

GMT Exploration

Location DJ Basin Slot RED LADY 6-64 4-6 7HN
Field Elbert County Wells Well RED LADY 6-64 4-6 3HN
Installation Ragged 6-64 4 Pad Wellbore RED LADY 6-64 4-6 3HN (PWB)

Created by vinnie.wolfram

Date plotted 19-Jun-2024

Plot reference is RED LADY 6-64 4-6 3HN (PWB).

Ref wellpath is RED LADY 6-64 4-6 3HN (PWB).

Coordinates are in Feet reference RED LADY 6-64 4-6 7HN.

True Vertical Depths are reference Rig Datum.

Measured Depths are reference Rig Datum.

Rig Datum: Planned Datum #1

Rig Datum to Mean Sea Level: 6014.80 ft.

Plot North is aligned to TRUE North.

Scale 1 cm = 1000 ft

East (Feet) ->

-18000 -16000 -14000 -12000 -10000 -8000 -6000 -4000 -2000 0 2000

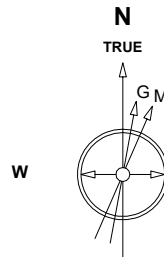
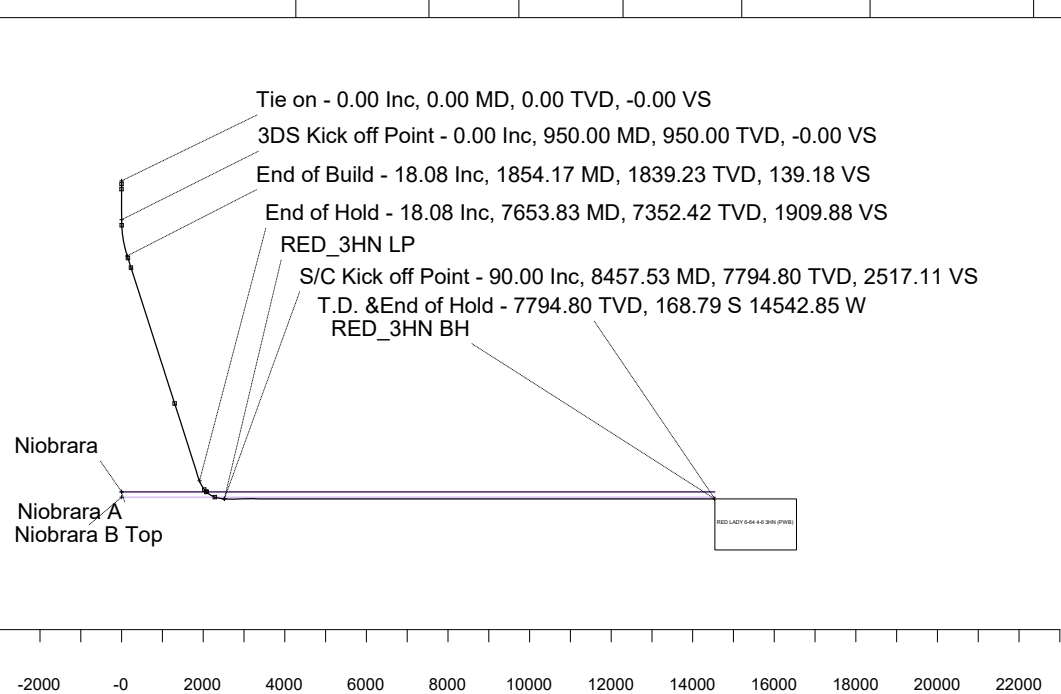


WELL PROFILE DATA

Point	MD	Inc	Azi	TVD	North	East	deg/100ft	V. Sect
Tie on	0.00	0.00	0.00	0.00	S 0.00	W 0.00		-0.00
KOP	950.00	0.00	258.94	950.00	S 0.00	W 0.00	0.00	-0.00
End of Build	1854.17	18.08	258.94	1839.23	S 27.14	W 138.88	2.00	139.18
End of Hold	7653.83	18.08	258.94	7352.42	S 372.36	W 1905.69	0.00	1909.88
Target RED_3HN LP	8457.53	90.00	271.06	7794.80	S 391.45	W 2512.74	9.00	2517.11
T.D. & Target RED... BH	20489.71	90.00	271.06	7794.80	S 168.79	W 14542.85	0.00	14543.83

<- North(Feet)

Scale 1 cm = 1000 ft



Jan-3-2023
IGRF-13 Dip: 65.95 deg Field: 51361.9 nT
Lat: N39 33 44.1720 Long: W104 33 5.5800 Elev: 6016.70 ft
Magnetic North is 7.50 deg East of TRUE North
To correct azimuth from Magnetic to TRUE add 7.50 deg

Scale 1 cm = 1000 ft

Vertical Section (Feet) ->

Azimuth 269.34 with reference 0.00 N, 0.00 E from RED LADY 6-64 4-6 7HN



SYSDRILL
Well Design Combined Report
Wellbore: RED LADY 6-64 4-6 3HN (PWB)



Wellhead Details							
Name	Latitude	Longitude	Northing	Easting	North	East	Slot Elevation Above Ground
RED LADY 6-64 4-6 7HN	39.56193900	-104.55123400	1084705.5710	3267502.4232	120.57S	89.09E	0.00

Declination		
Date	Source	Time
Jan-3-2023	IGRF-13	10:05

Installation Details						
Name	Installation Position (Latitude)	Installation Position (Longitude)	Northing	Easting	Coord System Name	North Alignment
Ragged 6-64 4 Pad	39.56227000	-104.55155000	1084825.1840	3267412.0415	NAD83 Colorado State Planes, North Zone, US Foot	True

Summary Wellpath								
MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	Vertical Depth SS	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]
0.00	0.00	0.00	0.00	-6014.80	0.00N	0.00E		0.00
950.00	0.00	258.94	950.00	-5064.80	0.00N	0.00E	==>	0.00
1854.17	18.08	258.94	1839.23	-4175.57	27.14S	138.88W	2.00	139.18
7653.83	18.08	258.94	7352.42	1337.62	372.36S	1905.69W	==>	1909.88
8457.53	90.00	271.06	7794.80	1780.00	391.45S	2512.74W	9.00	2517.11
20489.71	90.00	271.06	7794.80	1780.00	168.79S	14542.85W	==>	14543.83

Interpolated Wellpath								
MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	All Station Comments
0.00	0.00	0.00	0.00	0.00N	0.00E		0.00	Tie on, Slot Datum
76.00	0.00	0.00	76.00	0.00N	0.00E	==>	0.00	Lower Dawson
100.00	0.00	0.00	100.00	0.00N	0.00E	==>	0.00	
200.00	0.00	0.00	200.00	0.00N	0.00E	==>	0.00	
201.00	0.00	0.00	201.00	0.00N	0.00E	==>	0.00	Denver
300.00	0.00	0.00	300.00	0.00N	0.00E	==>	0.00	
400.00	0.00	0.00	400.00	0.00N	0.00E	==>	0.00	
500.00	0.00	0.00	500.00	0.00N	0.00E	==>	0.00	
600.00	0.00	0.00	600.00	0.00N	0.00E	==>	0.00	
700.00	0.00	0.00	700.00	0.00N	0.00E	==>	0.00	
800.00	0.00	0.00	800.00	0.00N	0.00E	==>	0.00	
900.00	0.00	0.00	900.00	0.00N	0.00E	==>	0.00	
950.00	0.00	258.94	950.00	0.00N	0.00E	==>	0.00	3DS Kick off Point
1000.00	1.00	258.94	1000.00	0.08S	0.43W	2.00	0.43	
1088.05	2.76	258.94	1088.00	0.64S	3.26W	2.00	3.27	Upper Arapahoe
1100.00	3.00	258.94	1099.93	0.75S	3.85W	2.00	3.86	
1200.00	5.00	258.94	1199.68	2.09S	10.70W	2.00	10.72	
1300.00	7.00	258.94	1299.13	4.09S	20.96W	2.00	21.00	
1400.00	9.00	258.94	1398.15	6.76S	34.62W	2.00	34.69	
1500.00	11.00	258.94	1496.63	10.09S	51.66W	2.00	51.77	
1600.00	13.00	258.94	1594.44	14.08S	72.06W	2.00	72.22	
1700.00	15.00	258.94	1691.46	18.72S	95.80W	2.00	96.01	
1800.00	17.00	258.94	1787.58	24.01S	122.85W	2.00	123.12	
1854.17	18.08	258.94	1839.23	27.14S	138.88W	2.00	139.18	End of Build
1900.00	18.08	258.94	1882.80	29.86S	152.84W	==>	153.18	
1910.73	18.08	258.94	1893.00	30.50S	156.11W	==>	156.45	Laramie - Fox Hills
2000.00	18.08	258.94	1977.86	35.82S	183.30W	==>	183.71	
2100.00	18.08	258.94	2072.92	41.77S	213.77W	==>	214.24	
2156.89	18.08	258.94	2127.00	45.16S	231.10W	==>	231.61	Pierre Shale (Base of Fox Hills)
2200.00	18.08	258.94	2167.98	47.72S	244.23W	==>	244.77	

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Coordinates are from Slot MD's are from Rig (Planned Datum #1 6014.8ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 269.34 degrees
Bottom hole distance is 14543.83 Feet on azimuth 269.34 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by
Date Printed: 19-Jun-2024



SYSDRILL
Well Design Combined Report
Wellbore: RED LADY 6-64 4-6 3HN (PWB)



Interpolated Wellpath								
MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	All Station Comments
2300.00	18.08	258.94	2263.04	53.67S	274.70W	==>	275.30	
2400.00	18.08	258.94	2358.10	59.63S	305.16W	==>	305.83	
2500.00	18.08	258.94	2453.16	65.58S	335.62W	==>	336.36	
2600.00	18.08	258.94	2548.22	71.53S	366.09W	==>	366.89	
2700.00	18.08	258.94	2643.28	77.48S	396.55W	==>	397.42	
2800.00	18.08	258.94	2738.34	83.44S	427.02W	==>	427.96	
2900.00	18.08	258.94	2833.41	89.39S	457.48W	==>	458.49	
3000.00	18.08	258.94	2928.47	95.34S	487.94W	==>	489.02	
3100.00	18.08	258.94	3023.53	101.29S	518.41W	==>	519.55	
3200.00	18.08	258.94	3118.59	107.25S	548.87W	==>	550.08	
3300.00	18.08	258.94	3213.65	113.20S	579.34W	==>	580.61	
3400.00	18.08	258.94	3308.71	119.15S	609.80W	==>	611.14	
3500.00	18.08	258.94	3403.77	125.10S	640.26W	==>	641.67	
3600.00	18.08	258.94	3498.83	131.06S	670.73W	==>	672.20	
3700.00	18.08	258.94	3593.89	137.01S	701.19W	==>	702.73	
3800.00	18.08	258.94	3688.95	142.96S	731.66W	==>	733.27	
3900.00	18.08	258.94	3784.01	148.91S	762.12W	==>	763.80	
4000.00	18.08	258.94	3879.07	154.87S	792.58W	==>	794.33	
4100.00	18.08	258.94	3974.13	160.82S	823.05W	==>	824.86	
4200.00	18.08	258.94	4069.19	166.77S	853.51W	==>	855.39	
4300.00	18.08	258.94	4164.25	172.73S	883.98W	==>	885.92	
4400.00	18.08	258.94	4259.31	178.68S	914.44W	==>	916.45	
4500.00	18.08	258.94	4354.37	184.63S	944.90W	==>	946.98	
4600.00	18.08	258.94	4449.43	190.58S	975.37W	==>	977.51	
4700.00	18.08	258.94	4544.50	196.54S	1005.83W	==>	1008.05	
4800.00	18.08	258.94	4639.56	202.49S	1036.30W	==>	1038.58	
4900.00	18.08	258.94	4734.62	208.44S	1066.76W	==>	1069.11	
5000.00	18.08	258.94	4829.68	214.39S	1097.22W	==>	1099.64	
5100.00	18.08	258.94	4924.74	220.35S	1127.69W	==>	1130.17	
5200.00	18.08	258.94	5019.80	226.30S	1158.15W	==>	1160.70	
5300.00	18.08	258.94	5114.86	232.25S	1188.62W	==>	1191.23	
5400.00	18.08	258.94	5209.92	238.20S	1219.08W	==>	1221.76	
5500.00	18.08	258.94	5304.98	244.16S	1249.54W	==>	1252.29	
5600.00	18.08	258.94	5400.04	250.11S	1280.01W	==>	1282.82	
5659.92	18.08	258.94	5457.00	253.67S	1298.26W	==>	1301.12	Sussex Sandstone
5700.00	18.08	258.94	5495.10	256.06S	1310.47W	==>	1313.36	
5800.00	18.08	258.94	5590.16	262.01S	1340.94W	==>	1343.89	
5900.00	18.08	258.94	5685.22	267.97S	1371.40W	==>	1374.42	
6000.00	18.08	258.94	5780.28	273.92S	1401.86W	==>	1404.95	
6100.00	18.08	258.94	5875.34	279.87S	1432.33W	==>	1435.48	
6200.00	18.08	258.94	5970.40	285.82S	1462.79W	==>	1466.01	
6300.00	18.08	258.94	6065.46	291.78S	1493.26W	==>	1496.54	
6400.00	18.08	258.94	6160.53	297.73S	1523.72W	==>	1527.07	
6500.00	18.08	258.94	6255.59	303.68S	1554.18W	==>	1557.60	
6600.00	18.08	258.94	6350.65	309.63S	1584.65W	==>	1588.14	
6700.00	18.08	258.94	6445.71	315.59S	1615.11W	==>	1618.67	
6800.00	18.08	258.94	6540.77	321.54S	1645.58W	==>	1649.20	
6900.00	18.08	258.94	6635.83	327.49S	1676.04W	==>	1679.73	
7000.00	18.08	258.94	6730.89	333.44S	1706.50W	==>	1710.26	
7100.00	18.08	258.94	6825.95	339.40S	1736.97W	==>	1740.79	
7200.00	18.08	258.94	6921.01	345.35S	1767.43W	==>	1771.32	
7300.00	18.08	258.94	7016.07	351.30S	1797.90W	==>	1801.85	
7400.00	18.08	258.94	7111.13	357.25S	1828.36W	==>	1832.38	
7500.00	18.08	258.94	7206.19	363.21S	1858.82W	==>	1862.91	
7600.00	18.08	258.94	7301.25	369.16S	1889.29W	==>	1893.45	
7653.83	18.08	258.94	7352.42	372.36S	1905.69W	==>	1909.88	End of Hold
7700.00	22.15	261.37	7395.77	375.04S	1921.33W	9.00	1925.56	

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Coordinates are from Slot MD's are from Rig (Planned Datum #1 6014.8ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 269.34 degrees
Bottom hole distance is 14543.83 Feet on azimuth 269.34 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by
Date Printed: 19-Jun-2024



SYSDRILL
Well Design Combined Report
Wellbore: RED LADY 6-64 4-6 3HN (PWB)



Interpolated Wellpath								
MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	All Station Comments
7800.00	31.05	264.52	7485.10	380.35S	1965.74W	9.00	1970.02	
7900.00	39.98	266.37	7566.41	384.85S	2023.59W	9.00	2027.92	
7900.77	40.05	266.38	7567.00	384.88S	2024.08W	9.00	2028.41	Sharon Springs Shale
7969.31	46.19	267.29	7617.01	387.44S	2070.84W	9.00	2075.20	Niobrara
7983.93	47.50	267.46	7627.01	387.93S	2081.49W	9.00	2085.85	Niobrara A
8000.00	48.94	267.64	7637.71	388.44S	2093.46W	9.00	2097.83	
8100.00	57.91	268.60	7697.24	391.04S	2173.64W	9.00	2178.04	
8200.00	66.88	269.38	7743.54	392.58S	2262.15W	9.00	2266.56	
8222.51	68.90	269.54	7752.01	392.77S	2283.01W	9.00	2287.42	Niobrara B Top
8300.00	75.86	270.07	7775.45	393.01S	2356.81W	9.00	2361.22	
8400.00	84.83	270.71	7792.21	392.34S	2455.29W	9.00	2459.68	
8457.53	90.00	271.06	7794.80	391.45S	2512.74W	9.00	2517.11	S/C Kick off Point/Target, RED_3HN LP
8500.00	90.00	271.06	7794.80	390.67S	2555.20W	==>	2559.56	
8600.00	90.00	271.06	7794.80	388.82S	2655.19W	==>	2659.52	
8700.00	90.00	271.06	7794.80	386.97S	2755.17W	==>	2759.47	
8800.00	90.00	271.06	7794.80	385.11S	2855.15W	==>	2859.43	
8900.00	90.00	271.06	7794.80	383.26S	2955.13W	==>	2959.38	
9000.00	90.00	271.06	7794.80	381.41S	3055.12W	==>	3059.34	
9100.00	90.00	271.06	7794.80	379.56S	3155.10W	==>	3159.29	
9200.00	90.00	271.06	7794.80	377.71S	3255.08W	==>	3259.25	
9300.00	90.00	271.06	7794.80	375.86S	3355.07W	==>	3359.20	
9400.00	90.00	271.06	7794.80	374.01S	3455.05W	==>	3459.16	
9500.00	90.00	271.06	7794.80	372.16S	3555.03W	==>	3559.11	
9600.00	90.00	271.06	7794.80	370.31S	3655.01W	==>	3659.07	
9700.00	90.00	271.06	7794.80	368.46S	3755.00W	==>	3759.02	
9800.00	90.00	271.06	7794.80	366.61S	3854.98W	==>	3858.97	
9900.00	90.00	271.06	7794.80	364.76S	3954.96W	==>	3958.93	
10000.00	90.00	271.06	7794.80	362.91S	4054.95W	==>	4058.88	
10100.00	90.00	271.06	7794.80	361.06S	4154.93W	==>	4158.84	
10200.00	90.00	271.06	7794.80	359.21S	4254.91W	==>	4258.79	
10300.00	90.00	271.06	7794.80	357.36S	4354.89W	==>	4358.75	
10400.00	90.00	271.06	7794.80	355.51S	4454.88W	==>	4458.70	
10500.00	90.00	271.06	7794.80	353.66S	4554.86W	==>	4558.66	
10600.00	90.00	271.06	7794.80	351.81S	4654.84W	==>	4658.61	
10700.00	90.00	271.06	7794.80	349.95S	4754.83W	==>	4758.57	
10800.00	90.00	271.06	7794.80	348.10S	4854.81W	==>	4858.52	
10900.00	90.00	271.06	7794.80	346.25S	4954.79W	==>	4958.48	
11000.00	90.00	271.06	7794.80	344.40S	5054.77W	==>	5058.43	
11100.00	90.00	271.06	7794.80	342.55S	5154.76W	==>	5158.39	
11200.00	90.00	271.06	7794.80	340.70S	5254.74W	==>	5258.34	
11300.00	90.00	271.06	7794.80	338.85S	5354.72W	==>	5358.29	
11400.00	90.00	271.06	7794.80	337.00S	5454.71W	==>	5458.25	
11500.00	90.00	271.06	7794.80	335.15S	5554.69W	==>	5558.20	
11600.00	90.00	271.06	7794.80	333.30S	5654.67W	==>	5658.16	
11700.00	90.00	271.06	7794.80	331.45S	5754.65W	==>	5758.11	
11800.00	90.00	271.06	7794.80	329.60S	5854.64W	==>	5858.07	
11900.00	90.00	271.06	7794.80	327.75S	5954.62W	==>	5958.02	
12000.00	90.00	271.06	7794.80	325.90S	6054.60W	==>	6057.98	
12100.00	90.00	271.06	7794.80	324.05S	6154.59W	==>	6157.93	
12200.00	90.00	271.06	7794.80	322.20S	6254.57W	==>	6257.89	
12300.00	90.00	271.06	7794.80	320.35S	6354.55W	==>	6357.84	
12400.00	90.00	271.06	7794.80	318.50S	6454.53W	==>	6457.80	
12500.00	90.00	271.06	7794.80	316.65S	6554.52W	==>	6557.75	
12600.00	90.00	271.06	7794.80	314.79S	6654.50W	==>	6657.71	
12700.00	90.00	271.06	7794.80	312.94S	6754.48W	==>	6757.66	
12800.00	90.00	271.06	7794.80	311.09S	6854.47W	==>	6857.61	

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Interpolated Wellpath								
MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	All Station Comments
12900.00	90.00	271.06	7794.80	309.24S	6954.45W	==>	6957.57	
13000.00	90.00	271.06	7794.80	307.39S	7054.43W	==>	7057.52	
13100.00	90.00	271.06	7794.80	305.54S	7154.41W	==>	7157.48	
13200.00	90.00	271.06	7794.80	303.69S	7254.40W	==>	7257.43	
13300.00	90.00	271.06	7794.80	301.84S	7354.38W	==>	7357.39	
13400.00	90.00	271.06	7794.80	299.99S	7454.36W	==>	7457.34	
13500.00	90.00	271.06	7794.80	298.14S	7554.35W	==>	7557.30	
13600.00	90.00	271.06	7794.80	296.29S	7654.33W	==>	7657.25	
13700.00	90.00	271.06	7794.80	294.44S	7754.31W	==>	7757.21	
13800.00	90.00	271.06	7794.80	292.59S	7854.29W	==>	7857.16	
13900.00	90.00	271.06	7794.80	290.74S	7954.28W	==>	7957.12	
14000.00	90.00	271.06	7794.80	288.89S	8054.26W	==>	8057.07	
14100.00	90.00	271.06	7794.80	287.04S	8154.24W	==>	8157.03	
14200.00	90.00	271.06	7794.80	285.19S	8254.23W	==>	8256.98	
14300.00	90.00	271.06	7794.80	283.34S	8354.21W	==>	8356.93	
14400.00	90.00	271.06	7794.80	281.49S	8454.19W	==>	8456.89	
14500.00	90.00	271.06	7794.80	279.63S	8554.17W	==>	8556.84	
14600.00	90.00	271.06	7794.80	277.78S	8654.16W	==>	8656.80	
14700.00	90.00	271.06	7794.80	275.93S	8754.14W	==>	8756.75	
14800.00	90.00	271.06	7794.80	274.08S	8854.12W	==>	8856.71	
14900.00	90.00	271.06	7794.80	272.23S	8954.11W	==>	8956.66	
15000.00	90.00	271.06	7794.80	270.38S	9054.09W	==>	9056.62	
15100.00	90.00	271.06	7794.80	268.53S	9154.07W	==>	9156.57	
15200.00	90.00	271.06	7794.80	266.68S	9254.06W	==>	9256.53	
15300.00	90.00	271.06	7794.80	264.83S	9354.04W	==>	9356.48	
15400.00	90.00	271.06	7794.80	262.98S	9454.02W	==>	9456.44	
15500.00	90.00	271.06	7794.80	261.13S	9554.00W	==>	9556.39	
15600.00	90.00	271.06	7794.80	259.28S	9653.99W	==>	9656.35	
15700.00	90.00	271.06	7794.80	257.43S	9753.97W	==>	9756.30	
15800.00	90.00	271.06	7794.80	255.58S	9853.95W	==>	9856.25	
15900.00	90.00	271.06	7794.80	253.73S	9953.94W	==>	9956.21	
16000.00	90.00	271.06	7794.80	251.88S	10053.92W	==>	10056.16	
16100.00	90.00	271.06	7794.80	250.03S	10153.90W	==>	10156.12	
16200.00	90.00	271.06	7794.80	248.18S	10253.88W	==>	10256.07	
16300.00	90.00	271.06	7794.80	246.33S	10353.87W	==>	10356.03	
16400.00	90.00	271.06	7794.80	244.47S	10453.85W	==>	10455.98	
16500.00	90.00	271.06	7794.80	242.62S	10553.83W	==>	10555.94	
16600.00	90.00	271.06	7794.80	240.77S	10653.82W	==>	10655.89	
16700.00	90.00	271.06	7794.80	238.92S	10753.80W	==>	10755.85	
16800.00	90.00	271.06	7794.80	237.07S	10853.78W	==>	10855.80	
16900.00	90.00	271.06	7794.80	235.22S	10953.76W	==>	10955.76	
17000.00	90.00	271.06	7794.80	233.37S	11053.75W	==>	11055.71	
17100.00	90.00	271.06	7794.80	231.52S	11153.73W	==>	11155.67	
17200.00	90.00	271.06	7794.80	229.67S	11253.71W	==>	11255.62	
17300.00	90.00	271.06	7794.80	227.82S	11353.70W	==>	11355.57	
17400.00	90.00	271.06	7794.80	225.97S	11453.68W	==>	11455.53	
17500.00	90.00	271.06	7794.80	224.12S	11553.66W	==>	11555.48	
17600.00	90.00	271.06	7794.80	222.27S	11653.64W	==>	11655.44	
17700.00	90.00	271.06	7794.80	220.42S	11753.63W	==>	11755.39	
17800.00	90.00	271.06	7794.80	218.57S	11853.61W	==>	11855.35	
17900.00	90.00	271.06	7794.80	216.72S	11953.59W	==>	11955.30	
18000.00	90.00	271.06	7794.80	214.87S	12053.58W	==>	12055.26	
18100.00	90.00	271.06	7794.80	213.02S	12153.56W	==>	12155.21	
18200.00	90.00	271.06	7794.80	211.17S	12253.54W	==>	12255.17	
18300.00	90.00	271.06	7794.80	209.31S	12353.52W	==>	12355.12	
18400.00	90.00	271.06	7794.80	207.46S	12453.51W	==>	12455.08	
18500.00	90.00	271.06	7794.80	205.61S	12553.49W	==>	12555.03	
18600.00	90.00	271.06	7794.80	203.76S	12653.47W	==>	12654.99	

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Prepared by
Date Printed: 19-Jun-2024



SYSDRILL
Well Design Combined Report
Wellbore: RED LADY 6-64 4-6 3HN (PWB)



Interpolated Wellpath								
MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	All Station Comments
18700.00	90.00	271.06	7794.80	201.91S	12753.46W	==>	12754.94	
18800.00	90.00	271.06	7794.80	200.06S	12853.44W	==>	12854.89	
18900.00	90.00	271.06	7794.80	198.21S	12953.42W	==>	12954.85	
19000.00	90.00	271.06	7794.80	196.36S	13053.40W	==>	13054.80	
19100.00	90.00	271.06	7794.80	194.51S	13153.39W	==>	13154.76	
19200.00	90.00	271.06	7794.80	192.66S	13253.37W	==>	13254.71	
19300.00	90.00	271.06	7794.80	190.81S	13353.35W	==>	13354.67	
19400.00	90.00	271.06	7794.80	188.96S	13453.34W	==>	13454.62	
19500.00	90.00	271.06	7794.80	187.11S	13553.32W	==>	13554.58	
19600.00	90.00	271.06	7794.80	185.26S	13653.30W	==>	13654.53	
19700.00	90.00	271.06	7794.80	183.41S	13753.28W	==>	13754.49	
19800.00	90.00	271.06	7794.80	181.56S	13853.27W	==>	13854.44	
19900.00	90.00	271.06	7794.80	179.71S	13953.25W	==>	13954.40	
20000.00	90.00	271.06	7794.80	177.86S	14053.23W	==>	14054.35	
20100.00	90.00	271.06	7794.80	176.01S	14153.22W	==>	14154.31	
20200.00	90.00	271.06	7794.80	174.15S	14253.20W	==>	14254.26	
20300.00	90.00	271.06	7794.80	172.30S	14353.18W	==>	14354.21	
20400.00	90.00	271.06	7794.80	170.45S	14453.16W	==>	14454.17	
20489.71	90.00	271.06	7794.80	168.79S	14542.85W	==>	14543.83	End of Hold/Target, RED_3HN BH

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Targets

Name	North[ft]	East[ft]	TVD[ft]	Latitude	Longitude	Northing	Easting
RED 3HN BH	168.79S	14542.85W	7794.80	39.56146400	-104.60281400	1084381.18	3252961.82
RED 3HN LP	391.45S	2512.74W	7794.80	39.56086400	-104.56014600	1084287.25	3264993.95

Formations

Formation Name	Formation MD	Formation TVD	Wellpath Inc	Incidence Angle	North	East
Lower Dawson	76.00	76.00	0.00	90.00	0.00N	0.00E
Denver	201.00	201.00	0.00	90.00	0.00N	0.00E
Upper Arapahoe	1088.05	1088.00	2.76	87.24	0.64S	3.26W
Laramie - Fox Hills	1910.73	1893.00	18.08	71.92	30.50S	156.11W
Pierre Shale (Base of Fox Hills)	2156.89	2127.00	18.08	71.92	45.16S	231.10W
Sussex Sandstone	5659.92	5457.00	18.08	71.92	253.67S	1298.26W
Sharon Springs Shale	7900.77	7567.00	40.05	49.95	384.88S	2024.08W
Niobrara	7969.31	7617.01	46.19	43.81	387.44S	2070.84W
Niobrara A	7983.93	7627.01	47.50	42.50	387.93S	2081.49W
Niobrara B Top	8222.51	7752.01	68.90	21.10	392.77S	2283.01W

Survey Tool Program

Reference	Survey Name	MD[ft]	TVD[ft]	Survey Tool	Error Model
1095730	Planned	20489.71	7794.80	WdW Rate Gyro	Standard

Notes

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