

EXTRACTION OIL & GAS

WELD COUNTY, COLORADO (NAD 83)

NW SW SEC. 21 T3N R68W 6th P.M.

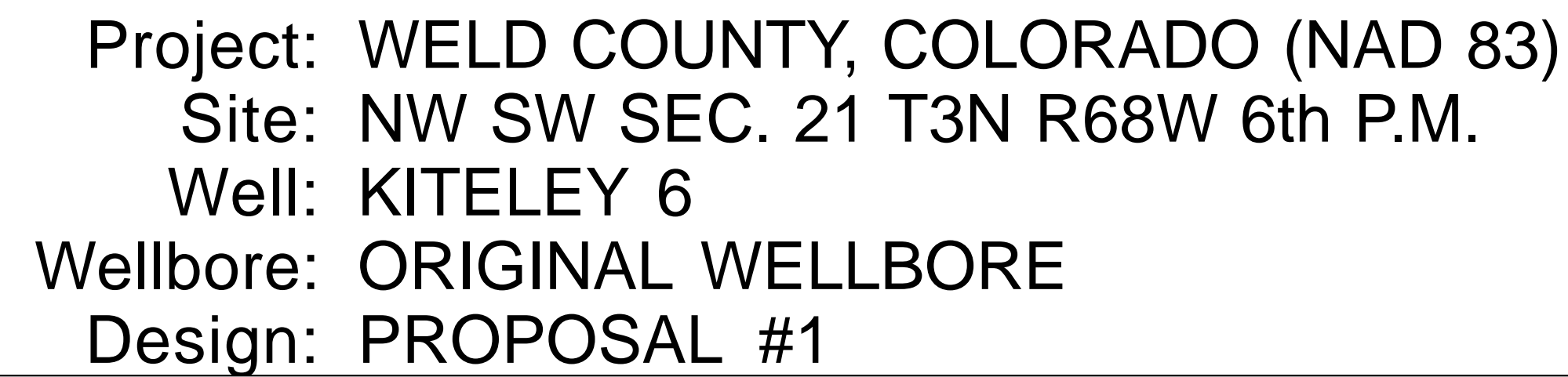
KITELEY 6

ORIGINAL WELLBORE

24 August, 2016

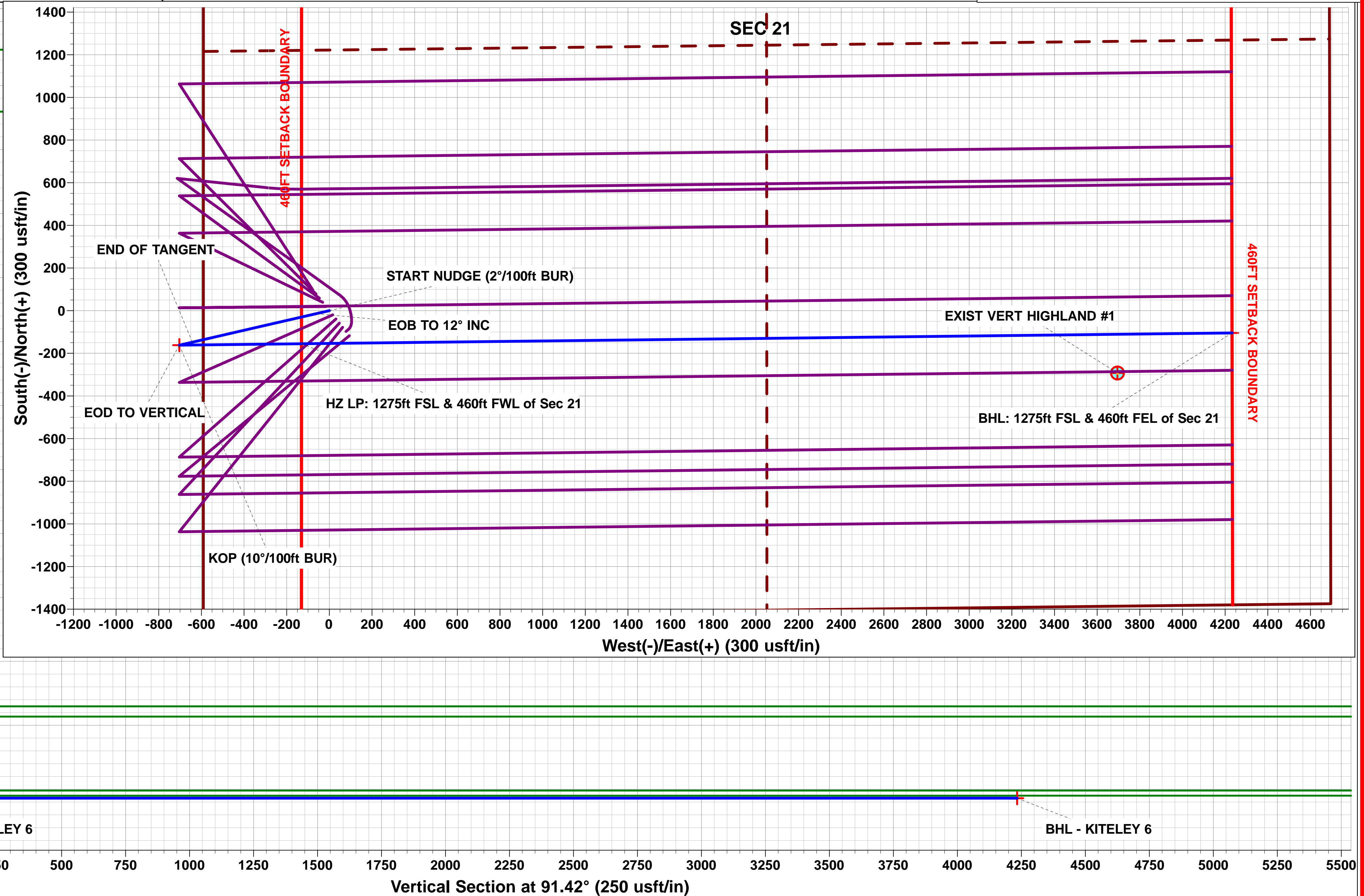
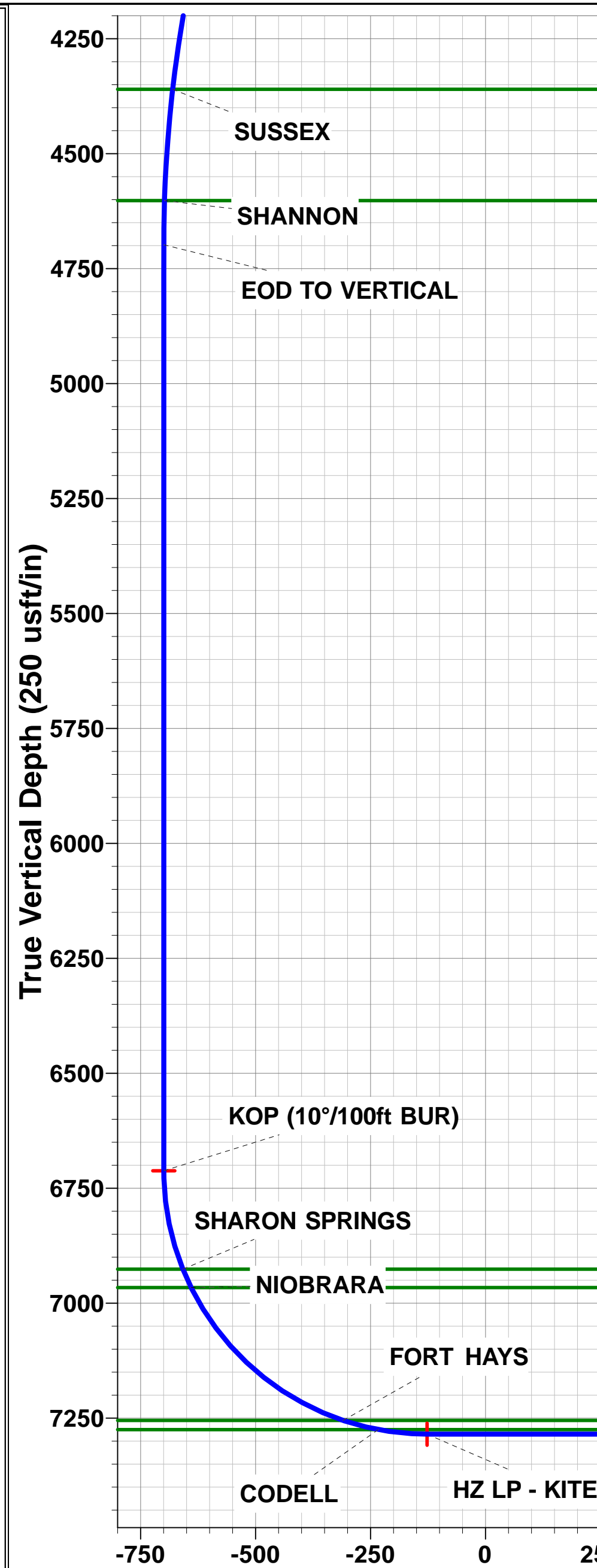
Plan: PROPOSAL #1





The plot displays the wellbore trajectory from the surface to the Kick-off Point (KOP). The Y-axis represents True Vertical Depth (550 usft/in) from 0 to 6500. The X-axis represents the Vertical Section at 257.05° (550 usft/in) from 0 to 3500. The blue curve shows the wellbore path, which starts at the surface (0 depth) and curves downwards. Key points and formations are labeled:

- START NUDGE (2°/100ft BUR)**: Located at approximately 500 ft depth.
- EOB TO 12° INC**: Located at approximately 1000 ft depth.
- PARKMAN**: A horizontal green line at approximately 3500 ft depth.
- END OF TANGENT**: Located at approximately 4000 ft depth.
- SUSSEX**: A horizontal green line at approximately 4300 ft depth.
- SHANNON**: A horizontal green line at approximately 4600 ft depth.
- EOD TO VERTICAL**: Located at approximately 4800 ft depth.
- KOP (10°/100ft BUR)**: Located at approximately 6500 ft depth.



Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well KITELEY 6
Company:	EXTRACTION OIL & GAS	TVD Reference:	KB-EST @ 5006.0usft (Original Well Elev)
Project:	WELD COUNTY, COLORADO (NAD 83)	MD Reference:	KB-EST @ 5006.0usft (Original Well Elev)
Site:	NW SW SEC. 21 T3N R68W 6th P.M.	North Reference:	True
Well:	KITELEY 6	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. 21 T3N R68W 6th P.M.		
Site Position:		Northing:	1,319,048.75 usft
From:	Lat/Long	Easting:	3,135,328.07 usft
Position Uncertainty:	0.0 usft	Slot Radius:	1.10000ft
		Latitude:	40.208171
		Longitude:	-105.015469
		Grid Convergence:	0.31 °

Well	KITELEY 6		
Well Position	+N-S	-97.6 usft	Northing:
	+E-W	78.2 usft	Easting:
Position Uncertainty		0.0 usft	Wellhead Elevation:
			Latitude:
			Longitude:
			Ground Level:

Wellbore	ORIGINAL WELLBORE				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	24/08/2016	8.41	66.68	52,357

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 (°)
	7,285.0	0.0	0.0	91.42

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	-5,006.0	0.0	0.0	0.00	0.00	0.00	0.00	
700.0	0.00	0.00	700.0	-4,306.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,300.2	12.00	257.05	1,295.8	-3,710.2	-14.0	-61.0	2.00	2.00	0.00	257.05	
4,169.3	12.00	257.05	4,102.2	-903.8	-147.8	-642.6	0.00	0.00	0.00	0.00	
4,769.5	0.00	0.00	4,698.0	-308.0	-161.8	-703.6	2.00	-2.00	0.00	180.00	
6,783.5	0.00	0.00	6,712.0	1,706.0	-161.8	-703.6	0.00	0.00	0.00	0.00	KOP - KITELEY 6
7,683.5	90.00	89.34	7,285.0	2,279.0	-155.2	-130.7	10.00	10.00	0.00	89.34	
12,046.9	90.00	89.33	7,285.0	2,279.0	-104.5	4,232.4	0.00	0.00	0.00	-96.17	BHL - KITELEY 6

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Well:	KITELEY 6	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: 1429ft FSL & 591ft FWL of Sec 21										
0.0	0.00	0.00	0.0	5,006.00	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	4,906.00	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	4,806.00	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	4,706.00	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	4,606.00	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	4,506.00	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	4,406.00	0.0	0.0	0.0	0.00	0.00	0.00
START NUDGE (2°/100ft BUR)										
700.0	0.00	0.00	700.0	4,306.00	0.0	0.0	0.0	0.00	0.00	0.00
800.0	2.00	257.05	800.0	4,206.02	-0.4	-1.7	-1.7	2.00	2.00	0.00
900.0	4.00	257.05	899.8	4,106.16	-1.6	-6.8	-6.8	2.00	2.00	0.00
1,000.0	6.00	257.05	999.5	4,006.55	-3.5	-15.3	-15.2	2.00	2.00	0.00
1,100.0	8.00	257.05	1,098.7	3,907.30	-6.2	-27.2	-27.0	2.00	2.00	0.00
1,200.0	10.00	257.05	1,197.5	3,808.53	-9.8	-42.4	-42.2	2.00	2.00	0.00
1,300.0	12.00	257.05	1,295.6	3,710.38	-14.0	-61.0	-60.6	2.00	2.00	0.00
EOB TO 12° INC										
1,300.2	12.00	257.05	1,295.8	3,710.22	-14.0	-61.0	-60.7	2.00	2.00	0.00
1,400.0	12.00	257.05	1,393.4	3,612.56	-18.7	-81.3	-80.8	0.00	0.00	0.00
1,500.0	12.00	257.05	1,491.3	3,514.75	-23.4	-101.5	-100.9	0.00	0.00	0.00
1,600.0	12.00	257.05	1,589.1	3,416.94	-28.0	-121.8	-121.1	0.00	0.00	0.00
1,700.0	12.00	257.05	1,686.9	3,319.12	-32.7	-142.1	-141.2	0.00	0.00	0.00
1,800.0	12.00	257.05	1,784.7	3,221.31	-37.3	-162.3	-161.4	0.00	0.00	0.00
1,900.0	12.00	257.05	1,882.5	3,123.50	-42.0	-182.6	-181.5	0.00	0.00	0.00
2,000.0	12.00	257.05	1,980.3	3,025.68	-46.7	-202.9	-201.7	0.00	0.00	0.00
2,100.0	12.00	257.05	2,078.1	2,927.87	-51.3	-223.2	-221.8	0.00	0.00	0.00
2,200.0	12.00	257.05	2,175.9	2,830.05	-56.0	-243.4	-242.0	0.00	0.00	0.00
2,300.0	12.00	257.05	2,273.8	2,732.24	-60.6	-263.7	-262.1	0.00	0.00	0.00
2,400.0	12.00	257.05	2,371.6	2,634.43	-65.3	-284.0	-282.3	0.00	0.00	0.00
2,500.0	12.00	257.05	2,469.4	2,536.61	-70.0	-304.2	-302.4	0.00	0.00	0.00
2,600.0	12.00	257.05	2,567.2	2,438.80	-74.6	-324.5	-322.5	0.00	0.00	0.00
2,700.0	12.00	257.05	2,665.0	2,340.99	-79.3	-344.8	-342.7	0.00	0.00	0.00
2,800.0	12.00	257.05	2,762.8	2,243.17	-83.9	-365.0	-362.8	0.00	0.00	0.00
2,900.0	12.00	257.05	2,860.6	2,145.36	-88.6	-385.3	-383.0	0.00	0.00	0.00
3,000.0	12.00	257.05	2,958.5	2,047.55	-93.3	-405.6	-403.1	0.00	0.00	0.00
3,100.0	12.00	257.05	3,056.3	1,949.73	-97.9	-425.8	-423.3	0.00	0.00	0.00
3,200.0	12.00	257.05	3,154.1	1,851.92	-102.6	-446.1	-443.4	0.00	0.00	0.00
3,300.0	12.00	257.05	3,251.9	1,754.11	-107.2	-466.4	-463.6	0.00	0.00	0.00
3,400.0	12.00	257.05	3,349.7	1,656.29	-111.9	-486.6	-483.7	0.00	0.00	0.00
3,500.0	12.00	257.05	3,447.5	1,558.48	-116.6	-506.9	-503.9	0.00	0.00	0.00
3,600.0	12.00	257.05	3,545.3	1,460.66	-121.2	-527.2	-524.0	0.00	0.00	0.00
PARKMAN										
3,604.8	12.00	257.05	3,550.0	1,456.00	-121.4	-528.1	-525.0	0.00	0.00	0.00
3,700.0	12.00	257.05	3,643.1	1,362.85	-125.9	-547.4	-544.2	0.00	0.00	0.00
3,800.0	12.00	257.05	3,741.0	1,265.04	-130.5	-567.7	-564.3	0.00	0.00	0.00
3,900.0	12.00	257.05	3,838.8	1,167.22	-135.2	-588.0	-584.5	0.00	0.00	0.00
4,000.0	12.00	257.05	3,936.6	1,069.41	-139.9	-608.2	-604.6	0.00	0.00	0.00
4,100.0	12.00	257.05	4,034.4	971.60	-144.5	-628.5	-624.7	0.00	0.00	0.00
END OF TANGENT										
4,169.3	12.00	257.05	4,102.2	903.78	-147.8	-642.6	-638.7	0.00	0.00	0.00
4,200.0	11.39	257.05	4,132.3	873.75	-149.2	-648.6	-644.7	2.00	-2.00	0.00
4,300.0	9.39	257.05	4,230.6	775.39	-153.2	-666.2	-662.2	2.00	-2.00	0.00
4,400.0	7.39	257.05	4,329.5	676.47	-156.5	-680.4	-676.3	2.00	-2.00	0.00

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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										
4,430.7	6.78	257.05	4,360.0	646.00	-157.3	-684.1	-680.0	2.00	-2.00	0.00
4,500.0	5.39	257.05	4,428.9	577.10	-159.0	-691.3	-687.1	2.00	-2.00	0.00
4,600.0	3.39	257.05	4,528.6	477.39	-160.7	-698.7	-694.5	2.00	-2.00	0.00
SHANNON										
4,673.5	1.92	257.05	4,602.0	404.00	-161.4	-702.0	-697.8	2.00	-2.00	0.00
4,700.0	1.39	257.05	4,628.5	377.49	-161.6	-702.8	-698.6	2.00	-2.00	0.00
EOD TO VERTICAL										
4,769.5	0.00	0.00	4,698.0	308.00	-161.8	-703.6	-699.4	2.00	-2.00	0.00
4,800.0	0.00	0.00	4,728.5	277.49	-161.8	-703.6	-699.4	0.00	0.00	0.00
4,900.0	0.00	0.00	4,828.5	177.49	-161.8	-703.6	-699.4	0.00	0.00	0.00
5,000.0	0.00	0.00	4,928.5	77.49	-161.8	-703.6	-699.4	0.00	0.00	0.00
5,100.0	0.00	0.00	5,028.5	-22.51	-161.8	-703.6	-699.4	0.00	0.00	0.00
5,200.0	0.00	0.00	5,128.5	-122.51	-161.8	-703.6	-699.4	0.00	0.00	0.00
5,300.0	0.00	0.00	5,228.5	-222.51	-161.8	-703.6	-699.4	0.00	0.00	0.00
5,400.0	0.00	0.00	5,328.5	-322.51	-161.8	-703.6	-699.4	0.00	0.00	0.00
5,500.0	0.00	0.00	5,428.5	-422.51	-161.8	-703.6	-699.4	0.00	0.00	0.00
5,600.0	0.00	0.00	5,528.5	-522.51	-161.8	-703.6	-699.4	0.00	0.00	0.00
5,700.0	0.00	0.00	5,628.5	-622.51	-161.8	-703.6	-699.4	0.00	0.00	0.00
5,800.0	0.00	0.00	5,728.5	-722.51	-161.8	-703.6	-699.4	0.00	0.00	0.00
5,900.0	0.00	0.00	5,828.5	-822.51	-161.8	-703.6	-699.4	0.00	0.00	0.00
6,000.0	0.00	0.00	5,928.5	-922.51	-161.8	-703.6	-699.4	0.00	0.00	0.00
6,100.0	0.00	0.00	6,028.5	-1,022.51	-161.8	-703.6	-699.4	0.00	0.00	0.00
6,200.0	0.00	0.00	6,128.5	-1,122.51	-161.8	-703.6	-699.4	0.00	0.00	0.00
6,300.0	0.00	0.00	6,228.5	-1,222.51	-161.8	-703.6	-699.4	0.00	0.00	0.00
6,400.0	0.00	0.00	6,328.5	-1,322.51	-161.8	-703.6	-699.4	0.00	0.00	0.00
6,500.0	0.00	0.00	6,428.5	-1,422.51	-161.8	-703.6	-699.4	0.00	0.00	0.00
6,600.0	0.00	0.00	6,528.5	-1,522.51	-161.8	-703.6	-699.4	0.00	0.00	0.00
6,700.0	0.00	0.00	6,628.5	-1,622.51	-161.8	-703.6	-699.4	0.00	0.00	0.00
KOP (10°/100ft BUR)										
6,783.5	0.00	0.00	6,712.0	-1,706.00	-161.8	-703.6	-699.4	0.00	0.00	0.00
6,800.0	1.65	89.34	6,728.5	-1,722.51	-161.8	-703.4	-699.2	10.00	10.00	0.00
6,900.0	11.65	89.34	6,827.7	-1,821.71	-161.7	-691.8	-687.6	10.00	10.00	0.00
7,000.0	21.65	89.34	6,923.4	-1,917.39	-161.3	-663.2	-659.0	10.00	10.00	0.00
SHARON SPRINGS										
7,002.8	21.93	89.34	6,926.0	-1,920.00	-161.3	-662.1	-658.0	10.00	10.00	0.00
NIOBRARA										
7,046.6	26.32	89.34	6,966.0	-1,960.00	-161.1	-644.2	-640.1	10.00	10.00	0.00
7,100.0	31.65	89.34	7,012.7	-2,006.65	-160.8	-618.4	-614.2	10.00	10.00	0.00
7,200.0	41.65	89.34	7,092.8	-2,086.78	-160.1	-558.8	-554.6	10.00	10.00	0.00
7,300.0	51.65	89.34	7,161.3	-2,155.34	-159.3	-486.2	-482.1	10.00	10.00	0.00
7,400.0	61.65	89.34	7,216.2	-2,210.24	-158.3	-402.7	-398.7	10.00	10.00	0.00
FORT HAYS										
7,497.4	71.39	89.34	7,255.0	-2,249.00	-157.3	-313.5	-309.5	10.00	10.00	0.00
7,500.0	71.65	89.34	7,255.8	-2,249.83	-157.3	-311.0	-307.1	10.00	10.00	0.00
CODELL										
7,576.5	79.30	89.34	7,275.0	-2,269.00	-156.4	-237.0	-233.1	10.00	10.00	0.00
7,600.0	81.65	89.34	7,278.9	-2,272.89	-156.2	-213.9	-210.0	10.00	10.00	0.00
HZ LP: 1275ft FSL & 460ft FWL of Sec 21										
7,683.5	90.00	89.34	7,285.0	-2,278.96	-155.2	-130.7	-126.8	10.00	10.00	0.00
7,700.0	90.00	89.34	7,285.0	-2,278.96	-155.0	-114.2	-110.3	0.00	0.00	0.00
7,800.0	90.00	89.34	7,285.0	-2,278.96	-153.9	-14.2	-10.4	0.00	0.00	0.00
7,900.0	90.00	89.34	7,285.0	-2,278.96	-152.7	85.8	89.6	0.00	0.00	0.00

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Design:	PROPOSAL #1		

Planned Survey										
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8,000.0	90.00	89.34	7,285.0	-2,278.96	-151.6	185.8	189.5	0.00	0.00	0.00
8,100.0	90.00	89.34	7,285.0	-2,278.96	-150.4	285.8	289.4	0.00	0.00	0.00
8,200.0	90.00	89.34	7,285.0	-2,278.96	-149.2	385.8	389.4	0.00	0.00	0.00
8,300.0	90.00	89.34	7,285.0	-2,278.96	-148.1	485.8	489.3	0.00	0.00	0.00
8,400.0	90.00	89.34	7,285.0	-2,278.96	-146.9	585.8	589.2	0.00	0.00	0.00
8,500.0	90.00	89.34	7,285.0	-2,278.96	-145.8	685.8	689.2	0.00	0.00	0.00
8,600.0	90.00	89.34	7,285.0	-2,278.96	-144.6	785.8	789.1	0.00	0.00	0.00
8,700.0	90.00	89.34	7,285.0	-2,278.96	-143.5	885.8	889.0	0.00	0.00	0.00
8,800.0	90.00	89.34	7,285.0	-2,278.96	-142.3	985.8	989.0	0.00	0.00	0.00
8,900.0	90.00	89.34	7,285.0	-2,278.96	-141.2	1,085.7	1,088.9	0.00	0.00	0.00
9,000.0	90.00	89.34	7,285.0	-2,278.96	-140.0	1,185.7	1,188.8	0.00	0.00	0.00
9,100.0	90.00	89.34	7,285.0	-2,278.96	-138.8	1,285.7	1,288.8	0.00	0.00	0.00
9,200.0	90.00	89.34	7,285.0	-2,278.96	-137.7	1,385.7	1,388.7	0.00	0.00	0.00
9,300.0	90.00	89.34	7,285.0	-2,278.96	-136.5	1,485.7	1,488.6	0.00	0.00	0.00
9,400.0	90.00	89.34	7,285.0	-2,278.96	-135.4	1,585.7	1,588.6	0.00	0.00	0.00
9,500.0	90.00	89.34	7,285.0	-2,278.97	-134.2	1,685.7	1,688.5	0.00	0.00	0.00
9,600.0	90.00	89.34	7,285.0	-2,278.97	-133.0	1,785.7	1,788.4	0.00	0.00	0.00
9,700.0	90.00	89.34	7,285.0	-2,278.97	-131.9	1,885.7	1,888.4	0.00	0.00	0.00
9,800.0	90.00	89.34	7,285.0	-2,278.97	-130.7	1,985.7	1,988.3	0.00	0.00	0.00
9,900.0	90.00	89.33	7,285.0	-2,278.97	-129.6	2,085.7	2,088.2	0.00	0.00	0.00
10,000.0	90.00	89.33	7,285.0	-2,278.97	-128.4	2,185.7	2,188.2	0.00	0.00	0.00
10,100.0	90.00	89.33	7,285.0	-2,278.97	-127.2	2,285.7	2,288.1	0.00	0.00	0.00
10,200.0	90.00	89.33	7,285.0	-2,278.97	-126.1	2,385.7	2,388.0	0.00	0.00	0.00
10,300.0	90.00	89.33	7,285.0	-2,278.97	-124.9	2,485.7	2,488.0	0.00	0.00	0.00
10,400.0	90.00	89.33	7,285.0	-2,278.97	-123.8	2,585.6	2,587.9	0.00	0.00	0.00
10,500.0	90.00	89.33	7,285.0	-2,278.98	-122.6	2,685.6	2,687.8	0.00	0.00	0.00
10,600.0	90.00	89.33	7,285.0	-2,278.98	-121.4	2,785.6	2,787.8	0.00	0.00	0.00
10,700.0	90.00	89.33	7,285.0	-2,278.98	-120.3	2,885.6	2,887.7	0.00	0.00	0.00
10,800.0	90.00	89.33	7,285.0	-2,278.98	-119.1	2,985.6	2,987.6	0.00	0.00	0.00
10,900.0	90.00	89.33	7,285.0	-2,278.98	-117.9	3,085.6	3,087.6	0.00	0.00	0.00
11,000.0	90.00	89.33	7,285.0	-2,278.98	-116.8	3,185.6	3,187.5	0.00	0.00	0.00
11,100.0	90.00	89.33	7,285.0	-2,278.98	-115.6	3,285.6	3,287.5	0.00	0.00	0.00
11,200.0	90.00	89.33	7,285.0	-2,278.99	-114.4	3,385.6	3,387.4	0.00	0.00	0.00
11,300.0	90.00	89.33	7,285.0	-2,278.99	-113.3	3,485.6	3,487.3	0.00	0.00	0.00
11,400.0	90.00	89.33	7,285.0	-2,278.99	-112.1	3,585.6	3,587.3	0.00	0.00	0.00
11,500.0	90.00	89.33	7,285.0	-2,278.99	-110.9	3,685.6	3,687.2	0.00	0.00	0.00
11,600.0	90.00	89.33	7,285.0	-2,278.99	-109.8	3,785.6	3,787.1	0.00	0.00	0.00
11,700.0	90.00	89.33	7,285.0	-2,278.99	-108.6	3,885.6	3,887.1	0.00	0.00	0.00
11,800.0	90.00	89.33	7,285.0	-2,279.00	-107.4	3,985.5	3,987.0	0.00	0.00	0.00
11,900.0	90.00	89.33	7,285.0	-2,279.00	-106.3	4,085.5	4,086.9	0.00	0.00	0.00
12,000.0	90.00	89.33	7,285.0	-2,279.00	-105.1	4,185.5	4,186.9	0.00	0.00	0.00
BHL: 1275ft FSL & 460ft FEL of Sec 21										
12,046.9	90.00	89.33	7,285.0	-2,279.00	-104.5	4,232.4	4,233.7	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well KITELEY 6
Company:	EXTRACTION OIL & GAS	TVD Reference:	KB-EST @ 5006.0usft (Original Well Elev)
Project:	WELD COUNTY, COLORADO (NAD 83)	MD Reference:	KB-EST @ 5006.0usft (Original Well Elev)
Site:	NW SW SEC. 21 T3N R68W 6th P.M.	North Reference:	True
Well:	KITELEY 6	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #1		

Formations

MD (usft)	TVD (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,604.8	3,550.0	PARKMAN			
4,430.7	4,360.0	SUSSEX			
4,673.5	4,602.0	SHANNON			
7,002.8	6,926.0	SHARON SPRINGS			
7,046.6	6,966.0	NIOBRARA			
7,497.4	7,255.0	FORT HAYS			
7,576.5	7,275.0	CODELL			

Plan Annotations

MD (usft)	TVD (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
0.0	0.0	0.0	0.0	SHL: 1429ft FSL & 591ft FWL of Sec 21
700.0	700.0	0.0	0.0	START NUDGE (2°/100ft BUR)
1,300.2	1,295.8	-14.0	-61.0	EOB TO 12° INC
4,169.3	4,102.2	-147.8	-642.6	END OF TANGENT
4,769.5	4,698.0	-161.8	-703.6	EOD TO VERTICAL
6,783.5	6,712.0	-161.8	-703.6	KOP (10°/100ft BUR)
7,683.5	7,285.0	-155.2	-130.7	HZ LP: 1275ft FSL & 460ft FWL of Sec 21
12,046.9	7,285.0	-104.5	4,232.4	BHL: 1275ft FSL & 460ft FEL of Sec 21