

DUNAMIS ENERGY

**WELD COUNTY
SEC 34-T1N-R65W
JUDY 3-10-6N**

OWB

Plan: PROPOSAL 1

Standard Planning Report

27 November, 2025

Project: WELD COUNTY
Site: SEC 34-T1N-R65W
Well: JUDY 3-10-6N
Wellbore: OWB
Design: PROPOSAL 1

PROJECT DETAILS: WELD COUNTY
 Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: Colorado Northern Zone
 System Datum: Mean Sea Level



Azimuths to True North
 Magnetic North: 7.29°
 Magnetic Field
 Strength: 51287.3nT
 Dip Angle: 66.17°
 Date: 11/20/2025
 Model: IGRF2020

WELL DETAILS: JUDY 3-10-6N

+N/-S	+E/-W	Northing	Easting	5137.00	Latitude	Longitude	Slot
0.00	0.00	1244941.36	3236360.07		40.002663°N	104.656274°W	

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	
3	1504.22	22.08	103.34	1477.08	-48.50	204.52	2.00	103.34	93.93	
4	7212.96	22.08	103.34	6766.97	-543.76	2292.93	0.00	0.00	1053.11	
5	8063.58	90.00	180.11	7254.00	-1114.95	2484.22	10.00	77.71	1652.89	LP-JUDY 3-10-6N
6	17462.53	90.00	180.11	7254.00	-10513.89	2466.66	0.00	0.00	10799.36	PBHL-JUDY 3-10-6N

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1062.00	1068.04	LOWER ARAPAHOE
1317.00	1333.43	LARAMIE-FOX HILLS
2288.00	2379.35	UPPER PIERRE
4709.00	4992.04	PIERRE SHALE
5413.00	5751.78	TERRY SANDSTONE
5796.00	6165.11	HYGIENE SANDSTONE
7090.00	7601.66	PIERRE SHALE
7107.00	7627.56	SHARON SPRINGS SHALE
7254.00	8063.58	NIOBRARA CHALK/MARL

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	VSect	Departure	Annotation
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	Start Build 2.00
1504.22	22.08	103.34	1477.08	-48.50	204.52	93.93	210.19	Start 5708.74 hold at 1504.22 MD
7212.96	22.08	103.34	6766.97	-543.76	2292.93	1053.11	2356.52	Start DLS 10.00 TFO 77.71
8063.58	90.00	180.11	7254.00	-1114.95	2484.22	1652.89	2987.14	Start 9398.95 hold at 8063.58 MD
17462.53	90.00	180.11	7254.00	-10513.89	2466.66	10799.36	12386.10	TD at 17462.53

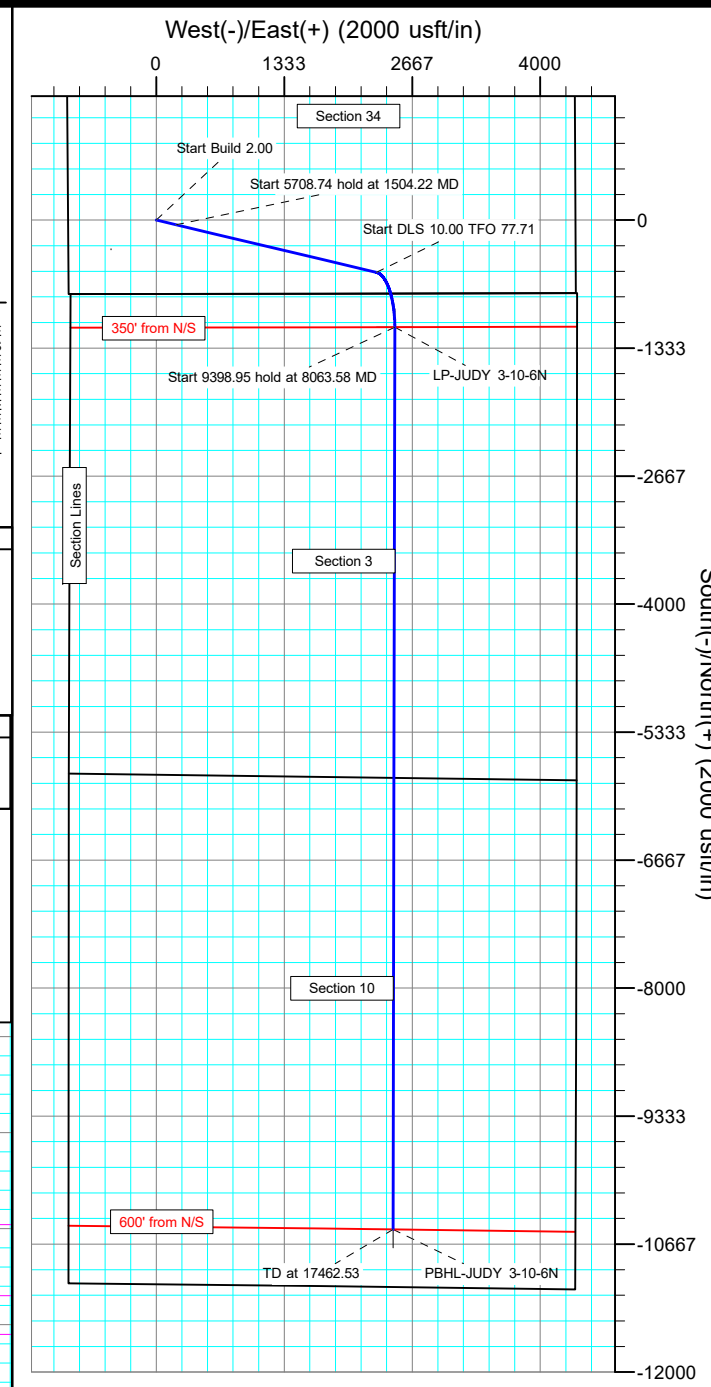
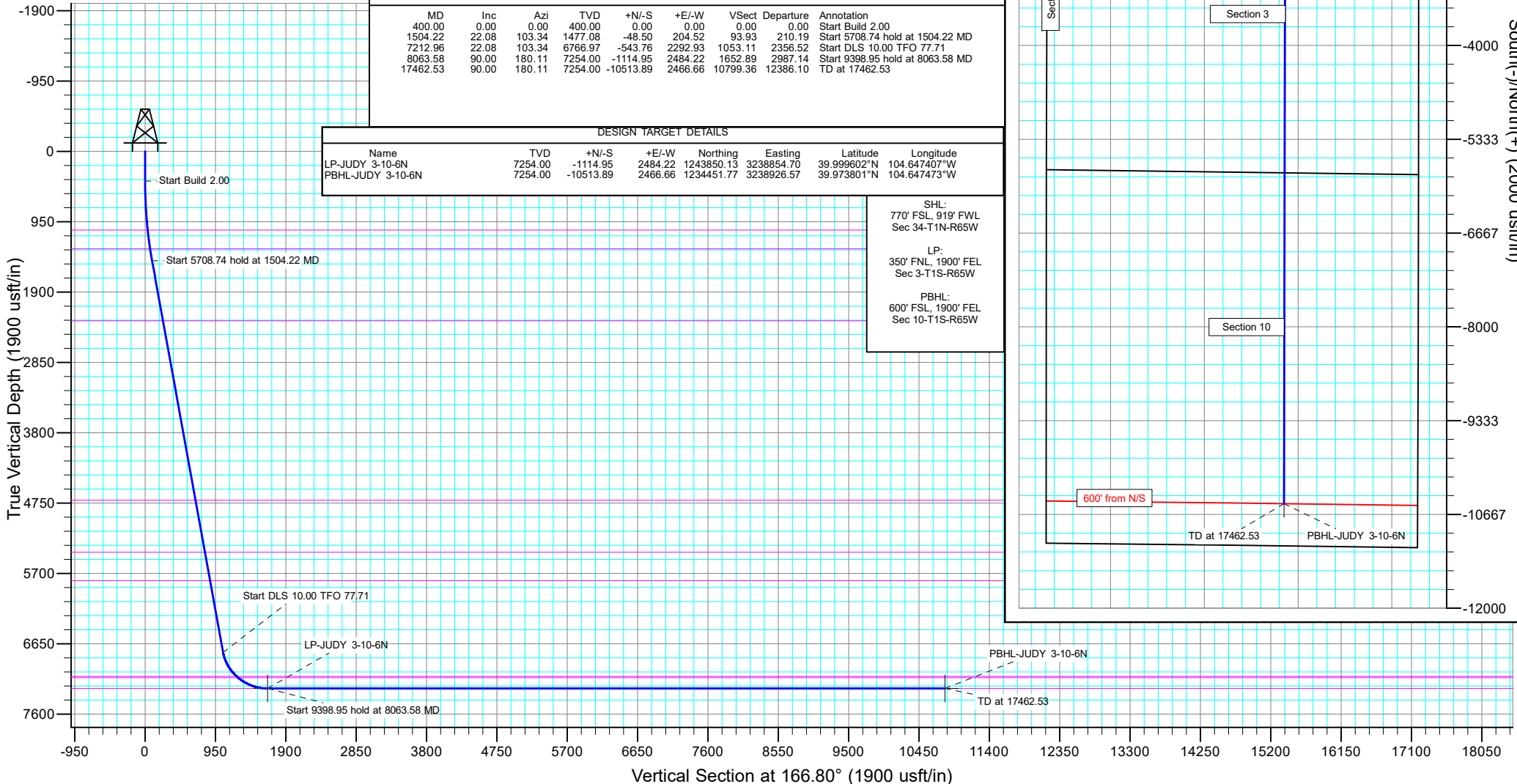
DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
LP-JUDY 3-10-6N	7254.00	-1114.95	2484.22	1243850.13	3238854.70	39.999602°N	104.647407°W
PBHL-JUDY 3-10-6N	7254.00	-10513.89	2466.66	1234451.77	3238926.57	39.973801°N	104.647473°W

SHL:
 770' FSL, 919' FWL
 Sec 34-T1N-R65W

LP:
 350' FNL, 1900' FEL
 Sec 3-T1S-R65W

PBHL:
 600' FSL, 1900' FEL
 Sec 10-T1S-R65W



Planning Report

Database:	EDM 5000.18 Single User Db	Local Co-ordinate Reference:	Well JUDY 3-10-6N
Company:	DUNAMIS ENERGY	TVD Reference:	KB 20' @ 5157.00usft
Project:	WELD COUNTY	MD Reference:	KB 20' @ 5157.00usft
Site:	SEC 34-T1N-R65W	North Reference:	True
Well:	JUDY 3-10-6N	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PROPOSAL 1		

Project	WELD COUNTY		
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	SEC 34-T1N-R65W				
Site Position:		Northing:	1,246,820.09 usft	Latitude:	40.007845°N
From:	Lat/Long	Easting:	3,235,409.35 usft	Longitude:	104.659604°W
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in		

Well	JUDY 3-10-6N					
Well Position	+N/-S	0.00 usft	Northing:	1,244,941.35 usft	Latitude:	40.002663°N
	+E/-W	0.00 usft	Easting:	3,236,360.07 usft	Longitude:	104.656274°W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	5,137.00 usft
Grid Convergence:		0.55 °				

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	11/20/2025	7.29	66.17	51,287.31924458

Design	PROPOSAL 1				
Audit Notes:					
Version:		Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:		Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
		0.00	0.00	0.00	166.80

Plan Survey Tool Program	Date	11/27/2025			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	17,462.53 PROPOSAL 1 (OWB)	MWD	OWSG MWD - Standard	

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,504.22	22.08	103.34	1,477.08	-48.50	204.52	2.00	2.00	0.00	103.34	
7,212.96	22.08	103.34	6,766.97	-543.76	2,292.93	0.00	0.00	0.00	0.00	
8,063.58	90.00	180.11	7,254.00	-1,114.95	2,484.22	10.00	7.98	9.02	77.71	LP-JUDY 3-10-6N
17,462.53	90.00	180.11	7,254.00	-10,513.89	2,466.66	0.00	0.00	0.00	0.00	PBHL-JUDY 3-10-6N

Planning Report

Database:	EDM 5000.18 Single User Db	Local Co-ordinate Reference:	Well JUDY 3-10-6N
Company:	DUNAMIS ENERGY	TVD Reference:	KB 20' @ 5157.00usft
Project:	WELD COUNTY	MD Reference:	KB 20' @ 5157.00usft
Site:	SEC 34-T1N-R65W	North Reference:	True
Well:	JUDY 3-10-6N	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PROPOSAL 1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00	
Start Build 2.00										
500.00	2.00	103.34	499.98	-0.40	1.70	0.78	2.00	2.00	0.00	
600.00	4.00	103.34	599.84	-1.61	6.79	3.12	2.00	2.00	0.00	
700.00	6.00	103.34	699.45	-3.62	15.27	7.01	2.00	2.00	0.00	
800.00	8.00	103.34	798.70	-6.43	27.13	12.46	2.00	2.00	0.00	
900.00	10.00	103.34	897.47	-10.04	42.35	19.45	2.00	2.00	0.00	
1,000.00	12.00	103.34	995.62	-14.45	60.91	27.98	2.00	2.00	0.00	
1,068.04	13.36	103.34	1,062.00	-17.89	75.45	34.65	2.00	2.00	0.00	
LOWER ARAPAHOE										
1,100.00	14.00	103.34	1,093.06	-19.64	82.80	38.03	2.00	2.00	0.00	
1,200.00	16.00	103.34	1,189.64	-25.61	107.98	49.59	2.00	2.00	0.00	
1,300.00	18.00	103.34	1,285.27	-32.35	136.43	62.66	2.00	2.00	0.00	
1,333.43	18.67	103.34	1,317.00	-34.78	146.66	67.36	2.00	2.00	0.00	
LARAMIE-FOX HILLS										
1,400.00	20.00	103.34	1,379.82	-39.87	168.11	77.21	2.00	2.00	0.00	
1,504.22	22.08	103.34	1,477.08	-48.50	204.52	93.93	2.00	2.00	0.00	
Start 5708.74 hold at 1504.22 MD										
1,600.00	22.08	103.34	1,565.83	-56.81	239.55	110.02	0.00	0.00	0.00	
1,700.00	22.08	103.34	1,658.50	-65.48	276.14	126.83	0.00	0.00	0.00	
1,800.00	22.08	103.34	1,751.16	-74.16	312.72	143.63	0.00	0.00	0.00	
1,900.00	22.08	103.34	1,843.82	-82.84	349.30	160.43	0.00	0.00	0.00	
2,000.00	22.08	103.34	1,936.49	-91.51	385.88	177.23	0.00	0.00	0.00	
2,100.00	22.08	103.34	2,029.15	-100.19	422.47	194.03	0.00	0.00	0.00	
2,200.00	22.08	103.34	2,121.81	-108.86	459.05	210.84	0.00	0.00	0.00	
2,300.00	22.08	103.34	2,214.47	-117.54	495.63	227.64	0.00	0.00	0.00	
2,379.35	22.08	103.34	2,288.00	-124.42	524.66	240.97	0.00	0.00	0.00	
UPPER PIERRE										
2,400.00	22.08	103.34	2,307.14	-126.21	532.22	244.44	0.00	0.00	0.00	
2,500.00	22.08	103.34	2,399.80	-134.89	568.80	261.24	0.00	0.00	0.00	
2,600.00	22.08	103.34	2,492.46	-143.56	605.38	278.04	0.00	0.00	0.00	
2,700.00	22.08	103.34	2,585.13	-152.24	641.96	294.84	0.00	0.00	0.00	
2,800.00	22.08	103.34	2,677.79	-160.91	678.55	311.65	0.00	0.00	0.00	
2,900.00	22.08	103.34	2,770.45	-169.59	715.13	328.45	0.00	0.00	0.00	
3,000.00	22.08	103.34	2,863.12	-178.27	751.71	345.25	0.00	0.00	0.00	
3,100.00	22.08	103.34	2,955.78	-186.94	788.29	362.05	0.00	0.00	0.00	
3,200.00	22.08	103.34	3,048.44	-195.62	824.88	378.85	0.00	0.00	0.00	
3,300.00	22.08	103.34	3,141.10	-204.29	861.46	395.66	0.00	0.00	0.00	
3,400.00	22.08	103.34	3,233.77	-212.97	898.04	412.46	0.00	0.00	0.00	
3,500.00	22.08	103.34	3,326.43	-221.64	934.63	429.26	0.00	0.00	0.00	
3,600.00	22.08	103.34	3,419.09	-230.32	971.21	446.06	0.00	0.00	0.00	
3,700.00	22.08	103.34	3,511.76	-238.99	1,007.79	462.86	0.00	0.00	0.00	
3,800.00	22.08	103.34	3,604.42	-247.67	1,044.37	479.67	0.00	0.00	0.00	
3,900.00	22.08	103.34	3,697.08	-256.34	1,080.96	496.47	0.00	0.00	0.00	
4,000.00	22.08	103.34	3,789.75	-265.02	1,117.54	513.27	0.00	0.00	0.00	
4,100.00	22.08	103.34	3,882.41	-273.70	1,154.12	530.07	0.00	0.00	0.00	
4,200.00	22.08	103.34	3,975.07	-282.37	1,190.70	546.87	0.00	0.00	0.00	
4,300.00	22.08	103.34	4,067.74	-291.05	1,227.29	563.68	0.00	0.00	0.00	
4,400.00	22.08	103.34	4,160.40	-299.72	1,263.87	580.48	0.00	0.00	0.00	

Planning Report

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Project:	WELD COUNTY	MD Reference:	KB 20' @ 5157.00usft
Site:	SEC 34-T1N-R65W	North Reference:	True
Well:	JUDY 3-10-6N	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PROPOSAL 1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
4,500.00	22.08	103.34	4,253.06	-308.40	1,300.45	597.28	0.00	0.00	0.00	
4,600.00	22.08	103.34	4,345.72	-317.07	1,337.04	614.08	0.00	0.00	0.00	
4,700.00	22.08	103.34	4,438.39	-325.75	1,373.62	630.88	0.00	0.00	0.00	
4,800.00	22.08	103.34	4,531.05	-334.42	1,410.20	647.68	0.00	0.00	0.00	
4,900.00	22.08	103.34	4,623.71	-343.10	1,446.78	664.49	0.00	0.00	0.00	
4,992.04	22.08	103.34	4,709.00	-351.08	1,480.45	679.95	0.00	0.00	0.00	
PIERRE SHALE										
5,000.00	22.08	103.34	4,716.38	-351.77	1,483.37	681.29	0.00	0.00	0.00	
5,100.00	22.08	103.34	4,809.04	-360.45	1,519.95	698.09	0.00	0.00	0.00	
5,200.00	22.08	103.34	4,901.70	-369.13	1,556.53	714.89	0.00	0.00	0.00	
5,300.00	22.08	103.34	4,994.37	-377.80	1,593.11	731.69	0.00	0.00	0.00	
5,400.00	22.08	103.34	5,087.03	-386.48	1,629.70	748.50	0.00	0.00	0.00	
5,500.00	22.08	103.34	5,179.69	-395.15	1,666.28	765.30	0.00	0.00	0.00	
5,600.00	22.08	103.34	5,272.36	-403.83	1,702.86	782.10	0.00	0.00	0.00	
5,700.00	22.08	103.34	5,365.02	-412.50	1,739.45	798.90	0.00	0.00	0.00	
5,751.78	22.08	103.34	5,413.00	-417.00	1,758.39	807.60	0.00	0.00	0.00	
TERRY SANDSTONE										
5,800.00	22.08	103.34	5,457.68	-421.18	1,776.03	815.70	0.00	0.00	0.00	
5,900.00	22.08	103.34	5,550.34	-429.85	1,812.61	832.51	0.00	0.00	0.00	
6,000.00	22.08	103.34	5,643.01	-438.53	1,849.19	849.31	0.00	0.00	0.00	
6,100.00	22.08	103.34	5,735.67	-447.20	1,885.78	866.11	0.00	0.00	0.00	
6,165.11	22.08	103.34	5,796.00	-452.85	1,909.59	877.05	0.00	0.00	0.00	
HYGIENE SANDSTONE										
6,200.00	22.08	103.34	5,828.33	-455.88	1,922.36	882.91	0.00	0.00	0.00	
6,300.00	22.08	103.34	5,921.00	-464.56	1,958.94	899.71	0.00	0.00	0.00	
6,400.00	22.08	103.34	6,013.66	-473.23	1,995.52	916.52	0.00	0.00	0.00	
6,500.00	22.08	103.34	6,106.32	-481.91	2,032.11	933.32	0.00	0.00	0.00	
6,600.00	22.08	103.34	6,198.99	-490.58	2,068.69	950.12	0.00	0.00	0.00	
6,700.00	22.08	103.34	6,291.65	-499.26	2,105.27	966.92	0.00	0.00	0.00	
6,800.00	22.08	103.34	6,384.31	-507.93	2,141.86	983.72	0.00	0.00	0.00	
6,900.00	22.08	103.34	6,476.97	-516.61	2,178.44	1,000.53	0.00	0.00	0.00	
7,000.00	22.08	103.34	6,569.64	-525.28	2,215.02	1,017.33	0.00	0.00	0.00	
7,100.00	22.08	103.34	6,662.30	-533.96	2,251.60	1,034.13	0.00	0.00	0.00	
7,200.00	22.08	103.34	6,754.96	-542.63	2,288.19	1,050.93	0.00	0.00	0.00	
7,212.96	22.08	103.34	6,766.97	-543.76	2,292.93	1,053.11	0.00	0.00	0.00	
Start DLS 10.00 TFO 77.71										
7,250.00	23.14	112.58	6,801.18	-548.16	2,306.43	1,060.48	10.00	2.86	24.95	
7,300.00	25.33	123.56	6,846.79	-557.86	2,324.43	1,074.03	10.00	4.38	21.95	
7,350.00	28.20	132.67	6,891.45	-571.78	2,342.04	1,091.61	10.00	5.74	18.22	
7,400.00	31.57	140.10	6,934.81	-589.84	2,359.13	1,113.10	10.00	6.73	14.87	
7,450.00	35.29	146.18	6,976.54	-611.90	2,375.57	1,138.32	10.00	7.44	12.15	
7,500.00	39.26	151.21	7,016.33	-637.78	2,391.24	1,167.10	10.00	7.94	10.05	
7,550.00	43.41	155.43	7,053.87	-667.29	2,406.01	1,199.20	10.00	8.30	8.44	
7,600.00	47.70	159.04	7,088.88	-700.20	2,419.78	1,234.38	10.00	8.57	7.22	
7,601.66	47.84	159.15	7,090.00	-701.35	2,420.22	1,235.61	10.00	8.68	6.70	
PIERRE SHALE										
7,627.56	50.10	160.82	7,107.00	-719.70	2,426.90	1,255.00	10.00	8.73	6.46	
SHARON SPRINGS SHALE										
7,650.00	52.08	162.19	7,121.09	-736.26	2,432.43	1,272.39	10.00	8.82	6.07	
7,700.00	56.54	164.98	7,150.26	-775.21	2,443.88	1,312.92	10.00	8.92	5.58	
7,750.00	61.05	167.49	7,176.16	-816.73	2,454.03	1,355.66	10.00	9.03	5.03	
7,800.00	65.61	169.79	7,198.60	-860.53	2,462.81	1,400.31	10.00	9.12	4.60	
7,850.00	70.20	171.93	7,217.40	-906.25	2,470.16	1,446.50	10.00	9.18	4.28	

Planning Report

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Company:	DUNAMIS ENERGY	TVD Reference:	KB 20' @ 5157.00usft
Project:	WELD COUNTY	MD Reference:	KB 20' @ 5157.00usft
Site:	SEC 34-T1N-R65W	North Reference:	True
Well:	JUDY 3-10-6N	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PROPOSAL 1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
7,900.00	74.81	173.95	7,232.43	-953.57	2,476.00	1,493.90	10.00	9.23	4.04
7,950.00	79.45	175.89	7,243.56	-1,002.10	2,480.31	1,542.14	10.00	9.26	3.87
8,000.00	84.09	177.76	7,250.72	-1,051.50	2,483.04	1,590.85	10.00	9.29	3.75
8,050.00	88.74	179.61	7,253.85	-1,101.37	2,484.19	1,639.66	10.00	9.30	3.69
8,063.58	90.00	180.11	7,254.00	-1,114.95	2,484.22	1,652.89	10.00	9.30	3.67
Start 9398.95 hold at 8063.58 MD - NIOBRARA CHALK/MARL - LP-JUDY 3-10-6N									
8,100.00	90.00	180.11	7,254.00	-1,151.37	2,484.15	1,688.33	0.00	0.00	0.00
8,200.00	90.00	180.11	7,254.00	-1,251.37	2,483.97	1,785.65	0.00	0.00	0.00
8,300.00	90.00	180.11	7,254.00	-1,351.37	2,483.78	1,882.96	0.00	0.00	0.00
8,400.00	90.00	180.11	7,254.00	-1,451.37	2,483.59	1,980.27	0.00	0.00	0.00
8,500.00	90.00	180.11	7,254.00	-1,551.37	2,483.41	2,077.59	0.00	0.00	0.00
8,600.00	90.00	180.11	7,254.00	-1,651.37	2,483.22	2,174.90	0.00	0.00	0.00
8,700.00	90.00	180.11	7,254.00	-1,751.37	2,483.03	2,272.22	0.00	0.00	0.00
8,800.00	90.00	180.11	7,254.00	-1,851.37	2,482.84	2,369.53	0.00	0.00	0.00
8,900.00	90.00	180.11	7,254.00	-1,951.37	2,482.66	2,466.84	0.00	0.00	0.00
9,000.00	90.00	180.11	7,254.00	-2,051.37	2,482.47	2,564.16	0.00	0.00	0.00
9,100.00	90.00	180.11	7,254.00	-2,151.37	2,482.28	2,661.47	0.00	0.00	0.00
9,200.00	90.00	180.11	7,254.00	-2,251.37	2,482.10	2,758.78	0.00	0.00	0.00
9,300.00	90.00	180.11	7,254.00	-2,351.37	2,481.91	2,856.10	0.00	0.00	0.00
9,400.00	90.00	180.11	7,254.00	-2,451.37	2,481.72	2,953.41	0.00	0.00	0.00
9,500.00	90.00	180.11	7,254.00	-2,551.37	2,481.54	3,050.72	0.00	0.00	0.00
9,600.00	90.00	180.11	7,254.00	-2,651.37	2,481.35	3,148.04	0.00	0.00	0.00
9,700.00	90.00	180.11	7,254.00	-2,751.37	2,481.16	3,245.35	0.00	0.00	0.00
9,800.00	90.00	180.11	7,254.00	-2,851.37	2,480.98	3,342.67	0.00	0.00	0.00
9,900.00	90.00	180.11	7,254.00	-2,951.37	2,480.79	3,439.98	0.00	0.00	0.00
10,000.00	90.00	180.11	7,254.00	-3,051.36	2,480.60	3,537.29	0.00	0.00	0.00
10,100.00	90.00	180.11	7,254.00	-3,151.36	2,480.42	3,634.61	0.00	0.00	0.00
10,200.00	90.00	180.11	7,254.00	-3,251.36	2,480.23	3,731.92	0.00	0.00	0.00
10,300.00	90.00	180.11	7,254.00	-3,351.36	2,480.04	3,829.23	0.00	0.00	0.00
10,400.00	90.00	180.11	7,254.00	-3,451.36	2,479.86	3,926.55	0.00	0.00	0.00
10,500.00	90.00	180.11	7,254.00	-3,551.36	2,479.67	4,023.86	0.00	0.00	0.00
10,600.00	90.00	180.11	7,254.00	-3,651.36	2,479.48	4,121.18	0.00	0.00	0.00
10,700.00	90.00	180.11	7,254.00	-3,751.36	2,479.30	4,218.49	0.00	0.00	0.00
10,800.00	90.00	180.11	7,254.00	-3,851.36	2,479.11	4,315.80	0.00	0.00	0.00
10,900.00	90.00	180.11	7,254.00	-3,951.36	2,478.92	4,413.12	0.00	0.00	0.00
11,000.00	90.00	180.11	7,254.00	-4,051.36	2,478.74	4,510.43	0.00	0.00	0.00
11,100.00	90.00	180.11	7,254.00	-4,151.36	2,478.55	4,607.74	0.00	0.00	0.00
11,200.00	90.00	180.11	7,254.00	-4,251.36	2,478.36	4,705.06	0.00	0.00	0.00
11,300.00	90.00	180.11	7,254.00	-4,351.36	2,478.17	4,802.37	0.00	0.00	0.00
11,400.00	90.00	180.11	7,254.00	-4,451.36	2,477.99	4,899.69	0.00	0.00	0.00
11,500.00	90.00	180.11	7,254.00	-4,551.36	2,477.80	4,997.00	0.00	0.00	0.00
11,600.00	90.00	180.11	7,254.00	-4,651.36	2,477.61	5,094.31	0.00	0.00	0.00
11,700.00	90.00	180.11	7,254.00	-4,751.36	2,477.43	5,191.63	0.00	0.00	0.00
11,800.00	90.00	180.11	7,254.00	-4,851.36	2,477.24	5,288.94	0.00	0.00	0.00
11,900.00	90.00	180.11	7,254.00	-4,951.36	2,477.05	5,386.25	0.00	0.00	0.00
12,000.00	90.00	180.11	7,254.00	-5,051.36	2,476.87	5,483.57	0.00	0.00	0.00
12,100.00	90.00	180.11	7,254.00	-5,151.36	2,476.68	5,580.88	0.00	0.00	0.00
12,200.00	90.00	180.11	7,254.00	-5,251.36	2,476.49	5,678.20	0.00	0.00	0.00
12,300.00	90.00	180.11	7,254.00	-5,351.36	2,476.31	5,775.51	0.00	0.00	0.00
12,400.00	90.00	180.11	7,254.00	-5,451.36	2,476.12	5,872.82	0.00	0.00	0.00
12,500.00	90.00	180.11	7,254.00	-5,551.36	2,475.93	5,970.14	0.00	0.00	0.00
12,600.00	90.00	180.11	7,254.00	-5,651.36	2,475.75	6,067.45	0.00	0.00	0.00
12,700.00	90.00	180.11	7,254.00	-5,751.36	2,475.56	6,164.76	0.00	0.00	0.00
12,800.00	90.00	180.11	7,254.00	-5,851.36	2,475.37	6,262.08	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.18 Single User Db	Local Co-ordinate Reference:	Well JUDY 3-10-6N
Company:	DUNAMIS ENERGY	TVD Reference:	KB 20' @ 5157.00usft
Project:	WELD COUNTY	MD Reference:	KB 20' @ 5157.00usft
Site:	SEC 34-T1N-R65W	North Reference:	True
Well:	JUDY 3-10-6N	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PROPOSAL 1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
12,900.00	90.00	180.11	7,254.00	-5,951.36	2,475.19	6,359.39	0.00	0.00	0.00	
13,000.00	90.00	180.11	7,254.00	-6,051.36	2,475.00	6,456.70	0.00	0.00	0.00	
13,100.00	90.00	180.11	7,254.00	-6,151.36	2,474.81	6,554.02	0.00	0.00	0.00	
13,200.00	90.00	180.11	7,254.00	-6,251.36	2,474.63	6,651.33	0.00	0.00	0.00	
13,300.00	90.00	180.11	7,254.00	-6,351.36	2,474.44	6,748.65	0.00	0.00	0.00	
13,400.00	90.00	180.11	7,254.00	-6,451.36	2,474.25	6,845.96	0.00	0.00	0.00	
13,500.00	90.00	180.11	7,254.00	-6,551.36	2,474.06	6,943.27	0.00	0.00	0.00	
13,600.00	90.00	180.11	7,254.00	-6,651.36	2,473.88	7,040.59	0.00	0.00	0.00	
13,700.00	90.00	180.11	7,254.00	-6,751.36	2,473.69	7,137.90	0.00	0.00	0.00	
13,800.00	90.00	180.11	7,254.00	-6,851.36	2,473.50	7,235.21	0.00	0.00	0.00	
13,900.00	90.00	180.11	7,254.00	-6,951.36	2,473.32	7,332.53	0.00	0.00	0.00	
14,000.00	90.00	180.11	7,254.00	-7,051.36	2,473.13	7,429.84	0.00	0.00	0.00	
14,100.00	90.00	180.11	7,254.00	-7,151.36	2,472.94	7,527.16	0.00	0.00	0.00	
14,200.00	90.00	180.11	7,254.00	-7,251.36	2,472.76	7,624.47	0.00	0.00	0.00	
14,300.00	90.00	180.11	7,254.00	-7,351.36	2,472.57	7,721.78	0.00	0.00	0.00	
14,400.00	90.00	180.11	7,254.00	-7,451.36	2,472.38	7,819.10	0.00	0.00	0.00	
14,500.00	90.00	180.11	7,254.00	-7,551.36	2,472.20	7,916.41	0.00	0.00	0.00	
14,600.00	90.00	180.11	7,254.00	-7,651.36	2,472.01	8,013.72	0.00	0.00	0.00	
14,700.00	90.00	180.11	7,254.00	-7,751.36	2,471.82	8,111.04	0.00	0.00	0.00	
14,800.00	90.00	180.11	7,254.00	-7,851.36	2,471.64	8,208.35	0.00	0.00	0.00	
14,900.00	90.00	180.11	7,254.00	-7,951.36	2,471.45	8,305.67	0.00	0.00	0.00	
15,000.00	90.00	180.11	7,254.00	-8,051.36	2,471.26	8,402.98	0.00	0.00	0.00	
15,100.00	90.00	180.11	7,254.00	-8,151.36	2,471.08	8,500.29	0.00	0.00	0.00	
15,200.00	90.00	180.11	7,254.00	-8,251.36	2,470.89	8,597.61	0.00	0.00	0.00	
15,300.00	90.00	180.11	7,254.00	-8,351.36	2,470.70	8,694.92	0.00	0.00	0.00	
15,400.00	90.00	180.11	7,254.00	-8,451.36	2,470.52	8,792.23	0.00	0.00	0.00	
15,500.00	90.00	180.11	7,254.00	-8,551.36	2,470.33	8,889.55	0.00	0.00	0.00	
15,600.00	90.00	180.11	7,254.00	-8,651.36	2,470.14	8,986.86	0.00	0.00	0.00	
15,700.00	90.00	180.11	7,254.00	-8,751.36	2,469.96	9,084.17	0.00	0.00	0.00	
15,800.00	90.00	180.11	7,254.00	-8,851.35	2,469.77	9,181.49	0.00	0.00	0.00	
15,900.00	90.00	180.11	7,254.00	-8,951.35	2,469.58	9,278.80	0.00	0.00	0.00	
16,000.00	90.00	180.11	7,254.00	-9,051.35	2,469.39	9,376.12	0.00	0.00	0.00	
16,100.00	90.00	180.11	7,254.00	-9,151.35	2,469.21	9,473.43	0.00	0.00	0.00	
16,200.00	90.00	180.11	7,254.00	-9,251.35	2,469.02	9,570.74	0.00	0.00	0.00	
16,300.00	90.00	180.11	7,254.00	-9,351.35	2,468.83	9,668.06	0.00	0.00	0.00	
16,400.00	90.00	180.11	7,254.00	-9,451.35	2,468.65	9,765.37	0.00	0.00	0.00	
16,500.00	90.00	180.11	7,254.00	-9,551.35	2,468.46	9,862.68	0.00	0.00	0.00	
16,600.00	90.00	180.11	7,254.00	-9,651.35	2,468.27	9,960.00	0.00	0.00	0.00	
16,700.00	90.00	180.11	7,254.00	-9,751.35	2,468.09	10,057.31	0.00	0.00	0.00	
16,800.00	90.00	180.11	7,254.00	-9,851.35	2,467.90	10,154.63	0.00	0.00	0.00	
16,900.00	90.00	180.11	7,254.00	-9,951.35	2,467.71	10,251.94	0.00	0.00	0.00	
17,000.00	90.00	180.11	7,254.00	-10,051.35	2,467.53	10,349.25	0.00	0.00	0.00	
17,100.00	90.00	180.11	7,254.00	-10,151.35	2,467.34	10,446.57	0.00	0.00	0.00	
17,200.00	90.00	180.11	7,254.00	-10,251.35	2,467.15	10,543.88	0.00	0.00	0.00	
17,300.00	90.00	180.11	7,254.00	-10,351.35	2,466.97	10,641.19	0.00	0.00	0.00	
17,400.00	90.00	180.11	7,254.00	-10,451.35	2,466.78	10,738.51	0.00	0.00	0.00	
17,462.53	90.00	180.11	7,254.00	-10,513.89	2,466.66	10,799.36	0.00	0.00	0.00	
TD at 17462.53 - PBHL-JUDY 3-10-6N										

Planning Report

Database:	EDM 5000.18 Single User Db	Local Co-ordinate Reference:	Well JUDY 3-10-6N
Company:	DUNAMIS ENERGY	TVD Reference:	KB 20' @ 5157.00usft
Project:	WELD COUNTY	MD Reference:	KB 20' @ 5157.00usft
Site:	SEC 34-T1N-R65W	North Reference:	True
Well:	JUDY 3-10-6N	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PROPOSAL 1		

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
- Shape									
LP-JUDY 3-10-6N - plan hits target center - Point	0.00	0.00	7,254.00	-1,114.95	2,484.22	1,243,850.13	3,238,854.71	39.999602°N	104.647407°W
PBHL-JUDY 3-10-6N - plan hits target center - Point	0.00	0.00	7,254.00	-10,513.89	2,466.66	1,234,451.77	3,238,926.58	39.973801°N	104.647473°W

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(usft)	(usft)			(°)	(°)	
1,068.04	1,062.00	LOWER ARAPAHOE				
1,333.43	1,317.00	LARAMIE-FOX HILLS				
2,379.35	2,288.00	UPPER PIERRE				
4,992.04	4,709.00	PIERRE SHALE				
5,751.78	5,413.00	TERRY SANDSTONE				
6,165.11	5,796.00	HYGIENE SANDSTONE				
7,601.66	7,090.00	PIERRE SHALE				
7,627.56	7,107.00	SHARON SPRINGS SHALE				
8,063.58	7,254.00	NIOBRARA CHALK/MARL		0.00		

Plan Annotations					
Measured Depth	Vertical Depth	Local Coordinates		Comment	
(usft)	(usft)	+N/-S	+E/-W		
		(usft)	(usft)		
400.00	400.00	0.00	0.00	Start Build 2.00	
1,504.22	1,477.08	-48.50	204.52	Start 5708.74 hold at 1504.22 MD	
7,212.96	6,766.97	-543.76	2,292.93	Start DLS 10.00 TFO 77.71	
8,063.58	7,254.00	-1,114.95	2,484.22	Start 9398.95 hold at 8063.58 MD	
17,462.53	7,254.00	-10,513.89	2,466.66	TD at 17462.53	