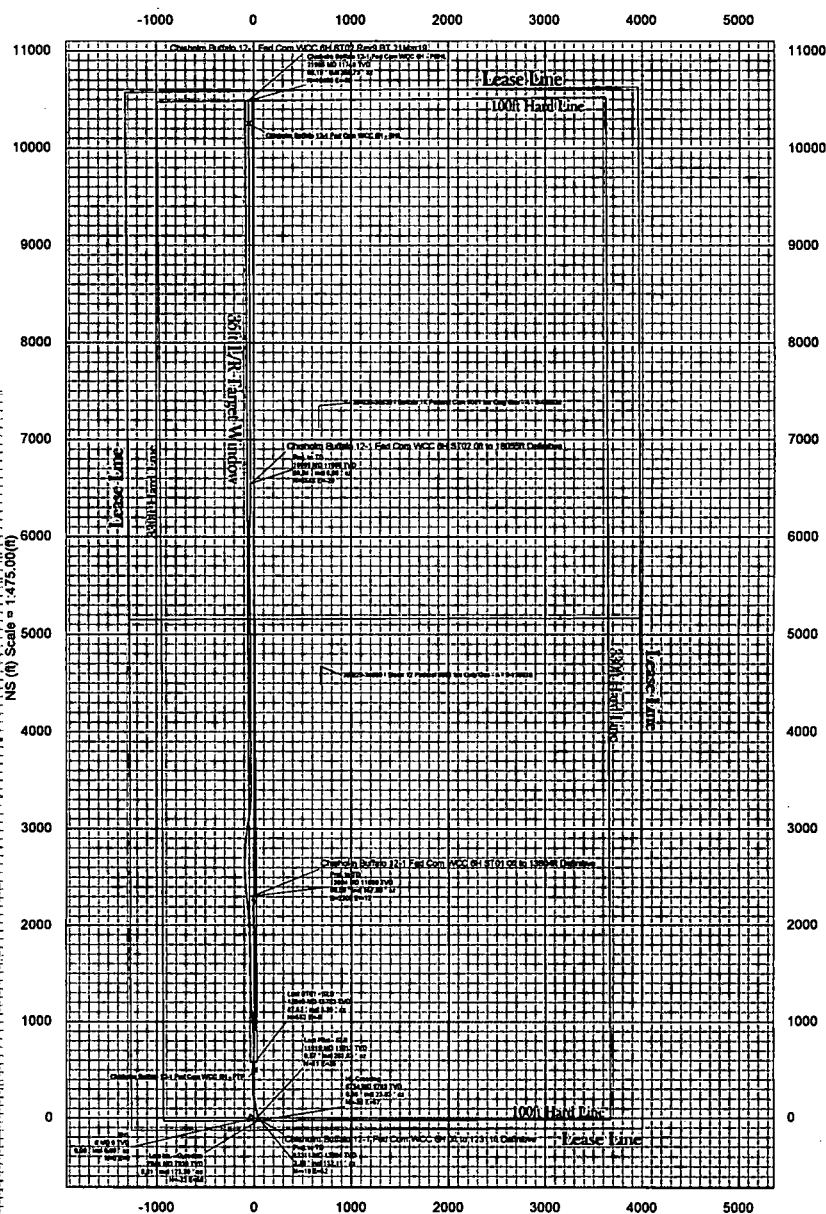
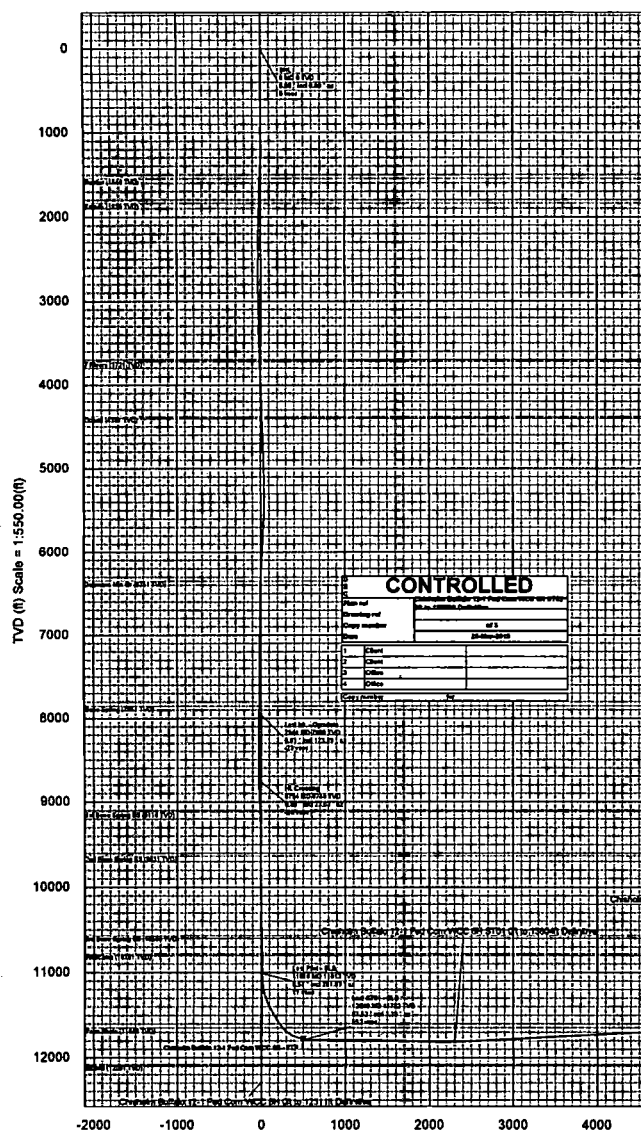


Borehole:	ST02	Well:	Chisholm Buffalo 12-1 Fed Com WCC 6H	Field:	NM Lea County (NAD 83)	Structure:	Chisholm Buffalo 12-1 Fed Com WCC 6H
Gravity & Magnetic Parameters		Surface Location		Magnetic Parameters		Miscellaneous	
Model:	HDGM 2019	Dip:	60.617°	Date:	07-Mar-2019	Lat:	N 32 40 4.11
MagDec:	6.439°	FB:	48206.181nT	Gravity FB:	999.511mgm (9.80665 Based)	North:	607416.387NLS
						Grid Conv:	0.3845°
						Scale Fact:	0.99998411
						Plan:	Chisholm Buffalo 12-1 Fed Com WCC 6H ST02 0H to 18066H Definitive

Critical Points								
Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+)/S(-)	E(+)/W(-)	DLB
SHL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Last Int. - Gyrodisk	7944.00	0.81	123.39	7638.56	-23.25	-23.02	50.36	0.38
HL Crossing	8734.00	0.86	23.03	8748.49	-25.83	-25.56	57.18	0.72
Last Pilot - SLB	11019.00	0.57	281.83	11012.87	11.07	11.24	34.64	0.45
Last ST01 - SLB	12049.00	87.52	3.39	11781.75	551.84	551.81	-7.58	11.88
Proj. to TD	18055.00	88.94	0.06	11689.89	6545.91	6545.85	-28.78	0.00

**CONFIDENTIAL**

DDS CANNOT BE HELD CONFIDENTIAL



Vertical Section (ft) Azim = 359.73° Scale = 1:550.00(ft) Origin = 0N-S, 0E-W

CONFIDENTIAL

Schlumberger

Chisholm Buffalo 12-1 Fed Com WCC 6H ST02 0ft to 18055ft Definitive Survey Report (Def Survey)



Report Date: March 25, 2019 - 02:53 PM
Client: Chisholm Energy Operating, LLC
Field: NM Les County (NAD 83)
Structure / Slot: Chisholm Buffalo 12-1 Fed Com WCC 6H / New Slot
Well: Chisholm Buffalo 12-1 Fed Com WCC 6H
Borehole: ST02
UWI / API#: Unknown / 30-025-45159-02
Survey Name: Chisholm Buffalo 12-1 Fed Com WCC 6H ST02 0ft to 18055ft Definitive
Survey Date: March 07, 2019
Tort / AHD / DDI / ERD Ratio: 234.949' / 8888.338 ft / 6.392 / 0.581
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 40' 4.11238", W 103° 37' 15.79120"
Location Grid N/E Y/X: N 607415.380 NUS, E 760522.920 NUS
CRS Grid Convergence Angle: 0.3845°
Grid Scale Factor: 0.99996411
Version / Patch: 2.10.753.0

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 359.730° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB = 31ft (JOC 7)
TVD Reference Elevation: 3741.300 ft above MSL
Seabed / Ground Elevation: 3710.300 ft above MSL
Magnetic Declination: 6.838°
Total Gravity Field Strength: 986.5109mgn (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 48206.181 nT
Magnetic Dip Angle: 60.617°
Declination Date: March 07, 2019
Magnetic Declination Model: HDGM 2019
North Reference: Grid North
Grid Convergence Used: 0.3845°
Total Cor Mag North->Grid: 6.2539°
Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azim Grl (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (°)	DLS (ft/100ft)	Northing (NUS)	Easting (EUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
SHL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	607415.38	760522.92	N 32° 40' 4.11"	W 103° 37' 15.79"
	151.00	0.14	149.55	151.00	-0.16	-0.16	0.08	0.18	149.55	0.09	607415.22	760523.01	N 32° 40' 4.11"	W 103° 37' 15.78"
	240.00	0.33	169.20	240.00	-0.51	-0.50	0.20	0.52	169.21	0.23	607414.88	760523.12	N 32° 40' 4.10"	W 103° 37' 15.79"
	360.00	0.37	156.06	360.00	-1.20	-1.20	0.42	1.27	160.75	0.07	607414.18	760523.34	N 32° 40' 4.10"	W 103° 37' 15.79"
	507.00	0.23	168.33	506.99	-1.93	-1.92	0.57	2.01	163.55	0.15	607413.46	760523.49	N 32° 40' 4.09"	W 103° 37' 15.78"
	601.00	0.27	216.54	600.99	-2.29	-2.29	0.41	2.32	169.87	0.14	607413.09	760523.33	N 32° 40' 4.09"	W 103° 37' 15.79"
	660.00	0.54	222.81	659.99	-2.60	-2.60	0.14	2.61	176.98	0.48	607412.78	760523.06	N 32° 40' 4.09"	W 103° 37' 15.79"
	756.00	0.64	252.96	755.99	-3.09	-3.09	-0.68	3.17	182.45	0.34	607412.29	760522.24	N 32° 40' 4.08"	W 103° 37' 15.80"
	863.00	1.04	254.39	862.97	-3.60	-3.61	-2.47	4.38	214.38	0.32	607411.77	760520.45	N 32° 40' 4.08"	W 103° 37' 15.82"
	977.00	1.55	263.97	976.95	-4.17	-4.17	-4.51	6.18	227.12	0.54	607411.19	760518.41	N 32° 40' 4.07"	W 103° 37' 15.84"
	1072.00	1.47	260.22	1071.92	-4.93	-4.98	-5.80	8.49	234.28	0.13	607410.42	760518.02	N 32° 40' 4.06"	W 103° 37' 15.87"
	1168.00	1.89	243.33	1167.88	-6.04	-6.09	-8.47	11.26	237.27	0.48	607409.29	760513.45	N 32° 40' 4.05"	W 103° 37' 15.90"
	1263.00	2.39	234.94	1262.81	-7.87	-7.93	-12.49	14.79	237.60	0.62	607407.45	760510.43	N 32° 40' 4.03"	W 103° 37' 15.94"
	1358.00	2.57	235.00	1357.72	-10.21	-10.29	-15.88	18.90	237.03	0.19	607405.09	760507.06	N 32° 40' 4.01"	W 103° 37' 15.98"
	1453.00	2.83	235.26	1452.62	-12.68	-12.75	-19.39	23.21	238.68	0.06	607402.63	760503.53	N 32° 40' 3.99"	W 103° 37' 16.02"
	1542.00	3.01	240.41	1541.51	-14.98	-15.07	-23.10	27.58	238.89	0.51	607400.31	760499.82	N 32° 40' 3.96"	W 103° 37' 16.06"
	1659.00	3.07	244.29	1658.35	-17.81	-17.84	-28.80	33.78	237.89	0.18	607397.44	760494.32	N 32° 40' 3.94"	W 103° 37' 16.13"
	1754.00	2.31	239.95	1753.24	-19.85	-20.01	-32.55	38.20	238.42	0.83	607395.37	760490.38	N 32° 40' 3.92"	W 103° 37' 16.17"
	1850.00	2.34	240.23	1849.17	-21.78	-21.95	-35.92	42.10	238.58	0.03	607393.43	760487.00	N 32° 40' 3.90"	W 103° 37' 16.21"
	1945.00	2.16	245.81	1944.09	-23.48	-23.64	-38.24	45.81	238.93	0.30	607391.74	760483.68	N 32° 40' 3.88"	W 103° 37' 16.25"
	2040.00	2.00	246.26	2039.03	-24.85	-25.05	-42.39	49.24	239.42	0.17	607390.34	760480.53	N 32° 40' 3.87"	W 103° 37' 16.29"
	2136.00	1.94	241.56	2134.97	-26.28	-26.49	-45.35	52.52	239.71	0.18	607388.89	760477.57	N 32° 40' 3.85"	W 103° 37' 16.32"
	2229.00	1.59	243.84	2227.93	-27.59	-27.81	-47.89	55.38	239.88	0.38	607387.57	760475.03	N 32° 40' 3.84"	W 103° 37' 16.35"
	2325.00	1.85	245.13	2323.89	-28.74	-28.98	-50.34	58.09	240.07	0.07	607386.40	760472.58	N 32° 40' 3.83"	W 103° 37' 16.38"
	2420.00	1.55	250.89	2418.85	-29.73	-29.98	-52.80	60.71	240.41	0.20	607385.41	760470.12	N 32° 40' 3.82"	W 103° 37' 16.41"
	2515.00	1.39	250.55	2513.82	-30.52	-30.78	-55.10	63.11	240.81	0.17	607384.60	760467.82	N 32° 40' 3.81"	W 103° 37' 16.44"
	2610.00	1.55	260.90	2608.78	-31.10	-31.37	-57.45	65.46	241.37	0.33	607384.01	760465.47	N 32° 40' 3.81"	W 103° 37' 16.47"
	2706.00	1.03	279.40	2704.77	-31.15	-31.43	-59.59	67.37	242.19	0.69	607383.95	760463.34	N 32° 40' 3.81"	W 103° 37' 16.49"
	2801.00	0.63	290.78	2799.78	-30.82	-31.11	-60.92	68.40	242.95	0.45	607384.27	760462.00	N 32° 40' 3.81"	W 103° 37' 16.51"
	2897.00	0.68	328.23	2895.75	-30.15	-30.45	-61.73	68.83	243.75	0.42	607384.94	760461.19	N 32° 40' 3.82"	W 103° 37' 16.52"
	2992.00	0.70	346.95	2990.75	-29.35	-29.64	-61.57	68.33	244.29	1.02	607385.74	760461.38	N 32° 40' 3.82"	W 103° 37' 16.51"
	3087.00	1.11	368.73	3085.73	-28.51	-28.81	-60.51	67.01	244.82	0.60	607386.87	760462.28	N 32° 40' 3.83"	W 103° 37' 16.50"
	3183.00	1.18	39.16	3181.72	-26.85	-26.93	-59.57	65.37	245.67	0.22	607388.45	760463.36	N 32° 40' 3.85"	W 103° 37' 16.49"
	3278.00	1.19	31.63	3276.69	-25.05	-25.33	-58.43	63.69	246.56	0.16	607390.05	760464.49	N 32° 40' 3.87"	W 103° 37' 16.48"
	3374.00	1.46	34.45	3372.67	-23.20	-23.47	-57.22	61.84	247.69	0.29	607391.91	760465.71	N 32° 40' 3.88"	W 103° 37' 16.46"
	3469.00	1.60	24.20	3467.64	-21.00	-21.28	-55.99	59.89	249.20	0.32	607394.12	760466.93	N 32° 40' 3.91"	W 103° 37' 16.45"
	3564.00	1.64	12.00	3562.60	-18.47	-18.73	-55.15	58.24	251.24	0.35	607396.65	760467.77	N 32° 40' 3.93"	W 103° 37' 16.44"
	3660.00	1.88	1.25	3658.55	-15.55	-15.81	-54.81	57.05	253.91	0.44	607399.57	760468.11	N 32° 40' 3.96"	W 103° 37' 16.43"
	3755.00	2.42	8.03	3753.49	-12.01	-12.28	-54.55	55.91	257.33	0.60	607403.12	760468.37	N 32° 40' 3.99"	W 103° 37' 16.43"
	3850.00	2.61	6.51	3848.39	-7.87	-8.13	-54.02	54.83	261.44	0.21	607407.25	760469.80	N 32° 40' 4.04"	W 103° 37' 16.42"
	3946.00	2.69	9.84	3944.29	-3.49	-3.74	-53.34	53.47	265.99	0.11	607411.64	760469.58	N 32° 40' 4.08"	W 103° 37' 16.42"
	4026.00	2.87	8.51	4024.20	0.34	0.69	-52.73	52.73	270.10	0.24	607415.47	760470.19	N 32° 40' 4.12"	W 103° 37' 16.41"
	4122.00	2.28	17.28	4120.10	4.53	4.29	-51.81	51.88	274.73	0.74	607419.67	760471.11	N 32° 40' 4.18"	W 103° 37' 16.40"
	4217.00	2.44	23.63	4215.02	8.18	7.95	-50.44	51.06	278.85	0.32	607423.33	760472.49	N 32° 40' 4.19"	W 103° 37' 16.38"
	4312.00	2.17	24.75	4309.94	11.66	11.43	-48.87	50.19	283.17	0.29	607428.81	760474.05	N 32° 40' 4.23"	W 103° 37' 16.36"
	4408.00	2.11	23.12	4405.88	14.93	14.71	-47.42	49.65	287.23	0.08	607430.09	760475.50	N 32° 40' 4.26"	W 103° 37' 16.34"
	4503.00	1.95	20.96	4500.82	18.04	17.83	-46.15	49.48	291.12	0.19	607433.21	760476.77	N 32° 40' 4.29"	W 103° 37' 16.33"
	4599.00	1.77	7.43	4596.77	21.04	20.82	-45.38	49.83	294.65	0.49	607438.20	760477.55	N 32° 40' 4.32"	W 103° 37' 16.32"
	4694.00	1.72	7.65	4691.72	23.90	23.69	-45.00	50.85	297.77	0.05	607439.07	760477.92	N 32° 40' 4.35"	W 103° 37' 16.32"
	4790.00	1.72	7.23	4787.68	26.76	26.55	-44.62	51.92	300.75	0.01	607441.93	760478.30	N 32° 40' 4.38"	W 103° 37' 16.31"
	4885.00	1.59	17.20	4882.64	29.43	29.22	-44.05	52.86	303.55	0.33	607444.80	760478.87	N 32° 40' 4.40"	W 103° 37' 16.30"
	4981.00	1.72	8.25	4978.60	32.12	31.92	-43.45	53.92	306.30	0.30	607447.30	760479.47	N 32° 40' 4.43"	W 103° 37' 16.30"
	5074.00	1.57	8.10	5071.58	34.76	34.58	-43.05	55.21	309.78	0.16	607449.94	760479.87	N 32° 40' 4.46"	W 103° 37' 16.29"
	5169.00	1.16	8.32	5166.53	36.99	36.79	-42.71	56.37	310.75	0.43	607452.17	760480.21	N 32° 40' 4.48"	W 103° 37' 16.29"
	5263.00	1.20	13.49	5260.51	38.69	38.69	-42.34	57.36	312.42	0.12	607454.07	760480.58	N 32° 40' 4.50"	W 103° 37' 16.28"
	5358.00	1.13	122.29	5355.50	39.35	39.18	-41.32	56.93	313.46	1.99	607454.54	760481.61	N 32° 40' 4.50"	W 103° 37' 16.27"
	5454.00	2.58	132.81	5451.45	37.37	37.18	-38.93	53.84	313.68	1.55	607452.58	760483.99	N 32° 40' 4.48"	W 103° 37' 16.24"
	5549.00	3.68	127.60	5546.31	34.03	33.87	-34.95	48.67	314.10	1.20	607449.25	760487.97	N 32° 40' 4.45"	W 103° 37' 16.20"
	5644.00	4.37	125.69	5641.07	30.03	29.89	-29.60	42.07	315.29	0.74	607445.27	760493.32	N 32° 40' 4.41"	W 103° 37' 16.14"
	5740.00	4.58	126.09	5736.78	25.61	25.50	-23.53	34.70	317.31	0.22	607440.88	760498.98	N 32° 40' 4.37"	W 103° 37' 16.06"
	5835.00	5.35	123.77	5831.42	20.89	20.81	-18.78	26.73	321.11	0.84	607438.19	760506.14	N 32° 40' 4.32"	W 103° 37' 15.99"
	5930.00	4.41	129.28	5926.08	16.08	16.03	-10.27	19.04	327.35	1.10	607431.41	760512.65	N 32° 40' 4.27"	W 103° 37' 15.91"
	6025.00	3.59	129.09	6020.85	11.87	111								

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (°)	DLB (ft/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ° °)	Longitude (E/W ° ° °)
	8752.00	0.83	23.48	8748.49	-25.88	-25.59	57.15	62.81	114.12	0.98	607389.79	780580.06	N 32 40 3.88	W 103 37 15.12
	8847.00	1.49	11.55	8841.47	-24.00	-23.73	57.67	62.37	112.37	0.72	607391.65	780580.59	N 32 40 3.87	W 103 37 15.12
	9036.00	3.23	342.68	9030.31	-16.50	-16.24	56.80	56.88	106.01	1.08	607399.14	780579.52	N 32 40 3.85	W 103 37 15.13
	9131.00	2.72	344.31	9125.18	-11.77	-11.51	55.20	56.39	101.78	0.54	607403.87	780578.12	N 32 40 3.99	W 103 37 15.15
	9225.00	1.75	8.39	9219.11	-8.20	-7.94	54.81	55.38	98.24	1.41	607407.44	780577.72	N 32 40 4.03	W 103 37 15.15
	9319.00	0.90	35.88	9313.08	-6.18	-5.92	55.45	55.76	96.10	1.10	607409.48	780578.37	N 32 40 4.05	W 103 37 15.14
	9414.00	1.09	57.35	9408.07	-5.10	-4.83	56.85	56.85	94.87	0.44	607410.55	780579.58	N 32 40 4.06	W 103 37 15.13
	9508.00	0.52	88.97	9502.08	-4.47	-4.19	57.80	57.95	94.15	0.83	607411.19	780580.71	N 32 40 4.07	W 103 37 15.12
	9603.00	0.90	228.79	9597.05	-4.80	-4.53	57.84	57.81	94.50	1.47	607410.85	780580.55	N 32 40 4.08	W 103 37 15.12
	9697.00	1.16	236.20	9691.04	-5.81	-5.54	56.29	56.56	95.63	0.31	607409.83	780579.21	N 32 40 4.05	W 103 37 15.13
	9792.00	1.13	298.64	9786.02	-5.92	-5.68	54.65	54.95	95.91	1.21	607409.72	780577.57	N 32 40 4.05	W 103 37 15.15
	9887.00	1.74	316.11	9880.99	-4.45	-4.20	52.88	52.88	94.55	0.81	607411.18	780575.74	N 32 40 4.07	W 103 37 15.17
	9981.00	0.68	349.38	9974.97	-2.87	-2.63	51.73	51.79	92.91	1.31	607412.75	780574.84	N 32 40 4.08	W 103 37 15.19
	10078.00	0.64	351.61	10069.97	-1.79	-1.55	51.54	51.72	91.72	0.05	607413.83	780574.46	N 32 40 4.09	W 103 37 15.19
	10171.00	0.97	2.24	10164.98	-0.48	-0.22	51.50	51.50	90.24	0.38	607415.18	780574.42	N 32 40 4.11	W 103 37 15.19
	10265.00	1.03	336.16	10258.94	1.12	1.38	51.21	51.23	88.48	0.45	607416.74	780574.13	N 32 40 4.12	W 103 37 15.19
	10360.00	1.68	305.34	10353.92	2.80	3.04	49.82	49.97	86.91	0.97	607416.72	780572.74	N 32 40 4.14	W 103 37 15.21
	10454.00	1.83	299.84	10447.88	4.35	4.57	47.59	47.81	84.51	0.30	607419.95	780570.51	N 32 40 4.15	W 103 37 15.23
	10549.00	1.88	294.50	10542.83	5.87	5.88	45.00	45.38	82.55	0.31	607421.26	780567.92	N 32 40 4.17	W 103 37 15.26
	10643.00	1.69	293.74	10636.79	6.88	7.08	42.33	42.92	80.50	0.20	607422.46	780565.25	N 32 40 4.18	W 103 37 15.30
	10737.00	1.88	293.30	10730.74	8.06	8.25	39.84	40.49	78.24	0.20	607423.83	780562.56	N 32 40 4.19	W 103 37 15.33
	10832.00	1.48	307.48	10825.70	9.43	9.60	37.25	38.47	75.54	0.62	607424.88	780560.17	N 32 40 4.20	W 103 37 15.35
	10926.00	0.89	303.99	10918.89	10.57	10.74	34.78	37.28	73.26	0.81	607425.73	780558.81	N 32 40 4.22	W 103 37 15.37
	11019.00	0.57	281.83	11012.87	11.11	11.27	31.47	34.62	72.03	0.45	607426.82	780557.56	N 32 40 4.22	W 103 37 15.39
	11199.00	9.85	357.72	11191.77	26.69	26.84	33.15	34.28	69.40	1.80	607442.22	780556.07	N 32 40 4.38	W 103 37 15.40
	11246.00	14.19	353.07	11237.73	36.43	36.58	32.30	38.82	41.44	9.45	607451.96	780555.21	N 32 40 4.47	W 103 37 15.41
	11293.00	19.60	353.88	11282.89	50.00	50.15	30.78	36.83	31.52	11.52	607465.53	780553.68	N 32 40 4.81	W 103 37 15.43
	11340.00	21.78	347.82	11326.66	68.38	68.51	28.05	34.18	22.87	8.60	607481.89	780550.97	N 32 40 4.77	W 103 37 15.46
	11388.00	24.79	344.99	11370.75	84.82	84.93	23.53	28.13	15.49	6.83	607500.31	780548.45	N 32 40 4.95	W 103 37 15.51
	11435.00	28.27	348.17	11412.79	105.28	105.35	18.70	23.08	10.06	7.99	607520.73	780546.82	N 32 40 5.15	W 103 37 15.56
	11482.00	30.88	356.48	11453.66	126.04	126.04	13.90	18.80	6.19	5.58	607543.42	780536.82	N 32 40 5.38	W 103 37 15.62
	11529.00	31.35	349.32	11493.90	151.81	151.88	9.13	13.44	3.44	1.90	607552.05	780532.05	N 32 40 5.61	W 103 37 15.67
	11577.00	32.63	348.06	11534.61	178.82	178.84	4.38	7.89	1.42	2.70	607592.21	780527.30	N 32 40 5.86	W 103 37 15.73
	11625.00	32.92	349.32	11574.97	202.36	202.36	-0.49	202.38	358.88	0.87	607617.73	780522.43	N 32 40 6.11	W 103 37 15.78
	11670.00	37.13	352.09	11611.82	227.86	227.84	-4.63	227.86	358.84	10.00	607643.21	780518.29	N 32 40 6.37	W 103 37 15.83
	11717.00	42.00	356.08	11648.04	257.84	257.80	-7.68	257.72	358.30	11.68	607672.97	780515.26	N 32 40 6.88	W 103 37 15.88
	11765.00	48.31	358.25	11681.88	291.82	291.58	-8.30	291.72	358.17	13.53	607708.65	780513.62	N 32 40 7.00	W 103 37 15.88
	11787.00	55.34	356.48	11702.48	316.40	316.40	-10.01	316.56	358.19	16.35	607731.77	780512.81	N 32 40 7.24	W 103 37 15.88
	11828.00	58.41	359.31	11719.38	342.13	342.08	-10.01	342.58	358.19	19.27	607752.42	780512.42	N 32 40 7.50	W 103 37 15.89
	11860.00	63.07	359.72	11735.02	368.99	368.99	-10.73	370.14	358.34	14.61	607813.55	780512.19	N 32 40 7.77	W 103 37 15.89
	11891.00	67.92	359.90	11747.87	398.23	398.19	-10.83	398.33	358.44	15.65	607813.55	780512.09	N 32 40 8.05	W 103 37 15.89
	11923.00	71.48	0.20	11758.97	428.24	428.19	-10.80	428.33	358.56	11.16	607843.56	780512.12	N 32 40 8.35	W 103 37 15.88
	11954.00	75.21	0.07	11767.88	457.93	457.89	-10.73	458.01	358.66	12.04	607873.25	780512.19	N 32 40 8.64	W 103 37 15.88
	12017.00	83.79	2.63	11779.33	519.79	519.75	-9.25	519.84	358.98	14.19	607935.11	780513.67	N 32 40 9.28	W 103 37 15.88
	12049.00	87.52	3.39	11781.75	551.84	551.81	-7.58	551.66	359.21	11.89	607968.97	780515.34	N 32 40 9.57	W 103 37 15.84
	12080.00	87.15	3.12	11783.19	582.55	582.53	-5.82	582.56	359.43	1.48	607997.89	780517.10	N 32 40 9.88	W 103 37 15.81
	12111.00	86.46	2.44	11784.92	613.46	613.44	-4.32	613.48	359.60	3.12	608028.80	780518.60	N 32 40 10.18	W 103 37 15.79
	12171.00	86.63	1.52	11788.54	673.30	673.30	-2.25	673.30	359.81	1.56	608088.65	780520.67	N 32 40 10.77	W 103 37 15.76
	12265.00	86.94	358.13	11793.81	767.14	767.13	-2.53	767.14	359.81	3.62	608182.49	780520.39	N 32 40 11.70	W 103 37 15.76
	12360.00	87.08	358.77	11798.77	861.93	861.91	-6.78	861.94	359.55	1.44	608277.26	780518.16	N 32 40 12.84	W 103 37 15.80
	12454.00	89.31	359.57	11801.73	955.70	955.64	-13.03	955.73	359.22	2.89	608370.99	780509.89	N 32 40 13.57	W 103 37 15.87
	12549.00	89.65	359.57	11805.48	1050.48	1050.48	-13.42	1050.57	359.07	1.34	608426.87	780506.80	N 32 40 14.51	W 103 37 15.84
	12644.00	89.21	358.42	11802.04	1145.27	1145.16	-11.45	1145.47	358.87	1.52	608500.50	780496.41	N 32 40 15.44	W 103 37 16.01
	12738.00	90.14	359.53	11802.58	1239.21	1239.09	-29.83	1239.45	358.82	3.45	608654.42	780493.09	N 32 40 16.37	W 103 37 16.04
	12833.00	90.55	359.59	11802.00	1334.21	1334.08	-30.58	1334.43	358.69	0.44	608749.31	780492.36	N 32 40 17.31	W 103 37 16.04
	12928.00	89.79	357.98	11801.72	1429.19	1429.06	-32.57	1429.43	358.89	1.87	608844.38	780490.35	N 32 40 18.25	W 103 37 16.06
	13022.00	90.07	0.00	11801.84	1523.18	1523.04	-34.23	1523.42	358.71	2.17	608938.36	780488.69	N 32 40 19.18	W 103 37 16.07
	13117.00	89.07	356.87	11802.58	1618.18	1618.03	-35.17	1618.41	358.75	1.59	609033.35	780487.78	N 32 40 20.12	W 103 37 16.08
	13211.00	89.07	357.12	11812.24	1712.18	1712.04	-35.17	1712.39	358.75	1.88	609127.28	780485.33	N 32 40 21.07	W 103 37 16.10
	13306.00	89.90	359.07	11805.33	1807.11	1806.95	-38.83	1807.38	358.74	1.45	609222.26	780483.09	N 32 40 21.99	W 103 37 16.12
	13401.00	87.97	357.85	11807.09	1902.06	1901.88	-42.55	1902.38	358.72	2.52	609317.19	780480.37	N 32 40 22.93	W 103 37 16.14
	13495.00	87.63	356.45	11810.70	1995.89	1995.69	-47.38	1996.25	358.64	1.33	609410.99	780475.54	N 32 40 23.88	W 103 37 16.19
	13590.00	88.38	358.04	11814.01	2090.65	2090.43	-53.60	2091.11	358.53	0.90	609505.73	780469.32	N 32 40 24.80	W 103 37 16.25
	13684.00	90.10	354.82	11815.25	2184.38	2184.12	-61.01	2184.97	358.40	2.18	609599.42	780461.91	N 32 40 25.73	W 103 37 16.33
	13780.00	92.44	355.50	11813.37	2288.96	2288.68	-68.58	2289.72	358.24	3.22	609683.95	780454.34	N 32 40 26.58	W 103 37 16.43
	13864.00	92.65	354.55	11809.45	2383.39	2383.04	-79.48	2384.28	358.07	1.15	609743.66	780443.46	N 32 40 27.50	W 103 37 16.54
	13958.00	92.72	356.47	11804.58	2487.02	2486.84	-86.81	2488.16	357.98	2.04	609871.93	780438.11	N 32 40 28.42	W 103 37 16.61
	14053.00	92.92	358.40	11799.91	2551.83	2551.43	-91.08	2553.05	357.96	2.04	609966.71	780431.87	N 32 40	

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (°)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
		1	0.000	31.000	1/58.425	30.000	30.000	NAL_MWD-NON_SLB-Depth Only		ST02 / Chisholm Buffalo 12-1 Fed Com WCC 6H ST02 0ft to 18055ft Definitive				
		1	31.000	31.000	Act Sins	30.000	30.000	NAL_MWD-NON_SLB-Depth Only		ST02 / Chisholm Buffalo 12-1 Fed Com WCC 6H ST02 0ft to 18055ft Definitive				
		1	31.000	7944.000	Act Sins	30.000	30.000	NAL_MWD-NON_SLB		ST02 / Chisholm Buffalo 12-1 Fed Com WCC 6H ST02 0ft to 18055ft Definitive				
		1	7944.000	18055.000	Act Sins	30.000	30.000	NAL_MWD_1.0_DEG		ST02 / Chisholm Buffalo 12-1 Fed Com WCC 6H ST02 0ft to 18055ft Definitive				

...ST02\Chisholm Buffalo 12-1 Fed Com WCC 6H ST02 0ft to 18055ft Definitive