

EXTRACTION OIL & GAS

WELD COUNTY, COLORADO (NAD 83)

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

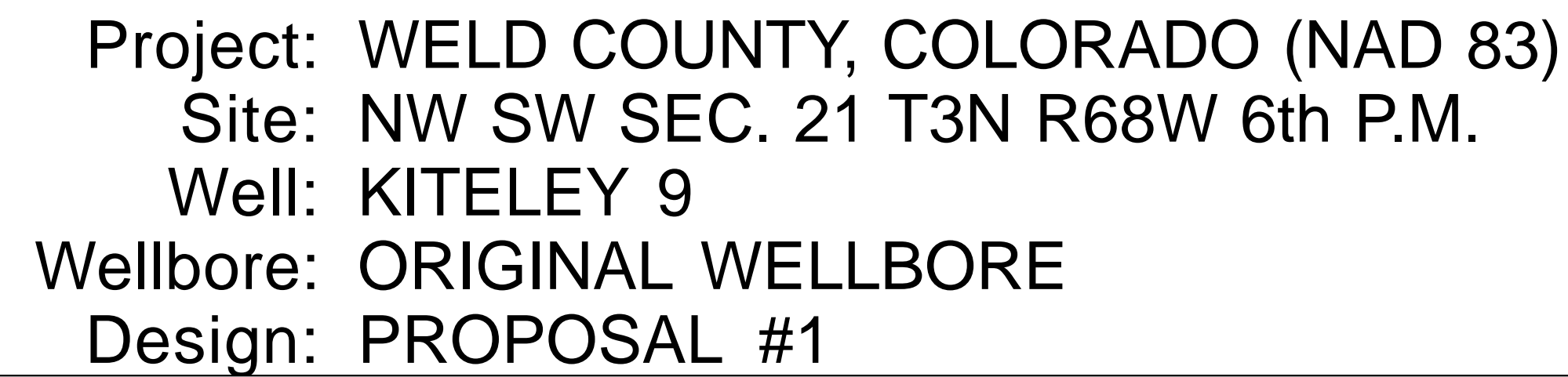
KITELEY 9

ORIGINAL WELLBORE

24 August, 2016

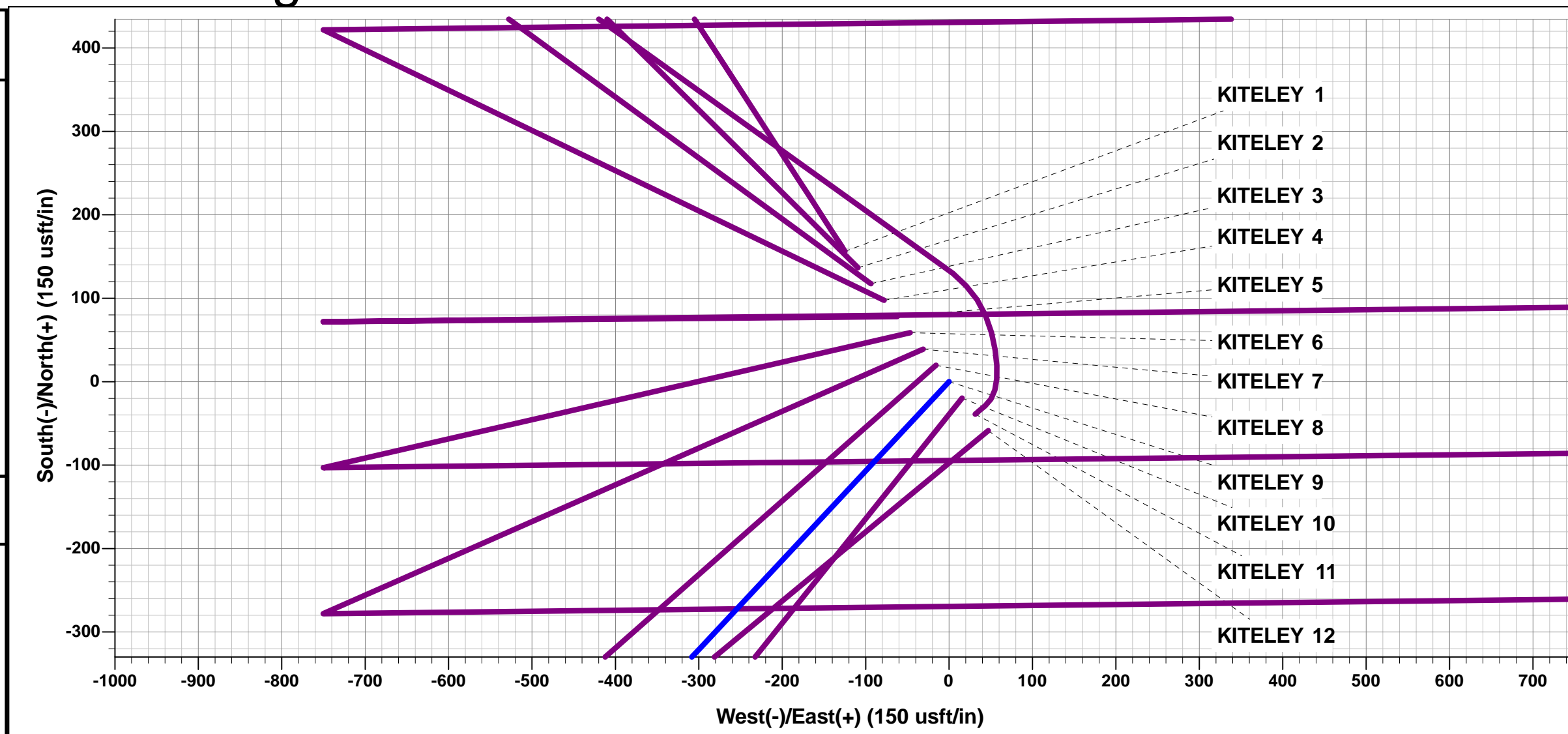
Plan: PROPOSAL #1





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: 1369ft FSL & 637ft FWL of Sec 21
400.0	400.0	0.00	0.00	0.0	0.0	0.0	0.0	START NUDGE (2°/100ft BUR)
995.4	999.8	12.00	223.05	-45.7	-42.7	-34.0	62.6	EOB TO 12" INC
5580.6	5687.3	12.00	223.05	-757.6	-707.8	-563.9	1036.8	END OF TANGENT
6176.0	6287.1	0.00	0.00	-803.3	-750.5	-598.0	1099.3	EOD TO VERTICAL
6712.0	6823.1	0.00	0.00	-803.3	-750.5	-598.0	1099.3	KOP (10°/100ft BUR)
7285.0	7723.1	90.00	89.34	-796.7	-177.6	-35.1	1672.3	HZ LP: 575ft FSL & 460ft FWL of Sec 21
7285.0	12088.3	90.00	89.33	-746.1	4187.3	4253.2	6037.5	BHL: 575ft FSL & 460ft FEL of Sec 21

WELLBORE TARGET DETAILS (LAT/LONG)					
Name	TVD	+N/-S	+E/-W	Latitude	Longitude
KOP - KITELEY 9	6712.0	-803.3	-750.5	40.205537	-105.017709
BHL - KITELEY 9	7285.0	-746.1	4187.3	40.205693	-105.000031
HZ LP - KITELEY 9	7285.0	-796.7	-177.6	40.205555	-105.015658



FORMATION TOP DETAILS		
TVDPPath	MDPath	Formation
3550.0	3611.4	PARKMAN
4360.0	4439.5	SUSSEX
4602.0	4686.9	SHANNON
6926.0	7042.4	SHARON SPRINGS
6966.0	7086.3	NIobrara
7255.0	7537.0	FORT HAYS
7275.0	7616.1	CODELL

PROPOSED LOCAL COORDINATES

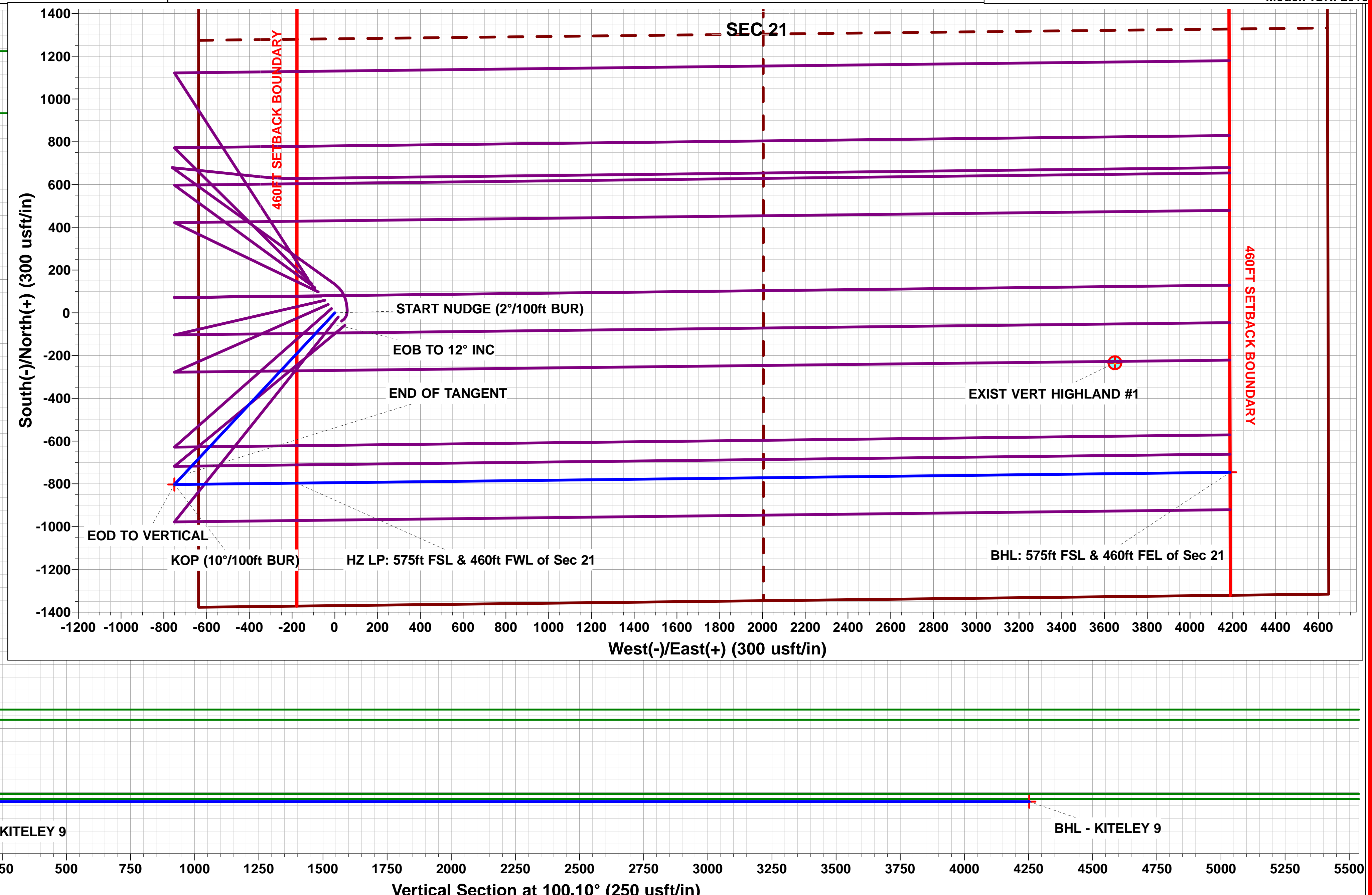
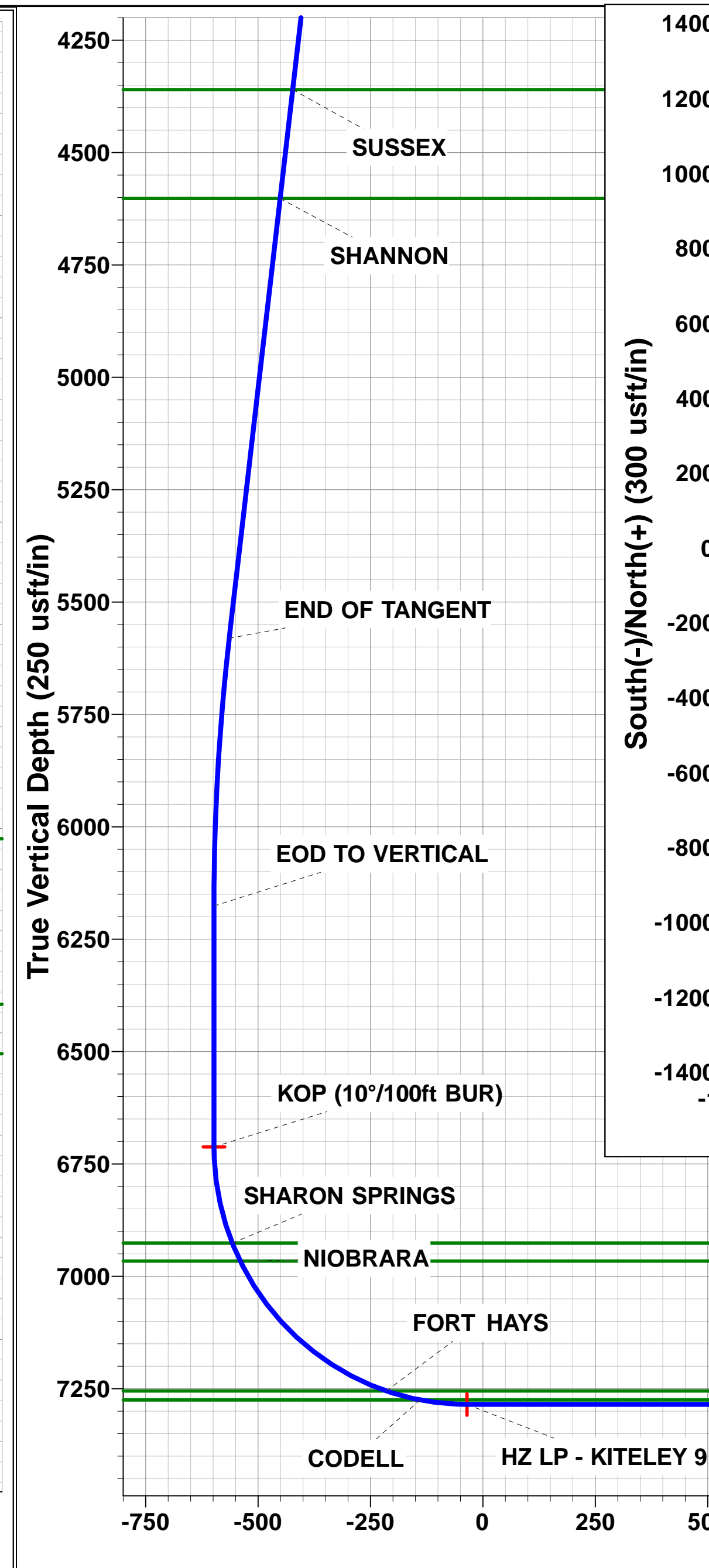
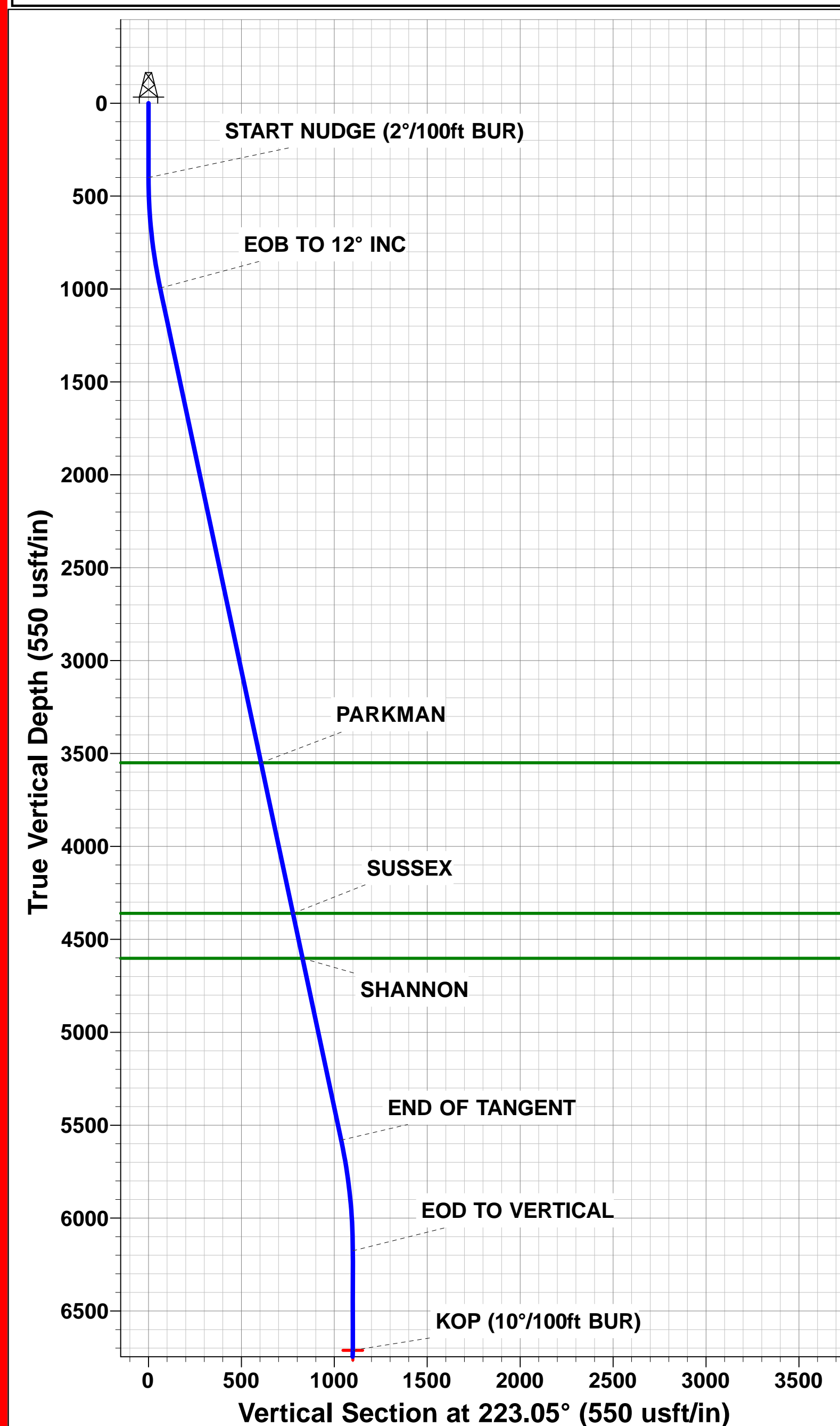
SHL: 1369ft FSL & 637ft FWL of Sec 21

LP: 575ft FSL & 460ft FWL of Sec 21

BHL: 575ft FSL & 460ft FEL of Sec 21

Azimuths to True North
Magnetic North: 8.41°

Magnetic Field
Strength: 52356.8snT
Dip Angle: 66.68°
Date: 24/08/2016
Model: IGRF2015



Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well KITELEY 9
Company:	EXTRACTION OIL & GAS	TVD Reference:	KB-EST @ 5004.0usft (Original Well Elev)
Project:	WELD COUNTY, COLORADO (NAD 83)	MD Reference:	KB-EST @ 5004.0usft (Original Well Elev)
Site:	NW SW SEC. 21 T3N R68W 6th P.M.	North Reference:	True
Well:	KITELEY 9	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 9		
Well Position	+N/-S	-156.3 usft	Northing:
	+E/-W	124.9 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	100.10

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	-5,004.0	0.0	0.0	0.00	0.00	0.00	0.00	
400.0	0.00	0.00	400.0	-4,604.0	0.0	0.0	0.00	0.00	0.00	0.00	
999.8	12.00	223.05	995.4	-4,008.6	-45.7	-42.7	2.00	2.00	0.00	223.05	
5,687.3	12.00	223.05	5,580.6	576.6	-757.6	-707.8	0.00	0.00	0.00	0.00	
6,287.1	0.00	0.00	6,176.0	1,172.0	-803.3	-750.5	2.00	-2.00	0.00	180.00	
6,823.1	0.00	0.00	6,712.0	1,708.0	-803.3	-750.5	0.00	0.00	0.00	0.00	KOP - KITELEY 9
7,723.1	90.00	89.34	7,285.0	2,281.0	-796.7	-177.6	10.00	10.00	0.00	89.34	
12,088.3	90.00	89.33	7,285.0	2,281.0	-746.1	4,187.3	0.00	0.00	0.00	-97.26	BHL - KITELEY 9

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Project:	WELD COUNTY, COLORADO (NAD 83)	MD Reference:	KB-EST @ 5004.0usft (Original Well Elev)
Site:	NW SW SEC. 21 T3N R68W 6th P.M.	North Reference:	True
Well:	KITELEY 9	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: 1369ft FSL & 637ft FWL of Sec 21										
0.0	0.00	0.00	0.0	5,004.00	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	4,904.00	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	4,804.00	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	4,704.00	0.0	0.0	0.0	0.00	0.00	0.00
START NUDGE (2°/100ft BUR)										
400.0	0.00	0.00	400.0	4,604.00	0.0	0.0	0.0	0.00	0.00	0.00
500.0	2.00	223.05	500.0	4,504.02	-1.3	-1.2	-0.9	2.00	2.00	0.00
600.0	4.00	223.05	599.8	4,404.16	-5.1	-4.8	-3.8	2.00	2.00	0.00
700.0	6.00	223.05	699.5	4,304.55	-11.5	-10.7	-8.5	2.00	2.00	0.00
800.0	8.00	223.05	798.7	4,205.30	-20.4	-19.0	-15.2	2.00	2.00	0.00
900.0	10.00	223.05	897.5	4,106.53	-31.8	-29.7	-23.7	2.00	2.00	0.00
EOB TO 12° INC										
999.8	12.00	223.05	995.4	4,008.60	-45.7	-42.7	-34.0	2.00	2.00	0.00
1,000.0	12.00	223.05	995.6	4,008.38	-45.7	-42.7	-34.1	0.00	0.00	0.00
1,100.0	12.00	223.05	1,093.4	3,910.56	-60.9	-56.9	-45.4	0.00	0.00	0.00
1,200.0	12.00	223.05	1,191.3	3,812.74	-76.1	-71.1	-56.7	0.00	0.00	0.00
1,300.0	12.00	223.05	1,289.1	3,714.93	-91.3	-85.3	-68.0	0.00	0.00	0.00
1,400.0	12.00	223.05	1,386.9	3,617.11	-106.5	-99.5	-79.3	0.00	0.00	0.00
1,500.0	12.00	223.05	1,484.7	3,519.29	-121.7	-113.7	-90.6	0.00	0.00	0.00
1,600.0	12.00	223.05	1,582.5	3,421.48	-136.9	-127.9	-101.9	0.00	0.00	0.00
1,700.0	12.00	223.05	1,680.3	3,323.66	-152.1	-142.1	-113.2	0.00	0.00	0.00
1,800.0	12.00	223.05	1,778.2	3,225.85	-167.2	-156.2	-124.5	0.00	0.00	0.00
1,900.0	12.00	223.05	1,876.0	3,128.03	-182.4	-170.4	-135.8	0.00	0.00	0.00
2,000.0	12.00	223.05	1,973.8	3,030.21	-197.6	-184.6	-147.1	0.00	0.00	0.00
2,100.0	12.00	223.05	2,071.6	2,932.40	-212.8	-198.8	-158.4	0.00	0.00	0.00
2,200.0	12.00	223.05	2,169.4	2,834.58	-228.0	-213.0	-169.7	0.00	0.00	0.00
2,300.0	12.00	223.05	2,267.2	2,736.76	-243.2	-227.2	-181.0	0.00	0.00	0.00
2,400.0	12.00	223.05	2,365.1	2,638.95	-258.4	-241.4	-192.3	0.00	0.00	0.00
2,500.0	12.00	223.05	2,462.9	2,541.13	-273.5	-255.6	-203.6	0.00	0.00	0.00
2,600.0	12.00	223.05	2,560.7	2,443.31	-288.7	-269.8	-214.9	0.00	0.00	0.00
2,700.0	12.00	223.05	2,658.5	2,345.50	-303.9	-283.9	-226.2	0.00	0.00	0.00
2,800.0	12.00	223.05	2,756.3	2,247.68	-319.1	-298.1	-237.5	0.00	0.00	0.00
2,900.0	12.00	223.05	2,854.1	2,149.86	-334.3	-312.3	-248.8	0.00	0.00	0.00
3,000.0	12.00	223.05	2,952.0	2,052.05	-349.5	-326.5	-260.1	0.00	0.00	0.00
3,100.0	12.00	223.05	3,049.8	1,954.23	-364.7	-340.7	-271.4	0.00	0.00	0.00
3,200.0	12.00	223.05	3,147.6	1,856.42	-379.8	-354.9	-282.7	0.00	0.00	0.00
3,300.0	12.00	223.05	3,245.4	1,758.60	-395.0	-369.1	-294.1	0.00	0.00	0.00
3,400.0	12.00	223.05	3,343.2	1,660.78	-410.2	-383.3	-305.4	0.00	0.00	0.00
3,500.0	12.00	223.05	3,441.0	1,562.97	-425.4	-397.4	-316.7	0.00	0.00	0.00
3,600.0	12.00	223.05	3,538.9	1,465.15	-440.6	-411.6	-328.0	0.00	0.00	0.00
PARKMAN										
3,611.4	12.00	223.05	3,550.0	1,454.00	-442.3	-413.3	-329.3	0.00	0.00	0.00
3,700.0	12.00	223.05	3,636.7	1,367.33	-455.8	-425.8	-339.3	0.00	0.00	0.00
3,800.0	12.00	223.05	3,734.5	1,269.52	-471.0	-440.0	-350.6	0.00	0.00	0.00
3,900.0	12.00	223.05	3,832.3	1,171.70	-486.2	-454.2	-361.9	0.00	0.00	0.00
4,000.0	12.00	223.05	3,930.1	1,073.88	-501.3	-468.4	-373.2	0.00	0.00	0.00
4,100.0	12.00	223.05	4,027.9	976.07	-516.5	-482.6	-384.5	0.00	0.00	0.00
4,200.0	12.00	223.05	4,125.7	878.25	-531.7	-496.8	-395.8	0.00	0.00	0.00
4,300.0	12.00	223.05	4,223.6	780.43	-546.9	-511.0	-407.1	0.00	0.00	0.00
4,400.0	12.00	223.05	4,321.4	682.62	-562.1	-525.1	-418.4	0.00	0.00	0.00
SUSSEX										
4,439.5	12.00	223.05	4,360.0	644.00	-568.1	-530.7	-422.9	0.00	0.00	0.00
4,500.0	12.00	223.05	4,419.2	584.80	-577.3	-539.3	-429.7	0.00	0.00	0.00

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Site:	NW SW SEC. 21 T3N R68W 6th P.M.	North Reference:	True
Well:	KITELEY 9	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)
4,600.0	12.00	223.05	4,517.0	486.98	-592.5	-553.5	-441.0	0.00	0.00	0.00
SHANNON										
4,686.9	12.00	223.05	4,602.0	402.00	-605.7	-565.8	-450.8	0.00	0.00	0.00
4,700.0	12.00	223.05	4,614.8	389.17	-607.6	-567.7	-452.3	0.00	0.00	0.00
4,800.0	12.00	223.05	4,712.6	291.35	-622.8	-581.9	-463.6	0.00	0.00	0.00
4,900.0	12.00	223.05	4,810.5	193.54	-638.0	-596.1	-474.9	0.00	0.00	0.00
5,000.0	12.00	223.05	4,908.3	95.72	-653.2	-610.3	-486.2	0.00	0.00	0.00
5,100.0	12.00	223.05	5,006.1	-2.10	-668.4	-624.5	-497.5	0.00	0.00	0.00
5,200.0	12.00	223.05	5,103.9	-99.91	-683.6	-638.7	-508.8	0.00	0.00	0.00
5,300.0	12.00	223.05	5,201.7	-197.73	-698.8	-652.8	-520.1	0.00	0.00	0.00
5,400.0	12.00	223.05	5,299.5	-295.55	-714.0	-667.0	-531.4	0.00	0.00	0.00
5,500.0	12.00	223.05	5,397.4	-393.36	-729.1	-681.2	-542.8	0.00	0.00	0.00
5,600.0	12.00	223.05	5,495.2	-491.18	-744.3	-695.4	-554.1	0.00	0.00	0.00
END OF TANGENT										
5,687.3	12.00	223.05	5,580.6	-576.60	-757.6	-707.8	-563.9	0.00	0.00	0.00
5,700.0	11.74	223.05	5,593.0	-589.00	-759.5	-709.6	-565.3	2.00	-2.00	0.00
5,800.0	9.74	223.05	5,691.2	-687.24	-773.1	-722.3	-575.5	2.00	-2.00	0.00
5,900.0	7.74	223.05	5,790.1	-786.08	-784.2	-732.7	-583.7	2.00	-2.00	0.00
6,000.0	5.74	223.05	5,889.4	-885.38	-792.8	-740.7	-590.1	2.00	-2.00	0.00
6,100.0	3.74	223.05	5,989.0	-985.03	-798.8	-746.3	-594.6	2.00	-2.00	0.00
6,200.0	1.74	223.05	6,088.9	-1,084.91	-802.3	-749.6	-597.2	2.00	-2.00	0.00
EOD TO VERTICAL										
6,287.1	0.00	0.00	6,176.0	-1,172.00	-803.3	-750.5	-598.0	2.00	-2.00	0.00
6,300.0	0.00	0.00	6,188.9	-1,184.90	-803.3	-750.5	-598.0	0.00	0.00	0.00
6,400.0	0.00	0.00	6,288.9	-1,284.90	-803.3	-750.5	-598.0	0.00	0.00	0.00
6,500.0	0.00	0.00	6,388.9	-1,384.90	-803.3	-750.5	-598.0	0.00	0.00	0.00
6,600.0	0.00	0.00	6,488.9	-1,484.90	-803.3	-750.5	-598.0	0.00	0.00	0.00
6,700.0	0.00	0.00	6,588.9	-1,584.90	-803.3	-750.5	-598.0	0.00	0.00	0.00
6,800.0	0.00	0.00	6,688.9	-1,684.90	-803.3	-750.5	-598.0	0.00	0.00	0.00
KOP (10°/100ft BUR)										
6,823.1	0.00	0.00	6,712.0	-1,708.00	-803.3	-750.5	-598.0	0.00	0.00	0.00
6,900.0	7.69	89.34	6,788.7	-1,784.67	-803.2	-745.3	-592.9	10.00	10.00	0.00
7,000.0	17.69	89.34	6,886.1	-1,882.10	-803.0	-723.4	-571.3	10.00	10.00	0.00
SHARON SPRINGS										
7,042.4	21.93	89.34	6,926.0	-1,922.00	-802.8	-709.0	-557.2	10.00	10.00	0.00
NIOBRARA										
7,086.3	26.32	89.34	6,966.0	-1,962.00	-802.6	-691.1	-539.6	10.00	10.00	0.00
7,100.0	27.69	89.34	6,978.2	-1,974.25	-802.5	-684.9	-533.5	10.00	10.00	0.00
7,200.0	37.69	89.34	7,062.3	-2,058.30	-801.9	-630.9	-480.5	10.00	10.00	0.00
7,300.0	47.69	89.34	7,135.7	-2,131.71	-801.1	-563.2	-414.0	10.00	10.00	0.00
7,400.0	57.69	89.34	7,196.2	-2,192.25	-800.2	-483.8	-335.9	10.00	10.00	0.00
7,500.0	67.69	89.34	7,242.1	-2,238.07	-799.2	-395.1	-248.8	10.00	10.00	0.00
FORT HAYS										
7,537.0	71.39	89.34	7,255.0	-2,251.00	-798.8	-360.4	-214.7	10.00	10.00	0.00
7,600.0	77.69	89.34	7,271.8	-2,267.78	-798.1	-299.7	-155.1	10.00	10.00	0.00
CODELL										
7,616.1	79.30	89.34	7,275.0	-2,271.00	-797.9	-283.9	-139.6	10.00	10.00	0.00
7,700.0	87.69	89.34	7,284.5	-2,280.49	-797.0	-200.7	-57.8	10.00	10.00	0.00
HZ LP: 575ft FSL & 460ft FWL of Sec 21										
7,723.1	90.00	89.34	7,285.0	-2,280.96	-796.7	-177.6	-35.1	10.00	10.00	0.00
7,800.0	90.00	89.34	7,285.0	-2,280.96	-795.8	-100.7	40.5	0.00	0.00	0.00
7,900.0	90.00	89.34	7,285.0	-2,280.96	-794.7	-0.7	138.7	0.00	0.00	0.00
8,000.0	90.00	89.34	7,285.0	-2,280.96	-793.5	99.3	237.0	0.00	0.00	0.00

Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well KITELEY 9
Company:	EXTRACTION OIL & GAS	TVD Reference:	KB-EST @ 5004.0usft (Original Well Elev)
Project:	WELD COUNTY, COLORADO (NAD 83)	MD Reference:	KB-EST @ 5004.0usft (Original Well Elev)
Site:	NW SW SEC. 21 T3N R68W 6th P.M.	North Reference:	True
Well:	KITELEY 9	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)
8,100.0	90.00	89.34	7,285.0	-2,280.96	-792.4	199.3	335.2	0.00	0.00	0.00
8,200.0	90.00	89.34	7,285.0	-2,280.96	-791.2	299.3	433.4	0.00	0.00	0.00
8,300.0	90.00	89.34	7,285.0	-2,280.96	-790.0	399.3	531.7	0.00	0.00	0.00
8,400.0	90.00	89.34	7,285.0	-2,280.96	-788.9	499.3	629.9	0.00	0.00	0.00
8,500.0	90.00	89.34	7,285.0	-2,280.96	-787.7	599.3	728.2	0.00	0.00	0.00
8,600.0	90.00	89.34	7,285.0	-2,280.96	-786.6	699.3	826.4	0.00	0.00	0.00
8,700.0	90.00	89.34	7,285.0	-2,280.96	-785.4	799.3	924.6	0.00	0.00	0.00
8,800.0	90.00	89.34	7,285.0	-2,280.96	-784.3	899.2	1,022.9	0.00	0.00	0.00
8,900.0	90.00	89.34	7,285.0	-2,280.96	-783.1	999.2	1,121.1	0.00	0.00	0.00
9,000.0	90.00	89.34	7,285.0	-2,280.96	-782.0	1,099.2	1,219.4	0.00	0.00	0.00
9,100.0	90.00	89.34	7,285.0	-2,280.96	-780.8	1,199.2	1,317.6	0.00	0.00	0.00
9,200.0	90.00	89.34	7,285.0	-2,280.96	-779.6	1,299.2	1,415.8	0.00	0.00	0.00
9,300.0	90.00	89.34	7,285.0	-2,280.96	-778.5	1,399.2	1,514.1	0.00	0.00	0.00
9,400.0	90.00	89.34	7,285.0	-2,280.96	-777.3	1,499.2	1,612.3	0.00	0.00	0.00
9,500.0	90.00	89.34	7,285.0	-2,280.96	-776.2	1,599.2	1,710.6	0.00	0.00	0.00
9,600.0	90.00	89.34	7,285.0	-2,280.97	-775.0	1,699.2	1,808.8	0.00	0.00	0.00
9,700.0	90.00	89.34	7,285.0	-2,280.97	-773.9	1,799.2	1,907.0	0.00	0.00	0.00
9,800.0	90.00	89.34	7,285.0	-2,280.97	-772.7	1,899.2	2,005.3	0.00	0.00	0.00
9,900.0	90.00	89.34	7,285.0	-2,280.97	-771.5	1,999.2	2,103.5	0.00	0.00	0.00
10,000.0	90.00	89.34	7,285.0	-2,280.97	-770.4	2,099.2	2,201.8	0.00	0.00	0.00
10,100.0	90.00	89.34	7,285.0	-2,280.97	-769.2	2,199.2	2,300.0	0.00	0.00	0.00
10,200.0	90.00	89.34	7,285.0	-2,280.97	-768.1	2,299.2	2,398.2	0.00	0.00	0.00
10,300.0	90.00	89.33	7,285.0	-2,280.97	-766.9	2,399.1	2,496.5	0.00	0.00	0.00
10,400.0	90.00	89.33	7,285.0	-2,280.97	-765.7	2,499.1	2,594.7	0.00	0.00	0.00
10,500.0	90.00	89.33	7,285.0	-2,280.97	-764.6	2,599.1	2,693.0	0.00	0.00	0.00
10,600.0	90.00	89.33	7,285.0	-2,280.98	-763.4	2,699.1	2,791.2	0.00	0.00	0.00
10,700.0	90.00	89.33	7,285.0	-2,280.98	-762.3	2,799.1	2,889.4	0.00	0.00	0.00
10,800.0	90.00	89.33	7,285.0	-2,280.98	-761.1	2,899.1	2,987.7	0.00	0.00	0.00
10,900.0	90.00	89.33	7,285.0	-2,280.98	-759.9	2,999.1	3,085.9	0.00	0.00	0.00
11,000.0	90.00	89.33	7,285.0	-2,280.98	-758.8	3,099.1	3,184.1	0.00	0.00	0.00
11,100.0	90.00	89.33	7,285.0	-2,280.98	-757.6	3,199.1	3,282.4	0.00	0.00	0.00
11,200.0	90.00	89.33	7,285.0	-2,280.98	-756.4	3,299.1	3,380.6	0.00	0.00	0.00
11,300.0	90.00	89.33	7,285.0	-2,280.99	-755.3	3,399.1	3,478.9	0.00	0.00	0.00
11,400.0	90.00	89.33	7,285.0	-2,280.99	-754.1	3,499.1	3,577.1	0.00	0.00	0.00
11,500.0	90.00	89.33	7,285.0	-2,280.99	-752.9	3,599.1	3,675.3	0.00	0.00	0.00
11,600.0	90.00	89.33	7,285.0	-2,280.99	-751.8	3,699.1	3,773.6	0.00	0.00	0.00
11,700.0	90.00	89.33	7,285.0	-2,280.99	-750.6	3,799.1	3,871.8	0.00	0.00	0.00
11,800.0	90.00	89.33	7,285.0	-2,280.99	-749.4	3,899.0	3,970.1	0.00	0.00	0.00
11,900.0	90.00	89.33	7,285.0	-2,281.00	-748.3	3,999.0	4,068.3	0.00	0.00	0.00
12,000.0	90.00	89.33	7,285.0	-2,281.00	-747.1	4,099.0	4,166.5	0.00	0.00	0.00
BHL: 575ft FSL & 460ft FEL of Sec 21										
12,088.3	90.00	89.33	7,285.0	-2,281.00	-746.1	4,187.3	4,253.2	0.00	0.00	0.00

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Site:	NW SW SEC. 21 T3N R68W 6th P.M.	North Reference:	True
Well:	KITELEY 9	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #1		

Formations						
MD (usft)	TVD (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,611.4	3,550.0	PARKMAN				
4,439.5	4,360.0	SUSSEX				
4,686.9	4,602.0	SHANNON				
7,042.4	6,926.0	SHARON SPRINGS				
7,086.3	6,966.0	NIOBRARA				
7,537.0	7,255.0	FORT HAYS				
7,616.1	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: 1369ft FSL & 637ft FWL of Sec 21
400.0	400.0	0.0	0.0	START NUDGE (2°/100ft BUR)
999.8	995.4	-45.7	-42.7	EOB TO 12° INC
5,687.3	5,580.6	-757.6	-707.8	END OF TANGENT
6,287.1	6,176.0	-803.3	-750.5	EOD TO VERTICAL
6,823.1	6,712.0	-803.3	-750.5	KOP (10°/100ft BUR)
7,723.1	7,285.0	-796.7	-177.6	HZ LP: 575ft FSL & 460ft FWL of Sec 21
12,088.3	7,285.0	-746.1	4,187.3	BHL: 575ft FSL & 460ft FEL of Sec 21