



Ursa Operating Company, LLC

Rockies Region

Yater

YATER 11D-17-07-95

Wellbore #1

Design: Actual

End of Well Report

28 July, 2015



Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well YATER 11D-17-07-95
Project:	Rockies Region	TVD Reference:	YATER 11D-17-07-95 @ 5536.0usft (CAPSTAR 321)
Site:	Yater	MD Reference:	YATER 11D-17-07-95 @ 5536.0usft (CAPSTAR 321)
Well:	YATER 11D-17-07-95	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	EDM 5000.1 Single User Db

Project		Rockies Region	
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Central Zone		

Site		Yater			
Site Position:		Northing:		1,593,358.14 usft	
From:	Lat/Long	Easting:		2,286,525.77 usft	
Position Uncertainty:		Slot Radius:		13-3/16 "	
				Latitude: 39° 26' 7.071 N	
				Longitude: 108° 1' 35.041 W	
				Grid Convergence: -1.59 °	

Well		YATER 11D-17-07-95, SHL LAT: 39.435228927 LONG: -108.026398163				
Well Position	+N/-S	0.0 usft	Northing:	1,593,333.13 usft	Latitude:	39° 26' 6.824 N
	+E/-W	0.0 usft	Easting:	2,286,525.65 usft	Longitude:	108° 1' 35.033 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	5,536.0 usft	Ground Level:	5,519.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	6/15/2015	9.84	65.57	51,814

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	348.00

Survey Program		Date	7/28/2015		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
268.0	7,460.0	Survey #1 (Wellbore #1)	MWD	MWD - Standard	

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Well:	YATER 11D-17-07-95	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)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
268.0	0.69	158.67	268.0	-1.6	-1.5	0.6	0.26	0.26	0.00	
299.0	0.35	138.56	299.0	-1.9	-1.7	0.7	1.23	-1.10	-64.87	
329.0	0.35	4.00	329.0	-1.9	-1.7	0.8	2.15	0.00	-448.53	
360.0	0.88	19.64	360.0	-1.6	-1.4	0.9	1.78	1.71	50.45	
390.0	1.45	7.77	390.0	-1.0	-0.8	1.0	2.05	1.90	-39.57	
421.0	2.50	2.72	421.0	0.0	0.3	1.1	3.43	3.39	-16.29	
451.0	3.12	353.89	450.9	1.5	1.7	1.0	2.51	2.07	-29.43	
482.0	3.74	0.30	481.9	3.3	3.6	0.9	2.35	2.00	20.68	
513.0	4.44	354.77	512.8	5.5	5.8	0.8	2.59	2.26	-17.84	
543.0	5.27	356.44	542.7	8.0	8.3	0.6	2.81	2.77	5.57	
574.0	6.24	357.71	573.5	11.1	11.4	0.5	3.16	3.13	4.10	
605.0	7.03	358.24	604.3	14.6	15.0	0.4	2.56	2.55	1.71	
635.0	8.04	357.45	634.1	18.5	18.9	0.2	3.38	3.37	-2.63	
666.0	8.88	355.87	664.7	23.0	23.5	-0.1	2.81	2.71	-5.10	
696.0	9.98	357.18	694.3	27.8	28.4	-0.3	3.74	3.67	4.37	
727.0	10.90	355.78	724.8	33.4	34.0	-0.7	3.08	2.97	-4.52	
758.0	11.91	356.61	755.2	39.5	40.1	-1.1	3.30	3.26	2.68	
801.0	13.27	354.85	797.2	48.7	49.4	-1.8	3.29	3.16	-4.09	
843.0	14.41	354.15	837.9	58.7	59.4	-2.8	2.74	2.71	-1.67	
886.0	15.47	354.28	879.5	69.7	70.5	-3.9	2.47	2.47	0.30	
929.0	16.70	349.67	920.8	81.6	82.3	-5.6	4.12	2.86	-10.72	
971.0	17.94	350.15	960.9	94.1	94.6	-7.8	2.97	2.95	1.14	
1,014.0	19.25	349.84	1,001.7	107.8	108.1	-10.1	3.06	3.05	-0.72	
1,057.0	20.48	349.71	1,042.1	122.4	122.5	-12.7	2.86	2.86	-0.30	
1,099.0	21.71	350.24	1,081.3	137.5	137.3	-15.4	2.96	2.93	1.26	
1,142.0	23.17	349.82	1,121.0	153.9	153.5	-18.2	3.42	3.40	-0.98	

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Well:	YATER 11D-17-07-95	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)
1,185.0	24.79	349.32	1,160.3	171.4	170.7	-21.4	3.80	3.77	-1.16
1,227.0	26.46	349.41	1,198.2	189.6	188.5	-24.7	3.98	3.98	0.21
1,270.0	27.82	349.54	1,236.4	209.2	207.8	-28.3	3.17	3.16	0.30
1,313.0	29.40	349.01	1,274.2	229.8	228.1	-32.1	3.72	3.67	-1.23
1,356.0	31.29	349.41	1,311.3	251.5	249.4	-36.2	4.42	4.40	0.93
1,398.0	33.27	349.27	1,346.8	273.9	271.4	-40.4	4.72	4.71	-0.33
1,441.0	35.02	348.79	1,382.4	298.0	295.1	-44.9	4.12	4.07	-1.12
1,484.0	36.83	348.79	1,417.2	323.2	319.9	-49.9	4.21	4.21	0.00
1,526.0	38.45	349.54	1,450.5	348.9	345.1	-54.7	4.01	3.86	1.79
1,569.0	39.92	349.74	1,483.8	376.0	371.8	-59.6	3.43	3.42	0.47
1,612.0	39.99	349.01	1,516.8	403.7	398.9	-64.6	1.10	0.16	-1.70
1,654.0	39.77	348.35	1,549.0	430.6	425.3	-69.9	1.14	-0.52	-1.57
1,697.0	40.03	347.52	1,582.0	458.2	452.3	-75.7	1.38	0.60	-1.93
1,740.0	39.73	347.21	1,615.0	485.7	479.2	-81.7	0.84	-0.70	-0.72
1,782.0	39.61	347.20	1,647.3	512.5	505.4	-87.7	0.29	-0.29	-0.02
1,825.0	40.65	347.20	1,680.2	540.3	532.4	-93.8	2.42	2.42	0.00
1,889.0	40.96	348.59	1,728.6	582.1	573.3	-102.6	1.50	0.48	2.17
1,975.0	40.96	348.31	1,793.6	638.4	628.5	-113.9	0.21	0.00	-0.33
2,060.0	42.67	346.81	1,856.9	695.1	683.8	-126.1	2.33	2.01	-1.76
2,146.0	42.98	348.13	1,920.0	753.6	740.9	-138.8	1.10	0.36	1.53
2,231.0	41.70	347.43	1,982.8	810.8	796.9	-150.9	1.60	-1.51	-0.82
2,316.0	41.26	348.39	2,046.5	867.1	851.9	-162.7	0.91	-0.52	1.13
2,402.0	41.09	348.75	2,111.2	923.7	907.4	-173.9	0.34	-0.20	0.42
2,487.0	40.69	349.05	2,175.5	979.4	962.0	-184.6	0.52	-0.47	0.35
2,573.0	41.35	350.50	2,240.4	1,035.8	1,017.5	-194.6	1.35	0.77	1.69
2,658.0	40.52	350.28	2,304.6	1,091.4	1,072.5	-203.9	0.99	-0.98	-0.26
2,743.0	40.65	349.67	2,369.1	1,146.7	1,126.9	-213.5	0.49	0.15	-0.72

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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)	
2,829.0	39.47	349.33	2,435.0	1,202.0	1,181.3	-223.6	1.40	-1.37	-0.40	
2,914.0	40.39	349.19	2,500.1	1,256.6	1,234.9	-233.8	1.09	1.08	-0.16	
3,000.0	39.20	348.09	2,566.2	1,311.6	1,288.9	-244.6	1.61	-1.38	-1.28	
3,085.0	40.12	348.41	2,631.7	1,365.8	1,342.0	-255.7	1.11	1.08	0.38	
3,170.0	39.51	348.57	2,696.9	1,420.3	1,395.3	-266.5	0.73	-0.72	0.19	
3,256.0	40.69	348.48	2,762.7	1,475.7	1,449.6	-277.6	1.37	1.37	-0.10	
3,341.0	40.21	348.31	2,827.4	1,530.8	1,503.6	-288.6	0.58	-0.56	-0.20	
3,427.0	39.33	347.78	2,893.5	1,585.8	1,557.5	-300.0	1.10	-1.02	-0.62	
3,512.0	38.50	347.43	2,959.6	1,639.2	1,609.6	-311.5	1.01	-0.98	-0.41	
3,598.0	38.94	347.78	3,026.7	1,693.0	1,662.2	-323.0	0.57	0.51	0.41	
3,683.0	40.25	349.36	3,092.2	1,747.2	1,715.3	-333.8	1.94	1.54	1.86	
3,768.0	39.90	348.97	3,157.3	1,801.9	1,769.0	-344.1	0.51	-0.41	-0.46	
3,854.0	39.20	349.10	3,223.6	1,856.6	1,822.8	-354.5	0.82	-0.81	0.15	
3,939.0	38.63	348.61	3,289.7	1,910.0	1,875.2	-364.8	0.76	-0.67	-0.58	
4,024.0	39.55	349.80	3,355.7	1,963.6	1,927.8	-374.8	1.40	1.08	1.40	
4,110.0	38.19	349.45	3,422.7	2,017.5	1,980.9	-384.5	1.60	-1.58	-0.41	
4,195.0	36.08	348.83	3,490.4	2,068.8	2,031.3	-394.2	2.52	-2.48	-0.73	
4,281.0	36.56	348.66	3,559.7	2,119.8	2,081.2	-404.1	0.57	0.56	-0.20	
4,366.0	35.86	347.47	3,628.3	2,170.0	2,130.4	-414.5	1.17	-0.82	-1.40	
4,451.0	35.46	347.03	3,697.4	2,219.5	2,178.7	-425.5	0.56	-0.47	-0.52	
4,536.0	33.18	348.09	3,767.6	2,267.5	2,225.5	-435.8	2.77	-2.68	1.25	
4,622.0	29.84	348.63	3,840.9	2,312.4	2,269.5	-444.9	3.90	-3.88	0.63	
4,707.0	26.04	349.58	3,915.9	2,352.2	2,308.6	-452.4	4.50	-4.47	1.12	
4,792.0	22.36	349.95	3,993.5	2,387.0	2,342.9	-458.6	4.33	-4.33	0.44	
4,877.0	18.41	349.54	4,073.1	2,416.6	2,372.0	-463.9	4.65	-4.65	-0.48	
4,963.0	15.51	346.51	4,155.4	2,441.7	2,396.5	-469.0	3.52	-3.37	-3.52	
5,048.0	12.52	350.77	4,237.8	2,462.3	2,416.7	-473.2	3.72	-3.52	5.01	

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5,134.0	10.46	352.75	4,322.1	2,479.4	2,433.6	-475.6	2.44	-2.40	2.30	
5,219.0	8.35	349.36	4,406.0	2,493.2	2,447.4	-477.7	2.57	-2.48	-3.99	
5,305.0	6.86	350.37	4,491.2	2,504.6	2,458.6	-479.8	1.74	-1.73	1.17	
5,390.0	6.02	349.19	4,575.7	2,514.1	2,467.9	-481.4	1.00	-0.99	-1.39	
5,475.0	3.65	350.02	4,660.4	2,521.3	2,475.0	-482.8	2.79	-2.79	0.98	
5,561.0	2.94	352.58	4,746.2	2,526.2	2,479.9	-483.5	0.84	-0.83	2.98	
5,646.0	2.30	347.77	4,831.1	2,530.1	2,483.7	-484.2	0.80	-0.75	-5.66	
5,732.0	1.98	338.16	4,917.1	2,533.3	2,486.8	-485.1	0.56	-0.37	-11.17	
5,817.0	1.63	324.53	5,002.0	2,535.8	2,489.1	-486.3	0.65	-0.41	-16.04	
5,902.0	1.98	8.21	5,087.0	2,538.3	2,491.6	-486.8	1.63	0.41	51.39	
5,988.0	1.67	9.14	5,172.9	2,540.9	2,494.3	-486.4	0.36	-0.36	1.08	
6,073.0	1.19	359.56	5,257.9	2,542.9	2,496.4	-486.2	0.63	-0.56	-11.27	
6,158.0	0.57	334.07	5,342.9	2,544.2	2,497.6	-486.4	0.85	-0.73	-29.99	
6,244.0	0.44	297.95	5,428.9	2,544.8	2,498.2	-486.9	0.39	-0.15	-42.00	
6,329.0	0.48	247.85	5,513.9	2,545.0	2,498.2	-487.5	0.46	0.05	-58.94	
6,415.0	1.98	201.92	5,599.9	2,543.7	2,496.7	-488.4	1.96	1.74	-53.41	
6,500.0	1.76	194.15	5,684.8	2,541.3	2,494.0	-489.3	0.39	-0.26	-9.14	
6,586.0	1.71	195.38	5,770.8	2,538.9	2,491.5	-489.9	0.07	-0.06	1.43	
6,671.0	1.98	206.36	5,855.8	2,536.7	2,489.0	-490.9	0.52	0.32	12.92	
6,756.0	2.11	224.95	5,940.7	2,534.7	2,486.6	-492.7	0.79	0.15	21.87	
6,842.0	2.33	226.01	6,026.6	2,532.9	2,484.2	-495.0	0.26	0.26	1.23	
6,927.0	2.46	232.35	6,111.6	2,531.2	2,481.9	-497.7	0.35	0.15	7.46	
7,012.0	2.70	240.21	6,196.5	2,529.8	2,479.8	-500.9	0.50	0.28	9.25	
7,098.0	3.16	238.75	6,282.4	2,528.4	2,477.6	-504.7	0.54	0.53	-1.70	
7,183.0	3.52	241.61	6,367.2	2,526.9	2,475.1	-509.0	0.47	0.42	3.36	
7,269.0	3.56	243.37	6,453.1	2,525.4	2,472.7	-513.7	0.13	0.05	2.05	
7,354.0	3.74	243.23	6,537.9	2,524.1	2,470.2	-518.5	0.21	0.21	-0.16	

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7,403.0	3.47	243.59	6,586.8	2,523.3	2,468.9	-521.3	0.55	-0.55	0.73	
7,460.0	3.47	243.59	6,643.7	2,522.4	2,467.3	-524.4	0.00	0.00	0.00	

Checked By: _____	Approved By: _____	Date: _____
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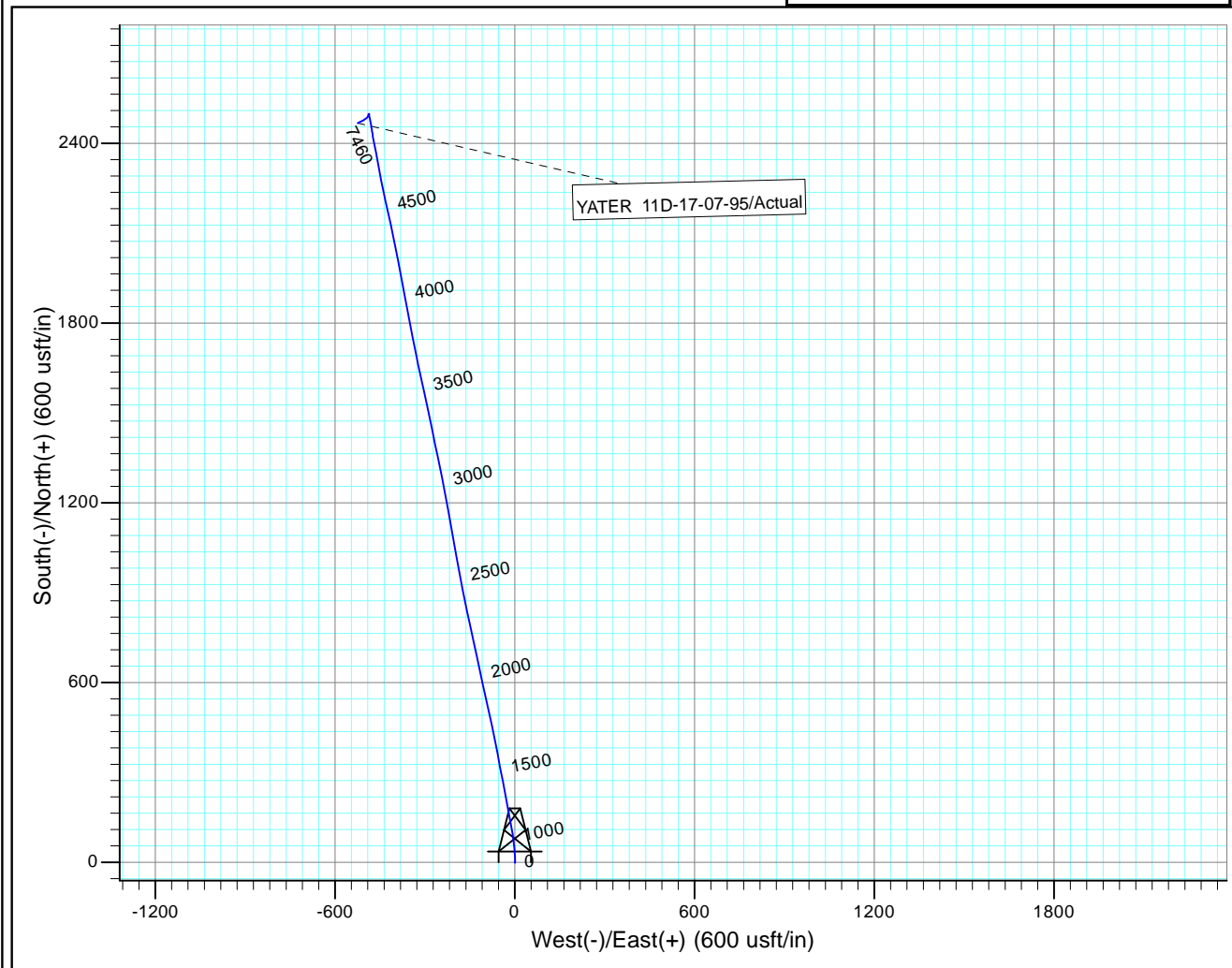
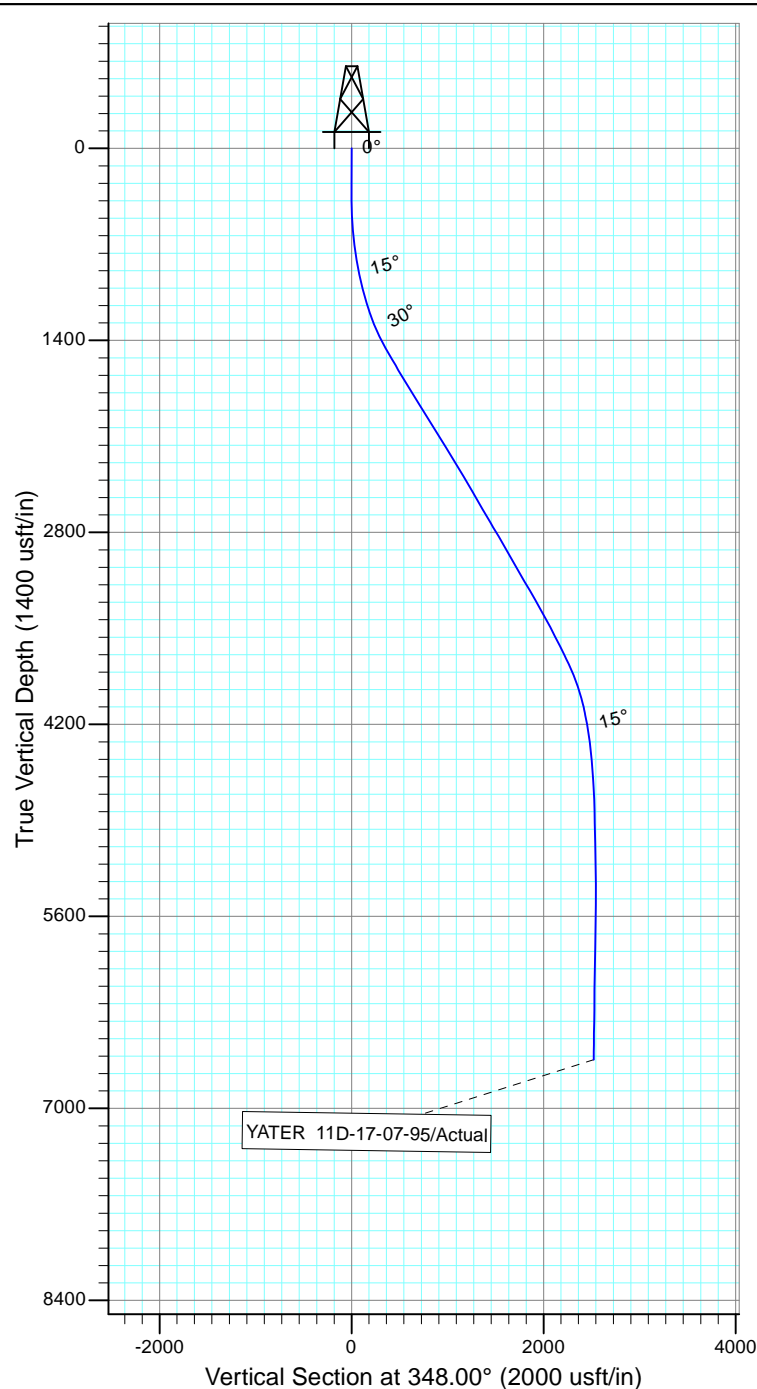


Project: Rockies Region
Site: Yater
Well: YATER 11D-17-07-95
Wellbore: Wellbore #1
Design: Actual



Azimuths to True North
Magnetic North: 9.84°

Magnetic Field
Strength: 51813.5snT
Dip Angle: 65.57°
Date: 6/15/2015
Model: IGRF2010



Design: Actual (YATER 11D-17-07-95/Wellbore #1)

Created By: Matthew Linton Date: 11:21, July 28 2015

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