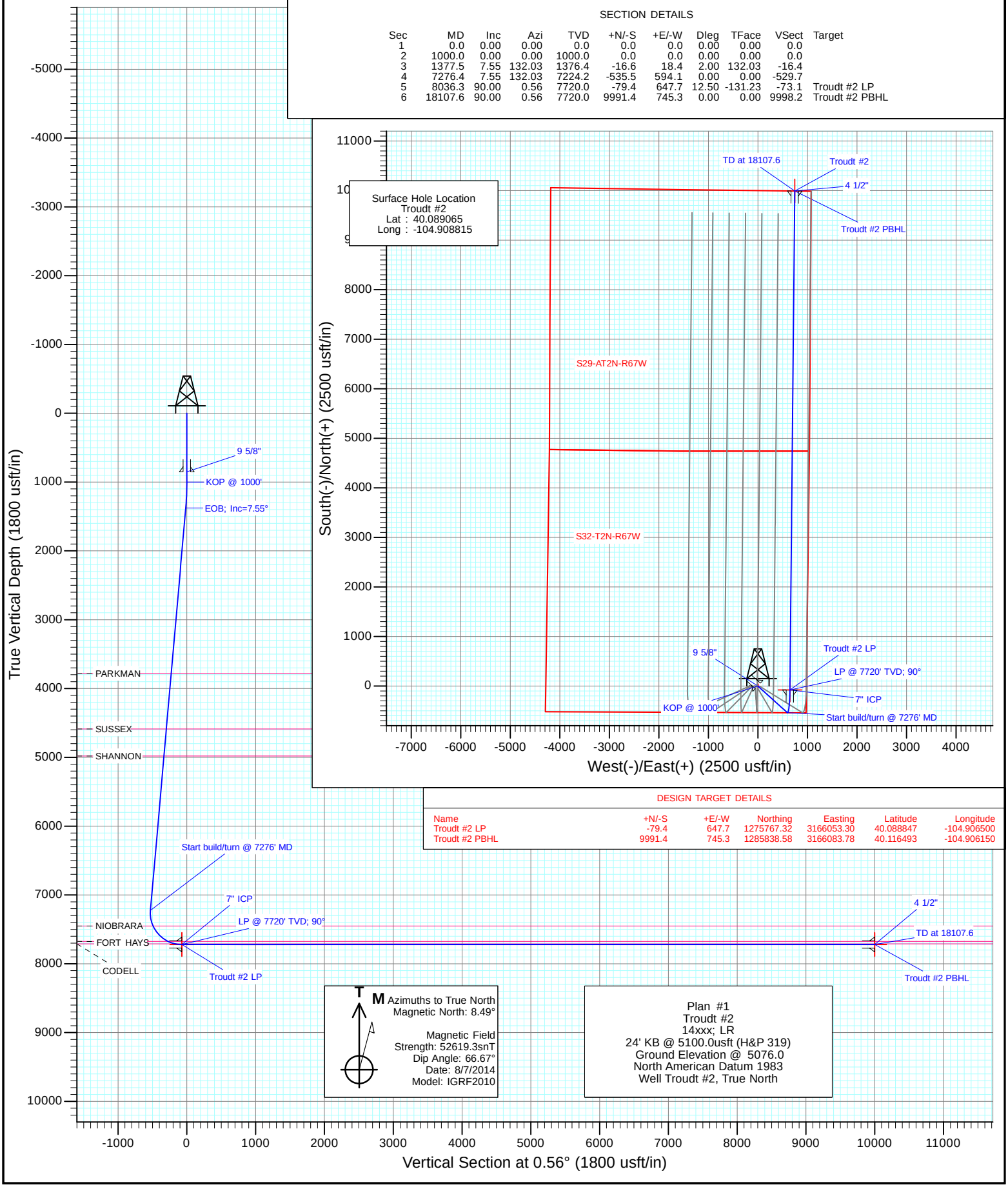
Project: WELD COUNTY, CO
Site: S32-T2N-R67W
Well: Troudt #2
Wellbore: Hz
Design: Plan #1

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1000.0	0.00	0.00	1000.0	0.0	0.0	0.00	0.00	0.0	
3	1377.5	7.55	132.03	1376.4	-16.6	18.4	2.00	132.03	-16.4	
4	7276.4	7.55	132.03	7224.2	-535.5	594.1	0.00	0.00	-529.7	
5	8036.3	90.00	0.56	7720.0	-79.4	647.7	12.50	-131.23	-73.1	Troudt #2 LP
6	18107.6	90.00	0.56	7720.0	9991.4	745.3	0.00	0.00	9998.2	Troudt #2 PBHL



DESIGN TARGET DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Troudt #2 LP	-79.4	647.7	1275767.32	3166053.30	40.088847	-104.906500
Troudt #2 PBHL	9991.4	745.3	1285838.58	3166083.78	40.116493	-104.906150

Planning Report

Database:	USA EDM 5000 Multi Users DB	**Local Co-ordinate Reference:**	Well Troudt #2
Company:	Extraction Oil & Gas	**TVD Reference:**	24' KB @ 5100.0usft (H&P 319)
Project:	WELD COUNTY, CO	**MD Reference:**	24' KB @ 5100.0usft (H&P 319)
Site:	S32-T2N-R67W	**North Reference:**	True
Well:	Troudt #2	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Project WELD COUNTY, CO

Map System:	US State Plane 1983	**System Datum:**	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Site S32-T2N-R67W

Site Position:		**Northing:**	1,275,842.23 usft	**Latitude:**	40.089064
From:	Lat/Long	**Easting:**	3,165,433.05 usft	**Longitude:**	-104.908715
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.38 °

Well Troudt #2

Well Position	**+N/-S**	0.0 usft	**Northing:**	1,275,842.40 usft	**Latitude:**	40.089065
	+E/-W	0.0 usft	**Easting:**	3,165,405.07 usft	**Longitude:**	-104.908815
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	0.0 usft	**Ground Level:**	5,076.0 usft

Wellbore Hz

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	8/7/2014	8.49	66.67	52,619

Design Plan #1

Audit Notes:

Version:		**Phase:**	PLAN	**Tie On Depth:**	0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	0.56

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,377.5	7.55	132.03	1,376.4	-16.6	18.4	2.00	2.00	0.00	132.03	
7,276.4	7.55	132.03	7,224.2	-535.5	594.1	0.00	0.00	0.00	0.00	
8,036.3	90.00	0.56	7,720.0	-79.4	647.7	12.50	10.85	-17.30	-131.23	Troudt #2 LP
18,107.6	90.00	0.56	7,720.0	9,991.4	745.3	0.00	0.00	0.00	0.00	Troudt #2 PBHL

Database:	USA EDM 5000 Multi Users DB	**Local Co-ordinate Reference:**	Well Troudt #2
Company:	Extraction Oil & Gas	**TVD Reference:**	24' KB @ 5100.0usft (H&P 319)
Project:	WELD COUNTY, CO	**MD Reference:**	24' KB @ 5100.0usft (H&P 319)
Site:	S32-T2N-R67W	**North Reference:**	True
Well:	Troudt #2	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft	Build Rate (°/100u	Comments / Formations
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	
850.0	0.00	0.00	850.0	0.0	0.0	0.0	0.00	0.00	9 5/8"
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	KOP @ 1000'
1,100.0	2.00	132.03	1,100.0	-1.2	1.3	-1.2	2.00	2.00	
1,200.0	4.00	132.03	1,199.8	-4.7	5.2	-4.6	2.00	2.00	
1,300.0	6.00	132.03	1,299.4	-10.5	11.7	-10.4	2.00	2.00	
1,377.5	7.55	132.03	1,376.4	-16.6	18.4	-16.4	2.00	2.00	EOB; Inc=7.55°
1,400.0	7.55	132.03	1,398.7	-18.6	20.6	-18.4	0.00	0.00	
1,500.0	7.55	132.03	1,497.8	-27.4	30.4	-27.1	0.00	0.00	
1,600.0	7.55	132.03	1,597.0	-36.2	40.2	-35.8	0.00	0.00	
1,700.0	7.55	132.03	1,696.1	-45.0	49.9	-44.5	0.00	0.00	
1,800.0	7.55	132.03	1,795.2	-53.8	59.7	-53.2	0.00	0.00	
1,900.0	7.55	132.03	1,894.4	-62.6	69.4	-61.9	0.00	0.00	
2,000.0	7.55	132.03	1,993.5	-71.4	79.2	-70.6	0.00	0.00	
2,100.0	7.55	132.03	2,092.6	-80.2	88.9	-79.3	0.00	0.00	
2,200.0	7.55	132.03	2,191.8	-89.0	98.7	-88.0	0.00	0.00	
2,300.0	7.55	132.03	2,290.9	-97.8	108.5	-96.7	0.00	0.00	
2,400.0	7.55	132.03	2,390.0	-106.6	118.2	-105.4	0.00	0.00	
2,500.0	7.55	132.03	2,489.2	-115.4	128.0	-114.1	0.00	0.00	
2,600.0	7.55	132.03	2,588.3	-124.2	137.7	-122.8	0.00	0.00	
2,700.0	7.55	132.03	2,687.4	-133.0	147.5	-131.5	0.00	0.00	
2,800.0	7.55	132.03	2,786.6	-141.8	157.3	-140.2	0.00	0.00	
2,900.0	7.55	132.03	2,885.7	-150.6	167.0	-148.9	0.00	0.00	
3,000.0	7.55	132.03	2,984.8	-159.4	176.8	-157.6	0.00	0.00	
3,100.0	7.55	132.03	3,084.0	-168.1	186.5	-166.3	0.00	0.00	
3,200.0	7.55	132.03	3,183.1	-176.9	196.3	-175.0	0.00	0.00	
3,300.0	7.55	132.03	3,282.2	-185.7	206.0	-183.7	0.00	0.00	
3,400.0	7.55	132.03	3,381.4	-194.5	215.8	-192.4	0.00	0.00	
3,500.0	7.55	132.03	3,480.5	-203.3	225.6	-201.1	0.00	0.00	
3,600.0	7.55	132.03	3,579.6	-212.1	235.3	-209.8	0.00	0.00	
3,700.0	7.55	132.03	3,678.8	-220.9	245.1	-218.5	0.00	0.00	
3,800.0	7.55	132.03	3,777.9	-229.7	254.8	-227.2	0.00	0.00	
3,802.1	7.55	132.03	3,780.0	-229.9	255.0	-227.4	0.00	0.00	PARKMAN
3,900.0	7.55	132.03	3,877.0	-238.5	264.6	-235.9	0.00	0.00	
4,000.0	7.55	132.03	3,976.2	-247.3	274.3	-244.6	0.00	0.00	
4,100.0	7.55	132.03	4,075.3	-256.1	284.1	-253.3	0.00	0.00	
4,200.0	7.55	132.03	4,174.4	-264.9	293.9	-262.0	0.00	0.00	
4,300.0	7.55	132.03	4,273.6	-273.7	303.6	-270.7	0.00	0.00	
4,400.0	7.55	132.03	4,372.7	-282.5	313.4	-279.4	0.00	0.00	
4,500.0	7.55	132.03	4,471.8	-291.3	323.1	-288.1	0.00	0.00	
4,600.0	7.55	132.03	4,571.0	-300.1	332.9	-296.8	0.00	0.00	
4,616.2	7.55	132.03	4,587.0	-301.5	334.5	-298.2	0.00	0.00	SUSSEX
4,700.0	7.55	132.03	4,670.1	-308.9	342.7	-305.5	0.00	0.00	

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Site:	S32-T2N-R67W	**North Reference:**	True
Well:	Troudt #2	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft	Build Rate (°/100u	Comments / Formations
4,800.0	7.55	132.03	4,769.2	-317.7	352.4	-314.2	0.00	0.00	
4,900.0	7.55	132.03	4,868.4	-326.5	362.2	-322.9	0.00	0.00	
5,000.0	7.55	132.03	4,967.5	-335.3	371.9	-331.6	0.00	0.00	
5,012.6	7.55	132.03	4,980.0	-336.4	373.2	-332.7	0.00	0.00	SHANNON
5,100.0	7.55	132.03	5,066.6	-344.1	381.7	-340.3	0.00	0.00	
5,200.0	7.55	132.03	5,165.8	-352.9	391.4	-349.0	0.00	0.00	
5,300.0	7.55	132.03	5,264.9	-361.7	401.2	-357.7	0.00	0.00	
5,400.0	7.55	132.03	5,364.0	-370.5	411.0	-366.4	0.00	0.00	
5,500.0	7.55	132.03	5,463.2	-379.3	420.7	-375.1	0.00	0.00	
5,600.0	7.55	132.03	5,562.3	-388.1	430.5	-383.8	0.00	0.00	
5,700.0	7.55	132.03	5,661.4	-396.9	440.2	-392.5	0.00	0.00	
5,800.0	7.55	132.03	5,760.6	-405.7	450.0	-401.2	0.00	0.00	
5,900.0	7.55	132.03	5,859.7	-414.4	459.7	-409.9	0.00	0.00	
6,000.0	7.55	132.03	5,958.8	-423.2	469.5	-418.6	0.00	0.00	
6,100.0	7.55	132.03	6,058.0	-432.0	479.3	-427.3	0.00	0.00	
6,200.0	7.55	132.03	6,157.1	-440.8	489.0	-436.0	0.00	0.00	
6,300.0	7.55	132.03	6,256.2	-449.6	498.8	-444.7	0.00	0.00	
6,400.0	7.55	132.03	6,355.4	-458.4	508.5	-453.4	0.00	0.00	
6,500.0	7.55	132.03	6,454.5	-467.2	518.3	-462.1	0.00	0.00	
6,600.0	7.55	132.03	6,553.6	-476.0	528.1	-470.8	0.00	0.00	
6,700.0	7.55	132.03	6,652.8	-484.8	537.8	-479.5	0.00	0.00	
6,800.0	7.55	132.03	6,751.9	-493.6	547.6	-488.2	0.00	0.00	
6,900.0	7.55	132.03	6,851.0	-502.4	557.3	-496.9	0.00	0.00	
7,000.0	7.55	132.03	6,950.2	-511.2	567.1	-505.6	0.00	0.00	
7,100.0	7.55	132.03	7,049.3	-520.0	576.8	-514.3	0.00	0.00	
7,200.0	7.55	132.03	7,148.4	-528.8	586.6	-523.0	0.00	0.00	
7,276.4	7.55	132.03	7,224.2	-535.5	594.1	-529.7	0.00	0.00	Start build/turn @ 7276' MD
7,300.0	6.03	110.42	7,247.6	-537.0	596.4	-531.1	12.50	-6.46	
7,400.0	11.88	28.72	7,346.6	-529.8	606.3	-523.8	12.50	5.85	
7,500.0	23.61	13.69	7,441.8	-501.2	616.0	-495.1	12.50	11.73	
7,511.2	24.97	12.87	7,452.0	-496.7	617.1	-490.6	12.50	12.13	NIOBRARA
7,600.0	35.85	8.45	7,528.5	-452.6	625.1	-446.4	12.50	12.25	
7,700.0	48.21	5.65	7,602.6	-386.2	633.1	-380.0	12.50	12.36	
7,800.0	60.61	3.76	7,660.7	-305.3	639.6	-299.1	12.50	12.41	
7,831.0	64.47	3.27	7,675.0	-277.9	641.3	-271.6	12.50	12.42	FORT HAYS
7,900.0	73.04	2.29	7,700.0	-213.7	644.4	-207.4	12.50	12.43	
7,940.2	78.04	1.76	7,710.0	-174.8	645.8	-168.5	12.50	12.43	CODELL
8,000.0	85.48	1.01	7,718.6	-115.7	647.2	-109.4	12.50	12.44	
8,036.3	89.99	0.56	7,720.0	-79.4	647.7	-73.1	12.50	12.44	LP @ 7720' TVD; 90° - 7" ICP
8,100.0	90.00	0.56	7,720.0	-15.8	648.3	-9.4	0.01	0.01	
8,200.0	90.00	0.56	7,720.0	84.2	649.3	90.6	0.00	0.00	
8,300.0	90.00	0.56	7,720.0	184.2	650.3	190.6	0.00	0.00	
8,400.0	90.00	0.56	7,720.0	284.2	651.2	290.6	0.00	0.00	
8,500.0	90.00	0.56	7,720.0	384.2	652.2	390.6	0.00	0.00	
8,600.0	90.00	0.56	7,720.0	484.2	653.2	490.6	0.00	0.00	
8,700.0	90.00	0.56	7,720.0	584.2	654.1	590.6	0.00	0.00	
8,800.0	90.00	0.56	7,720.0	684.2	655.1	690.6	0.00	0.00	
8,900.0	90.00	0.56	7,720.0	784.2	656.1	790.6	0.00	0.00	
9,000.0	90.00	0.56	7,720.0	884.2	657.1	890.6	0.00	0.00	
9,100.0	90.00	0.56	7,720.0	984.2	658.0	990.6	0.00	0.00	
9,200.0	90.00	0.56	7,720.0	1,084.2	659.0	1,090.6	0.00	0.00	
9,300.0	90.00	0.56	7,720.0	1,184.2	660.0	1,190.6	0.00	0.00	

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Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft	Build Rate (°/100u	Comments / Formations
9,400.0	90.00	0.56	7,720.0	1,284.2	660.9	1,290.6	0.00	0.00	
9,500.0	90.00	0.56	7,720.0	1,384.2	661.9	1,390.6	0.00	0.00	
9,600.0	90.00	0.56	7,720.0	1,484.2	662.9	1,490.6	0.00	0.00	
9,700.0	90.00	0.56	7,720.0	1,584.2	663.8	1,590.6	0.00	0.00	
9,800.0	90.00	0.56	7,720.0	1,684.2	664.8	1,690.6	0.00	0.00	
9,900.0	90.00	0.56	7,720.0	1,784.2	665.8	1,790.6	0.00	0.00	
10,000.0	90.00	0.56	7,720.0	1,884.2	666.7	1,890.6	0.00	0.00	
10,100.0	90.00	0.56	7,720.0	1,984.1	667.7	1,990.6	0.00	0.00	
10,200.0	90.00	0.56	7,720.0	2,084.1	668.7	2,090.6	0.00	0.00	
10,300.0	90.00	0.56	7,720.0	2,184.1	669.7	2,190.6	0.00	0.00	
10,400.0	90.00	0.56	7,720.0	2,284.1	670.6	2,290.6	0.00	0.00	
10,500.0	90.00	0.56	7,720.0	2,384.1	671.6	2,390.6	0.00	0.00	
10,600.0	90.00	0.56	7,720.0	2,484.1	672.6	2,490.6	0.00	0.00	
10,700.0	90.00	0.56	7,720.0	2,584.1	673.5	2,590.6	0.00	0.00	
10,800.0	90.00	0.56	7,720.0	2,684.1	674.5	2,690.6	0.00	0.00	
10,900.0	90.00	0.56	7,720.0	2,784.1	675.5	2,790.6	0.00	0.00	
11,000.0	90.00	0.56	7,720.0	2,884.1	676.4	2,890.6	0.00	0.00	
11,100.0	90.00	0.56	7,720.0	2,984.1	677.4	2,990.6	0.00	0.00	
11,200.0	90.00	0.56	7,720.0	3,084.1	678.4	3,090.6	0.00	0.00	
11,300.0	90.00	0.56	7,720.0	3,184.1	679.3	3,190.6	0.00	0.00	
11,400.0	90.00	0.56	7,720.0	3,284.1	680.3	3,290.6	0.00	0.00	
11,500.0	90.00	0.56	7,720.0	3,384.1	681.3	3,390.6	0.00	0.00	
11,600.0	90.00	0.56	7,720.0	3,484.1	682.3	3,490.6	0.00	0.00	
11,700.0	90.00	0.56	7,720.0	3,584.1	683.2	3,590.6	0.00	0.00	
11,800.0	90.00	0.56	7,720.0	3,684.1	684.2	3,690.6	0.00	0.00	
11,900.0	90.00	0.56	7,720.0	3,784.1	685.2	3,790.6	0.00	0.00	
12,000.0	90.00	0.56	7,720.0	3,884.1	686.1	3,890.6	0.00	0.00	
12,100.0	90.00	0.56	7,720.0	3,984.0	687.1	3,990.6	0.00	0.00	
12,200.0	90.00	0.56	7,720.0	4,084.0	688.1	4,090.6	0.00	0.00	
12,300.0	90.00	0.56	7,720.0	4,184.0	689.0	4,190.6	0.00	0.00	
12,400.0	90.00	0.56	7,720.0	4,284.0	690.0	4,290.6	0.00	0.00	
12,500.0	90.00	0.56	7,720.0	4,384.0	691.0	4,390.6	0.00	0.00	
12,600.0	90.00	0.56	7,720.0	4,484.0	691.9	4,490.6	0.00	0.00	
12,700.0	90.00	0.56	7,720.0	4,584.0	692.9	4,590.6	0.00	0.00	
12,800.0	90.00	0.56	7,720.0	4,684.0	693.9	4,690.6	0.00	0.00	
12,900.0	90.00	0.56	7,720.0	4,784.0	694.9	4,790.6	0.00	0.00	
13,000.0	90.00	0.56	7,720.0	4,884.0	695.8	4,890.6	0.00	0.00	
13,100.0	90.00	0.56	7,720.0	4,984.0	696.8	4,990.6	0.00	0.00	
13,200.0	90.00	0.56	7,720.0	5,084.0	697.8	5,090.6	0.00	0.00	
13,300.0	90.00	0.56	7,720.0	5,184.0	698.7	5,190.6	0.00	0.00	
13,400.0	90.00	0.56	7,720.0	5,284.0	699.7	5,290.6	0.00	0.00	
13,500.0	90.00	0.56	7,720.0	5,384.0	700.7	5,390.6	0.00	0.00	
13,600.0	90.00	0.56	7,720.0	5,484.0	701.6	5,490.6	0.00	0.00	
13,700.0	90.00	0.56	7,720.0	5,584.0	702.6	5,590.6	0.00	0.00	
13,800.0	90.00	0.56	7,720.0	5,684.0	703.6	5,690.6	0.00	0.00	
13,900.0	90.00	0.56	7,720.0	5,784.0	704.5	5,790.6	0.00	0.00	
14,000.0	90.00	0.56	7,720.0	5,884.0	705.5	5,890.6	0.00	0.00	
14,100.0	90.00	0.56	7,720.0	5,983.9	706.5	5,990.6	0.00	0.00	
14,200.0	90.00	0.56	7,720.0	6,083.9	707.5	6,090.6	0.00	0.00	
14,300.0	90.00	0.56	7,720.0	6,183.9	708.4	6,190.6	0.00	0.00	
14,400.0	90.00	0.56	7,720.0	6,283.9	709.4	6,290.6	0.00	0.00	
14,500.0	90.00	0.56	7,720.0	6,383.9	710.4	6,390.6	0.00	0.00	

Database:	USA EDM 5000 Multi Users DB	**Local Co-ordinate Reference:**	Well Troudt #2
Company:	Extraction Oil & Gas	**TVD Reference:**	24' KB @ 5100.0usft (H&P 319)
Project:	WELD COUNTY, CO	**MD Reference:**	24' KB @ 5100.0usft (H&P 319)
Site:	S32-T2N-R67W	**North Reference:**	True
Well:	Troudt #2	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft	Build Rate (°/100u	Comments / Formations
14,600.0	90.00	0.56	7,720.0	6,483.9	711.3	6,490.6	0.00	0.00	
14,700.0	90.00	0.56	7,720.0	6,583.9	712.3	6,590.6	0.00	0.00	
14,800.0	90.00	0.56	7,720.0	6,683.9	713.3	6,690.6	0.00	0.00	
14,900.0	90.00	0.56	7,720.0	6,783.9	714.2	6,790.6	0.00	0.00	
15,000.0	90.00	0.56	7,720.0	6,883.9	715.2	6,890.6	0.00	0.00	
15,100.0	90.00	0.56	7,720.0	6,983.9	716.2	6,990.6	0.00	0.00	
15,200.0	90.00	0.56	7,720.0	7,083.9	717.1	7,090.6	0.00	0.00	
15,300.0	90.00	0.56	7,720.0	7,183.9	718.1	7,190.6	0.00	0.00	
15,400.0	90.00	0.56	7,720.0	7,283.9	719.1	7,290.6	0.00	0.00	
15,500.0	90.00	0.56	7,720.0	7,383.9	720.1	7,390.6	0.00	0.00	
15,600.0	90.00	0.56	7,720.0	7,483.9	721.0	7,490.6	0.00	0.00	
15,700.0	90.00	0.56	7,720.0	7,583.9	722.0	7,590.6	0.00	0.00	
15,800.0	90.00	0.56	7,720.0	7,683.9	723.0	7,690.6	0.00	0.00	
15,900.0	90.00	0.56	7,720.0	7,783.9	723.9	7,790.6	0.00	0.00	
16,000.0	90.00	0.56	7,720.0	7,883.9	724.9	7,890.6	0.00	0.00	
16,100.0	90.00	0.56	7,720.0	7,983.9	725.9	7,990.6	0.00	0.00	
16,200.0	90.00	0.56	7,720.0	8,083.8	726.8	8,090.6	0.00	0.00	
16,300.0	90.00	0.56	7,720.0	8,183.8	727.8	8,190.6	0.00	0.00	
16,400.0	90.00	0.56	7,720.0	8,283.8	728.8	8,290.6	0.00	0.00	
16,500.0	90.00	0.56	7,720.0	8,383.8	729.8	8,390.6	0.00	0.00	
16,600.0	90.00	0.56	7,720.0	8,483.8	730.7	8,490.6	0.00	0.00	
16,700.0	90.00	0.56	7,720.0	8,583.8	731.7	8,590.6	0.00	0.00	
16,800.0	90.00	0.56	7,720.0	8,683.8	732.7	8,690.6	0.00	0.00	
16,900.0	90.00	0.56	7,720.0	8,783.8	733.6	8,790.6	0.00	0.00	
17,000.0	90.00	0.56	7,720.0	8,883.8	734.6	8,890.6	0.00	0.00	
17,100.0	90.00	0.56	7,720.0	8,983.8	735.6	8,990.6	0.00	0.00	
17,200.0	90.00	0.56	7,720.0	9,083.8	736.5	9,090.6	0.00	0.00	
17,300.0	90.00	0.56	7,720.0	9,183.8	737.5	9,190.6	0.00	0.00	
17,400.0	90.00	0.56	7,720.0	9,283.8	738.5	9,290.6	0.00	0.00	
17,500.0	90.00	0.56	7,720.0	9,383.8	739.4	9,390.6	0.00	0.00	
17,600.0	90.00	0.56	7,720.0	9,483.8	740.4	9,490.6	0.00	0.00	
17,700.0	90.00	0.56	7,720.0	9,583.8	741.4	9,590.6	0.00	0.00	
17,800.0	90.00	0.56	7,720.0	9,683.8	742.4	9,690.6	0.00	0.00	
17,900.0	90.00	0.56	7,720.0	9,783.8	743.3	9,790.6	0.00	0.00	
18,000.0	90.00	0.56	7,720.0	9,883.8	744.3	9,890.6	0.00	0.00	
18,100.0	90.00	0.56	7,720.0	9,983.8	745.3	9,990.6	0.00	0.00	
18,107.6	90.00	0.56	7,720.0	9,991.4	745.3	9,998.2	0.00	0.00	TD at 18107.6 - 4 1/2"

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
Troudt #2 LP - plan hits target center - Point	0.00	0.00	7,720.0	-79.4	647.7	1,275,767.32	3,166,053.30	40.088847	-104.906500
Troudt #2 PBHL - plan hits target center - Point	0.00	0.00	7,720.0	9,991.4	745.3	1,285,838.58	3,166,083.78	40.116493	-104.906150

Database:	USA EDM 5000 Multi Users DB	**Local Co-ordinate Reference:**	Well Troudt #2
Company:	Extraction Oil & Gas	**TVD Reference:**	24' KB @ 5100.0usft (H&P 319)
Project:	WELD COUNTY, CO	**MD Reference:**	24' KB @ 5100.0usft (H&P 319)
Site:	S32-T2N-R67W	**North Reference:**	True
Well:	Troudt #2	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
850.0	850.0	9 5/8"	0	0
8,036.3	7,720.0	7" ICP	0	0
18,107.6	7,720.0	4 1/2"	0	0

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,802.1	3,780.0	PARKMAN			
4,616.2	4,587.0	SUSSEX			
5,012.6	4,980.0	SHANNON			
7,511.2	7,452.0	NIOBRARA			
7,831.0	7,675.0	FORT HAYS			
7,940.2	7,710.0	CODELL			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
1,000.0	1,000.0	0.0	0.0	KOP @ 1000'
1,377.5	1,376.4	-16.6	18.4	EOB; Inc=7.55°
7,276.4	7,224.2	-535.5	594.1	Start build/turn @ 7276' MD
8,036.3	7,720.0	-79.4	647.7	LP @ 7720' TVD; 90°
18,107.6	7,720.0	9,991.4	745.3	TD at 18107.6