

GMT Exploration

Location DJ Basin Slot RED LADY 6-64 4-6 10HN
Field Elbert County Wells Well RED LADY 6-64 4-6 2HN
Installation Ragged 6-64 4 Pad Wellbore RED LADY 6-64 4-6 2HN (PWB)

Created by vinnie.wolfram

Date plotted 19-Jun-2024

Plot reference is RED LADY 6-64 4-6 2HN (PWB).
Ref wellpath is RED LADY 6-64 4-6 2HN (PWB).
Coordinates are in Feet reference RED LADY 6-64 4-6 10HN.
True Vertical Depths are reference Rig Datum.
Measured Depths are reference Rig Datum.
Rig Datum: Planned Datum #1
Rig Datum to Mean Sea Level: 6014.20 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

RED LADY 6-64 4-6 2HN (PWB)

RED_2HN BH

RED_2HN LP

Surface 0.00 N 0.00 E

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	1000.00	0.00	273.79	1000.00	S 0.00	W 0.00	0.00	0.00
End of Build	1883.40	17.67	273.79	1869.46	N 8.94	W 134.83	2.00	135.02
End of Hold	7704.13	17.67	273.79	7415.64	N 125.79	W 1897.56	0.00	1900.26
Target RED_2HN LP	8508.03	90.00	271.18	7859.20	N 144.74	W 2503.95	9.00	2506.95
T.D. & Target RED... BH	20542.15	90.00	271.18	7859.20	N 392.89	W 14535.51	0.00	14540.82

<- North(Feet)

Scale 1 cm = 1000 ft

<- True Vertical Depth (Feet)

Scale 1 cm = 1000 ft

Tie on - 0.00 Inc, 0.00 MD, 0.00 TVD, 0.00 VS

3DS Kick off Point - 0.00 Inc, 1000.00 MD, 1000.00 TVD, 0.00 VS

End of Build - 17.67 Inc, 1883.40 MD, 1869.46 TVD, 135.02 VS

End of Hold - 17.67 Inc, 7704.13 MD, 7415.64 TVD, 1900.26 VS

RED_2HN LP

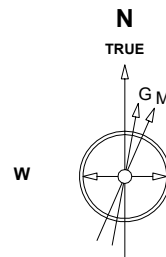
S/C Kick off Point - 90.00 Inc, 8508.03 MD, 7859.20 TVD, 2506.95 VS

T.D. & End of Hold - 7859.20 TVD, 392.89 N 14535.51 W

RED_2HN BH

Niobrara
Niobrara A
Niobrara B Top
Niobrara C Top

RED LADY 6-64 4-6 2HN (PWB)



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

-2000 -0 2000 4000 6000 8000 10000 12000 14000 16000 18000 20000 22000

Scale 1 cm = 1000 ft

Vertical Section (Feet) ->

Azimuth 271.55 with reference 0.00 N, 0.00 E from RED LADY 6-64 4-6 10HN



SYSDRILL
Well Design Combined Report
Wellbore: RED LADY 6-64 4-6 2HN (PWB)



Wellhead Details

Name	Latitude	Longitude	Northing	Easting	North	East	Slot Elevation Above Ground
RED LADY 6-64 4-6 10HN	39.56177400	-104.55123500	1084645.4670	3267502.7843	180.67S	88.81E	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	-6014.20	0.00N	0.00E		0.00
1000.00	0.00	273.79	1000.00	-5014.20	0.00N	0.00E	==>	0.00
1883.40	17.67	273.79	1869.46	-4144.74	8.94N	134.83W	2.00	135.02
7704.13	17.67	273.79	7415.64	1401.44	125.79N	1897.56W	==>	1900.26
8508.03	90.00	271.18	7859.20	1845.00	144.74N	2503.95W	9.00	2506.95
20542.15	90.00	271.18	7859.20	1845.00	392.89N	14535.51W	==>	14540.82

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
75.00	0.00	0.00	75.00	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	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	
1000.00	0.00	273.79	1000.00	0.00N	0.00E	==>	0.00	3DS Kick off Point
1087.01	1.74	273.79	1087.00	0.09N	1.32W	2.00	1.32	Upper Arapahoe
1100.00	2.00	273.79	1099.98	0.12N	1.74W	2.00	1.74	
1200.00	4.00	273.79	1199.84	0.46N	6.96W	2.00	6.97	
1300.00	6.00	273.79	1299.45	1.04N	15.66W	2.00	15.68	
1400.00	8.00	273.79	1398.70	1.84N	27.82W	2.00	27.86	
1500.00	10.00	273.79	1497.47	2.88N	43.43W	2.00	43.49	
1600.00	12.00	273.79	1595.62	4.14N	62.47W	2.00	62.55	
1700.00	14.00	273.79	1693.06	5.63N	84.91W	2.00	85.03	
1800.00	16.00	273.79	1789.64	7.34N	110.73W	2.00	110.89	
1883.40	17.67	273.79	1869.46	8.94N	134.83W	2.00	135.02	End of Build
1900.00	17.67	273.79	1885.28	9.27N	139.86W	==>	140.06	
1907.05	17.67	273.79	1892.00	9.41N	141.99W	==>	142.20	Laramie - Fox Hills
2000.00	17.67	273.79	1980.57	11.28N	170.14W	==>	170.39	
2100.00	17.67	273.79	2075.85	13.29N	200.43W	==>	200.71	
2152.63	17.67	273.79	2126.00	14.34N	216.37W	==>	216.67	Pierre Shale (Base of Fox Hills)
2200.00	17.67	273.79	2171.13	15.29N	230.71W	==>	231.04	
2300.00	17.67	273.79	2266.42	17.30N	260.99W	==>	261.37	
2400.00	17.67	273.79	2361.70	19.31N	291.28W	==>	291.69	

All data is in Feet unless otherwise stated
Coordinates are from Slot MD's are from Rig and TVD's are from Rig (Planned Datum #1 6014.2ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 271.55 degrees
Bottom hole distance is 14540.82 Feet on azimuth 271.55 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 2HN (PWB)



Interpolated Wellpath								
MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	All Station Comments
2500.00	17.67	273.79	2456.98	21.32N	321.56W	==>	322.02	
2600.00	17.67	273.79	2552.27	23.32N	351.84W	==>	352.35	
2700.00	17.67	273.79	2647.55	25.33N	382.13W	==>	382.67	
2800.00	17.67	273.79	2742.83	27.34N	412.41W	==>	413.00	
2900.00	17.67	273.79	2838.11	29.35N	442.70W	==>	443.33	
3000.00	17.67	273.79	2933.40	31.35N	472.98W	==>	473.65	
3100.00	17.67	273.79	3028.68	33.36N	503.26W	==>	503.98	
3200.00	17.67	273.79	3123.96	35.37N	533.55W	==>	534.31	
3300.00	17.67	273.79	3219.25	37.38N	563.83W	==>	564.63	
3400.00	17.67	273.79	3314.53	39.38N	594.11W	==>	594.96	
3500.00	17.67	273.79	3409.81	41.39N	624.40W	==>	625.29	
3600.00	17.67	273.79	3505.10	43.40N	654.68W	==>	655.61	
3700.00	17.67	273.79	3600.38	45.41N	684.96W	==>	685.94	
3800.00	17.67	273.79	3695.66	47.41N	715.25W	==>	716.27	
3900.00	17.67	273.79	3790.95	49.42N	745.53W	==>	746.59	
4000.00	17.67	273.79	3886.23	51.43N	775.81W	==>	776.92	
4100.00	17.67	273.79	3981.51	53.44N	806.10W	==>	807.25	
4200.00	17.67	273.79	4076.80	55.44N	836.38W	==>	837.57	
4300.00	17.67	273.79	4172.08	57.45N	866.67W	==>	867.90	
4400.00	17.67	273.79	4267.36	59.46N	896.95W	==>	898.23	
4500.00	17.67	273.79	4362.64	61.47N	927.23W	==>	928.55	
4600.00	17.67	273.79	4457.93	63.47N	957.52W	==>	958.88	
4700.00	17.67	273.79	4553.21	65.48N	987.80W	==>	989.21	
4800.00	17.67	273.79	4648.49	67.49N	1018.08W	==>	1019.53	
4900.00	17.67	273.79	4743.78	69.50N	1048.37W	==>	1049.86	
5000.00	17.67	273.79	4839.06	71.51N	1078.65W	==>	1080.19	
5100.00	17.67	273.79	4934.34	73.51N	1108.93W	==>	1110.52	
5200.00	17.67	273.79	5029.63	75.52N	1139.22W	==>	1140.84	
5300.00	17.67	273.79	5124.91	77.53N	1169.50W	==>	1171.17	
5400.00	17.67	273.79	5220.19	79.54N	1199.78W	==>	1201.50	
5500.00	17.67	273.79	5315.48	81.54N	1230.07W	==>	1231.82	
5600.00	17.67	273.79	5410.76	83.55N	1260.35W	==>	1262.15	
5647.48	17.67	273.79	5456.00	84.50N	1274.73W	==>	1276.55	Sussex Sandstone
5700.00	17.67	273.79	5506.04	85.56N	1290.64W	==>	1292.48	
5800.00	17.67	273.79	5601.33	87.57N	1320.92W	==>	1322.80	
5900.00	17.67	273.79	5696.61	89.57N	1351.20W	==>	1353.13	
6000.00	17.67	273.79	5791.89	91.58N	1381.49W	==>	1383.46	
6100.00	17.67	273.79	5887.17	93.59N	1411.77W	==>	1413.78	
6200.00	17.67	273.79	5982.46	95.60N	1442.05W	==>	1444.11	
6300.00	17.67	273.79	6077.74	97.60N	1472.34W	==>	1474.44	
6400.00	17.67	273.79	6173.02	99.61N	1502.62W	==>	1504.76	
6500.00	17.67	273.79	6268.31	101.62N	1532.90W	==>	1535.09	
6600.00	17.67	273.79	6363.59	103.63N	1563.19W	==>	1565.42	
6700.00	17.67	273.79	6458.87	105.63N	1593.47W	==>	1595.74	
6800.00	17.67	273.79	6554.16	107.64N	1623.75W	==>	1626.07	
6900.00	17.67	273.79	6649.44	109.65N	1654.04W	==>	1656.40	
7000.00	17.67	273.79	6744.72	111.66N	1684.32W	==>	1686.72	
7100.00	17.67	273.79	6840.01	113.66N	1714.60W	==>	1717.05	
7200.00	17.67	273.79	6935.29	115.67N	1744.89W	==>	1747.38	
7300.00	17.67	273.79	7030.57	117.68N	1775.17W	==>	1777.70	
7400.00	17.67	273.79	7125.86	119.69N	1805.46W	==>	1808.03	
7500.00	17.67	273.79	7221.14	121.69N	1835.74W	==>	1838.36	
7600.00	17.67	273.79	7316.42	123.70N	1866.02W	==>	1868.68	
7700.00	17.67	273.79	7411.71	125.71N	1896.31W	==>	1899.01	
7704.13	17.67	273.79	7415.64	125.79N	1897.56W	==>	1900.26	End of Hold
7800.00	26.29	272.86	7504.46	127.82N	1933.35W	9.00	1936.09	
7870.73	32.65	272.48	7566.00	129.43N	1968.09W	9.00	1970.86	Sharon Springs

All data is in Feet unless otherwise stated
Coordinates are from Slot MD's are from Rig (Planned Datum #1 6014.2ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 271.55 degrees
Bottom hole distance is 14540.82 Feet on azimuth 271.55 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 2HN (PWB)



Interpolated Wellpath								
MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	All Station Comments
								Shale
7900.00	35.29	272.36	7590.28	130.12N	1984.43W	9.00	1987.22	
7932.10	38.17	272.24	7616.00	130.89N	2003.61W	9.00	2006.41	Niobrara
7944.93	39.33	272.20	7626.01	131.20N	2011.63W	9.00	2014.44	Niobrara A
8000.00	44.28	272.03	7667.04	132.55N	2048.30W	9.00	2051.14	
8100.00	53.28	271.80	7732.87	135.05N	2123.41W	9.00	2126.28	
8131.39	56.11	271.74	7751.01	135.85N	2149.01W	9.00	2151.90	Niobrara B Top
8200.00	62.28	271.62	7786.13	137.57N	2207.88W	9.00	2210.80	
8286.40	70.06	271.48	7821.01	139.70N	2286.82W	9.00	2289.76	Niobrara C Top
8300.00	71.28	271.46	7825.52	140.03N	2299.66W	9.00	2302.60	
8400.00	80.28	271.32	7850.06	142.39N	2396.46W	9.00	2399.44	
8500.00	89.28	271.19	7859.15	144.57N	2495.92W	9.00	2498.92	
8508.03	90.00	271.18	7859.20	144.74N	2503.95W	9.00	2506.95	S/C Kick off Point/Target, RED_2HN LP
8600.00	90.00	271.18	7859.20	146.63N	2595.90W	==>	2598.91	
8700.00	90.00	271.18	7859.20	148.69N	2695.88W	==>	2698.91	
8800.00	90.00	271.18	7859.20	150.76N	2795.86W	==>	2798.91	
8900.00	90.00	271.18	7859.20	152.82N	2895.84W	==>	2898.91	
9000.00	90.00	271.18	7859.20	154.88N	2995.82W	==>	2998.91	
9100.00	90.00	271.18	7859.20	156.94N	3095.79W	==>	3098.90	
9200.00	90.00	271.18	7859.20	159.01N	3195.77W	==>	3198.90	
9300.00	90.00	271.18	7859.20	161.07N	3295.75W	==>	3298.90	
9400.00	90.00	271.18	7859.20	163.13N	3395.73W	==>	3398.90	
9500.00	90.00	271.18	7859.20	165.19N	3495.71W	==>	3498.90	
9600.00	90.00	271.18	7859.20	167.25N	3595.69W	==>	3598.89	
9700.00	90.00	271.18	7859.20	169.32N	3695.67W	==>	3698.89	
9800.00	90.00	271.18	7859.20	171.38N	3795.65W	==>	3798.89	
9900.00	90.00	271.18	7859.20	173.44N	3895.62W	==>	3898.89	
10000.00	90.00	271.18	7859.20	175.50N	3995.60W	==>	3998.89	
10100.00	90.00	271.18	7859.20	177.56N	4095.58W	==>	4098.88	
10200.00	90.00	271.18	7859.20	179.63N	4195.56W	==>	4198.88	
10300.00	90.00	271.18	7859.20	181.69N	4295.54W	==>	4298.88	
10400.00	90.00	271.18	7859.20	183.75N	4395.52W	==>	4398.88	
10500.00	90.00	271.18	7859.20	185.81N	4495.50W	==>	4498.88	
10600.00	90.00	271.18	7859.20	187.87N	4595.48W	==>	4598.87	
10700.00	90.00	271.18	7859.20	189.94N	4695.45W	==>	4698.87	
10800.00	90.00	271.18	7859.20	192.00N	4795.43W	==>	4798.87	
10900.00	90.00	271.18	7859.20	194.06N	4895.41W	==>	4898.87	
11000.00	90.00	271.18	7859.20	196.12N	4995.39W	==>	4998.87	
11100.00	90.00	271.18	7859.20	198.18N	5095.37W	==>	5098.86	
11200.00	90.00	271.18	7859.20	200.25N	5195.35W	==>	5198.86	
11300.00	90.00	271.18	7859.20	202.31N	5295.33W	==>	5298.86	
11400.00	90.00	271.18	7859.20	204.37N	5395.31W	==>	5398.86	
11500.00	90.00	271.18	7859.20	206.43N	5495.28W	==>	5498.86	
11600.00	90.00	271.18	7859.20	208.50N	5595.26W	==>	5598.85	
11700.00	90.00	271.18	7859.20	210.56N	5695.24W	==>	5698.85	
11800.00	90.00	271.18	7859.20	212.62N	5795.22W	==>	5798.85	
11900.00	90.00	271.18	7859.20	214.68N	5895.20W	==>	5898.85	
12000.00	90.00	271.18	7859.20	216.74N	5995.18W	==>	5998.85	
12100.00	90.00	271.18	7859.20	218.81N	6095.16W	==>	6098.84	
12200.00	90.00	271.18	7859.20	220.87N	6195.14W	==>	6198.84	
12300.00	90.00	271.18	7859.20	222.93N	6295.11W	==>	6298.84	
12400.00	90.00	271.18	7859.20	224.99N	6395.09W	==>	6398.84	
12500.00	90.00	271.18	7859.20	227.05N	6495.07W	==>	6498.84	
12600.00	90.00	271.18	7859.20	229.12N	6595.05W	==>	6598.83	
12700.00	90.00	271.18	7859.20	231.18N	6695.03W	==>	6698.83	
12800.00	90.00	271.18	7859.20	233.24N	6795.01W	==>	6798.83	
12900.00	90.00	271.18	7859.20	235.30N	6894.99W	==>	6898.83	

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Vertical Section is from 0.00N 0.00E on azimuth 271.55 degrees
Bottom hole distance is 14540.82 Feet on azimuth 271.55 degrees from Wellhead
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Date Printed: 19-Jun-2024



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Wellbore: RED LADY 6-64 4-6 2HN (PWB)



Interpolated Wellpath								
MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	All Station Comments
13000.00	90.00	271.18	7859.20	237.36N	6994.97W	==>	6998.82	
13100.00	90.00	271.18	7859.20	239.43N	7094.94W	==>	7098.82	
13200.00	90.00	271.18	7859.20	241.49N	7194.92W	==>	7198.82	
13300.00	90.00	271.18	7859.20	243.55N	7294.90W	==>	7298.82	
13400.00	90.00	271.18	7859.20	245.61N	7394.88W	==>	7398.82	
13500.00	90.00	271.18	7859.20	247.67N	7494.86W	==>	7498.81	
13600.00	90.00	271.18	7859.20	249.74N	7594.84W	==>	7598.81	
13700.00	90.00	271.18	7859.20	251.80N	7694.82W	==>	7698.81	
13800.00	90.00	271.18	7859.20	253.86N	7794.80W	==>	7798.81	
13900.00	90.00	271.18	7859.20	255.92N	7894.77W	==>	7898.81	
14000.00	90.00	271.18	7859.20	257.99N	7994.75W	==>	7998.80	
14100.00	90.00	271.18	7859.20	260.05N	8094.73W	==>	8098.80	
14200.00	90.00	271.18	7859.20	262.11N	8194.71W	==>	8198.80	
14300.00	90.00	271.18	7859.20	264.17N	8294.69W	==>	8298.80	
14400.00	90.00	271.18	7859.20	266.23N	8394.67W	==>	8398.80	
14500.00	90.00	271.18	7859.20	268.30N	8494.65W	==>	8498.79	
14600.00	90.00	271.18	7859.20	270.36N	8594.62W	==>	8598.79	
14700.00	90.00	271.18	7859.20	272.42N	8694.60W	==>	8698.79	
14800.00	90.00	271.18	7859.20	274.48N	8794.58W	==>	8798.79	
14900.00	90.00	271.18	7859.20	276.54N	8894.56W	==>	8898.79	
15000.00	90.00	271.18	7859.20	278.61N	8994.54W	==>	8998.78	
15100.00	90.00	271.18	7859.20	280.67N	9094.52W	==>	9098.78	
15200.00	90.00	271.18	7859.20	282.73N	9194.50W	==>	9198.78	
15300.00	90.00	271.18	7859.20	284.79N	9294.48W	==>	9298.78	
15400.00	90.00	271.18	7859.20	286.85N	9394.45W	==>	9398.78	
15500.00	90.00	271.18	7859.20	288.92N	9494.43W	==>	9498.77	
15600.00	90.00	271.18	7859.20	290.98N	9594.41W	==>	9598.77	
15700.00	90.00	271.18	7859.20	293.04N	9694.39W	==>	9698.77	
15800.00	90.00	271.18	7859.20	295.10N	9794.37W	==>	9798.77	
15900.00	90.00	271.18	7859.20	297.16N	9894.35W	==>	9898.77	
16000.00	90.00	271.18	7859.20	299.23N	9994.33W	==>	9998.76	
16100.00	90.00	271.18	7859.20	301.29N	10094.31W	==>	10098.76	
16200.00	90.00	271.18	7859.20	303.35N	10194.28W	==>	10198.76	
16300.00	90.00	271.18	7859.20	305.41N	10294.26W	==>	10298.76	
16400.00	90.00	271.18	7859.20	307.48N	10394.24W	==>	10398.76	
16500.00	90.00	271.18	7859.20	309.54N	10494.22W	==>	10498.75	
16600.00	90.00	271.18	7859.20	311.60N	10594.20W	==>	10598.75	
16700.00	90.00	271.18	7859.20	313.66N	10694.18W	==>	10698.75	
16800.00	90.00	271.18	7859.20	315.72N	10794.16W	==>	10798.75	
16900.00	90.00	271.18	7859.20	317.79N	10894.14W	==>	10898.74	
17000.00	90.00	271.18	7859.20	319.85N	10994.11W	==>	10998.74	
17100.00	90.00	271.18	7859.20	321.91N	11094.09W	==>	11098.74	
17200.00	90.00	271.18	7859.20	323.97N	11194.07W	==>	11198.74	
17300.00	90.00	271.18	7859.20	326.03N	11294.05W	==>	11298.74	
17400.00	90.00	271.18	7859.20	328.10N	11394.03W	==>	11398.73	
17500.00	90.00	271.18	7859.20	330.16N	11494.01W	==>	11498.73	
17600.00	90.00	271.18	7859.20	332.22N	11593.99W	==>	11598.73	
17700.00	90.00	271.18	7859.20	334.28N	11693.97W	==>	11698.73	
17800.00	90.00	271.18	7859.20	336.34N	11793.94W	==>	11798.73	
17900.00	90.00	271.18	7859.20	338.41N	11893.92W	==>	11898.72	
18000.00	90.00	271.18	7859.20	340.47N	11993.90W	==>	11998.72	
18100.00	90.00	271.18	7859.20	342.53N	12093.88W	==>	12098.72	
18200.00	90.00	271.18	7859.20	344.59N	12193.86W	==>	12198.72	
18300.00	90.00	271.18	7859.20	346.65N	12293.84W	==>	12298.72	
18400.00	90.00	271.18	7859.20	348.72N	12393.82W	==>	12398.71	
18500.00	90.00	271.18	7859.20	350.78N	12493.80W	==>	12498.71	
18600.00	90.00	271.18	7859.20	352.84N	12593.77W	==>	12598.71	
18700.00	90.00	271.18	7859.20	354.90N	12693.75W	==>	12698.71	

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Bottom hole distance is 14540.82 Feet on azimuth 271.55 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 2HN (PWB)



Interpolated Wellpath								
MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	All Station Comments
18800.00	90.00	271.18	7859.20	356.97N	12793.73W	==>	12798.71	
18900.00	90.00	271.18	7859.20	359.03N	12893.71W	==>	12898.70	
19000.00	90.00	271.18	7859.20	361.09N	12993.69W	==>	12998.70	
19100.00	90.00	271.18	7859.20	363.15N	13093.67W	==>	13098.70	
19200.00	90.00	271.18	7859.20	365.21N	13193.65W	==>	13198.70	
19300.00	90.00	271.18	7859.20	367.28N	13293.63W	==>	13298.70	
19400.00	90.00	271.18	7859.20	369.34N	13393.60W	==>	13398.69	
19500.00	90.00	271.18	7859.20	371.40N	13493.58W	==>	13498.69	
19600.00	90.00	271.18	7859.20	373.46N	13593.56W	==>	13598.69	
19700.00	90.00	271.18	7859.20	375.52N	13693.54W	==>	13698.69	
19800.00	90.00	271.18	7859.20	377.59N	13793.52W	==>	13798.69	
19900.00	90.00	271.18	7859.20	379.65N	13893.50W	==>	13898.68	
20000.00	90.00	271.18	7859.20	381.71N	13993.48W	==>	13998.68	
20100.00	90.00	271.18	7859.20	383.77N	14093.46W	==>	14098.68	
20200.00	90.00	271.18	7859.20	385.83N	14193.43W	==>	14198.68	
20300.00	90.00	271.18	7859.20	387.90N	14293.41W	==>	14298.68	
20400.00	90.00	271.18	7859.20	389.96N	14393.39W	==>	14398.67	
20500.00	90.00	271.18	7859.20	392.02N	14493.37W	==>	14498.67	
20542.15	90.00	271.18	7859.20	392.89N	14535.51W	==>	14540.82	End of Hold/Target, RED_2HN BH

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Wellbore: RED LADY 6-64 4-6 2HN (PWB)



Targets

Name	North[ft]	East[ft]	TVD[ft]	Latitude	Longitude	Northing	Easting
RED 2HN BH	392.89N	14535.51W	7859.20	39.56284100	-104.60279000	1084882.82	3252963.51
RED 2HN LP	144.74N	2503.95W	7859.20	39.56217100	-104.56011600	1084763.41	3264997.36

Formations

Formation Name	Formation MD	Formation TVD	Wellpath Inc	Incidence Angle	North	East
Lower Dawson	75.00	75.00	0.00	90.00	0.00N	0.00E
Denver	200.00	200.00	0.00	90.00	0.00N	0.00E
Upper Arapahoe	1087.01	1087.00	1.74	88.26	0.09N	1.32W
Laramie - Fox Hills	1907.05	1892.00	17.67	72.33	9.41N	141.99W
Pierre Shale (Base of Fox Hills)	2152.63	2126.00	17.67	72.33	14.34N	216.37W
Sussex Sandstone	5647.48	5456.00	17.67	72.33	84.50N	1274.73W
Sharon Springs Shale	7870.73	7566.00	32.65	57.35	129.43N	1968.09W
Niobrara	7932.10	7616.00	38.17	51.83	130.89N	2003.61W
Niobrara A	7944.93	7626.01	39.33	50.67	131.20N	2011.63W
Niobrara B Top	8131.39	7751.01	56.11	33.89	135.85N	2149.01W
Niobrara C Top	8286.40	7821.01	70.06	19.94	139.70N	2286.82W

Survey Tool Program

Reference	Survey Name	MD[ft]	TVD[ft]	Survey Tool	Error Model
1095712	Planned	20542.15	7859.20	WdW Rate Gyro	Standard

Notes

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