



Ursa Operating Company, LLC

Rio Blanco County, Colorado

BR C-240

BR C-240 32A-24-2-98

Wellbore #1

Design: Actual

End of Well Report

15 August, 2018

Payzone Directional Service

End of Well Report

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well BR C-24O 32A-24-2-98
Project:	Rio Blanco County, Colorado	TVD Reference:	BR C-24O 32A-24-2-98 @ 6325.5usft (Plan KB)
Site:	BR C-24O	MD Reference:	BR C-24O 32A-24-2-98 @ 6325.5usft (Plan KB)
Well:	BR C-24O 32A-24-2-98	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	EDM 5000.1 Single User Db

Project	Rio Blanco County, Colorado		
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	BR C-24O		
Site Position:		Northing:	1,203,233.71 usft
From:	Map	Easting:	2,203,189.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	39.856238800
		Longitude:	-108.338695300
		Grid Convergence:	-1.83 °

Well	BR C-24O 32A-24-2-98, SHL: 39.8562388, -108.3386953		
Well Position	+N/-S	0.0 usft	Northing: 1,203,233.71 usft
	+E/-W	0.0 usft	Easting: 2,203,189.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	6,325.5 usft
		Latitude:	39.856238800
		Longitude:	-108.338695300
		Ground Level:	6,304.5 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	6/2/2018	9.80	65.80	51,569

Design	Actual			
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	343.34

Survey Program	Date	8/15/2018		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
133.0	11,636.0	Actual (Wellbore #1)	MWD	MWD - Standard

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Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	EDM 5000.1 Single User Db

Survey									
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
133.0	0.26	140.89	133.0	-0.3	-0.2	0.2	0.20	0.20	0.00
225.0	0.30	105.89	225.0	-0.6	-0.5	0.6	0.19	0.04	-38.04
332.0	1.36	5.54	332.0	0.4	0.7	0.9	1.35	0.99	-93.79
422.0	1.32	0.00	422.0	2.4	2.8	1.0	0.15	-0.04	-6.16
452.0	1.76	357.41	452.0	3.2	3.6	1.0	1.48	1.47	-8.63
482.0	1.98	357.58	481.9	4.1	4.6	1.0	0.73	0.73	0.57
512.0	2.20	354.59	511.9	5.2	5.7	0.9	0.82	0.73	-9.97
543.0	2.37	353.19	542.9	6.4	6.9	0.8	0.58	0.55	-4.52
573.0	2.77	345.63	572.9	7.8	8.2	0.5	1.75	1.33	-25.20
603.0	3.38	341.98	602.8	9.4	9.8	0.1	2.13	2.03	-12.17
633.0	4.22	342.07	632.8	11.3	11.7	-0.5	2.80	2.80	0.30
663.0	5.58	343.70	662.6	13.9	14.1	-1.3	4.56	4.53	5.43
694.0	7.08	343.08	693.5	17.3	17.4	-2.3	4.84	4.84	-2.00
724.0	8.48	341.68	723.2	21.4	21.3	-3.5	4.71	4.67	-4.67
754.0	9.45	340.13	752.8	26.1	25.7	-5.0	3.33	3.23	-5.17
784.0	10.28	339.30	782.4	31.2	30.5	-6.8	2.81	2.77	-2.77
814.0	11.29	339.14	811.8	36.8	35.8	-8.8	3.37	3.37	-0.53
845.0	12.48	343.87	842.2	43.2	41.8	-10.8	4.96	3.84	15.26
875.0	13.36	348.09	871.4	49.9	48.3	-12.4	4.30	2.93	14.07
905.0	14.55	349.89	900.5	57.1	55.4	-13.8	4.22	3.97	6.00
935.0	15.12	348.93	929.5	64.7	63.0	-15.2	2.07	1.90	-3.20
965.0	15.95	347.21	958.4	72.7	70.8	-16.9	3.16	2.77	-5.73
996.0	17.18	345.89	988.1	81.5	79.4	-19.0	4.15	3.97	-4.26
1,028.0	18.48	345.53	1,018.6	91.3	88.9	-21.4	4.08	4.06	-1.12
1,059.0	19.42	344.97	1,047.9	101.4	98.7	-23.9	3.09	3.03	-1.81
1,091.0	20.13	344.66	1,078.0	112.2	109.1	-26.8	2.24	2.22	-0.97

Payzone Directional Service

End of Well Report

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Site:	BR C-24O	MD Reference:	BR C-24O 32A-24-2-98 @ 6325.5usft (Plan KB)
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Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	EDM 5000.1 Single User Db

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	
1,123.0	21.57	346.73	1,107.9	123.6	120.1	-29.6	5.05	4.50	6.47	
1,154.0	22.82	347.49	1,136.6	135.3	131.6	-32.2	4.14	4.03	2.45	
1,186.0	23.76	345.55	1,166.0	147.9	143.9	-35.1	3.79	2.94	-6.06	
1,217.0	25.00	344.18	1,194.3	160.7	156.2	-38.5	4.40	4.00	-4.42	
1,249.0	26.10	343.83	1,223.1	174.5	169.5	-42.3	3.47	3.44	-1.09	
1,280.0	27.77	343.65	1,250.8	188.5	183.0	-46.2	5.39	5.39	-0.58	
1,312.0	29.09	342.82	1,278.9	203.8	197.5	-50.6	4.31	4.12	-2.59	
1,343.0	30.20	342.18	1,305.9	219.1	212.2	-55.2	3.72	3.58	-2.06	
1,375.0	31.73	341.94	1,333.3	235.5	227.8	-60.3	4.80	4.78	-0.75	
1,438.0	33.35	342.07	1,386.4	269.4	260.1	-70.8	2.57	2.57	0.21	
1,533.0	34.06	341.54	1,465.4	322.1	310.1	-87.2	0.81	0.75	-0.56	
1,628.0	34.76	341.19	1,543.8	375.8	361.0	-104.4	0.77	0.74	-0.37	
1,722.0	35.77	343.21	1,620.6	430.0	412.7	-121.0	1.64	1.07	2.15	
1,817.0	36.17	343.30	1,697.5	485.8	466.1	-137.0	0.42	0.42	0.09	
1,912.0	36.21	342.82	1,774.1	541.9	519.8	-153.4	0.30	0.04	-0.51	
2,006.0	35.95	341.19	1,850.1	597.3	572.4	-170.5	1.06	-0.28	-1.73	
2,101.0	36.25	343.17	1,926.9	653.2	625.7	-187.6	1.27	0.32	2.08	
2,196.0	35.77	341.32	2,003.7	709.1	678.9	-204.6	1.25	-0.51	-1.95	
2,290.0	35.77	342.47	2,080.0	764.0	731.1	-221.7	0.72	0.00	1.22	
2,385.0	36.12	345.50	2,156.9	819.7	784.7	-237.1	1.91	0.37	3.19	
2,480.0	36.83	345.98	2,233.3	876.2	839.4	-251.0	0.81	0.75	0.51	
2,575.0	36.87	345.06	2,309.3	933.1	894.6	-265.2	0.58	0.04	-0.97	
2,670.0	36.87	344.09	2,385.3	990.1	949.5	-280.4	0.61	0.00	-1.02	
2,765.0	36.74	343.34	2,461.4	1,047.0	1,004.2	-296.4	0.49	-0.14	-0.79	
2,860.0	36.47	342.99	2,537.6	1,103.6	1,058.4	-312.8	0.36	-0.28	-0.37	
2,955.0	36.12	340.80	2,614.2	1,159.8	1,111.8	-330.2	1.41	-0.37	-2.31	
3,049.0	36.47	341.76	2,690.0	1,215.4	1,164.5	-348.1	0.71	0.37	1.02	

Payzone Directional Service

End of Well Report

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Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	EDM 5000.1 Single User Db

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	
3,144.0	35.64	343.30	2,766.8	1,271.3	1,217.9	-364.9	1.29	-0.87	1.62	
3,239.0	34.74	341.56	2,844.4	1,326.1	1,270.0	-381.4	1.42	-0.95	-1.83	
3,334.0	35.60	343.10	2,922.1	1,380.8	1,322.2	-398.0	1.30	0.91	1.62	
3,429.0	35.90	343.74	2,999.2	1,436.3	1,375.4	-413.8	0.50	0.32	0.67	
3,524.0	35.46	343.52	3,076.3	1,491.7	1,428.5	-429.4	0.48	-0.46	-0.23	
3,618.0	36.78	344.71	3,152.3	1,547.1	1,481.8	-444.6	1.59	1.40	1.27	
3,713.0	36.87	344.84	3,228.3	1,604.0	1,536.8	-459.6	0.13	0.09	0.14	
3,807.0	36.17	343.96	3,303.9	1,660.0	1,590.7	-474.6	0.93	-0.74	-0.94	
3,902.0	35.52	341.80	3,380.9	1,715.6	1,643.8	-491.0	1.50	-0.68	-2.27	
3,997.0	34.50	340.05	3,458.7	1,770.0	1,695.3	-508.8	1.51	-1.07	-1.84	
4,082.0	34.37	339.92	3,528.8	1,818.0	1,740.5	-525.2	0.18	-0.15	-0.15	
4,177.0	31.82	338.34	3,608.4	1,869.7	1,789.0	-543.7	2.83	-2.68	-1.66	
4,272.0	29.79	337.54	3,690.0	1,918.2	1,834.1	-561.9	2.18	-2.14	-0.84	
4,367.0	27.95	336.53	3,773.1	1,963.8	1,876.3	-579.8	2.00	-1.94	-1.06	
4,461.0	27.82	346.86	3,856.3	2,007.5	1,917.9	-593.6	5.14	-0.14	10.99	
4,557.0	27.69	345.81	3,941.2	2,052.2	1,961.3	-604.1	0.53	-0.14	-1.09	
4,651.0	28.30	345.06	4,024.2	2,096.3	2,004.0	-615.2	0.75	0.65	-0.80	
4,746.0	28.17	345.32	4,107.9	2,141.2	2,047.5	-626.7	0.19	-0.14	0.27	
4,841.0	28.34	342.73	4,191.6	2,186.2	2,090.7	-639.1	1.30	0.18	-2.73	
4,936.0	29.92	342.58	4,274.6	2,232.4	2,134.8	-652.9	1.66	1.66	-0.16	
5,030.0	30.27	342.74	4,355.9	2,279.5	2,179.8	-666.9	0.38	0.37	0.17	
5,125.0	28.73	342.89	4,438.6	2,326.3	2,224.5	-680.8	1.62	-1.62	0.16	
5,220.0	27.91	341.02	4,522.2	2,371.4	2,267.4	-694.7	1.27	-0.86	-1.97	
5,314.0	27.60	341.63	4,605.4	2,415.1	2,308.8	-708.7	0.45	-0.33	0.65	
5,409.0	27.16	342.07	4,689.8	2,458.8	2,350.4	-722.3	0.51	-0.46	0.46	
5,504.0	24.96	342.91	4,775.1	2,500.5	2,390.1	-734.9	2.35	-2.32	0.88	
5,599.0	26.37	345.10	4,860.7	2,541.6	2,429.7	-746.2	1.79	1.48	2.31	

Payzone Directional Service

End of Well Report

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Design:	Actual	Database:	EDM 5000.1 Single User Db

Survey									
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)
5,694.0	25.36	345.15	4,946.2	2,583.1	2,469.8	-756.9	1.06	-1.06	0.05
5,789.0	24.70	345.23	5,032.3	2,623.2	2,508.6	-767.1	0.70	-0.69	0.08
5,884.0	25.55	345.41	5,118.3	2,663.6	2,547.6	-777.4	0.90	0.89	0.19
5,979.0	25.09	344.80	5,204.2	2,704.2	2,586.9	-787.8	0.56	-0.48	-0.64
6,074.0	23.03	345.32	5,290.9	2,742.9	2,624.3	-797.8	2.18	-2.17	0.55
6,169.0	22.99	344.86	5,378.4	2,780.0	2,660.2	-807.3	0.19	-0.04	-0.48
6,264.0	23.07	345.24	5,465.8	2,817.1	2,696.1	-816.9	0.18	0.08	0.40
6,359.0	24.11	346.75	5,552.9	2,855.1	2,733.0	-826.1	1.27	1.09	1.59
6,454.0	22.64	346.12	5,640.1	2,892.7	2,769.6	-835.0	1.57	-1.55	-0.66
6,549.0	20.45	344.51	5,728.4	2,927.6	2,803.4	-843.8	2.39	-2.31	-1.69
6,644.0	19.38	343.96	5,817.7	2,960.0	2,834.5	-852.6	1.14	-1.13	-0.58
6,739.0	17.58	341.98	5,907.8	2,990.1	2,863.3	-861.4	2.01	-1.89	-2.08
6,833.0	17.58	347.19	5,997.4	3,018.4	2,890.7	-868.9	1.67	0.00	5.54
6,840.3	17.49	347.09	6,004.4	3,020.6	2,892.8	-869.4	1.27	-1.20	-1.37
32A-24-2-98 TGT									
6,928.0	16.44	345.81	6,088.3	3,046.2	2,917.7	-875.4	1.27	-1.20	-1.46
7,023.0	16.17	350.07	6,179.5	3,072.7	2,943.7	-881.0	1.29	-0.28	4.48
7,118.0	14.41	352.01	6,271.1	3,097.6	2,968.5	-884.9	1.93	-1.85	2.04
7,213.0	12.34	351.60	6,363.5	3,119.3	2,990.2	-888.0	2.18	-2.18	-0.43
7,308.0	11.38	351.12	6,456.5	3,138.6	3,009.5	-890.9	1.02	-1.01	-0.51
7,402.0	9.58	357.10	6,548.9	3,155.4	3,026.5	-892.8	2.23	-1.91	6.36
7,497.0	8.60	353.58	6,642.7	3,170.1	3,041.5	-894.0	1.19	-1.03	-3.71
7,622.0	5.12	359.06	6,766.8	3,184.7	3,056.3	-895.1	2.83	-2.78	4.38
7,717.0	2.29	28.74	6,861.6	3,190.1	3,062.2	-894.3	3.50	-2.98	31.24
7,811.0	1.23	208.48	6,955.6	3,190.7	3,063.0	-893.8	3.74	-1.13	191.21
7,906.0	2.11	217.27	7,050.6	3,188.9	3,060.7	-895.4	0.96	0.93	9.25
8,001.0	2.37	226.05	7,145.5	3,187.0	3,058.0	-897.8	0.45	0.27	9.24

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8,096.0	2.59	226.76	7,240.4	3,185.1	3,055.1	-900.8	0.23	0.23	0.75	
8,191.0	1.71	269.17	7,335.3	3,184.6	3,053.6	-903.8	1.85	-0.93	44.64	
8,285.0	1.60	276.14	7,429.3	3,185.5	3,053.8	-906.5	0.24	-0.12	7.41	
8,380.0	1.58	265.96	7,524.3	3,186.3	3,053.8	-909.1	0.30	-0.02	-10.72	
8,475.0	1.17	350.19	7,619.2	3,187.5	3,054.7	-910.6	1.97	-0.43	88.66	
8,570.0	2.50	52.60	7,714.2	3,189.2	3,056.9	-909.1	2.33	1.40	65.69	
8,664.0	2.43	54.54	7,808.1	3,190.6	3,059.3	-905.9	0.12	-0.07	2.06	
8,759.0	1.71	62.45	7,903.1	3,191.5	3,061.1	-903.0	0.81	-0.76	8.33	
8,854.0	2.50	89.50	7,998.0	3,191.2	3,061.8	-899.7	1.31	0.83	28.47	
8,946.0	2.00	96.50	8,089.9	3,190.0	3,061.6	-896.1	0.62	-0.54	7.61	
9,041.0	1.70	106.40	8,184.9	3,188.6	3,061.0	-893.1	0.46	-0.32	10.42	
9,136.0	1.50	121.00	8,279.8	3,186.9	3,060.0	-890.6	0.48	-0.21	15.37	
9,231.0	1.40	140.70	8,374.8	3,184.9	3,058.5	-888.8	0.53	-0.11	20.74	
9,326.0	1.20	140.90	8,469.8	3,182.9	3,056.8	-887.5	0.21	-0.21	0.21	
9,421.0	0.90	147.90	8,564.8	3,181.3	3,055.4	-886.4	0.34	-0.32	7.37	
9,515.0	0.80	177.10	8,658.8	3,179.9	3,054.1	-886.0	0.47	-0.11	31.06	
9,610.0	1.00	192.70	8,753.7	3,178.5	3,052.6	-886.2	0.33	0.21	16.42	
9,705.0	1.40	24.70	8,848.7	3,178.7	3,052.9	-885.9	2.51	0.42	-176.84	
9,800.0	1.20	23.70	8,943.7	3,180.3	3,054.8	-885.0	0.21	-0.21	-1.05	
9,895.0	1.00	5.80	9,038.7	3,181.8	3,056.6	-884.5	0.42	-0.21	-18.84	
9,990.0	1.10	334.70	9,133.7	3,183.5	3,058.2	-884.8	0.60	0.11	-32.74	
10,085.0	1.10	304.20	9,228.7	3,185.1	3,059.6	-885.9	0.61	0.00	-32.11	
10,180.0	1.10	288.10	9,323.6	3,186.3	3,060.4	-887.6	0.32	0.00	-16.95	
10,275.0	1.30	273.90	9,418.6	3,187.2	3,060.7	-889.5	0.38	0.21	-14.95	
10,369.0	1.80	259.80	9,512.6	3,187.8	3,060.5	-892.0	0.67	0.53	-15.00	
10,464.0	2.50	255.70	9,607.5	3,188.0	3,059.7	-895.5	0.75	0.74	-4.32	
10,559.0	2.50	253.80	9,702.4	3,188.1	3,058.7	-899.5	0.09	0.00	-2.00	

Payzone Directional Service

End of Well Report

Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well BR C-24O 32A-24-2-98
Project:	Rio Blanco County, Colorado	TVD Reference:	BR C-24O 32A-24-2-98 @ 6325.5usft (Plan KB)
Site:	BR C-24O	MD Reference:	BR C-24O 32A-24-2-98 @ 6325.5usft (Plan KB)
Well:	BR C-24O 32A-24-2-98	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	EDM 5000.1 Single User Db

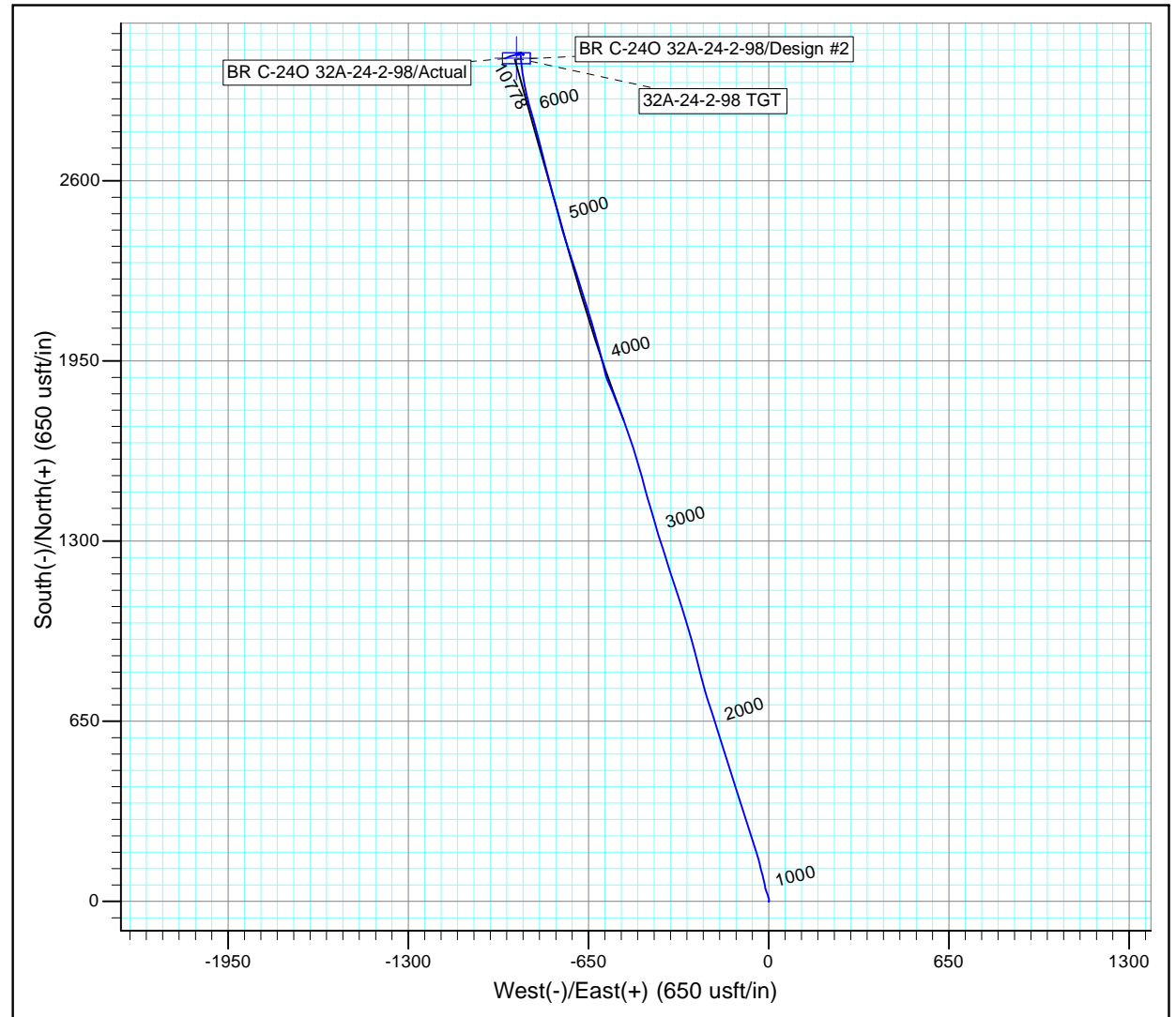
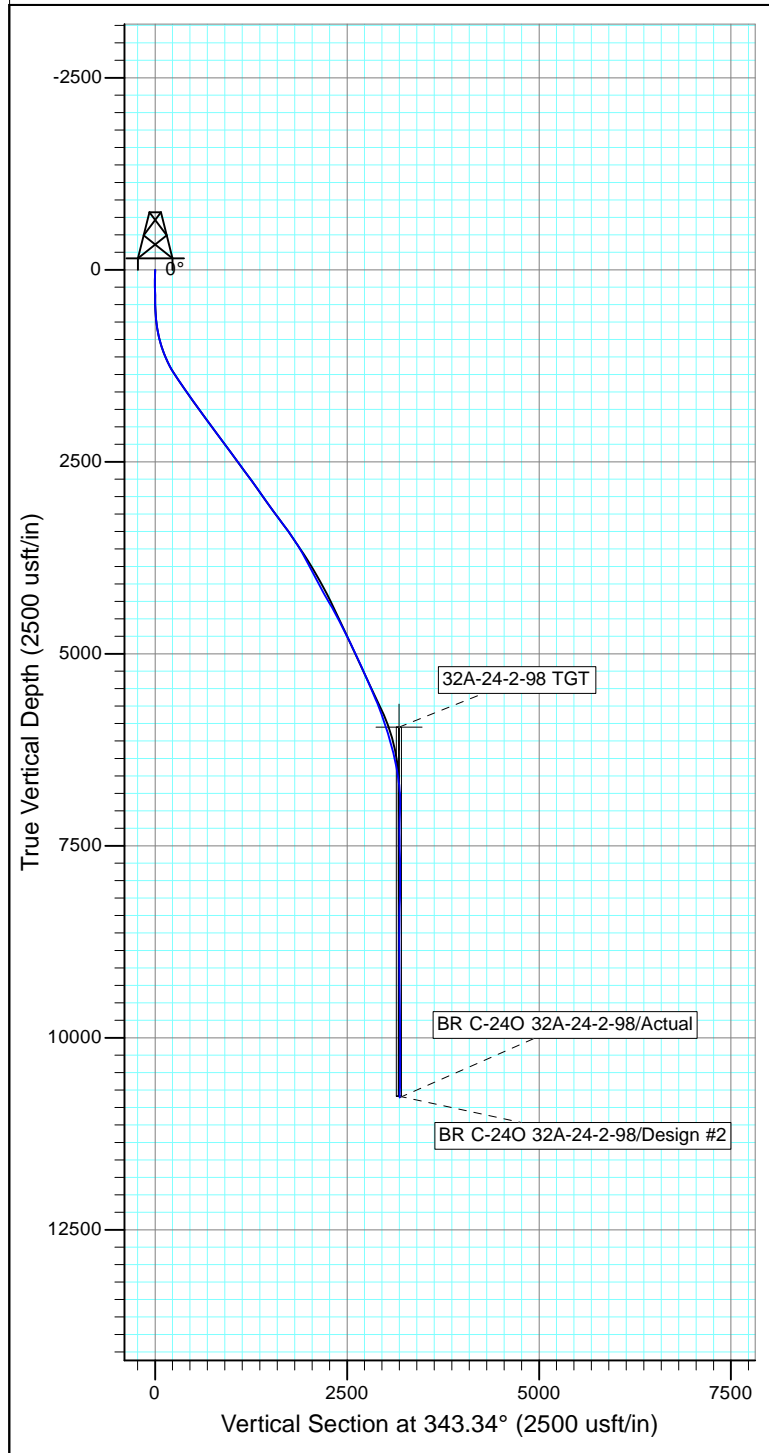
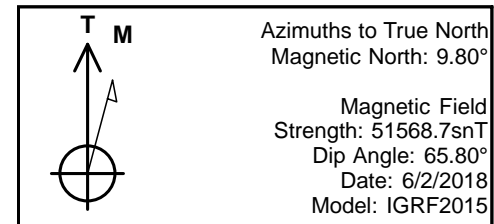
Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	
10,653.0	2.60	256.30	9,796.3	3,188.3	3,057.6	-903.5	0.16	0.11	2.66	
10,748.0	2.20	257.70	9,891.3	3,188.5	3,056.7	-907.4	0.43	-0.42	1.47	
10,843.0	2.70	257.30	9,986.2	3,188.8	3,055.8	-911.4	0.53	0.53	-0.42	
10,937.0	2.80	250.50	10,080.1	3,188.9	3,054.5	-915.7	0.36	0.11	-7.23	
11,032.0	2.90	250.50	10,174.9	3,188.6	3,053.0	-920.2	0.11	0.11	0.00	
11,127.0	2.90	255.70	10,269.8	3,188.6	3,051.6	-924.8	0.28	0.00	5.47	
11,222.0	3.40	253.40	10,364.7	3,188.7	3,050.2	-929.8	0.54	0.53	-2.42	
11,317.0	3.30	253.60	10,459.5	3,188.7	3,048.6	-935.1	0.11	-0.11	0.21	
11,411.0	3.20	244.60	10,553.4	3,188.3	3,046.7	-940.1	0.55	-0.11	-9.57	
11,506.0	3.10	243.90	10,648.2	3,187.5	3,044.4	-944.8	0.11	-0.11	-0.74	
11,581.0	3.30	241.00	10,723.1	3,186.7	3,042.5	-948.5	0.34	0.27	-3.87	
Last PZD Survey										
11,636.0	3.30	241.00	10,778.0	3,186.0	3,041.0	-951.2	0.00	0.00	0.00	
Straightline Projection to TD										

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
11,581.0	10,723.1	3,042.5	-948.5	Last PZD Survey
11,636.0	10,778.0	3,041.0	-951.2	Straightline Projection to TD

Checked By: _____	Approved By: _____	Date: _____
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Project: Rio Blanco County, Colorado
Site: BR C-24O
Well: BR C-24O 32A-24-2-98
Wellbore: Wellbore #1
Design: Actual



Design: Actual (BR C-24O 32A-24-2-98/Wellbore #1)

Created By: Derek Stephens Date: 10:30, August 15 2018

THIS SURVEY IS CORRECT TO THE BEST OF
MY KNOWLEDGE AND IS SUPPORTED
BY ACTUAL FIELD DATA