

EXTRACTION OIL & GAS

WELD COUNTY, COLORADO (NAD 83)

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

GP-HILLSIDE 2-20-24

ORIGINAL WELLBORE

12 May, 2016

Plan: PROPOSAL #1





Project: WELD COUNTY, COLORADO (NAD 83)
 Site: NE NE SEC. 20 T5N R65W 6th P.M.
 Well: GP-HILLSIDE 2-20-24
 Wellbore: ORIGINAL WELLBORE
 Design: PROPOSAL #1

ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	Vsect	Dep	Annotation
1600.0	1600.0	0.00	0.00	0.0	0.0	0.0	0.0	9 5/8" SURFACE CASING
2300.0	2300.0	0.00	0.00	0.0	0.0	0.0	0.0	START NUJGE (2°/100ft BUR)
3386.2	3414.1	22.28	291.43	78.1	-199.1	203.2	213.9	EOB TO 22.28° INC
6528.7	6810.1	22.28	291.43	548.5	-1397.8	1426.7	1501.5	KOP (10°/100ft DGLG)
6895.0	7503.0	90.00	270.30	605.4	-1933.4	1964.7	2042.1	HZ LANDING PNT *NEW* - GP-HILLSIDE 2-20-24
6895.0	17068.4	90.00	270.30	654.8	-11498.7	11517.4	11607.5	BHL - GP-HILLSIDE 2-20-24

WELLBORE TARGET DETAILS (LAT/LONG)

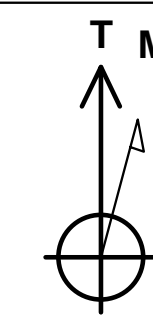
Name	TVD	+N/-S	+E/-W	Latitude	Longitude
HZ LANDING PNT *NEW* - GP-HILLSIDE 2-20-24	6895.0	605.4	-1933.4	40.391882	-104.689451
BHL - GP-HILLSIDE 2-20-24	6895.0	654.8	-11498.7	40.392010	-104.723790

FORMATION TOP DETAILS

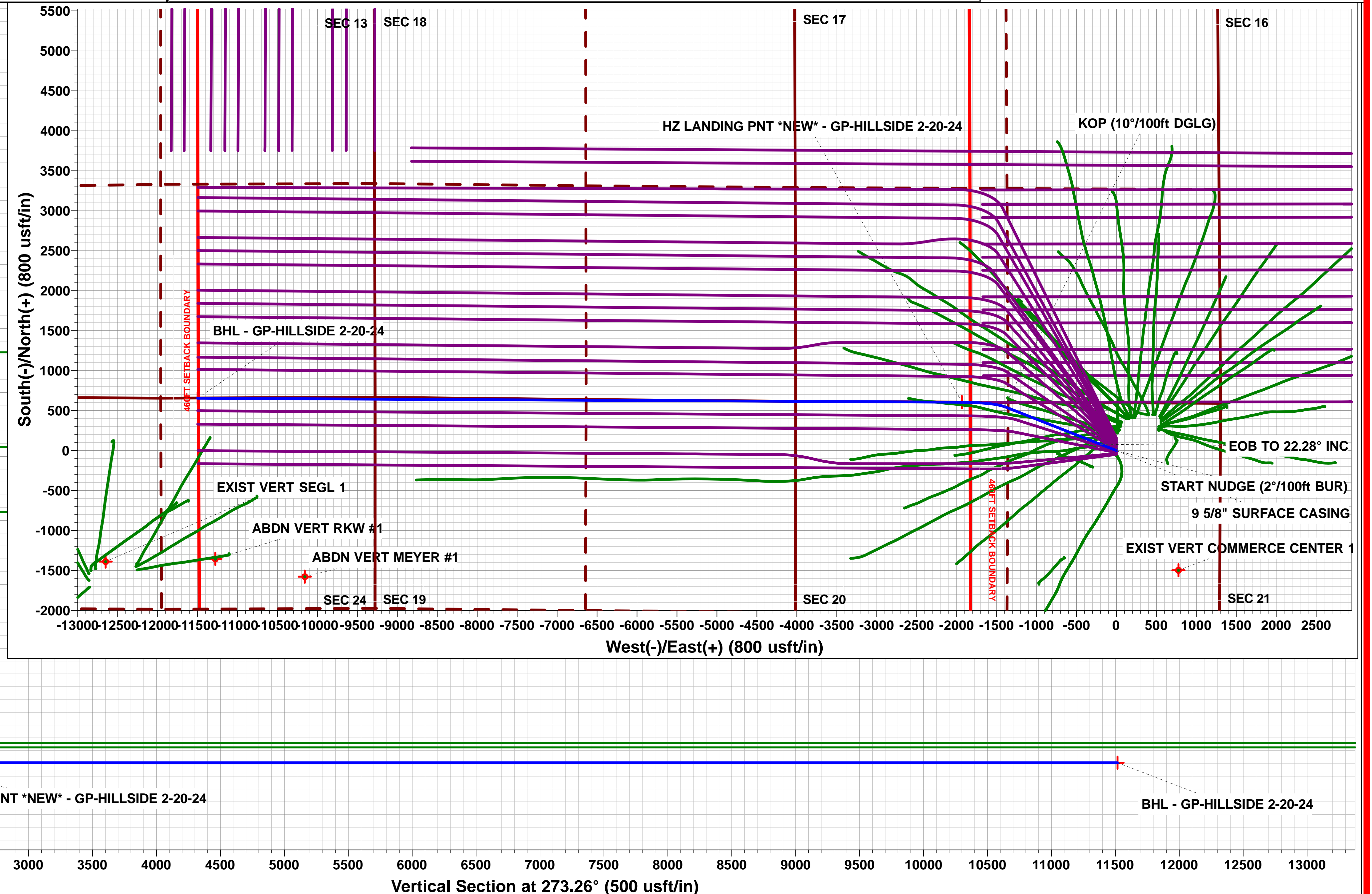
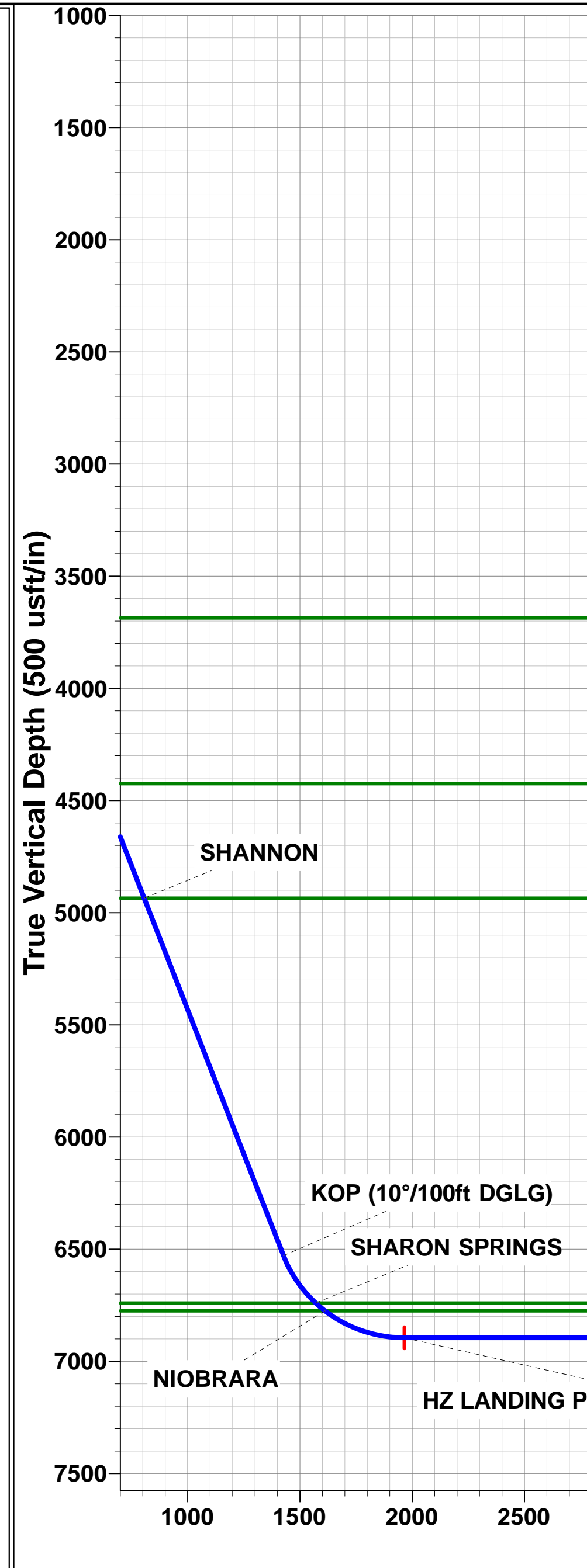
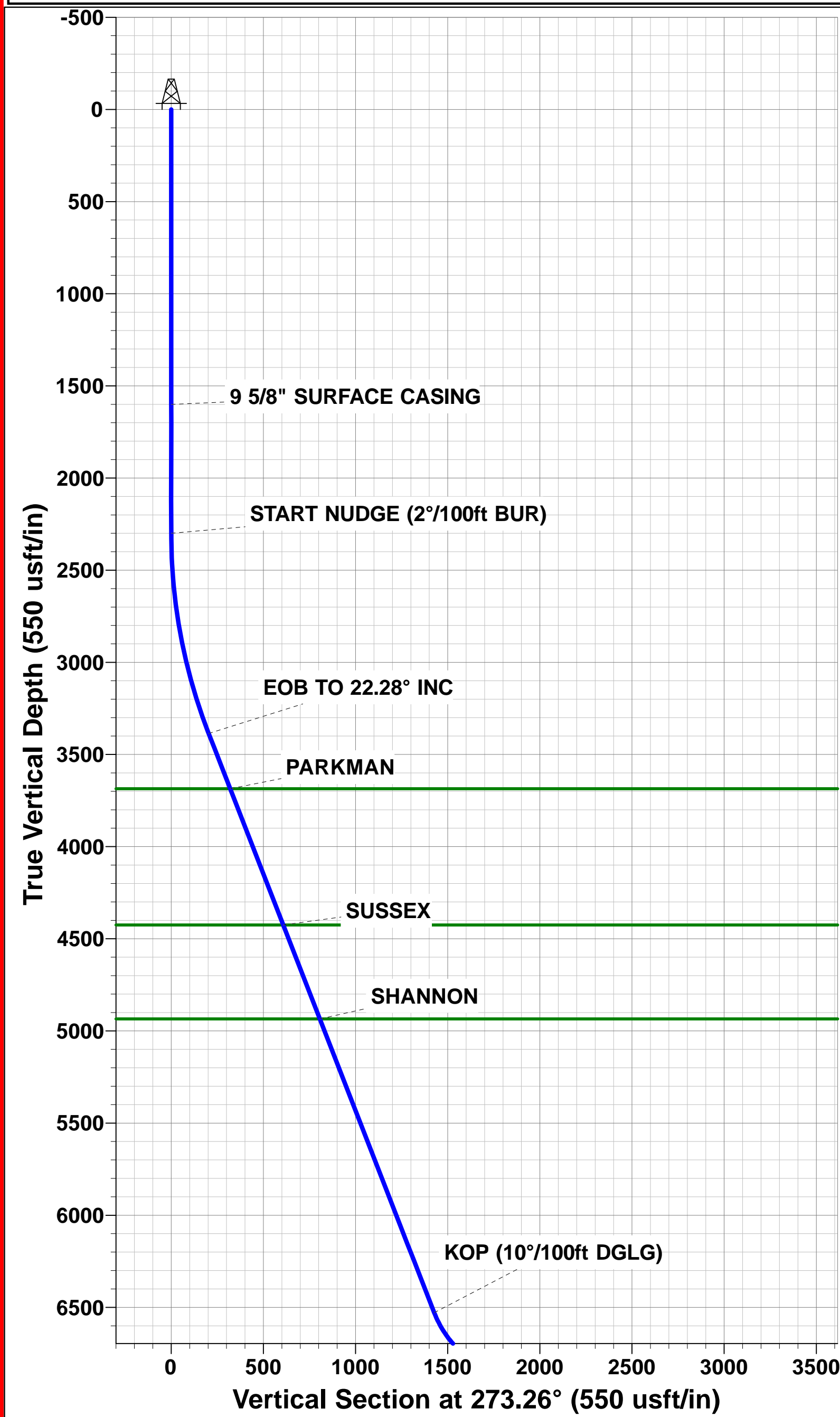
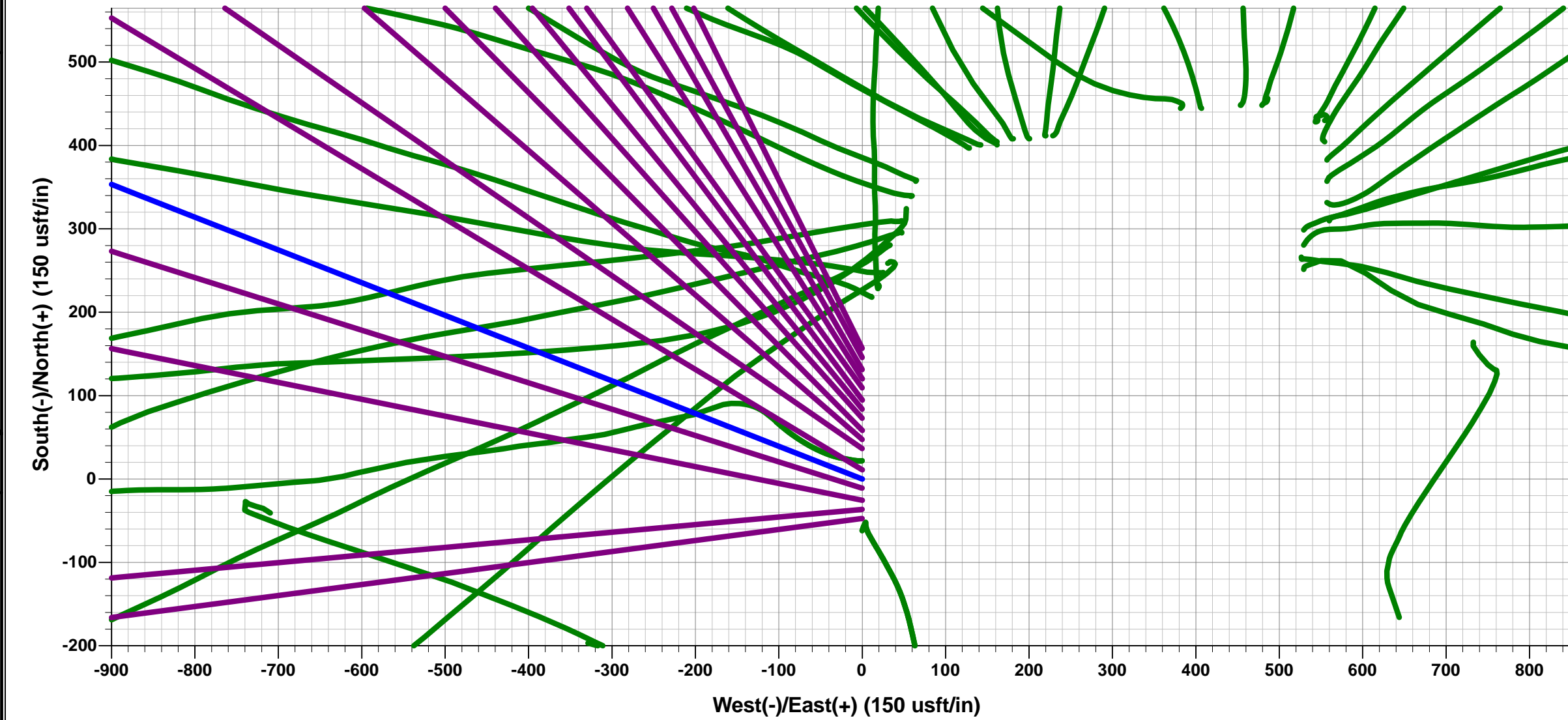
TVDPath	MDPath	Formation
3686.0	3738.1	PARKMAN
4425.0	4536.7	SUSSEX
4935.0	5087.8	SHANNON
6740.0	7068.9	SHARON SPRINGS
6775.0	7123.2	NIOBRARA

PROPOSED LOCAL COORDINATES

SHL: 598ft FNL & 1305ft FEL of Sec 20
 LP *NEW*: 0ft FNL & 2068ft FWL of Sec 20
 BHL: 0ft FNL & 2224ft FEL of Sec 24



Azimuths to True North
 Magnetic North: 8.28°
 Magnetic Field
 Strength: 52522.3snT
 Dip Angle: 66.89°
 Date: 12/05/2016
 Model: IGRF2015





Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well GP-HILLSIDE 2-20-24
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-HILLSIDE 2-20-24	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-HILLSIDE 2-20-24					
Well Position	+N-S	-156.7 usft	Northing:	1,386,047.19 usft	Latitude:	40.390220
	+E-W	0.0 usft	Easting:	3,227,709.05 usft	Longitude:	-104.682510
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	4,672.0 usft

Wellbore	ORIGINAL WELLBORE				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	12/05/2016	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 (°)
	6,895.0	0.0	0.0	273.26

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	
2,300.0	0.00	0.00	2,300.0	-2,388.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,414.1	22.28	291.43	3,386.2	-1,301.8	78.1	-199.1	2.00	2.00	0.00	291.43	
6,810.1	22.28	291.43	6,528.7	1,840.7	548.5	-1,397.8	0.00	0.00	0.00	0.00	
7,503.0	90.00	270.30	6,895.0	2,207.0	605.4	-1,933.4	10.00	9.77	-3.05	-22.67	HZ LANDING PNT
17,068.4	90.00	270.30	6,895.0	2,207.0	654.8	-11,498.7	0.00	0.00	0.00	0.00	BHL - GP-HILLSIDE

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well GP-HILLSIDE 2-20-24
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-HILLSIDE 2-20-24	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
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	0.00	0.00	200.0	4,488.00	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	4,388.00	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	4,288.00	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	4,188.00	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	4,088.00	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	3,988.00	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	3,888.00	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	3,788.00	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	3,688.00	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	3,588.00	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	3,488.00	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	3,388.00	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	3,288.00	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	3,188.00	0.0	0.0	0.0	0.00	0.00	0.00
9 5/8" SURFACE CASING										
1,600.0	0.00	0.00	1,600.0	3,088.00	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	2,988.00	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	2,888.00	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	2,788.00	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	2,688.00	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	2,588.00	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	2,488.00	0.0	0.0	0.0	0.00	0.00	0.00
START NUDGE (2°/100ft BUR)										
2,300.0	0.00	0.00	2,300.0	2,388.00	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	2.00	291.43	2,400.0	2,288.02	0.6	-1.6	1.7	2.00	2.00	0.00
2,500.0	4.00	291.43	2,499.8	2,188.16	2.5	-6.5	6.6	2.00	2.00	0.00
2,600.0	6.00	291.43	2,599.5	2,088.55	5.7	-14.6	14.9	2.00	2.00	0.00
2,700.0	8.00	291.43	2,698.7	1,989.30	10.2	-26.0	26.5	2.00	2.00	0.00
2,800.0	10.00	291.43	2,797.5	1,890.53	15.9	-40.5	41.4	2.00	2.00	0.00
2,900.0	12.00	291.43	2,895.6	1,792.38	22.9	-58.3	59.5	2.00	2.00	0.00
3,000.0	14.00	291.43	2,993.1	1,694.94	31.1	-79.2	80.9	2.00	2.00	0.00
3,100.0	16.00	291.43	3,089.6	1,598.36	40.5	-103.3	105.4	2.00	2.00	0.00
3,200.0	18.00	291.43	3,185.3	1,502.73	51.2	-130.5	133.2	2.00	2.00	0.00
3,300.0	20.00	291.43	3,279.8	1,408.18	63.1	-160.8	164.2	2.00	2.00	0.00
3,400.0	22.00	291.43	3,373.2	1,314.83	76.2	-194.2	198.2	2.00	2.00	0.00
EOB TO 22.28° INC										
3,414.1	22.28	291.43	3,386.2	1,301.79	78.1	-199.1	203.2	2.00	2.00	0.00
3,500.0	22.28	291.43	3,465.7	1,222.28	90.0	-229.5	234.2	0.00	0.00	0.00
3,600.0	22.28	291.43	3,558.2	1,129.75	103.9	-264.7	270.2	0.00	0.00	0.00
3,700.0	22.28	291.43	3,650.8	1,037.22	117.7	-300.0	306.3	0.00	0.00	0.00
PARKMAN										
3,738.1	22.28	291.43	3,686.0	1,002.00	123.0	-313.5	320.0	0.00	0.00	0.00
3,800.0	22.28	291.43	3,743.3	944.69	131.6	-335.3	342.3	0.00	0.00	0.00
3,900.0	22.28	291.43	3,835.8	852.15	145.4	-370.6	378.3	0.00	0.00	0.00
4,000.0	22.28	291.43	3,928.4	759.62	159.3	-405.9	414.3	0.00	0.00	0.00
4,100.0	22.28	291.43	4,020.9	667.09	173.1	-441.2	450.4	0.00	0.00	0.00
4,200.0	22.28	291.43	4,113.4	574.55	187.0	-476.5	486.4	0.00	0.00	0.00
4,300.0	22.28	291.43	4,206.0	482.02	200.8	-511.8	522.4	0.00	0.00	0.00
4,400.0	22.28	291.43	4,298.5	389.49	214.7	-547.1	558.4	0.00	0.00	0.00
4,500.0	22.28	291.43	4,391.0	296.95	228.6	-582.4	594.5	0.00	0.00	0.00
SUSSEX										
4,536.7	22.28	291.43	4,425.0	263.00	233.6	-595.4	607.7	0.00	0.00	0.00

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Well:	GP-HILLSIDE 2-20-24	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)
4,600.0	22.28	291.43	4,483.6	204.42	242.4	-617.7	630.5	0.00	0.00	0.00
4,700.0	22.28	291.43	4,576.1	111.89	256.3	-653.0	666.5	0.00	0.00	0.00
4,800.0	22.28	291.43	4,668.6	19.35	270.1	-688.3	702.5	0.00	0.00	0.00
4,900.0	22.28	291.43	4,761.2	-73.18	284.0	-723.6	738.6	0.00	0.00	0.00
5,000.0	22.28	291.43	4,853.7	-165.71	297.8	-758.9	774.6	0.00	0.00	0.00
SHANNON										
5,087.8	22.28	291.43	4,935.0	-247.00	310.0	-789.9	806.2	0.00	0.00	0.00
5,100.0	22.28	291.43	4,946.2	-258.25	311.7	-794.2	810.6	0.00	0.00	0.00
5,200.0	22.28	291.43	5,038.8	-350.78	325.5	-829.5	846.6	0.00	0.00	0.00
5,300.0	22.28	291.43	5,131.3	-443.31	339.4	-864.8	882.7	0.00	0.00	0.00
5,400.0	22.28	291.43	5,223.8	-535.85	353.2	-900.1	918.7	0.00	0.00	0.00
5,500.0	22.28	291.43	5,316.4	-628.38	367.1	-935.4	954.7	0.00	0.00	0.00
5,600.0	22.28	291.43	5,408.9	-720.91	380.9	-970.7	990.7	0.00	0.00	0.00
5,700.0	22.28	291.43	5,501.4	-813.45	394.8	-1,005.9	1,026.8	0.00	0.00	0.00
5,800.0	22.28	291.43	5,594.0	-905.98	408.6	-1,041.2	1,062.8	0.00	0.00	0.00
5,900.0	22.28	291.43	5,686.5	-998.51	422.5	-1,076.5	1,098.8	0.00	0.00	0.00
6,000.0	22.28	291.43	5,779.0	-1,091.05	436.3	-1,111.8	1,134.8	0.00	0.00	0.00
6,100.0	22.28	291.43	5,871.6	-1,183.58	450.2	-1,147.1	1,170.9	0.00	0.00	0.00
6,200.0	22.28	291.43	5,964.1	-1,276.11	464.0	-1,182.4	1,206.9	0.00	0.00	0.00
6,300.0	22.28	291.43	6,056.6	-1,368.65	477.9	-1,217.7	1,242.9	0.00	0.00	0.00
6,400.0	22.28	291.43	6,149.2	-1,461.18	491.7	-1,253.0	1,278.9	0.00	0.00	0.00
6,500.0	22.28	291.43	6,241.7	-1,553.71	505.6	-1,288.3	1,315.0	0.00	0.00	0.00
6,600.0	22.28	291.43	6,334.2	-1,646.25	519.4	-1,323.6	1,351.0	0.00	0.00	0.00
6,700.0	22.28	291.43	6,426.8	-1,738.78	533.3	-1,358.9	1,387.0	0.00	0.00	0.00
6,800.0	22.28	291.43	6,519.3	-1,831.31	547.1	-1,394.2	1,423.0	0.00	0.00	0.00
KOP (10°/100ft DGLG)										
6,810.1	22.28	291.43	6,528.7	-1,840.65	548.5	-1,397.8	1,426.7	0.00	0.00	0.00
6,900.0	30.76	284.66	6,609.0	-1,921.04	560.6	-1,435.9	1,465.5	10.00	9.43	-7.52
7,000.0	40.44	280.28	6,690.3	-2,002.27	572.9	-1,492.7	1,522.9	10.00	9.67	-4.39
SHARON SPRINGS										
7,068.9	47.18	278.16	6,740.0	-2,052.00	580.5	-1,539.8	1,570.3	10.00	9.77	-3.06
7,100.0	50.22	277.36	6,760.5	-2,072.49	583.6	-1,562.9	1,593.6	10.00	9.81	-2.59
NIOBARRA										
7,123.2	52.50	276.80	6,775.0	-2,087.00	585.9	-1,581.0	1,611.7	10.00	9.82	-2.40
7,200.0	60.06	275.18	6,817.6	-2,129.58	592.5	-1,644.4	1,675.4	10.00	9.84	-2.12
7,300.0	69.93	273.39	6,859.8	-2,171.80	599.2	-1,734.7	1,765.9	10.00	9.87	-1.79
7,400.0	79.81	271.82	6,885.9	-2,197.87	603.5	-1,831.0	1,862.3	10.00	9.88	-1.57
7,500.0	89.71	270.34	6,895.0	-2,206.99	605.4	-1,930.4	1,961.7	10.00	9.89	-1.48
HZ LANDING PNT *NEW* - GP-HILLSIDE 2-20-24										
7,503.0	90.00	270.30	6,895.0	-2,207.00	605.4	-1,933.4	1,964.7	10.00	9.89	-1.46
7,600.0	90.00	270.30	6,895.0	-2,207.00	605.9	-2,030.4	2,061.6	0.00	0.00	0.00
7,700.0	90.00	270.30	6,895.0	-2,207.00	606.4	-2,130.4	2,161.5	0.00	0.00	0.00
7,800.0	90.00	270.30	6,895.0	-2,207.00	606.9	-2,230.4	2,261.3	0.00	0.00	0.00
7,900.0	90.00	270.30	6,895.0	-2,207.00	607.5	-2,330.4	2,361.2	0.00	0.00	0.00
8,000.0	90.00	270.30	6,895.0	-2,207.00	608.0	-2,430.4	2,461.0	0.00	0.00	0.00
8,100.0	90.00	270.30	6,895.0	-2,207.00	608.5	-2,530.4	2,560.9	0.00	0.00	0.00
8,200.0	90.00	270.30	6,895.0	-2,207.00	609.0	-2,630.4	2,660.8	0.00	0.00	0.00
8,300.0	90.00	270.30	6,895.0	-2,207.00	609.5	-2,730.4	2,760.6	0.00	0.00	0.00
8,400.0	90.00	270.30	6,895.0	-2,207.00	610.0	-2,830.4	2,860.5	0.00	0.00	0.00
8,500.0	90.00	270.30	6,895.0	-2,207.00	610.5	-2,930.4	2,960.4	0.00	0.00	0.00
8,600.0	90.00	270.30	6,895.0	-2,207.00	611.1	-3,030.4	3,060.2	0.00	0.00	0.00
8,700.0	90.00	270.30	6,895.0	-2,207.00	611.6	-3,130.4	3,160.1	0.00	0.00	0.00
8,800.0	90.00	270.30	6,895.0	-2,207.00	612.1	-3,230.4	3,260.0	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well GP-HILLSIDE 2-20-24
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-HILLSIDE 2-20-24	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)
8,900.0	90.00	270.30	6,895.0	-2,207.00	612.6	-3,330.4	3,359.8	0.00	0.00	0.00
9,000.0	90.00	270.30	6,895.0	-2,207.00	613.1	-3,430.4	3,459.7	0.00	0.00	0.00
9,100.0	90.00	270.30	6,895.0	-2,207.00	613.6	-3,530.4	3,559.6	0.00	0.00	0.00
9,200.0	90.00	270.30	6,895.0	-2,207.00	614.2	-3,630.4	3,659.4	0.00	0.00	0.00
9,300.0	90.00	270.30	6,895.0	-2,207.00	614.7	-3,730.4	3,759.3	0.00	0.00	0.00
9,400.0	90.00	270.30	6,895.0	-2,207.00	615.2	-3,830.4	3,859.2	0.00	0.00	0.00
9,500.0	90.00	270.30	6,895.0	-2,207.00	615.7	-3,930.4	3,959.0	0.00	0.00	0.00
9,600.0	90.00	270.30	6,895.0	-2,207.00	616.2	-4,030.4	4,058.9	0.00	0.00	0.00
9,700.0	90.00	270.30	6,895.0	-2,207.00	616.7	-4,130.4	4,158.8	0.00	0.00	0.00
9,800.0	90.00	270.30	6,895.0	-2,207.00	617.3	-4,230.4	4,258.6	0.00	0.00	0.00
9,900.0	90.00	270.30	6,895.0	-2,207.00	617.8	-4,330.4	4,358.5	0.00	0.00	0.00
10,000.0	90.00	270.30	6,895.0	-2,207.00	618.3	-4,430.4	4,458.4	0.00	0.00	0.00
10,100.0	90.00	270.30	6,895.0	-2,207.00	618.8	-4,530.4	4,558.2	0.00	0.00	0.00
10,200.0	90.00	270.30	6,895.0	-2,207.00	619.3	-4,630.4	4,658.1	0.00	0.00	0.00
10,300.0	90.00	270.30	6,895.0	-2,207.00	619.8	-4,730.4	4,758.0	0.00	0.00	0.00
10,400.0	90.00	270.30	6,895.0	-2,207.00	620.4	-4,830.4	4,857.8	0.00	0.00	0.00
10,500.0	90.00	270.30	6,895.0	-2,207.00	620.9	-4,930.4	4,957.7	0.00	0.00	0.00
10,600.0	90.00	270.30	6,895.0	-2,207.00	621.4	-5,030.4	5,057.6	0.00	0.00	0.00
10,700.0	90.00	270.30	6,895.0	-2,207.00	621.9	-5,130.4	5,157.4	0.00	0.00	0.00
10,800.0	90.00	270.30	6,895.0	-2,207.00	622.4	-5,230.4	5,257.3	0.00	0.00	0.00
10,900.0	90.00	270.30	6,895.0	-2,207.00	622.9	-5,330.4	5,357.2	0.00	0.00	0.00
11,000.0	90.00	270.30	6,895.0	-2,207.00	623.5	-5,430.4	5,457.0	0.00	0.00	0.00
11,100.0	90.00	270.30	6,895.0	-2,207.00	624.0	-5,530.4	5,556.9	0.00	0.00	0.00
11,200.0	90.00	270.30	6,895.0	-2,207.00	624.5	-5,630.4	5,656.8	0.00	0.00	0.00
11,300.0	90.00	270.30	6,895.0	-2,207.00	625.0	-5,730.4	5,756.6	0.00	0.00	0.00
11,400.0	90.00	270.30	6,895.0	-2,207.00	625.5	-5,830.4	5,856.5	0.00	0.00	0.00
11,500.0	90.00	270.30	6,895.0	-2,207.00	626.0	-5,930.4	5,956.4	0.00	0.00	0.00
11,600.0	90.00	270.30	6,895.0	-2,207.00	626.6	-6,030.4	6,056.2	0.00	0.00	0.00
11,700.0	90.00	270.30	6,895.0	-2,207.00	627.1	-6,130.4	6,156.1	0.00	0.00	0.00
11,800.0	90.00	270.30	6,895.0	-2,207.00	627.6	-6,230.4	6,256.0	0.00	0.00	0.00
11,900.0	90.00	270.30	6,895.0	-2,207.00	628.1	-6,330.4	6,355.8	0.00	0.00	0.00
12,000.0	90.00	270.30	6,895.0	-2,207.00	628.6	-6,430.4	6,455.7	0.00	0.00	0.00
12,100.0	90.00	270.30	6,895.0	-2,207.00	629.1	-6,530.4	6,555.6	0.00	0.00	0.00
12,200.0	90.00	270.30	6,895.0	-2,207.00	629.7	-6,630.4	6,655.4	0.00	0.00	0.00
12,300.0	90.00	270.30	6,895.0	-2,207.00	630.2	-6,730.4	6,755.3	0.00	0.00	0.00
12,400.0	90.00	270.30	6,895.0	-2,207.00	630.7	-6,830.4	6,855.2	0.00	0.00	0.00
12,500.0	90.00	270.30	6,895.0	-2,207.00	631.2	-6,930.4	6,955.0	0.00	0.00	0.00
12,600.0	90.00	270.30	6,895.0	-2,207.00	631.7	-7,030.4	7,054.9	0.00	0.00	0.00
12,700.0	90.00	270.30	6,895.0	-2,207.00	632.2	-7,130.4	7,154.8	0.00	0.00	0.00
12,800.0	90.00	270.30	6,895.0	-2,207.00	632.8	-7,230.4	7,254.6	0.00	0.00	0.00
12,900.0	90.00	270.30	6,895.0	-2,207.00	633.3	-7,330.4	7,354.5	0.00	0.00	0.00
13,000.0	90.00	270.30	6,895.0	-2,207.00	633.8	-7,430.3	7,454.4	0.00	0.00	0.00
13,100.0	90.00	270.30	6,895.0	-2,207.00	634.3	-7,530.3	7,554.2	0.00	0.00	0.00
13,200.0	90.00	270.30	6,895.0	-2,207.00	634.8	-7,630.3	7,654.1	0.00	0.00	0.00
13,300.0	90.00	270.30	6,895.0	-2,207.00	635.3	-7,730.3	7,754.0	0.00	0.00	0.00
13,400.0	90.00	270.30	6,895.0	-2,207.00	635.9	-7,830.3	7,853.8	0.00	0.00	0.00
13,500.0	90.00	270.30	6,895.0	-2,207.00	636.4	-7,930.3	7,953.7	0.00	0.00	0.00
13,600.0	90.00	270.30	6,895.0	-2,207.00	636.9	-8,030.3	8,053.6	0.00	0.00	0.00
13,700.0	90.00	270.30	6,895.0	-2,207.00	637.4	-8,130.3	8,153.4	0.00	0.00	0.00
13,800.0	90.00	270.30	6,895.0	-2,207.00	637.9	-8,230.3	8,253.3	0.00	0.00	0.00
13,900.0	90.00	270.30	6,895.0	-2,207.00	638.4	-8,330.3	8,353.2	0.00	0.00	0.00
14,000.0	90.00	270.30	6,895.0	-2,207.00	639.0	-8,430.3	8,453.0	0.00	0.00	0.00
14,100.0	90.00	270.30	6,895.0	-2,207.00	639.5	-8,530.3	8,552.9	0.00	0.00	0.00
14,200.0	90.00	270.30	6,895.0	-2,207.00	640.0	-8,630.3	8,652.8	0.00	0.00	0.00



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well GP-HILLSIDE 2-20-24
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-HILLSIDE 2-20-24	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)
14,300.0	90.00	270.30	6,895.0	-2,207.00	640.5	-8,730.3	8,752.6	0.00	0.00	0.00
14,400.0	90.00	270.30	6,895.0	-2,207.00	641.0	-8,830.3	8,852.5	0.00	0.00	0.00
14,500.0	90.00	270.30	6,895.0	-2,207.00	641.5	-8,930.3	8,952.4	0.00	0.00	0.00
14,600.0	90.00	270.30	6,895.0	-2,207.00	642.1	-9,030.3	9,052.2	0.00	0.00	0.00
14,700.0	90.00	270.30	6,895.0	-2,207.00	642.6	-9,130.3	9,152.1	0.00	0.00	0.00
14,800.0	90.00	270.30	6,895.0	-2,207.00	643.1	-9,230.3	9,252.0	0.00	0.00	0.00
14,900.0	90.00	270.30	6,895.0	-2,207.00	643.6	-9,330.3	9,351.8	0.00	0.00	0.00
15,000.0	90.00	270.30	6,895.0	-2,207.00	644.1	-9,430.3	9,451.7	0.00	0.00	0.00
15,100.0	90.00	270.30	6,895.0	-2,207.00	644.6	-9,530.3	9,551.6	0.00	0.00	0.00
15,200.0	90.00	270.30	6,895.0	-2,207.00	645.2	-9,630.3	9,651.4	0.00	0.00	0.00
15,300.0	90.00	270.30	6,895.0	-2,207.00	645.7	-9,730.3	9,751.3	0.00	0.00	0.00
15,400.0	90.00	270.30	6,895.0	-2,207.00	646.2	-9,830.3	9,851.2	0.00	0.00	0.00
15,500.0	90.00	270.30	6,895.0	-2,207.00	646.7	-9,930.3	9,951.0	0.00	0.00	0.00
15,600.0	90.00	270.30	6,895.0	-2,207.00	647.2	-10,030.3	10,050.9	0.00	0.00	0.00
15,700.0	90.00	270.30	6,895.0	-2,207.00	647.7	-10,130.3	10,150.8	0.00	0.00	0.00
15,800.0	90.00	270.30	6,895.0	-2,207.00	648.3	-10,230.3	10,250.6	0.00	0.00	0.00
15,900.0	90.00	270.30	6,895.0	-2,207.00	648.8	-10,330.3	10,350.5	0.00	0.00	0.00
16,000.0	90.00	270.30	6,895.0	-2,207.00	649.3	-10,430.3	10,450.4	0.00	0.00	0.00
16,100.0	90.00	270.30	6,895.0	-2,207.00	649.8	-10,530.3	10,550.2	0.00	0.00	0.00
16,200.0	90.00	270.30	6,895.0	-2,207.00	650.3	-10,630.3	10,650.1	0.00	0.00	0.00
16,300.0	90.00	270.30	6,895.0	-2,207.00	650.8	-10,730.3	10,750.0	0.00	0.00	0.00
16,400.0	90.00	270.30	6,895.0	-2,207.00	651.3	-10,830.3	10,849.8	0.00	0.00	0.00
16,500.0	90.00	270.30	6,895.0	-2,207.00	651.9	-10,930.3	10,949.7	0.00	0.00	0.00
16,600.0	90.00	270.30	6,895.0	-2,207.00	652.4	-11,030.3	11,049.5	0.00	0.00	0.00
16,700.0	90.00	270.30	6,895.0	-2,207.00	652.9	-11,130.3	11,149.4	0.00	0.00	0.00
16,800.0	90.00	270.30	6,895.0	-2,207.00	653.4	-11,230.3	11,249.3	0.00	0.00	0.00
16,900.0	90.00	270.30	6,895.0	-2,207.00	653.9	-11,330.3	11,349.1	0.00	0.00	0.00
17,000.0	90.00	270.30	6,895.0	-2,207.00	654.4	-11,430.3	11,449.0	0.00	0.00	0.00
BHL - GP-HILLSIDE 2-20-24										
17,068.4	90.00	270.30	6,895.0	-2,207.00	654.8	-11,498.7	11,517.4	0.00	0.00	0.00

Formations

MD (usft)	TVD (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,738.1	3,686.0	PARKMAN			
4,536.7	4,425.0	SUSSEX			
5,087.8	4,935.0	SHANNON			
7,068.9	6,740.0	SHARON SPRINGS			
7,123.2	6,775.0	NIOBRARA			

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well GP-HILLSIDE 2-20-24
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-HILLSIDE 2-20-24	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #1		

Plan Annotations				
MD (usft)	TVD (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,600.0	1,600.0	0.0	0.0	9 5/8" SURFACE CASING
2,300.0	2,300.0	0.0	0.0	START NUDGE (2°/100ft BUR)
3,414.1	3,386.2	78.1	-199.1	EOB TO 22.28° INC
6,810.1	6,528.7	548.5	-1,397.8	KOP (10°/100ft DGLG)
7,503.0	6,895.0	605.4	-1,933.4	HZ LANDING PNT *NEW* - GP-HILLSIDE 2-20-24
17,068.4	6,895.0	654.8	-11,498.7	BHL - GP-HILLSIDE 2-20-24