

EXTRACTION OIL & GAS

WELD COUNTY, COLORADO (NAD 83)

NE NE SEC. 20 T5N R65W 6th P.M.

GP-J EVANS C2-20-24

ORIGINAL WELLBORE

14 May, 2016

Plan: PROPOSAL #1

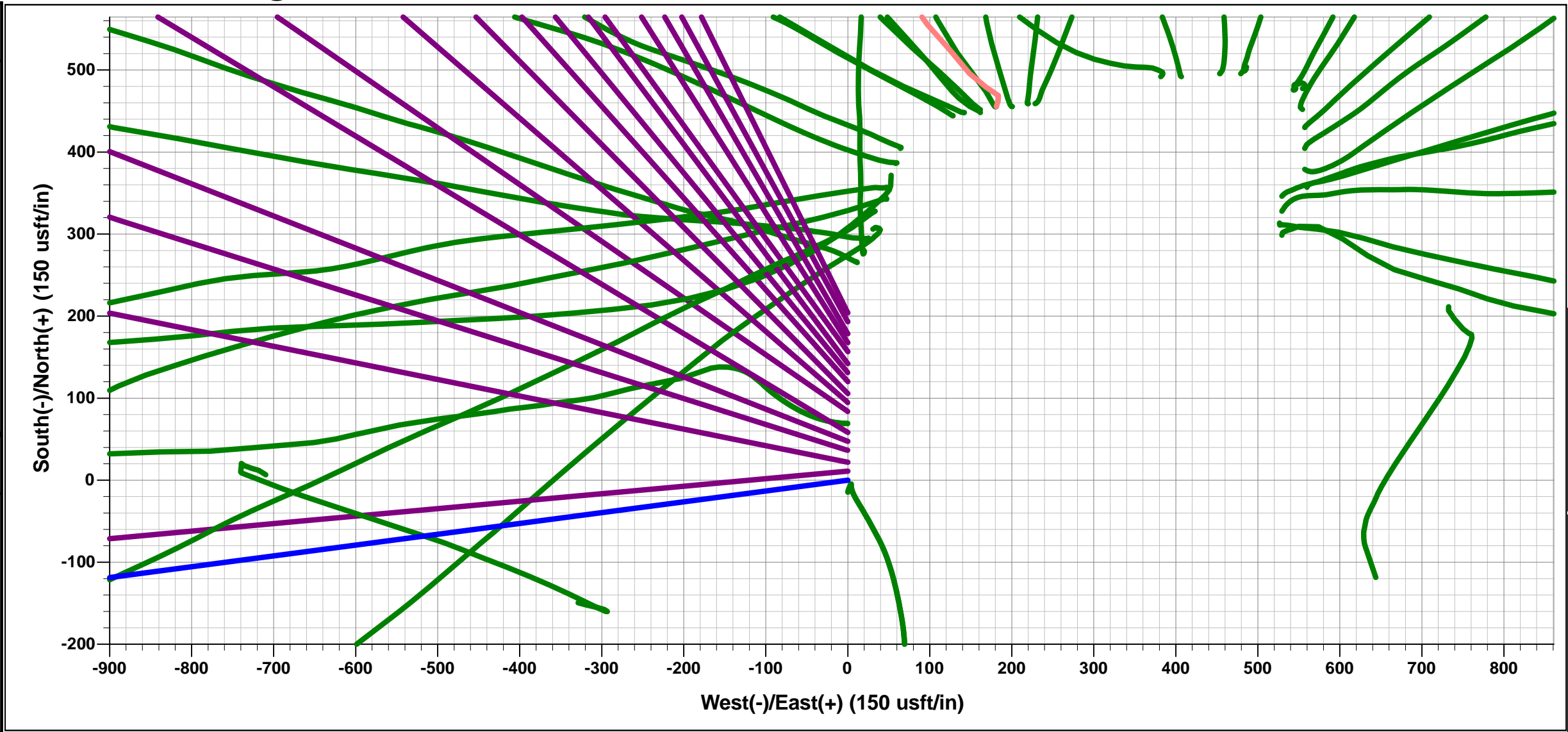




Project: WELD COUNTY, COLORADO (NAD 83)
Site: NE NE SEC. 20 T5N R65W 6th P.M.
Well: GP-J EVANS C2-20-24
Wellbore: ORIGINAL WELLBORE
Design: PROPOSAL #1

ANNOTATIONS									
TVD	MD	Inc	Azi	+N/-S	+E/-W	VSect	Dep	Annotation	
100.0	100.0	0.00	0.00	0.0	0.0	0.0	0.0	START NUDGE #1 (2°/100ft BUR)	
249.9	250.0	3.00	262.49	-0.5	-3.9	3.9	3.9	EOB TO 3° INC	
291.9	292.0	3.00	262.49	-0.8	-6.1	6.1	6.1	END OF TANGENT	
441.8	442.0	0.00	0.00	-1.3	-10.0	10.0	10.1	EOD TO VERTICAL	
2400.0	2400.2	0.00	0.00	-1.3	-10.0	10.0	10.1	START NUDGE #2 (2°/100ft BUR)	
3302.8	3318.6	18.37	262.49	-20.4	-154.7	154.9	156.0	EOB TO 18.37° INC	
6696.3	6894.3	18.37	262.49	-167.8	-1271.8	1273.5	1282.8	KOP (10°/100ft DGLG)	
7090.0	7612.4	90.00	270.38	-182.1	-1816.2	1818.0	1827.7	HZ LANDING PNT - GP-J EVANS C2-20-24	
7090.0	17287.2	90.00	270.38	-117.5	-11490.7	11491.4	11502.4	BHL - GP-J EVANS C2-20-24	

WELLBORE TARGET DETAILS (LAT/LONG)						
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	
HZ LANDING PNT - GP-J EVANS C2-20-24	7090.0	-182.1	-1816.2	40.389590	-104.689030	
BHL - GP-J EVANS C2-20-24	7090.0	-117.5	-11490.7	40.389760	-104.723760	



FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
3686.0	3722.4	PARKMAN
4425.0	4501.1	SUSSEX
4935.0	5038.5	SHANNON
6740.0	6941.1	SHARON SPRINGS
6775.0	6979.7	NIOBRARA
7055.0	7411.0	FORT HAYS
7080.0	7505.2	CODELL

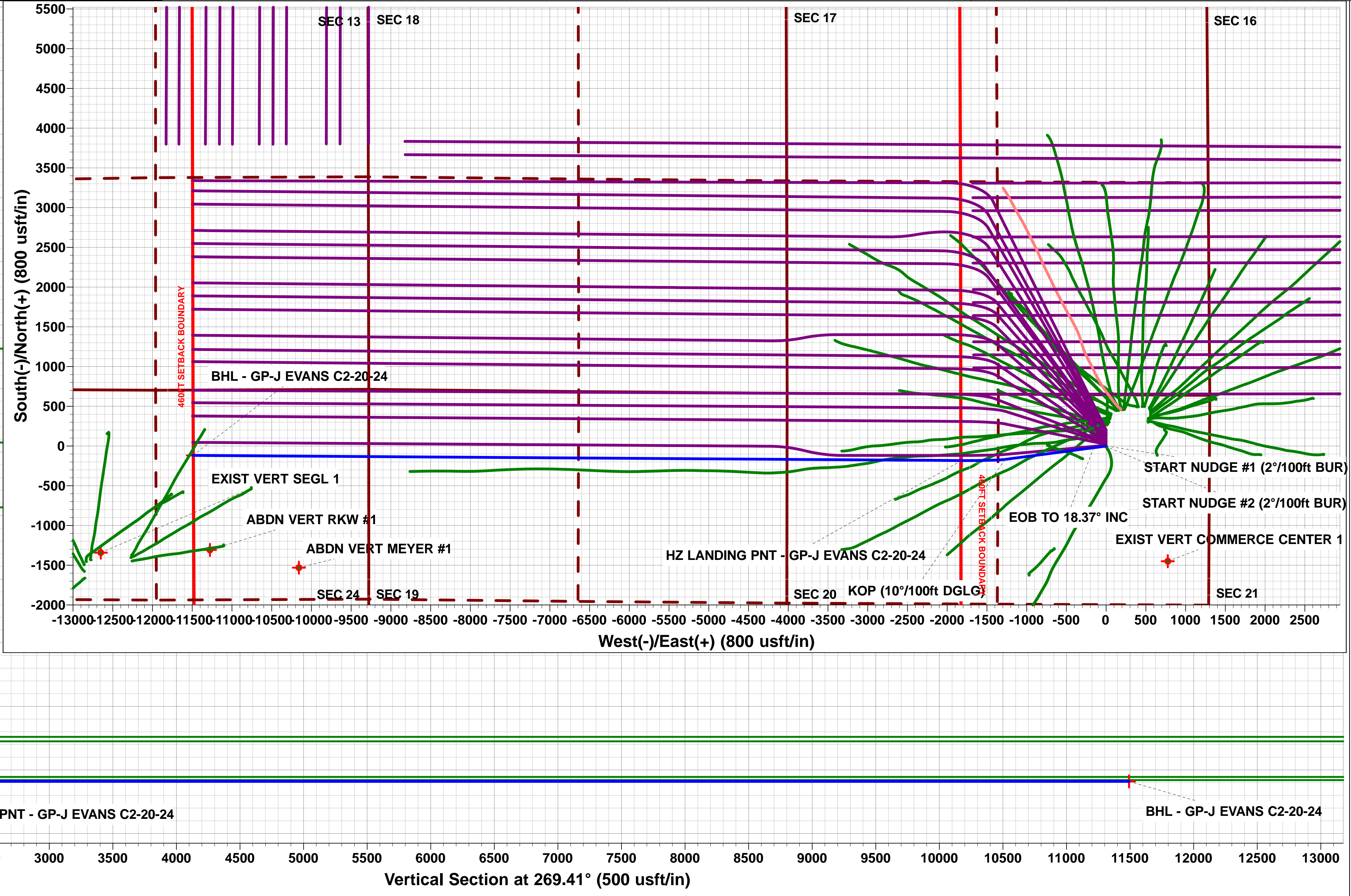
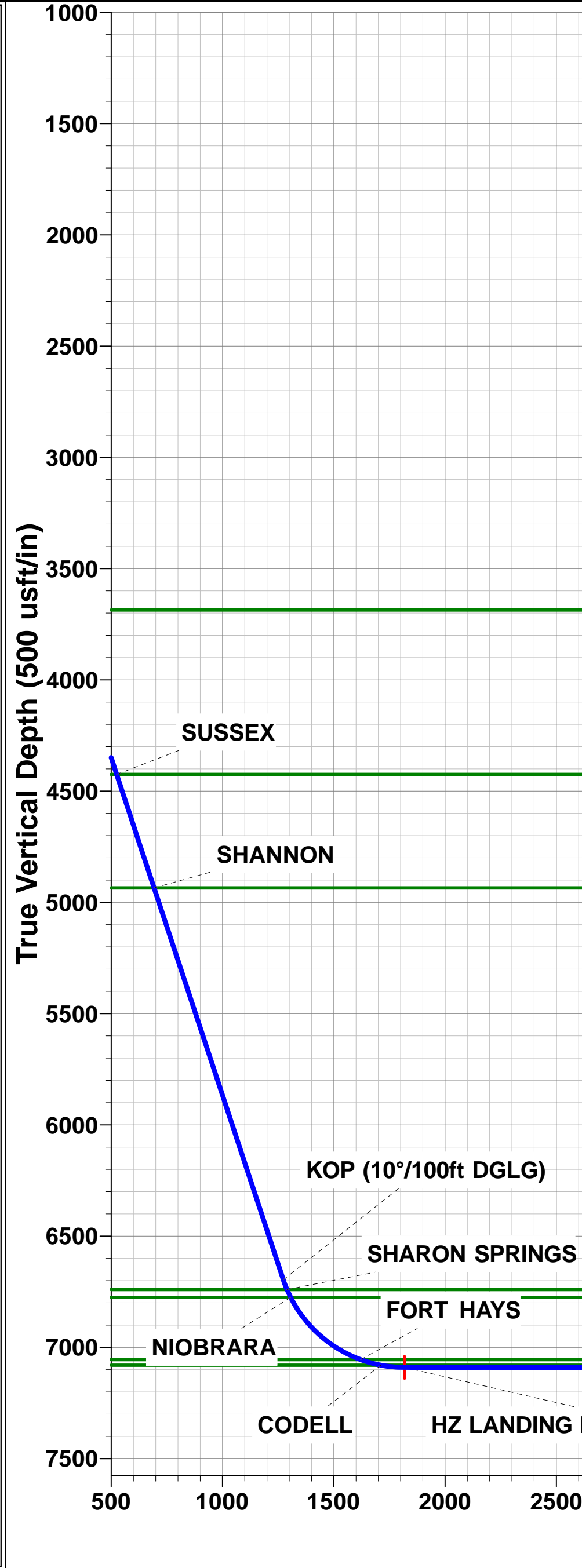
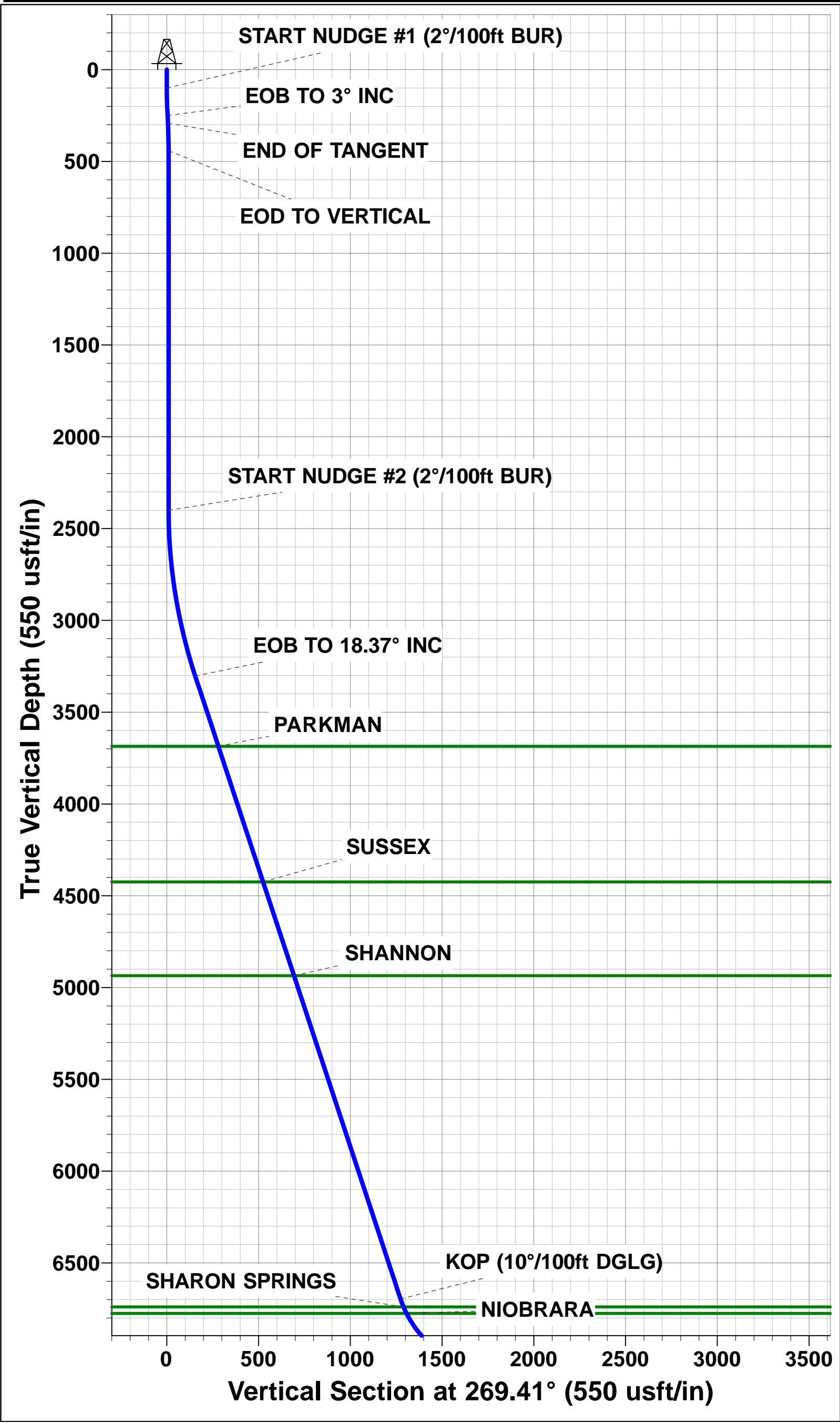
PROPOSED LOCAL COORDINATES		
SHL: 646ft FNL & 1305ft FEL of Sec 20		
LP *NEW*: 837ft FNL & 2194ft FWL of Sec 20		
BHL: 821ft FNL & 2221ft FEL of Sec 24		

T

M

Azimuths to True North
Magnetic North: 8.28°

Magnetic Field
Strength: 52521.6snT
Dip Angle: 66.89°
Date: 14/05/2016
Model: IGRF2015



Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well GP-J EVANS C2-20-24
Company:	EXTRACTION OIL & GAS	TVD Reference:	KB-EST @ 4688.0usft (Original Well Elev)
Project:	WELD COUNTY, COLORADO (NAD 83)	MD Reference:	KB-EST @ 4688.0usft (Original Well Elev)
Site:	NE NE SEC. 20 T5N R65W 6th P.M.	North Reference:	True
Well:	GP-J EVANS C2-20-24	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		NE NE SEC. 20 T5N R65W 6th P.M.			
Site Position:		Northing:	1,386,203.84 usft	Latitude:	40.390650
From:	Lat/Long	Easting:	3,227,707.61 usft	Longitude:	-104.682510
Position Uncertainty:	0.0 usft	Slot Radius:	1.10000ft	Grid Convergence:	0.53 °

Well	GP-J EVANS C2-20-24					
Well Position	+N/-S	-204.0 usft	Northing:	1,385,999.84 usfi	Latitude:	40.390090
	+E/-W	0.0 usft	Easting:	3,227,709.49 usfi	Longitude:	-104.682510
Position Uncertainty		0.0 usft	Wellhead Elevation:	usfi	Ground Level:	4,672.0 usft

Wellbore	ORIGINAL WELLBORE				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	14/05/2016	8.28	66.89	52,522

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 (°)
	7,090.0	0.0	0.0	269.41

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
0.0	0.00	0.00	0.0	-4,688.0	0.0	0.0	0.00	0.00	0.00	0.00	
100.0	0.00	0.00	100.0	-4,588.0	0.0	0.0	0.00	0.00	0.00	0.00	
250.0	3.00	262.49	249.9	-4,438.1	-0.5	-3.9	2.00	2.00	0.00	262.49	
292.0	3.00	262.49	291.9	-4,396.1	-0.8	-6.1	0.00	0.00	0.00	0.00	
442.0	0.00	0.00	441.8	-4,246.2	-1.3	-10.0	2.00	-2.00	0.00	180.00	
2,400.2	0.00	0.00	2,400.0	-2,288.0	-1.3	-10.0	0.00	0.00	0.00	0.00	
3,318.6	18.37	262.49	3,302.8	-1,385.2	-20.4	-154.7	2.00	2.00	0.00	262.49	
6,894.3	18.37	262.49	6,696.3	2,008.3	-167.8	-1,271.8	0.00	0.00	0.00	0.00	
7,612.4	90.00	270.38	7,090.0	2,402.0	-182.1	-1,816.2	10.00	9.97	1.10	8.31	HZ LANDING PNT
17,287.2	90.00	270.38	7,090.0	2,402.0	-117.5	-11,490.7	0.00	0.00	0.00	0.00	BHL - GP-J EVANS

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well GP-J EVANS C2-20-24
Company:	EXTRACTION OIL & GAS	TVD Reference:	KB-EST @ 4688.0usft (Original Well Elev)
Project:	WELD COUNTY, COLORADO (NAD 83)	MD Reference:	KB-EST @ 4688.0usft (Original Well Elev)
Site:	NE NE SEC. 20 T5N R65W 6th P.M.	North Reference:	True
Well:	GP-J EVANS C2-20-24	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)
0.0	0.00	0.00	0.0	4,688.00	0.0	0.0	0.0	0.00	0.00	0.00
START NUDGE #1 (2°/100ft BUR)										
100.0	0.00	0.00	100.0	4,588.00	0.0	0.0	0.0	0.00	0.00	0.00
200.0	2.00	262.49	200.0	4,488.02	-0.2	-1.7	1.7	2.00	2.00	0.00
EOB TO 3° INC										
250.0	3.00	262.49	249.9	4,438.07	-0.5	-3.9	3.9	2.00	2.00	0.00
END OF TANGENT										
292.0	3.00	262.49	291.9	4,396.13	-0.8	-6.1	6.1	0.00	0.00	0.00
300.0	2.84	262.49	299.9	4,388.14	-0.9	-6.5	6.5	2.00	-2.00	0.00
400.0	0.84	262.49	399.8	4,288.19	-1.3	-9.7	9.7	2.00	-2.00	0.00
EOD TO VERTICAL										
442.0	0.00	0.00	441.8	4,246.19	-1.3	-10.0	10.0	2.00	-2.00	0.00
500.0	0.00	0.00	499.8	4,188.19	-1.3	-10.0	10.0	0.00	0.00	0.00
600.0	0.00	0.00	599.8	4,088.19	-1.3	-10.0	10.0	0.00	0.00	0.00
700.0	0.00	0.00	699.8	3,988.19	-1.3	-10.0	10.0	0.00	0.00	0.00
800.0	0.00	0.00	799.8	3,888.19	-1.3	-10.0	10.0	0.00	0.00	0.00
900.0	0.00	0.00	899.8	3,788.19	-1.3	-10.0	10.0	0.00	0.00	0.00
1,000.0	0.00	0.00	999.8	3,688.19	-1.3	-10.0	10.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,099.8	3,588.19	-1.3	-10.0	10.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,199.8	3,488.19	-1.3	-10.0	10.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,299.8	3,388.19	-1.3	-10.0	10.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,399.8	3,288.19	-1.3	-10.0	10.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,499.8	3,188.19	-1.3	-10.0	10.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,599.8	3,088.19	-1.3	-10.0	10.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,699.8	2,988.19	-1.3	-10.0	10.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,799.8	2,888.19	-1.3	-10.0	10.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,899.8	2,788.19	-1.3	-10.0	10.0	0.00	0.00	0.00
2,000.0	0.00	0.00	1,999.8	2,688.19	-1.3	-10.0	10.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,099.8	2,588.19	-1.3	-10.0	10.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,199.8	2,488.19	-1.3	-10.0	10.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,299.8	2,388.19	-1.3	-10.0	10.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,399.8	2,288.19	-1.3	-10.0	10.0	0.00	0.00	0.00
START NUDGE #2 (2°/100ft BUR)										
2,400.2	0.00	0.00	2,400.0	2,288.00	-1.3	-10.0	10.0	0.00	0.00	0.00
2,500.0	2.00	262.49	2,499.8	2,188.21	-1.5	-11.7	11.7	2.00	2.00	0.00
2,600.0	4.00	262.49	2,599.6	2,088.36	-2.2	-16.9	16.9	2.00	2.00	0.00
2,700.0	6.00	262.49	2,699.3	1,988.74	-3.4	-25.5	25.5	2.00	2.00	0.00
2,800.0	8.00	262.49	2,798.5	1,889.49	-5.0	-37.6	37.6	2.00	2.00	0.00
2,900.0	10.00	262.49	2,897.3	1,790.73	-7.0	-53.1	53.1	2.00	2.00	0.00
3,000.0	12.00	262.49	2,995.4	1,692.57	-9.5	-72.0	72.1	2.00	2.00	0.00
3,100.0	14.00	262.49	3,092.9	1,595.13	-12.4	-94.3	94.4	2.00	2.00	0.00
3,200.0	16.00	262.49	3,189.5	1,498.54	-15.8	-119.9	120.1	2.00	2.00	0.00
3,300.0	18.00	262.49	3,285.1	1,402.92	-19.6	-148.9	149.1	2.00	2.00	0.00
EOB TO 18.37° INC										
3,318.6	18.37	262.49	3,302.8	1,385.23	-20.4	-154.7	154.9	2.00	2.00	0.00
3,400.0	18.37	262.49	3,380.0	1,307.99	-23.8	-180.1	180.3	0.00	0.00	0.00
3,500.0	18.37	262.49	3,474.9	1,213.09	-27.9	-211.3	211.6	0.00	0.00	0.00
3,600.0	18.37	262.49	3,569.8	1,118.18	-32.0	-242.6	242.9	0.00	0.00	0.00
3,700.0	18.37	262.49	3,664.7	1,023.28	-36.1	-273.8	274.2	0.00	0.00	0.00
PARKMAN										
3,722.4	18.37	262.49	3,686.0	1,002.00	-37.0	-280.8	281.2	0.00	0.00	0.00
3,800.0	18.37	262.49	3,759.6	928.37	-40.2	-305.1	305.5	0.00	0.00	0.00
3,900.0	18.37	262.49	3,854.5	833.47	-44.4	-336.3	336.7	0.00	0.00	0.00

Planning Report



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Company:	EXTRACTION OIL & GAS	TVD Reference:	KB-EST @ 4688.0usft (Original Well Elev)
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Site:	NE NE SEC. 20 T5N R65W 6th P.M.	North Reference:	True
Well:	GP-J EVANS C2-20-24	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)
4,000.0	18.37	262.49	3,949.4	738.56	-48.5	-367.6	368.0	0.00	0.00	0.00
4,100.0	18.37	262.49	4,044.3	643.66	-52.6	-398.8	399.3	0.00	0.00	0.00
4,200.0	18.37	262.49	4,139.2	548.75	-56.7	-430.0	430.6	0.00	0.00	0.00
4,300.0	18.37	262.49	4,234.2	453.85	-60.8	-461.3	461.9	0.00	0.00	0.00
4,400.0	18.37	262.49	4,329.1	358.94	-65.0	-492.5	493.2	0.00	0.00	0.00
4,500.0	18.37	262.49	4,424.0	264.04	-69.1	-523.8	524.4	0.00	0.00	0.00
SUSSEX										
4,501.1	18.37	262.49	4,425.0	263.00	-69.1	-524.1	524.8	0.00	0.00	0.00
4,600.0	18.37	262.49	4,518.9	169.13	-73.2	-555.0	555.7	0.00	0.00	0.00
4,700.0	18.37	262.49	4,613.8	74.23	-77.3	-586.2	587.0	0.00	0.00	0.00
4,800.0	18.37	262.49	4,708.7	-20.68	-81.4	-617.5	618.3	0.00	0.00	0.00
4,900.0	18.37	262.49	4,803.6	-115.58	-85.6	-648.7	649.6	0.00	0.00	0.00
5,000.0	18.37	262.49	4,898.5	-210.49	-89.7	-680.0	680.9	0.00	0.00	0.00
SHANNON										
5,038.5	18.37	262.49	4,935.0	-247.00	-91.3	-692.0	692.9	0.00	0.00	0.00
5,100.0	18.37	262.49	4,993.4	-305.39	-93.8	-711.2	712.1	0.00	0.00	0.00
5,200.0	18.37	262.49	5,088.3	-400.30	-97.9	-742.5	743.4	0.00	0.00	0.00
5,300.0	18.37	262.49	5,183.2	-495.20	-102.1	-773.7	774.7	0.00	0.00	0.00
5,400.0	18.37	262.49	5,278.1	-590.11	-106.2	-804.9	806.0	0.00	0.00	0.00
5,500.0	18.37	262.49	5,373.0	-685.01	-110.3	-836.2	837.3	0.00	0.00	0.00
5,600.0	18.37	262.49	5,467.9	-779.92	-114.4	-867.4	868.6	0.00	0.00	0.00
5,700.0	18.37	262.49	5,562.8	-874.82	-118.5	-898.7	899.8	0.00	0.00	0.00
5,800.0	18.37	262.49	5,657.7	-969.73	-122.7	-929.9	931.1	0.00	0.00	0.00
5,900.0	18.37	262.49	5,752.6	-1,064.63	-126.8	-961.2	962.4	0.00	0.00	0.00
6,000.0	18.37	262.49	5,847.5	-1,159.54	-130.9	-992.4	993.7	0.00	0.00	0.00
6,100.0	18.37	262.49	5,942.4	-1,254.44	-135.0	-1,023.6	1,025.0	0.00	0.00	0.00
6,200.0	18.37	262.49	6,037.3	-1,349.35	-139.1	-1,054.9	1,056.2	0.00	0.00	0.00
6,300.0	18.37	262.49	6,132.3	-1,444.25	-143.3	-1,086.1	1,087.5	0.00	0.00	0.00
6,400.0	18.37	262.49	6,227.2	-1,539.16	-147.4	-1,117.4	1,118.8	0.00	0.00	0.00
6,500.0	18.37	262.49	6,322.1	-1,634.06	-151.5	-1,148.6	1,150.1	0.00	0.00	0.00
6,600.0	18.37	262.49	6,417.0	-1,728.97	-155.6	-1,179.8	1,181.4	0.00	0.00	0.00
6,700.0	18.37	262.49	6,511.9	-1,823.87	-159.7	-1,211.1	1,212.7	0.00	0.00	0.00
6,800.0	18.37	262.49	6,606.8	-1,918.77	-163.9	-1,242.3	1,243.9	0.00	0.00	0.00
KOP (10°/100ft DGLG)										
6,894.3	18.37	262.49	6,696.3	-2,008.29	-167.8	-1,271.8	1,273.5	0.00	0.00	0.00
6,900.0	18.93	262.74	6,701.7	-2,013.67	-168.0	-1,273.6	1,275.3	10.00	9.90	4.46
SHARON SPRINGS										
6,941.1	23.00	264.21	6,740.0	-2,052.00	-169.6	-1,288.2	1,289.9	10.00	9.92	3.59
NIOBRARA										
6,979.7	26.84	265.21	6,775.0	-2,087.00	-171.1	-1,304.4	1,306.1	10.00	9.94	2.58
7,000.0	28.86	265.64	6,793.0	-2,104.99	-171.9	-1,313.9	1,315.5	10.00	9.95	2.09
7,100.0	38.83	267.13	6,875.9	-2,187.94	-175.3	-1,369.4	1,371.1	10.00	9.97	1.50
7,200.0	48.81	268.09	6,948.0	-2,260.00	-178.1	-1,438.5	1,440.2	10.00	9.98	0.96
7,300.0	58.79	268.80	7,007.0	-2,318.99	-180.3	-1,519.0	1,520.8	10.00	9.98	0.70
7,400.0	68.78	269.37	7,051.1	-2,363.10	-181.7	-1,608.6	1,610.4	10.00	9.99	0.57
FORT HAYS										
7,411.0	69.88	269.42	7,055.0	-2,367.00	-181.8	-1,618.9	1,620.7	10.00	9.99	0.52
7,500.0	78.77	269.86	7,079.0	-2,391.01	-182.3	-1,704.5	1,706.3	10.00	9.99	0.49
CODELL										
7,505.2	79.29	269.89	7,080.0	-2,392.00	-182.3	-1,709.6	1,711.4	10.00	9.99	0.47
7,600.0	88.76	270.33	7,089.9	-2,401.87	-182.2	-1,803.8	1,805.6	10.00	9.99	0.46
HZ LANDING PNT - GP-J EVANS C2-20-24										
7,612.4	90.00	270.38	7,090.0	-2,402.00	-182.1	-1,816.2	1,818.0	10.00	9.99	0.46

Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well GP-J EVANS C2-20-24
Company:	EXTRACTION OIL & GAS	TVD Reference:	KB-EST @ 4688.0usft (Original Well Elev)
Project:	WELD COUNTY, COLORADO (NAD 83)	MD Reference:	KB-EST @ 4688.0usft (Original Well Elev)
Site:	NE NE SEC. 20 T5N R65W 6th P.M.	North Reference:	True
Well:	GP-J EVANS C2-20-24	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)
7,700.0	90.00	270.38	7,090.0	-2,402.00	-181.5	-1,903.8	1,905.6	0.00	0.00	0.00
7,800.0	90.00	270.38	7,090.0	-2,402.00	-180.8	-2,003.8	2,005.5	0.00	0.00	0.00
7,900.0	90.00	270.38	7,090.0	-2,402.00	-180.2	-2,103.8	2,105.5	0.00	0.00	0.00
8,000.0	90.00	270.38	7,090.0	-2,402.00	-179.5	-2,203.8	2,205.5	0.00	0.00	0.00
8,100.0	90.00	270.38	7,090.0	-2,402.00	-178.8	-2,303.8	2,305.5	0.00	0.00	0.00
8,200.0	90.00	270.38	7,090.0	-2,402.00	-178.2	-2,403.8	2,405.5	0.00	0.00	0.00
8,300.0	90.00	270.38	7,090.0	-2,402.00	-177.5	-2,503.8	2,505.5	0.00	0.00	0.00
8,400.0	90.00	270.38	7,090.0	-2,402.00	-176.8	-2,603.8	2,605.5	0.00	0.00	0.00
8,500.0	90.00	270.38	7,090.0	-2,402.00	-176.2	-2,703.8	2,705.4	0.00	0.00	0.00
8,600.0	90.00	270.38	7,090.0	-2,402.00	-175.5	-2,803.8	2,805.4	0.00	0.00	0.00
8,700.0	90.00	270.38	7,090.0	-2,402.00	-174.8	-2,903.8	2,905.4	0.00	0.00	0.00
8,800.0	90.00	270.38	7,090.0	-2,402.00	-174.2	-3,003.8	3,005.4	0.00	0.00	0.00
8,900.0	90.00	270.38	7,090.0	-2,402.00	-173.5	-3,103.8	3,105.4	0.00	0.00	0.00
9,000.0	90.00	270.38	7,090.0	-2,402.00	-172.8	-3,203.8	3,205.4	0.00	0.00	0.00
9,100.0	90.00	270.38	7,090.0	-2,402.00	-172.2	-3,303.8	3,305.4	0.00	0.00	0.00
9,200.0	90.00	270.38	7,090.0	-2,402.00	-171.5	-3,403.8	3,405.3	0.00	0.00	0.00
9,300.0	90.00	270.38	7,090.0	-2,402.00	-170.8	-3,503.8	3,505.3	0.00	0.00	0.00
9,400.0	90.00	270.38	7,090.0	-2,402.00	-170.2	-3,603.8	3,605.3	0.00	0.00	0.00
9,500.0	90.00	270.38	7,090.0	-2,402.00	-169.5	-3,703.8	3,705.3	0.00	0.00	0.00
9,600.0	90.00	270.38	7,090.0	-2,402.00	-168.8	-3,803.8	3,805.3	0.00	0.00	0.00
9,700.0	90.00	270.38	7,090.0	-2,402.00	-168.2	-3,903.7	3,905.3	0.00	0.00	0.00
9,800.0	90.00	270.38	7,090.0	-2,402.00	-167.5	-4,003.7	4,005.3	0.00	0.00	0.00
9,900.0	90.00	270.38	7,090.0	-2,402.00	-166.8	-4,103.7	4,105.2	0.00	0.00	0.00
10,000.0	90.00	270.38	7,090.0	-2,402.00	-166.2	-4,203.7	4,205.2	0.00	0.00	0.00
10,100.0	90.00	270.38	7,090.0	-2,402.00	-165.5	-4,303.7	4,305.2	0.00	0.00	0.00
10,200.0	90.00	270.38	7,090.0	-2,402.00	-164.8	-4,403.7	4,405.2	0.00	0.00	0.00
10,300.0	90.00	270.38	7,090.0	-2,402.00	-164.2	-4,503.7	4,505.2	0.00	0.00	0.00
10,400.0	90.00	270.38	7,090.0	-2,402.00	-163.5	-4,603.7	4,605.2	0.00	0.00	0.00
10,500.0	90.00	270.38	7,090.0	-2,402.00	-162.8	-4,703.7	4,705.2	0.00	0.00	0.00
10,600.0	90.00	270.38	7,090.0	-2,402.00	-162.2	-4,803.7	4,805.1	0.00	0.00	0.00
10,700.0	90.00	270.38	7,090.0	-2,402.00	-161.5	-4,903.7	4,905.1	0.00	0.00	0.00
10,800.0	90.00	270.38	7,090.0	-2,402.00	-160.8	-5,003.7	5,005.1	0.00	0.00	0.00
10,900.0	90.00	270.38	7,090.0	-2,402.00	-160.1	-5,103.7	5,105.1	0.00	0.00	0.00
11,000.0	90.00	270.38	7,090.0	-2,402.00	-159.5	-5,203.7	5,205.1	0.00	0.00	0.00
11,100.0	90.00	270.38	7,090.0	-2,402.00	-158.8	-5,303.7	5,305.1	0.00	0.00	0.00
11,200.0	90.00	270.38	7,090.0	-2,402.00	-158.1	-5,403.7	5,405.1	0.00	0.00	0.00
11,300.0	90.00	270.38	7,090.0	-2,402.00	-157.5	-5,503.7	5,505.0	0.00	0.00	0.00
11,400.0	90.00	270.38	7,090.0	-2,402.00	-156.8	-5,603.7	5,605.0	0.00	0.00	0.00
11,500.0	90.00	270.38	7,090.0	-2,402.00	-156.1	-5,703.7	5,705.0	0.00	0.00	0.00
11,600.0	90.00	270.38	7,090.0	-2,402.00	-155.5	-5,803.7	5,805.0	0.00	0.00	0.00
11,700.0	90.00	270.38	7,090.0	-2,402.00	-154.8	-5,903.7	5,905.0	0.00	0.00	0.00
11,800.0	90.00	270.38	7,090.0	-2,402.00	-154.1	-6,003.7	6,005.0	0.00	0.00	0.00
11,900.0	90.00	270.38	7,090.0	-2,402.00	-153.5	-6,103.7	6,105.0	0.00	0.00	0.00
12,000.0	90.00	270.38	7,090.0	-2,402.00	-152.8	-6,203.7	6,204.9	0.00	0.00	0.00
12,100.0	90.00	270.38	7,090.0	-2,402.00	-152.1	-6,303.7	6,304.9	0.00	0.00	0.00
12,200.0	90.00	270.38	7,090.0	-2,402.00	-151.5	-6,403.7	6,404.9	0.00	0.00	0.00
12,300.0	90.00	270.38	7,090.0	-2,402.00	-150.8	-6,503.7	6,504.9	0.00	0.00	0.00
12,400.0	90.00	270.38	7,090.0	-2,402.00	-150.1	-6,603.7	6,604.9	0.00	0.00	0.00
12,500.0	90.00	270.38	7,090.0	-2,402.00	-149.5	-6,703.7	6,704.9	0.00	0.00	0.00
12,600.0	90.00	270.38	7,090.0	-2,402.00	-148.8	-6,803.7	6,804.9	0.00	0.00	0.00
12,700.0	90.00	270.38	7,090.0	-2,402.00	-148.1	-6,903.7	6,904.8	0.00	0.00	0.00
12,800.0	90.00	270.38	7,090.0	-2,402.00	-147.5	-7,003.7	7,004.8	0.00	0.00	0.00
12,900.0	90.00	270.38	7,090.0	-2,402.00	-146.8	-7,103.7	7,104.8	0.00	0.00	0.00
13,000.0	90.00	270.38	7,090.0	-2,402.00	-146.1	-7,203.7	7,204.8	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well GP-J EVANS C2-20-24
Company:	EXTRACTION OIL & GAS	TVD Reference:	KB-EST @ 4688.0usft (Original Well Elev)
Project:	WELD COUNTY, COLORADO (NAD 83)	MD Reference:	KB-EST @ 4688.0usft (Original Well Elev)
Site:	NE NE SEC. 20 T5N R65W 6th P.M.	North Reference:	True
Well:	GP-J EVANS C2-20-24	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)
13,100.0	90.00	270.38	7,090.0	-2,402.00	-145.5	-7,303.7	7,304.8	0.00	0.00	0.00
13,200.0	90.00	270.38	7,090.0	-2,402.00	-144.8	-7,403.7	7,404.8	0.00	0.00	0.00
13,300.0	90.00	270.38	7,090.0	-2,402.00	-144.1	-7,503.7	7,504.8	0.00	0.00	0.00
13,400.0	90.00	270.38	7,090.0	-2,402.00	-143.5	-7,603.7	7,604.7	0.00	0.00	0.00
13,500.0	90.00	270.38	7,090.0	-2,402.00	-142.8	-7,703.7	7,704.7	0.00	0.00	0.00
13,600.0	90.00	270.38	7,090.0	-2,402.00	-142.1	-7,803.7	7,804.7	0.00	0.00	0.00
13,700.0	90.00	270.38	7,090.0	-2,402.00	-141.5	-7,903.7	7,904.7	0.00	0.00	0.00
13,800.0	90.00	270.38	7,090.0	-2,402.00	-140.8	-8,003.7	8,004.7	0.00	0.00	0.00
13,900.0	90.00	270.38	7,090.0	-2,402.00	-140.1	-8,103.7	8,104.7	0.00	0.00	0.00
14,000.0	90.00	270.38	7,090.0	-2,402.00	-139.5	-8,203.7	8,204.7	0.00	0.00	0.00
14,100.0	90.00	270.38	7,090.0	-2,402.00	-138.8	-8,303.7	8,304.6	0.00	0.00	0.00
14,200.0	90.00	270.38	7,090.0	-2,402.00	-138.1	-8,403.6	8,404.6	0.00	0.00	0.00
14,300.0	90.00	270.38	7,090.0	-2,402.00	-137.5	-8,503.6	8,504.6	0.00	0.00	0.00
14,400.0	90.00	270.38	7,090.0	-2,402.00	-136.8	-8,603.6	8,604.6	0.00	0.00	0.00
14,500.0	90.00	270.38	7,090.0	-2,402.00	-136.1	-8,703.6	8,704.6	0.00	0.00	0.00
14,600.0	90.00	270.38	7,090.0	-2,402.00	-135.5	-8,803.6	8,804.6	0.00	0.00	0.00
14,700.0	90.00	270.38	7,090.0	-2,402.00	-134.8	-8,903.6	8,904.6	0.00	0.00	0.00
14,800.0	90.00	270.38	7,090.0	-2,402.00	-134.1	-9,003.6	9,004.5	0.00	0.00	0.00
14,900.0	90.00	270.38	7,090.0	-2,402.00	-133.5	-9,103.6	9,104.5	0.00	0.00	0.00
15,000.0	90.00	270.38	7,090.0	-2,402.00	-132.8	-9,203.6	9,204.5	0.00	0.00	0.00
15,100.0	90.00	270.38	7,090.0	-2,402.00	-132.1	-9,303.6	9,304.5	0.00	0.00	0.00
15,200.0	90.00	270.38	7,090.0	-2,402.00	-131.5	-9,403.6	9,404.5	0.00	0.00	0.00
15,300.0	90.00	270.38	7,090.0	-2,402.00	-130.8	-9,503.6	9,504.5	0.00	0.00	0.00
15,400.0	90.00	270.38	7,090.0	-2,402.00	-130.1	-9,603.6	9,604.5	0.00	0.00	0.00
15,500.0	90.00	270.38	7,090.0	-2,402.00	-129.5	-9,703.6	9,704.4	0.00	0.00	0.00
15,600.0	90.00	270.38	7,090.0	-2,402.00	-128.8	-9,803.6	9,804.4	0.00	0.00	0.00
15,700.0	90.00	270.38	7,090.0	-2,402.00	-128.1	-9,903.6	9,904.4	0.00	0.00	0.00
15,800.0	90.00	270.38	7,090.0	-2,402.00	-127.5	-10,003.6	10,004.4	0.00	0.00	0.00
15,900.0	90.00	270.38	7,090.0	-2,402.00	-126.8	-10,103.6	10,104.4	0.00	0.00	0.00
16,000.0	90.00	270.38	7,090.0	-2,402.00	-126.1	-10,203.6	10,204.4	0.00	0.00	0.00
16,100.0	90.00	270.38	7,090.0	-2,402.00	-125.5	-10,303.6	10,304.4	0.00	0.00	0.00
16,200.0	90.00	270.38	7,090.0	-2,402.00	-124.8	-10,403.6	10,404.3	0.00	0.00	0.00
16,300.0	90.00	270.38	7,090.0	-2,402.00	-124.1	-10,503.6	10,504.3	0.00	0.00	0.00
16,400.0	90.00	270.38	7,090.0	-2,402.00	-123.5	-10,603.6	10,604.3	0.00	0.00	0.00
16,500.0	90.00	270.38	7,090.0	-2,402.00	-122.8	-10,703.6	10,704.3	0.00	0.00	0.00
16,600.0	90.00	270.38	7,090.0	-2,402.00	-122.1	-10,803.6	10,804.3	0.00	0.00	0.00
16,700.0	90.00	270.38	7,090.0	-2,402.00	-121.5	-10,903.6	10,904.3	0.00	0.00	0.00
16,800.0	90.00	270.38	7,090.0	-2,402.00	-120.8	-11,003.6	11,004.3	0.00	0.00	0.00
16,900.0	90.00	270.38	7,090.0	-2,402.00	-120.1	-11,103.6	11,104.2	0.00	0.00	0.00
17,000.0	90.00	270.38	7,090.0	-2,402.00	-119.5	-11,203.6	11,204.2	0.00	0.00	0.00
17,100.0	90.00	270.38	7,090.0	-2,402.00	-118.8	-11,303.6	11,304.2	0.00	0.00	0.00
17,200.0	90.00	270.38	7,090.0	-2,402.00	-118.1	-11,403.6	11,404.2	0.00	0.00	0.00
BHL - GP-J EVANS C2-20-24										
17,287.2	90.00	270.38	7,090.0	-2,402.00	-117.5	-11,490.7	11,491.4	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well GP-J EVANS C2-20-24
Company:	EXTRACTION OIL & GAS	TVD Reference:	KB-EST @ 4688.0usft (Original Well Elev)
Project:	WELD COUNTY, COLORADO (NAD 83)	MD Reference:	KB-EST @ 4688.0usft (Original Well Elev)
Site:	NE NE SEC. 20 T5N R65W 6th P.M.	North Reference:	True
Well:	GP-J EVANS C2-20-24	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #1		

Formations					
MD (usft)	TVD (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,722.4	3,686.0	PARKMAN			
4,501.1	4,425.0	SUSSEX			
5,038.5	4,935.0	SHANNON			
6,941.1	6,740.0	SHARON SPRINGS			
6,979.7	6,775.0	NIOBRARA			
7,411.0	7,055.0	FORT HAYS			
7,505.2	7,080.0	CODELL			

Plan Annotations				
MD (usft)	TVD (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
100.0	100.0	0.0	0.0	START NUDGE #1 (2°/100ft BUR)
250.0	249.9	-0.5	-3.9	EOB TO 3° INC
292.0	291.9	-0.8	-6.1	END OF TANGENT
442.0	441.8	-1.3	-10.0	EOD TO VERTICAL
2,400.2	2,400.0	-1.3	-10.0	START NUDGE #2 (2°/100ft BUR)
3,318.6	3,302.8	-20.4	-154.7	EOB TO 18.37° INC
6,894.3	6,696.3	-167.8	-1,271.8	KOP (10°/100ft DGLG)
7,612.4	7,090.0	-182.1	-1,816.2	HZ LANDING PNT - GP-J EVANS C2-20-24
17,287.2	7,090.0	-117.5	-11,490.7	BHL - GP-J EVANS C2-20-24