

Bison Oil & Gas II, LLC

WELD COUNTY, COLORADO (NAD 83)

HUNT 8-60 17B

HUNT FED 8-60 17B-20-3

Wellbore #1

Plan: Design #1

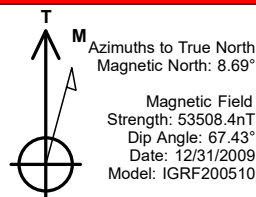
Standard Survey Report

05 May, 2020





Project: WELD COUNTY, COLORADO (NAD 83)
Site: HUNT 8-60 17B
Well: HUNT FED 8-60 17B-20-3
Wellbore: Wellbore #1
Design: Design #1



ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Dep	Annotation
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	Start Build 1.50
1395.58	8.93	114.06	1393.17	-18.89	42.31	21.66	46.34	Start 4147.99 hold at 1395.58 MD
5543.56	8.93	114.06	5490.83	-281.55	630.47	322.81	690.48	Start Drop -1.50
6139.14	0.00	0.00	6084.00	-300.44	672.78	344.47	736.82	Start 100.00 hold at 6139.14 MD
6239.14	0.00	0.00	6184.00	-300.44	672.78	344.47	736.82	Start Build 20.88
6670.12	90.00	180.00	6458.37	-574.81	672.78	618.24	1011.19	Start DLS 0.03 TFO 89.84
14011.47	90.01	182.11	6458.00	-7914.49	537.28	7932.70	8352.53	Start 100.00 hold at 14011.47 MD
14111.47	90.01	182.12	6457.99	-8014.42	533.59	8032.16	8452.53	TD at 14111.47

PROPOSED LOCAL COORDINATES:

SHL: 2364 ft FNL & 2419 ft FEL Sec 17

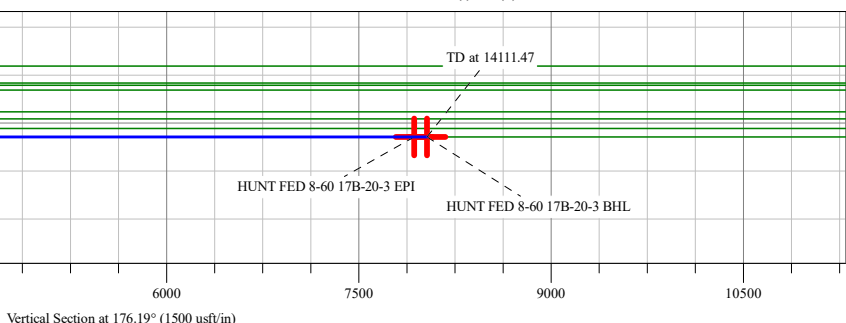
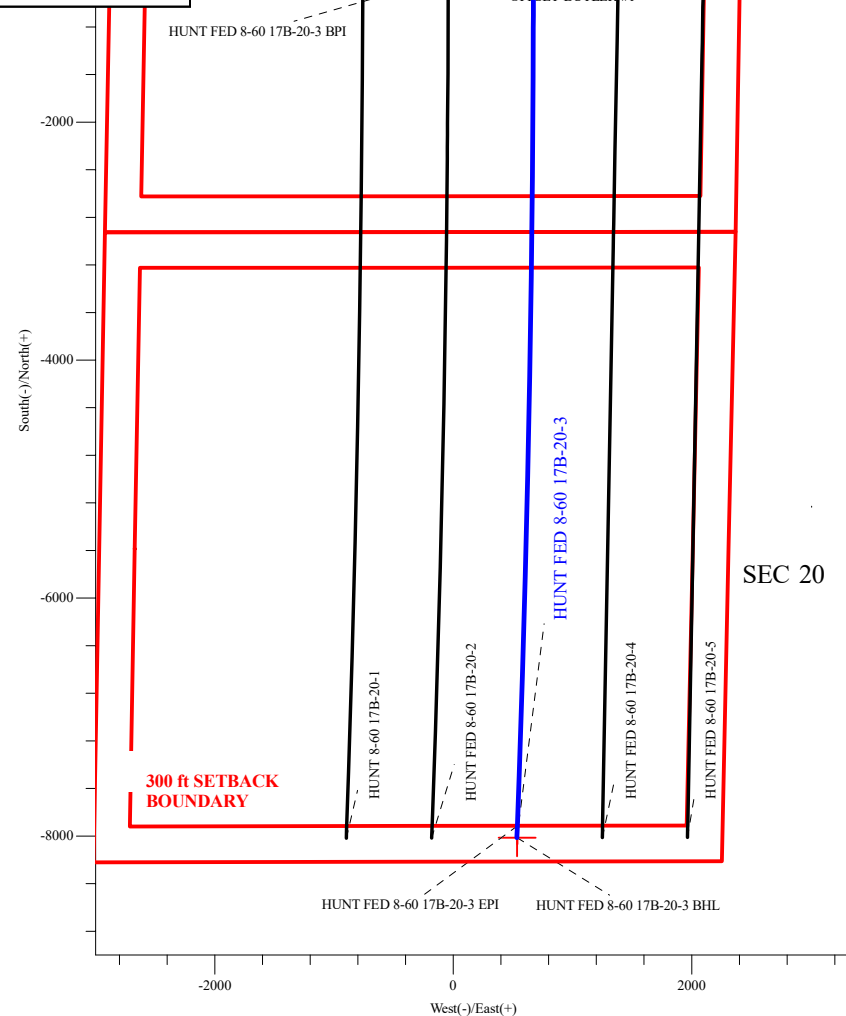
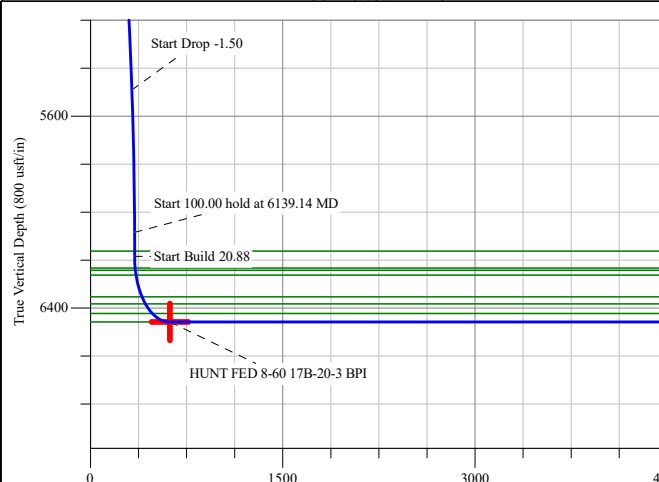
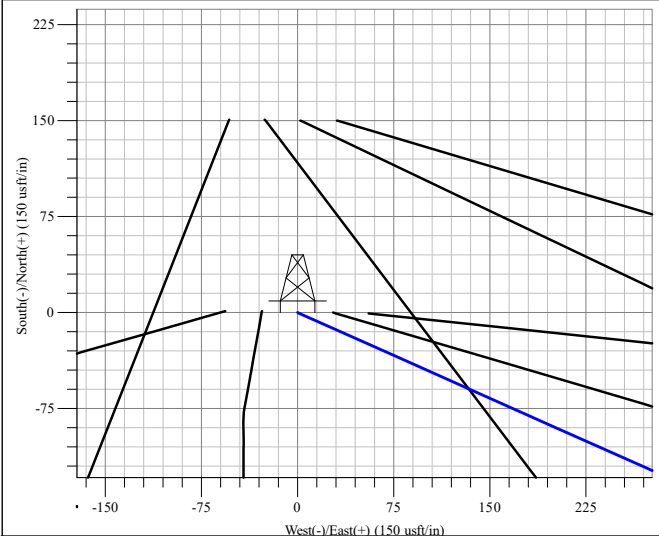
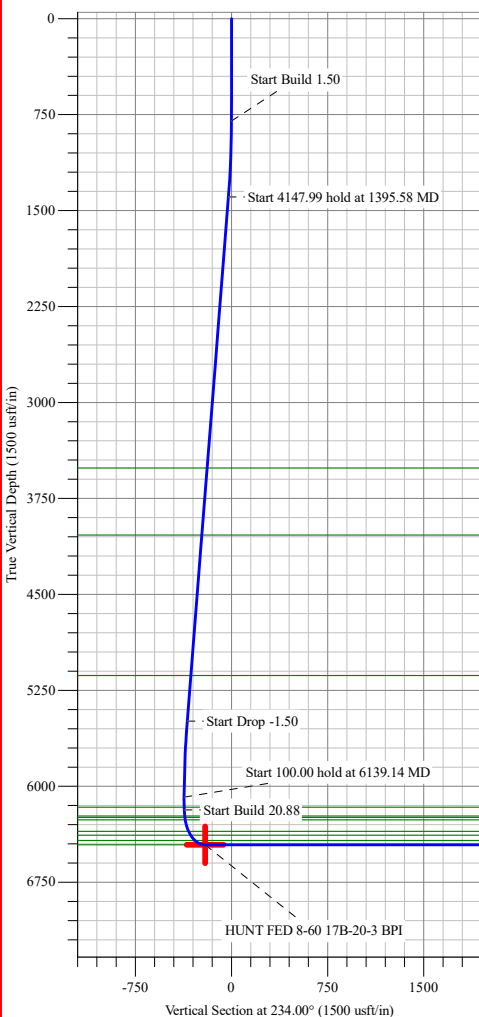
BPI: 2346 ft FSL & 1736 ft FEL Sec 17

EPI: 300 ft FSL & 1722 ft FEL Sec 20

BHL: 200 ft FSL & 1722 ft FEL Sec 20

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
HUNT FED 8-60 17B-20-3 BPI	6458.00	-577.44	672.78	1486834.87	3385058.63	40° 39' 41.342 N 104° 6' 43.290 W	
HUNT FED 8-60 17B-20-3 EPI	6458.00	-7914.49	537.28	1479496.59	3385037.77	40° 38' 28.842 N 104° 6' 45.050 W	
HUNT FED 8-60 17B-20-3 BHL	6458.00	-8014.31	533.34	1479396.75	3385037.39	40° 38' 27.856 N 104° 6' 45.076 W	Point



Survey Report



Company:	Bison Oil & Gas II, LLC	Local Co-ordinate Reference:	Well HUNT FED 8-60 17B-20-3
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	GL @ 4938.50usft
Site:	HUNT 8-60 17B	MD Reference:	GL @ 4938.50usft
Well:	HUNT FED 8-60 17B-20-3	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #1	Database:	EDM

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		

Site	HUNT 8-60 17B		
Site Position:		Northing:	1,488,068.40 usft
From:	Lat/Long	Easting:	3,416,121.97 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	40° 39' 48.532 N
		Longitude:	104° 0' 0.000 W
		Grid Convergence:	0.97 °

Well	HUNT FED 8-60 17B-20-3		
Well Position	+N/-S	0.00 usft	Northing: 1,487,401.72 usft
	+E/-W	0.00 usft	Easting: 3,384,376.90 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
		Latitude:	40° 39' 47.048 N
		Longitude:	104° 6' 52.020 W
		Ground Level:	4,938.50 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	8.69	67.43	53,508.39533320

Design	Design #1				
Audit Notes:					
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	176.19	

Survey Tool Program	Date 5/5/2020				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	14,111.47	Design #1 (Wellbore #1)	MWD	Fixed:v2:standard declination	

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 1.50									
900.00	1.50	114.06	899.99	-0.53	1.20	0.61	1.50	1.50	0.00

Survey Report



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Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	GL @ 4938.50usft
Site:	HUNT 8-60 17B	MD Reference:	GL @ 4938.50usft
Well:	HUNT FED 8-60 17B-20-3	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #1	Database:	EDM

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,000.00	3.00	114.06	999.91	-2.13	4.78	2.45	1.50	1.50	0.00
1,100.00	4.50	114.06	1,099.69	-4.80	10.75	5.50	1.50	1.50	0.00
1,200.00	6.00	114.06	1,199.27	-8.53	19.11	9.78	1.50	1.50	0.00
1,300.00	7.50	114.06	1,298.57	-13.32	29.84	15.28	1.50	1.50	0.00
1,395.58	8.93	114.06	1,393.17	-18.89	42.31	21.66	1.50	1.50	0.00
Start 4147.99 hold at 1395.58 MD									
1,400.00	8.93	114.06	1,397.54	-19.17	42.94	21.98	0.00	0.00	0.00
1,500.00	8.93	114.06	1,496.32	-25.51	57.12	29.24	0.00	0.00	0.00
1,600.00	8.93	114.06	1,595.11	-31.84	71.30	36.50	0.00	0.00	0.00
1,700.00	8.93	114.06	1,693.90	-38.17	85.48	43.76	0.00	0.00	0.00
1,800.00	8.93	114.06	1,792.68	-44.50	99.66	51.02	0.00	0.00	0.00
1,900.00	8.93	114.06	1,891.47	-50.83	113.83	58.28	0.00	0.00	0.00
2,000.00	8.93	114.06	1,990.26	-57.17	128.01	65.54	0.00	0.00	0.00
2,100.00	8.93	114.06	2,089.04	-63.50	142.19	72.80	0.00	0.00	0.00
2,200.00	8.93	114.06	2,187.83	-69.83	156.37	80.06	0.00	0.00	0.00
2,300.00	8.93	114.06	2,286.62	-76.16	170.55	87.32	0.00	0.00	0.00
2,400.00	8.93	114.06	2,385.40	-82.49	184.73	94.58	0.00	0.00	0.00
2,500.00	8.93	114.06	2,484.19	-88.83	198.91	101.84	0.00	0.00	0.00
2,600.00	8.93	114.06	2,582.98	-95.16	213.09	109.10	0.00	0.00	0.00
2,700.00	8.93	114.06	2,681.77	-101.49	227.27	116.36	0.00	0.00	0.00
2,800.00	8.93	114.06	2,780.55	-107.82	241.45	123.62	0.00	0.00	0.00
2,900.00	8.93	114.06	2,879.34	-114.15	255.63	130.88	0.00	0.00	0.00
3,000.00	8.93	114.06	2,978.13	-120.49	269.81	138.14	0.00	0.00	0.00
3,100.00	8.93	114.06	3,076.91	-126.82	283.99	145.40	0.00	0.00	0.00
3,200.00	8.93	114.06	3,175.70	-133.15	298.17	152.66	0.00	0.00	0.00
3,300.00	8.93	114.06	3,274.49	-139.48	312.35	159.92	0.00	0.00	0.00
3,400.00	8.93	114.06	3,373.27	-145.81	326.53	167.18	0.00	0.00	0.00
3,500.00	8.93	114.06	3,472.06	-152.15	340.71	174.44	0.00	0.00	0.00
3,539.42	8.93	114.06	3,511.00	-154.64	346.30	177.31	0.00	0.00	0.00
Parkman									
3,600.00	8.93	114.06	3,570.85	-158.48	354.89	181.70	0.00	0.00	0.00
3,700.00	8.93	114.06	3,669.63	-164.81	369.06	188.96	0.00	0.00	0.00
3,800.00	8.93	114.06	3,768.42	-171.14	383.24	196.22	0.00	0.00	0.00
3,900.00	8.93	114.06	3,867.21	-177.47	397.42	203.48	0.00	0.00	0.00
4,000.00	8.93	114.06	3,966.00	-183.81	411.60	210.74	0.00	0.00	0.00
4,070.86	8.93	114.06	4,036.00	-188.29	421.65	215.89	0.00	0.00	0.00
Sussex									
4,100.00	8.93	114.06	4,064.78	-190.14	425.78	218.00	0.00	0.00	0.00
4,200.00	8.93	114.06	4,163.57	-196.47	439.96	225.26	0.00	0.00	0.00
4,300.00	8.93	114.06	4,262.36	-202.80	454.14	232.52	0.00	0.00	0.00
4,400.00	8.93	114.06	4,361.14	-209.13	468.32	239.78	0.00	0.00	0.00
4,500.00	8.93	114.06	4,459.93	-215.47	482.50	247.04	0.00	0.00	0.00
4,600.00	8.93	114.06	4,558.72	-221.80	496.68	254.30	0.00	0.00	0.00

Survey Report



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Site:	HUNT 8-60 17B	MD Reference:	GL @ 4938.50usft
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Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #1	Database:	EDM

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,700.00	8.93	114.06	4,657.50	-228.13	510.86	261.56	0.00	0.00	0.00
4,800.00	8.93	114.06	4,756.29	-234.46	525.04	268.82	0.00	0.00	0.00
4,900.00	8.93	114.06	4,855.08	-240.80	539.22	276.08	0.00	0.00	0.00
5,000.00	8.93	114.06	4,953.86	-247.13	553.40	283.34	0.00	0.00	0.00
5,100.00	8.93	114.06	5,052.65	-253.46	567.58	290.60	0.00	0.00	0.00
5,182.35	8.93	114.06	5,134.00	-258.67	579.25	296.58	0.00	0.00	0.00
Shannon									
5,200.00	8.93	114.06	5,151.44	-259.79	581.76	297.86	0.00	0.00	0.00
5,300.00	8.93	114.06	5,250.22	-266.12	595.94	305.12	0.00	0.00	0.00
5,400.00	8.93	114.06	5,349.01	-272.46	610.12	312.38	0.00	0.00	0.00
5,500.00	8.93	114.06	5,447.80	-278.79	624.29	319.64	0.00	0.00	0.00
5,543.56	8.93	114.06	5,490.83	-281.55	630.47	322.81	0.00	0.00	0.00
Start Drop -1.50									
5,600.00	8.09	114.06	5,546.65	-284.95	638.10	326.71	1.50	-1.50	0.00
5,700.00	6.59	114.06	5,645.83	-290.16	649.76	332.68	1.50	-1.50	0.00
5,800.00	5.09	114.06	5,745.31	-294.31	659.04	337.44	1.50	-1.50	0.00
5,900.00	3.59	114.06	5,845.02	-297.39	665.95	340.97	1.50	-1.50	0.00
6,000.00	2.09	114.06	5,944.89	-299.41	670.47	343.29	1.50	-1.50	0.00
6,100.00	0.59	114.06	6,044.86	-300.36	672.60	344.38	1.50	-1.50	0.00
6,139.14	0.00	0.00	6,084.00	-300.44	672.78	344.47	1.50	-1.50	-291.42
Start 100.00 hold at 6139.14 MD									
6,200.00	0.00	0.00	6,144.86	-300.44	672.78	344.47	0.00	0.00	0.00
6,218.14	0.00	0.00	6,163.00	-300.44	672.78	344.47	0.00	0.00	0.00
Sharon Springs Shale									
6,239.14	0.00	0.00	6,184.00	-300.44	672.78	344.47	0.00	0.00	0.00
Start Build 20.88									
6,250.00	2.27	180.00	6,194.86	-300.65	672.78	344.68	20.88	20.88	0.00
6,275.00	7.49	180.00	6,219.76	-302.78	672.78	346.80	20.88	20.88	0.00
6,288.40	10.29	180.00	6,233.00	-304.85	672.78	348.87	20.88	20.88	0.00
Niobrara Formation									
6,298.60	12.42	180.00	6,243.00	-306.86	672.78	350.87	20.88	20.88	0.00
Niobrara A Chalk									
6,300.00	12.71	180.00	6,244.36	-307.16	672.78	351.18	20.88	20.88	0.00
6,319.27	16.73	180.00	6,263.00	-312.06	672.78	356.06	20.88	20.88	0.00
Niobrara A Landing Point									
6,325.00	17.93	180.00	6,268.47	-313.76	672.78	357.77	20.88	20.88	0.00
6,350.00	23.15	180.00	6,291.87	-322.53	672.78	366.51	20.88	20.88	0.00
6,375.00	28.37	180.00	6,314.38	-333.39	672.78	377.35	20.88	20.88	0.00
6,400.00	33.59	180.00	6,335.80	-346.26	672.78	390.19	20.88	20.88	0.00
6,421.21	38.02	180.00	6,353.00	-358.67	672.78	402.57	20.88	20.88	0.00
Niobrara B Chalk									
6,425.00	38.81	180.00	6,355.97	-361.02	672.78	404.92	20.88	20.88	0.00
6,450.00	44.03	180.00	6,374.71	-377.55	672.78	421.41	20.88	20.88	0.00
6,461.78	46.49	180.00	6,383.00	-385.92	672.78	429.76	20.88	20.88	0.00
Niobrara B Landing Point									

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Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #1	Database:	EDM

Planned Survey

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6,475.00	49.25	180.00	6,391.87	-395.73	672.78	439.54	20.88	20.88	0.00
6,500.00	54.47	180.00	6,407.30	-415.38	672.78	459.16	20.88	20.88	0.00
6,525.00	59.69	180.00	6,420.88	-436.36	672.78	480.09	20.88	20.88	0.00
6,529.26	60.58	180.00	6,423.00	-440.06	672.78	483.78	20.88	20.88	0.00
Niobrara C Chalk									
6,550.00	64.92	180.00	6,432.49	-458.49	672.78	502.17	20.88	20.88	0.00
6,575.00	70.14	180.00	6,442.05	-481.58	672.78	525.21	20.88	20.88	0.00
6,600.00	75.36	180.00	6,449.46	-505.45	672.78	549.03	20.88	20.88	0.00
6,625.00	80.58	180.00	6,454.67	-529.89	672.78	573.41	20.88	20.88	0.00
6,650.00	85.80	180.00	6,457.64	-554.71	672.78	598.18	20.88	20.88	0.00
6,655.82	87.01	180.00	6,458.00	-560.52	672.78	603.97	20.88	20.88	0.00
Niobrara C Landing Point									
6,670.12	90.00	180.00	6,458.37	-574.81	672.78	618.24	20.88	20.88	0.00
Start DLS 0.03 TFO 89.84									
6,672.75	90.00	180.00	6,458.37	-577.44	672.78	620.85	0.00	0.00	0.00
HUNT FED 8-60 17B-20-3 BPI									
6,700.00	90.00	180.01	6,458.37	-604.69	672.78	648.05	0.03	0.00	0.03
6,800.00	90.00	180.04	6,458.37	-704.69	672.74	747.82	0.03	0.00	0.03
6,900.00	90.00	180.07	6,458.37	-804.69	672.65	847.60	0.03	0.00	0.03
7,000.00	90.00	180.10	6,458.37	-904.69	672.51	947.37	0.03	0.00	0.03
7,100.00	90.00	180.12	6,458.37	-1,004.69	672.32	1,047.13	0.03	0.00	0.03
7,200.00	90.00	180.15	6,458.37	-1,104.69	672.08	1,146.89	0.03	0.00	0.03
7,300.00	90.00	180.18	6,458.37	-1,204.69	671.78	1,246.65	0.03	0.00	0.03
7,400.00	90.00	180.21	6,458.37	-1,304.69	671.44	1,346.41	0.03	0.00	0.03
7,500.00	90.00	180.24	6,458.37	-1,404.69	671.05	1,446.16	0.03	0.00	0.03
7,600.00	90.00	180.27	6,458.37	-1,504.69	670.61	1,545.91	0.03	0.00	0.03
7,700.00	90.00	180.30	6,458.37	-1,604.68	670.12	1,645.66	0.03	0.00	0.03
7,800.00	90.00	180.33	6,458.36	-1,704.68	669.57	1,745.40	0.03	0.00	0.03
7,900.00	90.00	180.35	6,458.36	-1,804.68	668.98	1,845.14	0.03	0.00	0.03
8,000.00	90.00	180.38	6,458.36	-1,904.68	668.34	1,944.87	0.03	0.00	0.03
8,100.00	90.00	180.41	6,458.36	-2,004.68	667.64	2,044.60	0.03	0.00	0.03
8,200.00	90.00	180.44	6,458.36	-2,104.67	666.90	2,144.33	0.03	0.00	0.03
8,300.00	90.00	180.47	6,458.35	-2,204.67	666.10	2,244.05	0.03	0.00	0.03
8,400.00	90.00	180.50	6,458.35	-2,304.67	665.26	2,343.77	0.03	0.00	0.03
8,500.00	90.00	180.53	6,458.35	-2,404.66	664.36	2,443.49	0.03	0.00	0.03
8,600.00	90.00	180.56	6,458.35	-2,504.66	663.42	2,543.20	0.03	0.00	0.03
8,700.00	90.00	180.58	6,458.34	-2,604.65	662.42	2,642.91	0.03	0.00	0.03
8,800.00	90.00	180.61	6,458.34	-2,704.65	661.38	2,742.61	0.03	0.00	0.03
8,900.00	90.00	180.64	6,458.34	-2,804.64	660.28	2,842.31	0.03	0.00	0.03
9,000.00	90.00	180.67	6,458.34	-2,904.64	659.13	2,942.01	0.03	0.00	0.03
9,100.00	90.00	180.70	6,458.33	-3,004.63	657.94	3,041.70	0.03	0.00	0.03
9,200.00	90.00	180.73	6,458.33	-3,104.62	656.69	3,141.39	0.03	0.00	0.03
9,300.00	90.00	180.76	6,458.33	-3,204.61	655.39	3,241.07	0.03	0.00	0.03
9,400.00	90.00	180.79	6,458.32	-3,304.60	654.04	3,340.75	0.03	0.00	0.03

Survey Report



Company:	Bison Oil & Gas II, LLC	Local Co-ordinate Reference:	Well HUNT FED 8-60 17B-20-3
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	GL @ 4938.50usft
Site:	HUNT 8-60 17B	MD Reference:	GL @ 4938.50usft
Well:	HUNT FED 8-60 17B-20-3	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #1	Database:	EDM

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,500.00	90.00	180.82	6,458.32	-3,404.59	652.65	3,440.43	0.03	0.00	0.03
9,600.00	90.00	180.84	6,458.31	-3,504.58	651.20	3,540.10	0.03	0.00	0.03
9,700.00	90.00	180.87	6,458.31	-3,604.57	649.70	3,639.77	0.03	0.00	0.03
9,800.00	90.00	180.90	6,458.31	-3,704.56	648.15	3,739.43	0.03	0.00	0.03
9,900.00	90.00	180.93	6,458.30	-3,804.55	646.55	3,839.09	0.03	0.00	0.03
10,000.00	90.00	180.96	6,458.30	-3,904.53	644.90	3,938.75	0.03	0.00	0.03
10,100.00	90.00	180.99	6,458.29	-4,004.52	643.20	4,038.40	0.03	0.00	0.03
10,200.00	90.00	181.02	6,458.29	-4,104.50	641.45	4,138.05	0.03	0.00	0.03
10,300.00	90.00	181.05	6,458.28	-4,204.49	639.65	4,237.69	0.03	0.00	0.03
10,400.00	90.00	181.07	6,458.28	-4,304.47	637.80	4,337.33	0.03	0.00	0.03
10,500.00	90.00	181.10	6,458.27	-4,404.45	635.90	4,436.97	0.03	0.00	0.03
10,600.00	90.00	181.13	6,458.27	-4,504.43	633.95	4,536.60	0.03	0.00	0.03
10,700.00	90.00	181.16	6,458.26	-4,604.41	631.95	4,636.22	0.03	0.00	0.03
10,800.00	90.00	181.19	6,458.25	-4,704.39	629.90	4,735.84	0.03	0.00	0.03
10,900.00	90.00	181.22	6,458.25	-4,804.37	627.79	4,835.46	0.03	0.00	0.03
11,000.00	90.00	181.25	6,458.24	-4,904.35	625.64	4,935.08	0.03	0.00	0.03
11,100.00	90.00	181.28	6,458.24	-5,004.32	623.44	5,034.68	0.03	0.00	0.03
11,200.00	90.00	181.31	6,458.23	-5,104.30	621.19	5,134.29	0.03	0.00	0.03
11,300.00	90.00	181.33	6,458.22	-5,204.27	618.88	5,233.89	0.03	0.00	0.03
11,400.00	90.00	181.36	6,458.22	-5,304.24	616.53	5,333.48	0.03	0.00	0.03
11,500.00	90.00	181.39	6,458.21	-5,404.21	614.13	5,433.07	0.03	0.00	0.03
11,600.00	90.00	181.42	6,458.20	-5,504.18	611.67	5,532.66	0.03	0.00	0.03
11,700.00	90.00	181.45	6,458.20	-5,604.15	609.17	5,632.24	0.03	0.00	0.03
11,800.00	90.00	181.48	6,458.19	-5,704.12	606.61	5,731.82	0.03	0.00	0.03
11,900.00	90.00	181.51	6,458.18	-5,804.09	604.01	5,831.39	0.03	0.00	0.03
12,000.00	90.00	181.54	6,458.18	-5,904.05	601.36	5,930.96	0.03	0.00	0.03
12,100.00	90.00	181.56	6,458.17	-6,004.01	598.65	6,030.52	0.03	0.00	0.03
12,200.00	90.00	181.59	6,458.16	-6,103.98	595.89	6,130.08	0.03	0.00	0.03
12,300.00	90.00	181.62	6,458.15	-6,203.94	593.09	6,229.63	0.03	0.00	0.03
12,400.00	90.00	181.65	6,458.15	-6,303.90	590.23	6,329.18	0.03	0.00	0.03
12,500.00	90.00	181.68	6,458.14	-6,403.85	587.33	6,428.72	0.03	0.00	0.03
12,600.00	90.00	181.71	6,458.13	-6,503.81	584.37	6,528.26	0.03	0.00	0.03
12,700.00	90.00	181.74	6,458.12	-6,603.76	581.36	6,627.80	0.03	0.00	0.03
12,800.00	90.00	181.77	6,458.11	-6,703.72	578.31	6,727.33	0.03	0.00	0.03
12,900.00	90.00	181.80	6,458.10	-6,803.67	575.20	6,826.85	0.03	0.00	0.03
13,000.00	90.01	181.82	6,458.10	-6,903.62	572.04	6,926.37	0.03	0.00	0.03
13,100.00	90.01	181.85	6,458.09	-7,003.57	568.83	7,025.89	0.03	0.00	0.03
13,200.00	90.01	181.88	6,458.08	-7,103.52	565.57	7,125.40	0.03	0.00	0.03
13,300.00	90.01	181.91	6,458.07	-7,203.46	562.27	7,224.90	0.03	0.00	0.03
13,400.00	90.01	181.94	6,458.06	-7,303.40	558.91	7,324.40	0.03	0.00	0.03
13,500.00	90.01	181.97	6,458.05	-7,403.35	555.50	7,423.89	0.03	0.00	0.03
13,600.00	90.01	182.00	6,458.04	-7,503.29	552.04	7,523.38	0.03	0.00	0.03
13,700.00	90.01	182.03	6,458.03	-7,603.22	548.53	7,622.87	0.03	0.00	0.03

Survey Report



Company:	Bison Oil & Gas II, LLC	Local Co-ordinate Reference:	Well HUNT FED 8-60 17B-20-3
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	GL @ 4938.50usft
Site:	HUNT 8-60 17B	MD Reference:	GL @ 4938.50usft
Well:	HUNT FED 8-60 17B-20-3	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #1	Database:	EDM

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,800.00	90.01	182.05	6,458.02	-7,703.16	544.97	7,722.35	0.03	0.00	0.03
13,900.00	90.01	182.08	6,458.01	-7,803.10	541.36	7,821.82	0.03	0.00	0.03
14,000.00	90.01	182.11	6,458.00	-7,903.03	537.70	7,921.29	0.03	0.00	0.03
14,011.47	90.01	182.11	6,458.00	-7,914.49	537.28	7,932.70	0.00	0.00	0.00
Start 100.00 hold at 14011.47 MD - HUNT FED 8-60 17B-20-3 EPI									
14,100.00	90.01	182.12	6,457.99	-8,002.96	534.01	8,020.76	0.00	0.00	0.00
14,111.30	90.01	182.12	6,457.99	-8,014.25	533.59	8,031.99	0.00	0.00	0.00
HUNT FED 8-60 17B-20-3 zBHL									
14,111.47	90.01	182.12	6,457.99	-8,014.42	533.59	8,032.16	0.00	0.00	0.00
TD at 14111.47									

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
HUNT FED 8-60 17B- - plan misses target center by 0.37usft at 6672.75usft MD (6458.37 TVD, -577.44 N, 672.78 E) - Point	0.00	0.00	6,458.00	-577.44	672.78	1,486,834.87	3,385,058.62	40° 39' 41.342 N	104° 6' 43.290 W
HUNT FED 8-60 17B- - plan misses target center by 1.75usft at 14111.30usft MD (6457.99 TVD, -8014.25 N, 533.59 E) - Point	0.00	0.00	6,458.00	-8,014.31	535.34	1,479,396.75	3,385,037.39	40° 38' 27.856 N	104° 6' 45.076 W
HUNT FED 8-60 17B- - plan hits target center - Point	0.00	0.00	6,458.00	-7,914.49	537.28	1,479,496.59	3,385,037.77	40° 38' 28.842 N	104° 6' 45.050 W

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,539.42	3,511.00	Parkman			
4,070.86	4,036.00	Sussex			
5,182.35	5,134.00	Shannon			
6,218.14	6,163.00	Sharon Springs Shale			
6,288.40	6,233.00	Niobrara Formation			
6,298.60	6,243.00	Niobrara A Chalk			
6,319.27	6,263.00	Niobrara A Landing Point			
6,421.21	6,353.00	Niobrara B Chalk			
6,461.78	6,383.00	Niobrara B Landing Point			
6,529.26	6,423.00	Niobrara C Chalk			
6,655.82	6,458.00	Niobrara C Landing Point			

Survey Report



Company:	Bison Oil & Gas II, LLC	Local Co-ordinate Reference:	Well HUNT FED 8-60 17B-20-3
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	GL @ 4938.50usft
Site:	HUNT 8-60 17B	MD Reference:	GL @ 4938.50usft
Well:	HUNT FED 8-60 17B-20-3	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #1	Database:	EDM

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
800	800	0	0	Start Build 1.50
1396	1393	-19	42	Start 4147.99 hold at 1395.58 MD
5544	5491	-282	630	Start Drop -1.50
6139	6084	-300	673	Start 100.00 hold at 6139.14 MD
6239	6184	-300	673	Start Build 20.88
6670	6458	-575	673	Start DLS 0.03 TFO 89.84
14,011	6458	-7914	537	Start 100.00 hold at 14011.47 MD
14,111	6458	-8014	534	TD at 14111.47

Checked By: _____ Approved By: _____ Date: _____