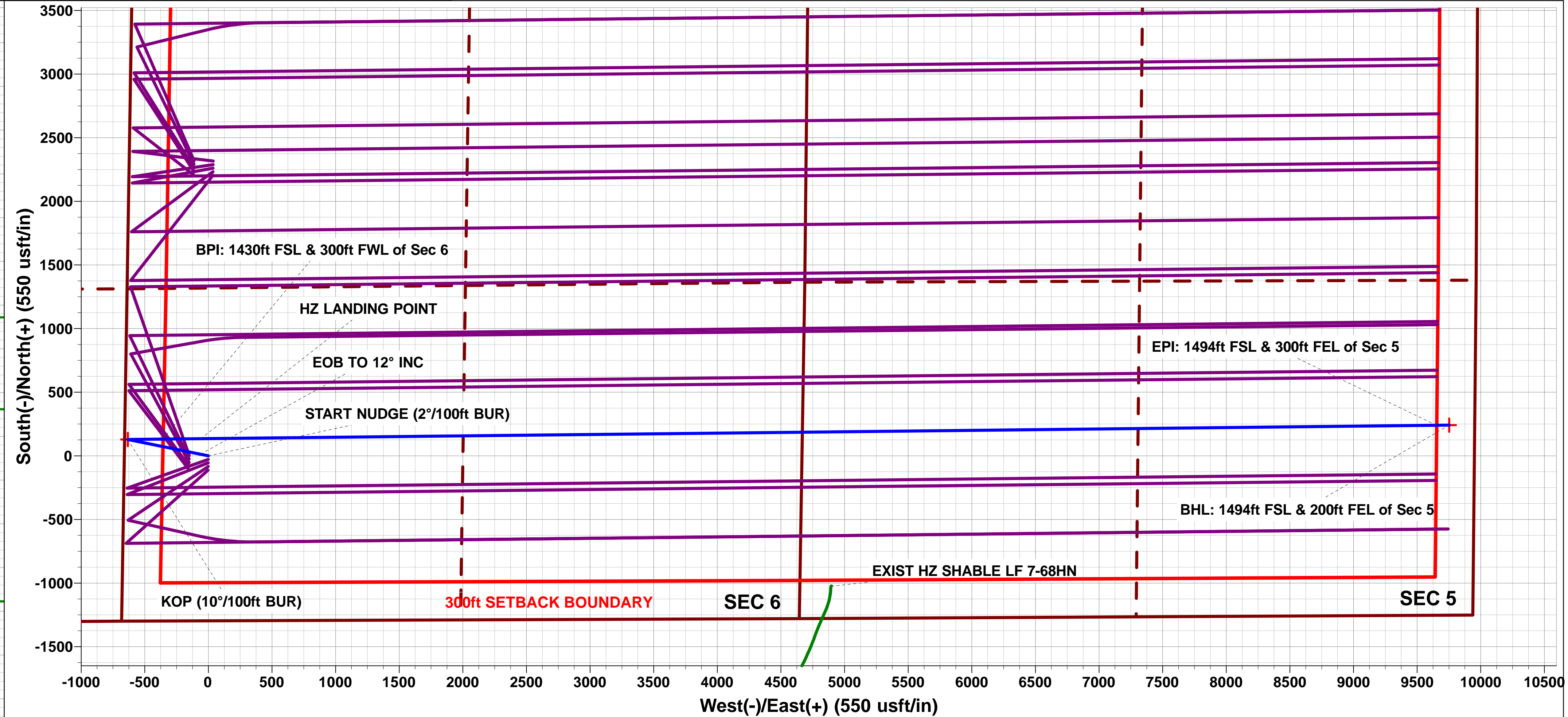
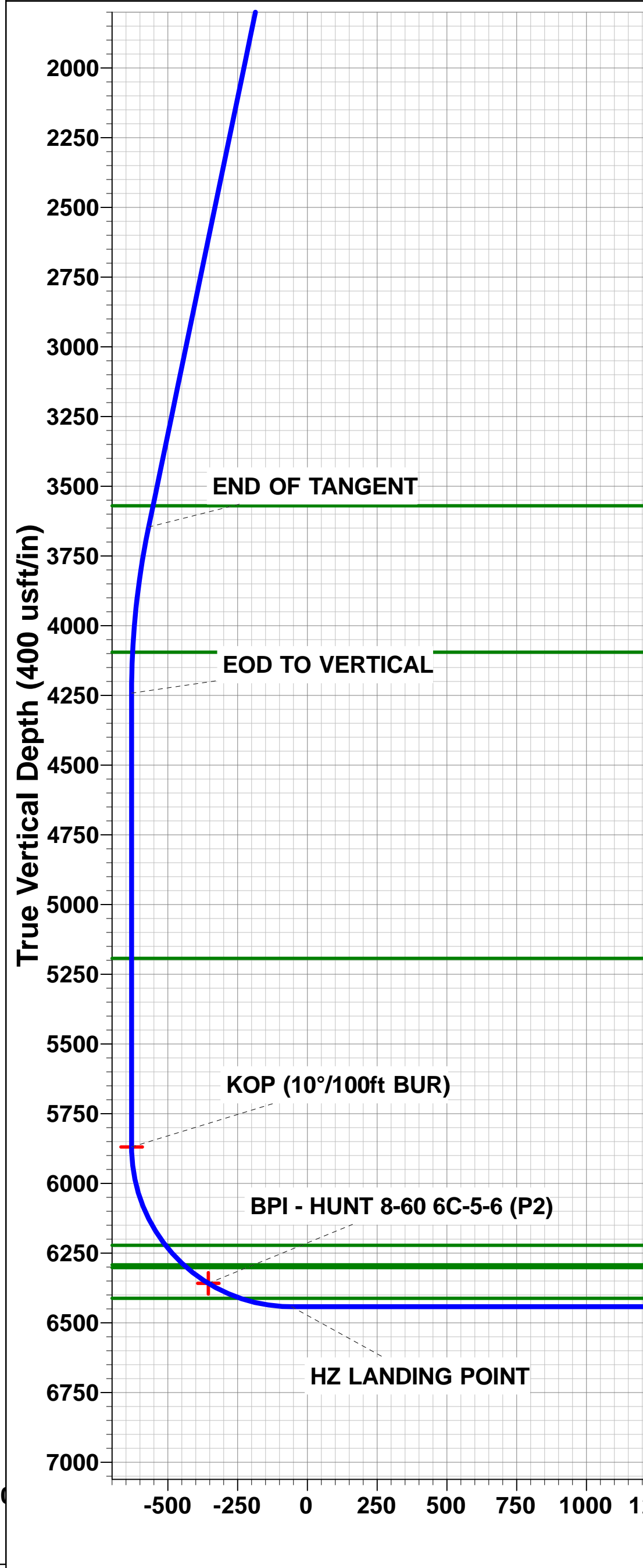
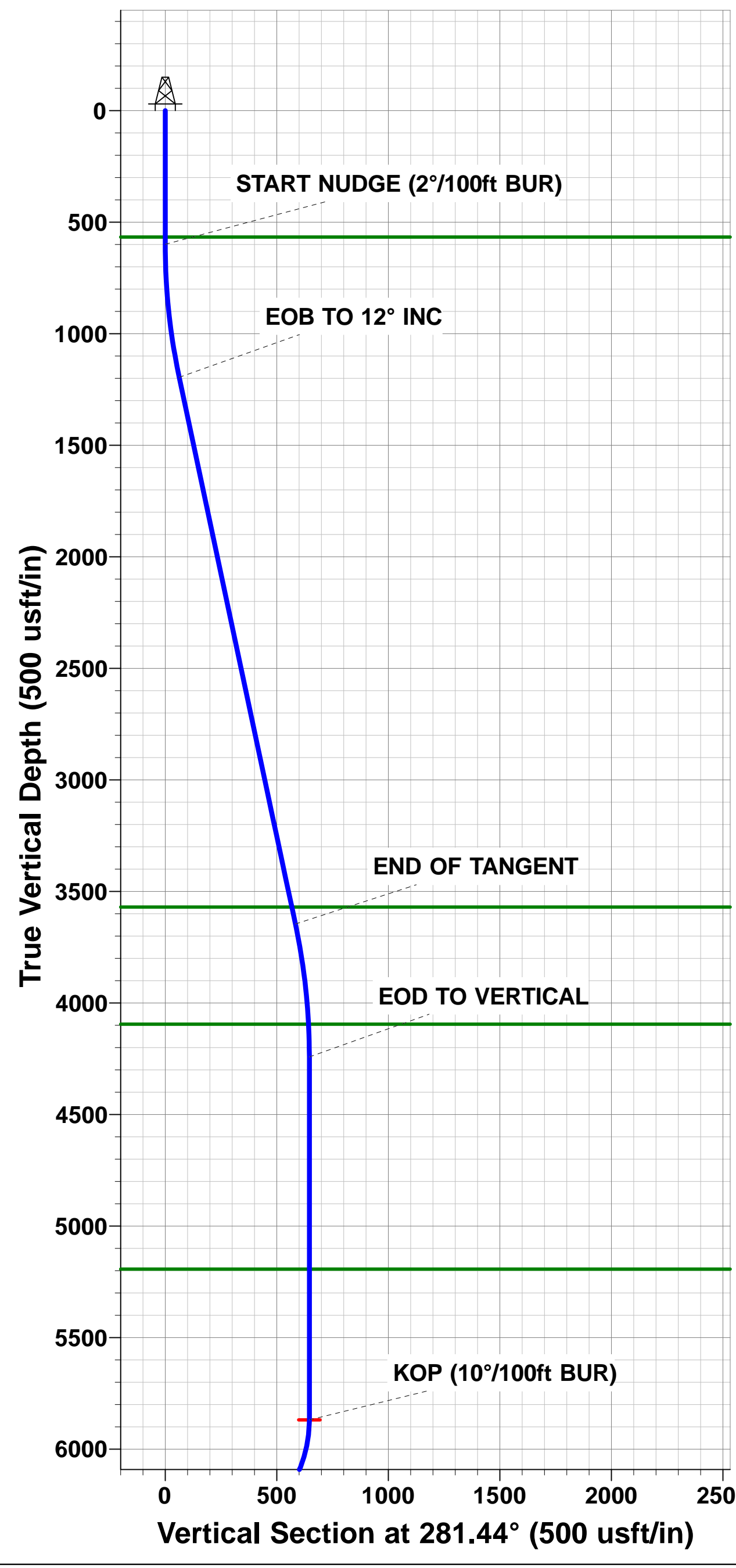
PROPOSED LOCAL COORDINATES:

SHL: 1297ft FSL & 660ft FWL of Sec 6

BEGIN PROD INT: 1430ft FSL & 300ft FWL of Sec 6

END PROD INTERVAL: 1494ft FSL & 300ft FEL of Sec 5

BHL: 1494ft FSL & 200ft FEL of Sec 5



Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well HUNT 8-60 6C-5-6
Company:	BISON OIL & GAS II, LLC	TVD Reference:	KB-EST @ 4987.20usft (Original Well Elev)
Project:	WELD COUNTY, COLORADO (NAD 83)	MD Reference:	KB-EST @ 4987.20usft (Original Well Elev)
Site:	SW SW SEC. 6 T8N R60W 6th P.M.	North Reference:	True
Well:	HUNT 8-60 6C-5-6	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #2		

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	SW SW SEC. 6 T8N R60W 6th P.M.				
Site Position:		Northing:	1,496,202.88 usft	Latitude:	40.687550
From:	Lat/Long	Easting:	3,376,692.05 usft	Longitude:	-104.141661
Position Uncertainty:	0.00 usft	Slot Radius:	1.10000 ft	Grid Convergence:	0.88 °

Well	HUNT 8-60 6C-5-6					
Well Position	+N/-S	-2.19 usft	Northing:	1,496,202.99 usft	Latitude:	40.687544
	+E/-W	150.31 usft	Easting:	3,376,842.38 usft	Longitude:	-104.141119
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	4,962.20 usft

Wellbore	ORIGINAL WELLBORE				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	29/11/2017	7.85	67.17	52,552

Design	PROPOSAL #2			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	6,442.20	0.00	0.00	88.58

Plan Sections											
MD (usft)	Inc (°)	Azi (°)	Vertical Depth	SS (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usf)	Build Rate (°/100usf)	Turn Rate (°/100usf)	TFO (°)	Target
0.00	0.00	0.00	0.00	-4,987.20	0.00	0.00	0.00	0.00	0.00	0.00	
600.00	0.00	0.00	600.00	-4,387.20	0.00	0.00	0.00	0.00	0.00	0.00	
1,200.00	12.00	281.44	1,195.62	-3,791.58	12.42	-61.36	2.00	2.00	0.00	281.44	
3,705.53	12.00	281.44	3,646.40	-1,340.80	115.77	-571.93	0.00	0.00	0.00	0.00	
4,305.53	0.00	0.00	4,242.02	-745.18	128.19	-633.29	2.00	-2.00	0.00	180.00	
5,932.75	0.00	0.00	5,869.24	882.04	128.19	-633.29	0.00	0.00	0.00	0.00	KOP - HUNT 8-60 6
6,832.75	90.00	89.38	6,442.20	1,455.00	134.40	-60.37	10.00	10.00	0.00	89.38	
16,545.89	90.00	89.38	6,442.20	1,455.00	239.81	9,652.20	0.00	0.00	0.00	-90.70	EPI - HUNT 8-60 6
16,646.01	90.00	89.33	6,442.20	1,455.00	240.94	9,752.32	0.05	0.00	-0.05	-89.94	BHL - HUNT 8-60 6

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Project:	WELD COUNTY, COLORADO (NAD 83)	MD Reference:	KB-EST @ 4987.20usft (Original Well Elev)
Site:	SW SW SEC. 6 T8N R60W 6th P.M.	North Reference:	True
Well:	HUNT 8-60 6C-5-6	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #2		

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: 1297ft FSL & 660ft FWL of Sec 6										
0.00	0.00	0.00	0.00	4,987.20	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	4,887.20	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	4,787.20	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	4,687.20	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	4,587.20	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	4,487.20	0.00	0.00	0.00	0.00	0.00	0.00
PIERRE SHALE (BASE OF FOX HILLS)										
567.20	0.00	0.00	567.20	4,420.00	0.00	0.00	0.00	0.00	0.00	0.00
START NUDGE (2°/100ft BUR)										
600.00	0.00	0.00	600.00	4,387.20	0.00	0.00	0.00	0.00	0.00	0.00
700.00	2.00	281.44	699.98	4,287.22	0.35	-1.71	-1.70	2.00	2.00	0.00
800.00	4.00	281.44	799.84	4,187.36	1.38	-6.84	-6.80	2.00	2.00	0.00
900.00	6.00	281.44	899.45	4,087.75	3.11	-15.38	-15.30	2.00	2.00	0.00
1,000.00	8.00	281.44	998.70	3,988.50	5.53	-27.33	-27.18	2.00	2.00	0.00
1,100.00	10.00	281.44	1,097.47	3,889.73	8.63	-42.66	-42.43	2.00	2.00	0.00
EOB TO 12° INC										
1,200.00	12.00	281.44	1,195.62	3,791.58	12.42	-61.36	-61.03	2.00	2.00	0.00
1,300.00	12.00	281.44	1,293.44	3,693.76	16.54	-81.74	-81.30	0.00	0.00	0.00
1,400.00	12.00	281.44	1,391.25	3,595.95	20.67	-102.11	-101.57	0.00	0.00	0.00
1,500.00	12.00	281.44	1,489.07	3,498.13	24.79	-122.49	-121.84	0.00	0.00	0.00
1,600.00	12.00	281.44	1,586.88	3,400.32	28.92	-142.87	-142.11	0.00	0.00	0.00
1,700.00	12.00	281.44	1,684.70	3,302.50	33.04	-163.25	-162.38	0.00	0.00	0.00
1,800.00	12.00	281.44	1,782.51	3,204.69	37.17	-183.63	-182.65	0.00	0.00	0.00
1,900.00	12.00	281.44	1,880.33	3,106.87	41.29	-204.00	-202.92	0.00	0.00	0.00
2,000.00	12.00	281.44	1,978.14	3,009.06	45.42	-224.38	-223.19	0.00	0.00	0.00
2,100.00	12.00	281.44	2,075.96	2,911.24	49.54	-244.76	-243.46	0.00	0.00	0.00
2,200.00	12.00	281.44	2,173.77	2,813.43	53.67	-265.14	-263.73	0.00	0.00	0.00
2,300.00	12.00	281.44	2,271.59	2,715.61	57.79	-285.51	-284.00	0.00	0.00	0.00
2,400.00	12.00	281.44	2,369.40	2,617.80	61.92	-305.89	-304.27	0.00	0.00	0.00
2,500.00	12.00	281.44	2,467.22	2,519.98	66.04	-326.27	-324.54	0.00	0.00	0.00
2,600.00	12.00	281.44	2,565.03	2,422.17	70.17	-346.65	-344.81	0.00	0.00	0.00
2,700.00	12.00	281.44	2,662.84	2,324.36	74.29	-367.03	-365.08	0.00	0.00	0.00
2,800.00	12.00	281.44	2,760.66	2,226.54	78.42	-387.40	-385.35	0.00	0.00	0.00
2,900.00	12.00	281.44	2,858.47	2,128.73	82.54	-407.78	-405.62	0.00	0.00	0.00
3,000.00	12.00	281.44	2,956.29	2,030.91	86.67	-428.16	-425.89	0.00	0.00	0.00
3,100.00	12.00	281.44	3,054.10	1,933.10	90.79	-448.54	-446.16	0.00	0.00	0.00
3,200.00	12.00	281.44	3,151.92	1,835.28	94.92	-468.92	-466.43	0.00	0.00	0.00
3,300.00	12.00	281.44	3,249.73	1,737.47	99.04	-489.29	-486.70	0.00	0.00	0.00
3,400.00	12.00	281.44	3,347.55	1,639.65	103.17	-509.67	-506.97	0.00	0.00	0.00
3,500.00	12.00	281.44	3,445.36	1,541.84	107.29	-530.05	-527.24	0.00	0.00	0.00
3,600.00	12.00	281.44	3,543.18	1,444.02	111.42	-550.43	-547.51	0.00	0.00	0.00
PARKMAN										
3,627.63	12.00	281.44	3,570.20	1,417.00	112.56	-556.06	-553.11	0.00	0.00	0.00
3,700.00	12.00	281.44	3,640.99	1,346.21	115.54	-570.81	-567.78	0.00	0.00	0.00
END OF TANGENT										
3,705.53	12.00	281.44	3,646.40	1,340.80	115.77	-571.93	-568.90	0.00	0.00	0.00
3,800.00	10.11	281.44	3,739.11	1,248.09	119.36	-589.69	-586.56	2.00	-2.00	0.00
3,900.00	8.11	281.44	3,837.85	1,149.35	122.51	-605.20	-601.99	2.00	-2.00	0.00
4,000.00	6.11	281.44	3,937.07	1,050.13	124.96	-617.34	-614.06	2.00	-2.00	0.00
4,100.00	4.11	281.44	4,036.67	950.53	126.73	-626.07	-622.75	2.00	-2.00	0.00
SUSSEX										
4,158.64	2.94	281.44	4,095.20	892.00	127.44	-629.60	-626.26	2.00	-2.00	0.00

Planning Report



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Site:	SW SW SEC. 6 T8N R60W 6th P.M.	North Reference:	True
Well:	HUNT 8-60 6C-5-6	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #2		

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)
4,200.00	2.11	281.44	4,136.52	850.68	127.80	-631.39	-628.04	2.00	-2.00	0.00
4,300.00	0.11	281.44	4,236.49	750.71	128.19	-633.28	-629.93	2.00	-2.00	0.00
EOD TO VERTICAL										
4,305.53	0.00	0.00	4,242.02	745.18	128.19	-633.29	-629.93	2.00	-2.00	0.00
4,400.00	0.00	0.00	4,336.49	650.71	128.19	-633.29	-629.93	0.00	0.00	0.00
4,500.00	0.00	0.00	4,436.49	550.71	128.19	-633.29	-629.93	0.00	0.00	0.00
4,600.00	0.00	0.00	4,536.49	450.71	128.19	-633.29	-629.93	0.00	0.00	0.00
4,700.00	0.00	0.00	4,636.49	350.71	128.19	-633.29	-629.93	0.00	0.00	0.00
4,800.00	0.00	0.00	4,736.49	250.71	128.19	-633.29	-629.93	0.00	0.00	0.00
4,900.00	0.00	0.00	4,836.49	150.71	128.19	-633.29	-629.93	0.00	0.00	0.00
5,000.00	0.00	0.00	4,936.49	50.71	128.19	-633.29	-629.93	0.00	0.00	0.00
5,100.00	0.00	0.00	5,036.49	-49.29	128.19	-633.29	-629.93	0.00	0.00	0.00
5,200.00	0.00	0.00	5,136.49	-149.29	128.19	-633.29	-629.93	0.00	0.00	0.00
SHANNON										
5,256.71	0.00	0.00	5,193.20	-206.00	128.19	-633.29	-629.93	0.00	0.00	0.00
5,300.00	0.00	0.00	5,236.49	-249.29	128.19	-633.29	-629.93	0.00	0.00	0.00
5,400.00	0.00	0.00	5,336.49	-349.29	128.19	-633.29	-629.93	0.00	0.00	0.00
5,500.00	0.00	0.00	5,436.49	-449.29	128.19	-633.29	-629.93	0.00	0.00	0.00
5,600.00	0.00	0.00	5,536.49	-549.29	128.19	-633.29	-629.93	0.00	0.00	0.00
5,700.00	0.00	0.00	5,636.49	-649.29	128.19	-633.29	-629.93	0.00	0.00	0.00
5,800.00	0.00	0.00	5,736.49	-749.29	128.19	-633.29	-629.93	0.00	0.00	0.00
5,900.00	0.00	0.00	5,836.49	-849.29	128.19	-633.29	-629.93	0.00	0.00	0.00
KOP (10°/100ft BUR)										
5,932.75	0.00	0.00	5,869.24	-882.04	128.19	-633.29	-629.93	0.00	0.00	0.00
6,000.00	6.73	89.38	5,936.34	-949.14	128.23	-629.35	-625.99	10.00	10.00	0.00
6,100.00	16.73	89.38	6,034.13	-1,046.93	128.45	-609.05	-605.69	10.00	10.00	0.00
6,200.00	26.73	89.38	6,126.91	-1,139.71	128.85	-572.09	-568.73	10.00	10.00	0.00
6,300.00	36.73	89.38	6,211.86	-1,224.66	129.42	-519.57	-516.22	10.00	10.00	0.00
SHARON SPRINGS SHALE										
6,313.01	38.03	89.38	6,222.20	-1,235.00	129.51	-511.67	-508.32	10.00	10.00	0.00
6,400.00	46.73	89.38	6,286.40	-1,299.20	130.14	-453.10	-449.75	10.00	10.00	0.00
NIOBRARA FORMATION										
6,408.53	47.58	89.38	6,292.20	-1,305.00	130.21	-446.85	-443.50	10.00	10.00	0.00
NIOBRARA A CHALK										
6,423.57	49.08	89.38	6,302.20	-1,315.00	130.33	-435.61	-432.26	10.00	10.00	0.00
6,500.00	56.73	89.38	6,348.26	-1,361.06	130.99	-374.70	-371.35	10.00	10.00	0.00
BPI: 1430ft FSL & 300ft FWL of Sec 6										
6,519.40	58.67	89.38	6,358.63	-1,371.43	131.17	-358.31	-354.96	10.00	10.00	0.00
6,600.00	66.73	89.38	6,395.57	-1,408.37	131.94	-286.75	-283.40	10.00	10.00	0.00
NIOBRARA B CHALK										
6,646.52	71.38	89.38	6,412.20	-1,425.00	132.42	-243.32	-239.97	10.00	10.00	0.00
6,700.00	76.73	89.38	6,426.89	-1,439.69	132.97	-191.92	-188.58	10.00	10.00	0.00
6,800.00	86.73	89.38	6,441.26	-1,454.06	134.04	-93.09	-89.75	10.00	10.00	0.00
HZ LANDING POINT										
6,832.75	90.00	89.38	6,442.20	-1,455.00	134.40	-60.36	-57.02	10.00	10.00	0.00
6,900.00	90.00	89.38	6,442.20	-1,455.00	135.13	6.88	10.22	0.00	0.00	0.00
7,000.00	90.00	89.38	6,442.20	-1,455.00	136.21	106.88	110.21	0.00	0.00	0.00
7,100.00	90.00	89.38	6,442.20	-1,455.00	137.29	206.87	210.20	0.00	0.00	0.00
7,200.00	90.00	89.38	6,442.20	-1,455.00	138.38	306.87	310.19	0.00	0.00	0.00
7,300.00	90.00	89.38	6,442.20	-1,455.00	139.46	406.86	410.18	0.00	0.00	0.00
7,400.00	90.00	89.38	6,442.20	-1,455.00	140.54	506.86	510.17	0.00	0.00	0.00
7,500.00	90.00	89.38	6,442.20	-1,455.00	141.63	606.85	610.16	0.00	0.00	0.00
7,600.00	90.00	89.38	6,442.20	-1,455.00	142.71	706.84	710.15	0.00	0.00	0.00

Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well HUNT 8-60 6C-5-6
Company:	BISON OIL & GAS II, LLC	TVD Reference:	KB-EST @ 4987.20usft (Original Well Elev)
Project:	WELD COUNTY, COLORADO (NAD 83)	MD Reference:	KB-EST @ 4987.20usft (Original Well Elev)
Site:	SW SW SEC. 6 T8N R60W 6th P.M.	North Reference:	True
Well:	HUNT 8-60 6C-5-6	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #2		

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)
7,700.00	90.00	89.38	6,442.20	-1,455.00	143.79	806.84	810.14	0.00	0.00	0.00
7,800.00	90.00	89.38	6,442.20	-1,455.00	144.88	906.83	910.13	0.00	0.00	0.00
7,900.00	90.00	89.38	6,442.20	-1,455.00	145.96	1,006.83	1,010.12	0.00	0.00	0.00
8,000.00	90.00	89.38	6,442.20	-1,455.00	147.05	1,106.82	1,110.11	0.00	0.00	0.00
8,100.00	90.00	89.38	6,442.20	-1,455.00	148.13	1,206.81	1,210.10	0.00	0.00	0.00
8,200.00	90.00	89.38	6,442.20	-1,455.00	149.21	1,306.81	1,310.10	0.00	0.00	0.00
8,300.00	90.00	89.38	6,442.20	-1,455.00	150.30	1,406.80	1,410.09	0.00	0.00	0.00
8,400.00	90.00	89.38	6,442.20	-1,455.00	151.38	1,506.80	1,510.08	0.00	0.00	0.00
8,500.00	90.00	89.38	6,442.20	-1,455.00	152.47	1,606.79	1,610.07	0.00	0.00	0.00
8,600.00	90.00	89.38	6,442.20	-1,455.00	153.55	1,706.78	1,710.06	0.00	0.00	0.00
8,700.00	90.00	89.38	6,442.20	-1,455.00	154.63	1,806.78	1,810.05	0.00	0.00	0.00
8,800.00	90.00	89.38	6,442.20	-1,455.00	155.72	1,906.77	1,910.04	0.00	0.00	0.00
8,900.00	90.00	89.38	6,442.20	-1,455.00	156.80	2,006.77	2,010.03	0.00	0.00	0.00
9,000.00	90.00	89.38	6,442.20	-1,455.00	157.89	2,106.76	2,110.02	0.00	0.00	0.00
9,100.00	90.00	89.38	6,442.20	-1,455.00	158.97	2,206.76	2,210.01	0.00	0.00	0.00
9,200.00	90.00	89.38	6,442.20	-1,455.00	160.05	2,306.75	2,310.00	0.00	0.00	0.00
9,300.00	90.00	89.38	6,442.20	-1,455.00	161.14	2,406.74	2,409.99	0.00	0.00	0.00
9,400.00	90.00	89.38	6,442.20	-1,455.00	162.22	2,506.74	2,509.98	0.00	0.00	0.00
9,500.00	90.00	89.38	6,442.20	-1,455.00	163.31	2,606.73	2,609.97	0.00	0.00	0.00
9,600.00	90.00	89.38	6,442.20	-1,455.00	164.39	2,706.73	2,709.96	0.00	0.00	0.00
9,700.00	90.00	89.38	6,442.20	-1,455.00	165.48	2,806.72	2,809.95	0.00	0.00	0.00
9,800.00	90.00	89.38	6,442.20	-1,455.00	166.56	2,906.71	2,909.94	0.00	0.00	0.00
9,900.00	90.00	89.38	6,442.20	-1,455.00	167.65	3,006.71	3,009.93	0.00	0.00	0.00
10,000.00	90.00	89.38	6,442.20	-1,455.00	168.73	3,106.70	3,109.92	0.00	0.00	0.00
10,100.00	90.00	89.38	6,442.20	-1,455.00	169.81	3,206.70	3,209.91	0.00	0.00	0.00
10,200.00	90.00	89.38	6,442.20	-1,455.00	170.90	3,306.69	3,309.90	0.00	0.00	0.00
10,300.00	90.00	89.38	6,442.20	-1,455.00	171.98	3,406.68	3,409.89	0.00	0.00	0.00
10,400.00	90.00	89.38	6,442.20	-1,455.00	173.07	3,506.68	3,509.88	0.00	0.00	0.00
10,500.00	90.00	89.38	6,442.20	-1,455.00	174.15	3,606.67	3,609.87	0.00	0.00	0.00
10,600.00	90.00	89.38	6,442.20	-1,455.00	175.24	3,706.67	3,709.86	0.00	0.00	0.00
10,700.00	90.00	89.38	6,442.20	-1,455.00	176.32	3,806.66	3,809.86	0.00	0.00	0.00
10,800.00	90.00	89.38	6,442.20	-1,455.00	177.41	3,906.66	3,909.85	0.00	0.00	0.00
10,900.00	90.00	89.38	6,442.20	-1,455.00	178.49	4,006.65	4,009.84	0.00	0.00	0.00
11,000.00	90.00	89.38	6,442.20	-1,455.00	179.58	4,106.64	4,109.83	0.00	0.00	0.00
11,100.00	90.00	89.38	6,442.20	-1,455.00	180.66	4,206.64	4,209.82	0.00	0.00	0.00
11,200.00	90.00	89.38	6,442.20	-1,455.00	181.75	4,306.63	4,309.81	0.00	0.00	0.00
11,300.00	90.00	89.38	6,442.20	-1,455.00	182.83	4,406.63	4,409.80	0.00	0.00	0.00
11,400.00	90.00	89.38	6,442.20	-1,455.00	183.92	4,506.62	4,509.79	0.00	0.00	0.00
11,500.00	90.00	89.38	6,442.20	-1,455.00	185.00	4,606.61	4,609.78	0.00	0.00	0.00
11,600.00	90.00	89.38	6,442.20	-1,455.00	186.09	4,706.61	4,709.77	0.00	0.00	0.00
11,700.00	90.00	89.38	6,442.20	-1,455.00	187.17	4,806.60	4,809.76	0.00	0.00	0.00
11,800.00	90.00	89.38	6,442.20	-1,455.00	188.26	4,906.60	4,909.75	0.00	0.00	0.00
11,900.00	90.00	89.38	6,442.20	-1,455.00	189.34	5,006.59	5,009.74	0.00	0.00	0.00
12,000.00	90.00	89.38	6,442.20	-1,455.00	190.43	5,106.58	5,109.73	0.00	0.00	0.00
12,100.00	90.00	89.38	6,442.20	-1,455.00	191.52	5,206.58	5,209.72	0.00	0.00	0.00
12,200.00	90.00	89.38	6,442.20	-1,455.00	192.60	5,306.57	5,309.71	0.00	0.00	0.00
12,300.00	90.00	89.38	6,442.20	-1,455.00	193.69	5,406.57	5,409.70	0.00	0.00	0.00
12,400.00	90.00	89.38	6,442.20	-1,455.00	194.77	5,506.56	5,509.69	0.00	0.00	0.00
12,500.00	90.00	89.38	6,442.20	-1,455.00	195.86	5,606.56	5,609.68	0.00	0.00	0.00
12,600.00	90.00	89.38	6,442.20	-1,455.00	196.94	5,706.55	5,709.67	0.00	0.00	0.00
12,700.00	90.00	89.38	6,442.20	-1,455.00	198.03	5,806.54	5,809.66	0.00	0.00	0.00
12,800.00	90.00	89.38	6,442.20	-1,455.00	199.11	5,906.54	5,909.65	0.00	0.00	0.00
12,900.00	90.00	89.38	6,442.20	-1,455.00	200.20	6,006.53	6,009.64	0.00	0.00	0.00
13,000.00	90.00	89.38	6,442.20	-1,455.00	201.29	6,106.53	6,109.63	0.00	0.00	0.00

Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well HUNT 8-60 6C-5-6
Company:	BISON OIL & GAS II, LLC	TVD Reference:	KB-EST @ 4987.20usft (Original Well Elev)
Project:	WELD COUNTY, COLORADO (NAD 83)	MD Reference:	KB-EST @ 4987.20usft (Original Well Elev)
Site:	SW SW SEC. 6 T8N R60W 6th P.M.	North Reference:	True
Well:	HUNT 8-60 6C-5-6	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #2		

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)
13,100.00	90.00	89.38	6,442.20	-1,455.00	202.37	6,206.52	6,209.62	0.00	0.00	0.00
13,200.00	90.00	89.38	6,442.20	-1,455.00	203.46	6,306.51	6,309.62	0.00	0.00	0.00
13,300.00	90.00	89.38	6,442.20	-1,455.00	204.54	6,406.51	6,409.61	0.00	0.00	0.00
13,400.00	90.00	89.38	6,442.20	-1,455.00	205.63	6,506.50	6,509.60	0.00	0.00	0.00
13,500.00	90.00	89.38	6,442.20	-1,455.00	206.71	6,606.50	6,609.59	0.00	0.00	0.00
13,600.00	90.00	89.38	6,442.20	-1,455.00	207.80	6,706.49	6,709.58	0.00	0.00	0.00
13,700.00	90.00	89.38	6,442.20	-1,455.00	208.89	6,806.48	6,809.57	0.00	0.00	0.00
13,800.00	90.00	89.38	6,442.20	-1,455.00	209.97	6,906.48	6,909.56	0.00	0.00	0.00
13,900.00	90.00	89.38	6,442.20	-1,455.00	211.06	7,006.47	7,009.55	0.00	0.00	0.00
14,000.00	90.00	89.38	6,442.20	-1,455.00	212.15	7,106.47	7,109.54	0.00	0.00	0.00
14,100.00	90.00	89.38	6,442.20	-1,455.00	213.23	7,206.46	7,209.53	0.00	0.00	0.00
14,200.00	90.00	89.38	6,442.20	-1,455.00	214.32	7,306.46	7,309.52	0.00	0.00	0.00
14,300.00	90.00	89.38	6,442.20	-1,455.00	215.40	7,406.45	7,409.51	0.00	0.00	0.00
14,400.00	90.00	89.38	6,442.20	-1,455.00	216.49	7,506.44	7,509.50	0.00	0.00	0.00
14,500.00	90.00	89.38	6,442.20	-1,455.00	217.58	7,606.44	7,609.49	0.00	0.00	0.00
14,600.00	90.00	89.38	6,442.20	-1,455.00	218.66	7,706.43	7,709.48	0.00	0.00	0.00
14,700.00	90.00	89.38	6,442.20	-1,455.00	219.75	7,806.43	7,809.47	0.00	0.00	0.00
14,800.00	90.00	89.38	6,442.20	-1,455.00	220.84	7,906.42	7,909.46	0.00	0.00	0.00
14,900.00	90.00	89.38	6,442.20	-1,455.00	221.92	8,006.41	8,009.45	0.00	0.00	0.00
15,000.00	90.00	89.38	6,442.20	-1,455.00	223.01	8,106.41	8,109.44	0.00	0.00	0.00
15,100.00	90.00	89.38	6,442.20	-1,455.00	224.09	8,206.40	8,209.43	0.00	0.00	0.00
15,200.00	90.00	89.38	6,442.20	-1,455.00	225.18	8,306.40	8,309.42	0.00	0.00	0.00
15,300.00	90.00	89.38	6,442.20	-1,455.00	226.27	8,406.39	8,409.41	0.00	0.00	0.00
15,400.00	90.00	89.38	6,442.20	-1,455.00	227.35	8,506.38	8,509.40	0.00	0.00	0.00
15,500.00	90.00	89.38	6,442.20	-1,455.00	228.44	8,606.38	8,609.40	0.00	0.00	0.00
15,600.00	90.00	89.38	6,442.20	-1,455.00	229.53	8,706.37	8,709.39	0.00	0.00	0.00
15,700.00	90.00	89.38	6,442.20	-1,455.00	230.61	8,806.37	8,809.38	0.00	0.00	0.00
15,800.00	90.00	89.38	6,442.20	-1,455.00	231.70	8,906.36	8,909.37	0.00	0.00	0.00
15,900.00	90.00	89.38	6,442.20	-1,455.00	232.79	9,006.35	9,009.36	0.00	0.00	0.00
16,000.00	90.00	89.38	6,442.20	-1,455.00	233.88	9,106.35	9,109.35	0.00	0.00	0.00
16,100.00	90.00	89.38	6,442.20	-1,455.00	234.96	9,206.34	9,209.34	0.00	0.00	0.00
16,200.00	90.00	89.38	6,442.20	-1,455.00	236.05	9,306.34	9,309.33	0.00	0.00	0.00
16,300.00	90.00	89.38	6,442.20	-1,455.00	237.14	9,406.33	9,409.32	0.00	0.00	0.00
16,400.00	90.00	89.38	6,442.20	-1,455.00	238.22	9,506.33	9,509.31	0.00	0.00	0.00
16,500.00	90.00	89.38	6,442.20	-1,455.00	239.31	9,606.32	9,609.30	0.00	0.00	0.00
EPI: 1494ft FSL & 300ft FEL of Sec 5										
16,545.89	90.00	89.38	6,442.20	-1,455.00	239.81	9,652.21	9,655.19	0.00	0.00	0.00
16,600.00	90.00	89.35	6,442.20	-1,455.00	240.41	9,706.31	9,709.29	0.05	0.00	-0.05
BHL: 1494ft FSL & 200ft FEL of Sec 5										
16,646.01	90.00	89.33	6,442.20	-1,455.00	240.94	9,752.32	9,755.29	0.05	0.00	-0.05

Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well HUNT 8-60 6C-5-6
Company:	BISON OIL & GAS II, LLC	TVD Reference:	KB-EST @ 4987.20usft (Original Well Elev)
Project:	WELD COUNTY, COLORADO (NAD 83)	MD Reference:	KB-EST @ 4987.20usft (Original Well Elev)
Site:	SW SW SEC. 6 T8N R60W 6th P.M.	North Reference:	True
Well:	HUNT 8-60 6C-5-6	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #2		

Formations					
MD (usft)	TVD (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
567.20	567.20	PIERRE SHALE (BASE OF FOX HI			
3,627.63	3,570.20	PARKMAN			
4,158.64	4,095.20	SUSSEX			
5,256.71	5,193.20	SHANNON			
6,313.01	6,222.20	SHARON SPRINGS SHALE			
6,408.53	6,292.20	NIOBRARA FORMATION			
6,423.57	6,302.20	NIOBRARA A CHALK			
6,646.52	6,412.20	NIOBRARA B CHALK			

Plan Annotations				
MD (usft)	TVD (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
0.00	0.00	0.00	0.00	SHL: 1297ft FSL & 660ft FWL of Sec 6
600.00	600.00	0.00	0.00	START NUDGE (2°/100ft BUR)
1,200.00	1,195.62	12.42	-61.36	EOB TO 12° INC
3,705.53	3,646.40	115.77	-571.93	END OF TANGENT
4,305.53	4,242.02	128.19	-633.29	EOD TO VERTICAL
5,932.75	5,869.24	128.19	-633.29	KOP (10°/100ft BUR)
6,519.40	6,358.63	131.17	-358.31	BPI: 1430ft FSL & 300ft FWL of Sec 6
6,832.75	6,442.20	134.40	-60.36	HZ LANDING POINT
16,545.89	6,442.20	239.81	9,652.21	EPI: 1494ft FSL & 300ft FEL of Sec 5
16,646.01	6,442.20	240.94	9,752.32	BHL: 1494ft FSL & 200ft FEL of Sec 5