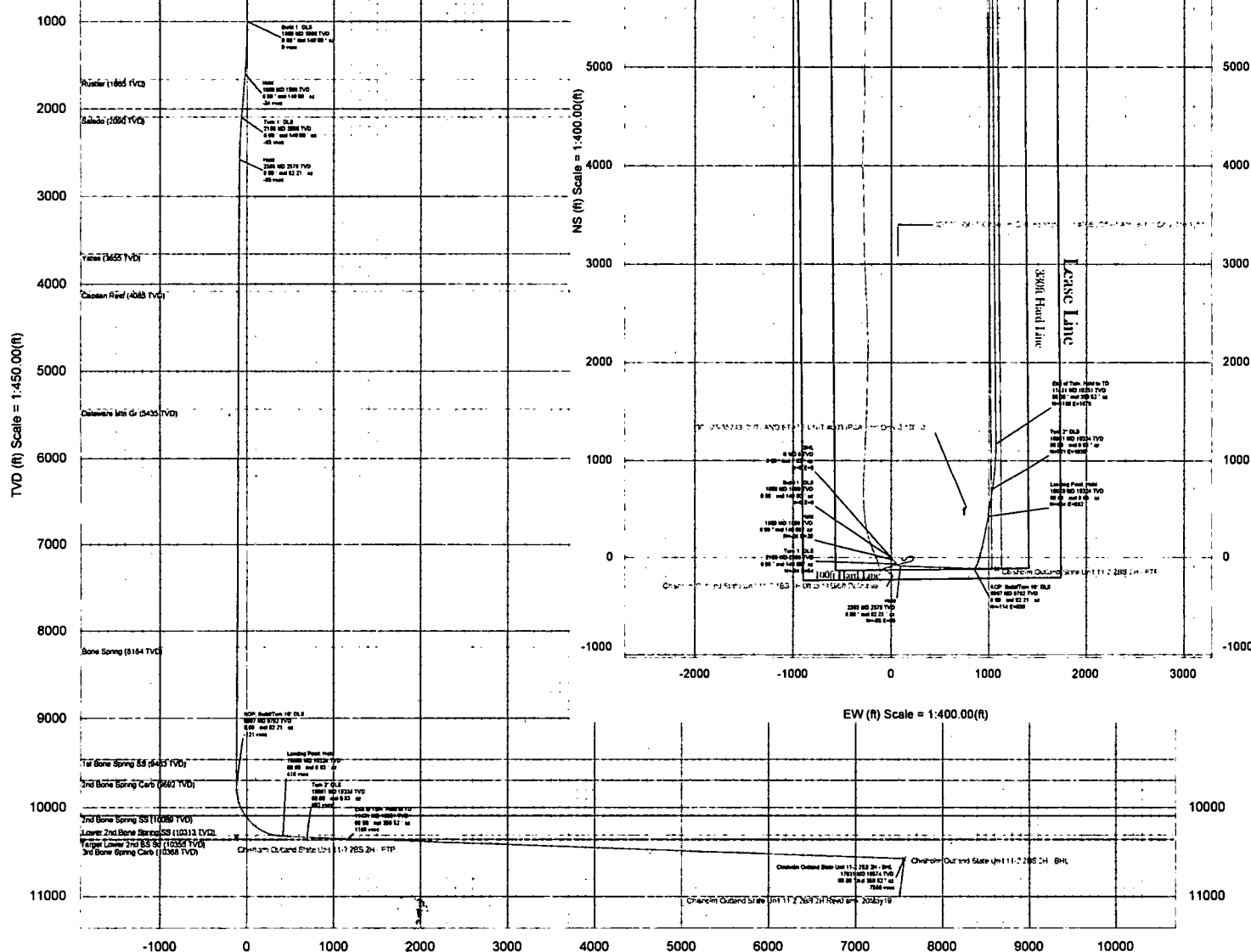


Borehole:	Well:	Field:	Structure:
Original Borehole	Chisholm Outland State Unit 11-2 2BS 2H	NM Lea County (NAD 83)	Chisholm Outland State Unit 11-2 2BS 2H

Gravity & Magnetic Parameters	Surface Location	Grid Coordinates	Miscellaneous
Model: NODM 2019 MagDec: 8.612° Date: 20-May-2019 Gravity F8: 858.43mgal (9.80665 Based)	NAD83 New Mexico State Plane, Eastern Zone, US Feet Lat: N 32 29 12.82 Lon: W 103 28 16.80 Northing: 542023.8311US Easting: 817483.7111US Grid Conv: 0.4811° Scale Fact: 0.99999643	Slot: New Slot Plan: Chisholm Outland State Unit 11-2 2BS 2H Rev0 smk 20May19	TVD Ref: RKB(3702.6ft above MSL) QED Note: To Cor (10-08 8.1311°) Mag Dec (8.612°) QED Conv (8.612°)

Critical Points							
Critical Point	MD	DVCL	AZIM	TVD	VSEC	N-YW(-)	E-YW(-)
SHL	0.00	0.00	7.65	0.00	0.00	0.00	0.00
Build 1" DLS	1000.00	0.00	140.00	1000.00	0.00	0.00	0.00
Hold	1600.00	6.00	140.00	1598.00	-24.21	-24.04	20.18
Rustler	1666.46	6.00	140.00	1665.00	-29.57	-29.37	24.84
Salado	2063.80	6.00	140.00	2060.00	-64.03	-63.58	53.35
Turn 1" DLS	2100.00	6.00	140.00	2096.18	-64.53	-64.08	53.77
Hold	2585.38	6.00	02.21	2578.17	-85.30	-84.51	85.46
Yates	3667.14	6.00	02.21	3655.00	-90.81	-88.87	208.48
Captain Reef	4099.50	6.00	02.21	4085.00	-92.74	-90.82	253.85
Dalawara Mtn Cr	5458.95	6.00	02.21	5435.00	-99.40	-98.00	395.48
Bone Spring	8221.10	6.00	02.21	8184.00	-112.98	-107.25	684.27
1st Bone Spring SS	9507.14	6.00	02.21	9483.00	-119.29	-112.44	818.84
2nd Bone Spring Carb	9737.41	6.00	02.21	9692.00	-120.42	-113.37	842.69
KOP, Build/Turn 10" DLS	9807.34	6.00	02.21	9781.55	-120.77	-113.65	850.00
2nd Bone Spring SS	10158.62	38.33	16.89	10089.00	-118.80	-111.29	800.31
Lower 2nd Bone Spring SS	10584.48	78.48	9.94	10313.00	-121.77	-129.95	978.32
Landing Point, Hold	10889.44	68.00	8.93	10324.30	-115.54	-123.86	991.82
Turn 2" DLS	10981.17	68.00	8.93	10334.10	-692.32	701.62	1035.48
End of Turn, Hold to TD	11431.35	68.00	359.52	10350.54	1180.10	1189.11	1070.04
Target Lower 2nd BS Sd	11559.05	68.00	359.52	10355.00	1287.73	1296.73	1088.97
3rd Bone Spring Carb	11931.55	68.00	359.52	10368.00	1880.00	1888.95	1083.83
Chisholm Outland State Unit 11-2 2BS 2H - BHL	17831.35	68.00	359.52	10573.90	7556.20	7564.86	1018.48



Vertical Section (ft) Azim = 359.52° Scale = 1:450.00(ft) Origin = 0N-S, 0E-W

Chisholm Outland State Unit 11-2 2BS 2H Rev0 smk 20May19 Proposal

Geodetic Report

(Def Plan)



Report Date: May 20, 2019 - 08:07 PM
 Client: Chisholm
 Field: NM Lea County (NAD 83)
 Structure / Slot: Chisholm Outland State Unit 11-2 2BS 2H / New Slot
 Well: Chisholm Outland State Unit 11-2 2BS 2H
 Borehole: Original Borehole
 UWI / API#: Unknown / Unknown
 Survey Name: Chisholm Outland State Unit 11-2 2BS 2H Rev0 smk 20May19
 Survey Date: May 20, 2019
 Tort / AHD / DDI / ERD Ratio: 107.568 * / 8595.124 ft / 6.193 / 0.813
 Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
 Location Lat / Long: N 32° 29' 12.82488", W 103° 28' 15.80235"
 Location Grid N/E Y/X: N 542022.830 NUS, E 817493.710 NUS
 CRS Grid Convergence Angle: 0.4811 *
 Grid Scale Factor: 0.99999843
 Version / Patch: 2.10.760.0

Survey / DLS Computation: Minimum Curvature / Lubinski
 Vertical Section Azimuth: 359.520 * (Grid North)
 Vertical Section Origin: 0.000 ft, 0.000 ft
 TVD Reference Datum: RKB
 TVD Reference Elevation: 3702.600 ft above MSL
 Seabed / Ground Elevation: 3671.600 ft above MSL
 Magnetic Declination: 6.812 *
 Total Gravity Field Strength: 988.4927mgm (9.80665 Based)
 Gravity Model: GARM
 Total Magnetic Field Strength: 48041.317 nT
 Magnetic Dip Angle: 60.349 *
 Declination Date: May 20, 2019
 Magnetic Declination Model: HDGM 2019
 North Reference: Grid North
 Grid Convergence Used: 0.4811 *
 Total Corr Mag North->Grid: 6.1307 *
 North: Well Head
 Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azlm Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (m/S)	Easting (m/S)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
SHL	0.00	0.00	7.65	0.00	0.00	0.00	0.00	N/A	542022.83	817493.71	N 32 29 12.82	W 103 28 15.80
Build 1" DLS	1000.00	0.00	140.00	1000.00	0.00	0.00	0.00	0.00	542022.83	817493.71	N 32 29 12.82	W 103 28 15.80
Hold	1800.00	6.00	140.00	1598.90	-24.21	-24.04	20.18	1.00	541998.79	817513.89	N 32 29 12.59	W 103 28 15.57
Turn 1" DLS	2100.00	6.00	140.00	2098.16	-84.53	-84.08	53.77	0.00	541958.75	817547.48	N 32 29 12.19	W 103 28 15.18
Hold	2585.38	6.00	92.21	2579.17	-85.30	-84.51	95.46	1.00	541938.33	817589.17	N 32 29 11.98	W 103 28 14.70
KOP, Build/Turn 10" DLS	9807.34	6.00	92.21	9781.55	-120.77	-113.85	850.00	0.00	541909.18	818343.71	N 32 29 11.63	W 103 28 5.89
Landing Point, Hold	10680.44	88.00	8.93	10324.30	415.54	423.88	991.92	10.00	542446.69	818485.62	N 32 29 16.94	W 103 28 4.18
Turn 2" DLS	10981.17	88.00	8.93	10334.10	692.32	701.02	1035.46	0.00	542723.85	818529.17	N 32 29 19.67	W 103 28 3.65
End of Turn, Hold to TD	11431.35	88.00	359.52	10350.54	1160.10	1169.11	1070.04	2.00	543191.93	818563.74	N 32 29 24.30	W 103 28 3.20
Chisholm Outland State Unit 11-2 2BS 2H - BHL	17831.35	88.00	359.52	10573.90	7556.20	7564.88	1016.46	0.00	549587.77	818510.16	N 32 30 27.59	W 103 28 3.19

Survey Type: Def Plan

Survey Error Model: ISCWSA Rev 0 *** 3-D 95.000% Confidence 2.7955 sigma
 Survey Program:

Description	Part	MD From (ft)	MD To (ft)	EQU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Expected Max Inclination (deg)	Survey Tool Type	Borehole / Survey
	1	0.000	31.000	1/100.000	30.000	30.000		NAL_MWD_1.0_DEG-Depth Only	Original Borehole / Chisholm Outland State Unit 11-2 2BS 2H Rev0 smk 20May19
	1	31.000	17831.348	1/100.000	30.000	30.000		NAL_MWD_1.0_DEG	Original Borehole / Chisholm Outland State Unit 11-2 2BS 2H



Chisholm Outland State Unit 11-2 2BS 2H Rev0 smk 20May19 Proposal
Geodetic Report
(Def Plan)



Report Date: May 20, 2019 - 06:07 PM
Client: Chisholm
Field: NM Lea County (NAD 83)
Structure / Slot: Chisholm Outland State Unit 11-2 2BS 2H / New Slot
Well: Chisholm Outland State Unit 11-2 2BS 2H
Borehole: Original Borehole
UWI / API#: Unknown / Unknown
Survey Name: Chisholm Outland State Unit 11-2 2BS 2H Rev0 smk 20May19
Survey Date: May 20, 2019
Tort / AHD / DDI / ERD Ratio: 107.568' / 8595.124 ft / 6.193 / 0.813
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 29' 12.82498" W 103° 26' 15.80235"
Location Grid N/E Y/X: N 542022.830 RUS, E 817493.710 RUS
CRS Grid Convergence Angle: 0.4811°
Grid Scale Factor: 0.99999843
Version / Patch: 2.10.760.0

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 359.520° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB
TVD Reference Elevation: 3702.600 ft above MSL
Seabed / Ground Elevation: 3671.600 ft above MSL
Magnetic Declination: 6.612°
Total Gravity Field Strength: 988.4927mgm (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 48041.317 nT
Magnetic Dip Angle: 60.349°
Declination Date: May 20, 2019
Magnetic Declination Model: HDGM 2019
North Reference: Grid North
Grid Convergence Used: 0.4811°
Total Corr Mag North-Grid North: 6.1307°
Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (RUS)	Easting (RUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
SHL	0.00	0.00	7.65	0.00	0.00	0.00	0.00	N/A	542022.83	817493.71	N 32° 29' 12.82"	W 103° 26' 15.80"
	100.00	0.00	140.00	100.00	0.00	0.00	0.00	0.00	542022.83	817493.71	N 32° 29' 12.82"	W 103° 26' 15.80"
	200.00	0.00	140.00	200.00	0.00	0.00	0.00	0.00	542022.83	817493.71	N 32° 29' 12.82"	W 103° 26' 15.80"
	300.00	0.00	140.00	300.00	0.00	0.00	0.00	0.00	542022.83	817493.71	N 32° 29' 12.82"	W 103° 26' 15.80"
	400.00	0.00	140.00	400.00	0.00	0.00	0.00	0.00	542022.83	817493.71	N 32° 29' 12.82"	W 103° 26' 15.80"
	500.00	0.00	140.00	500.00	0.00	0.00	0.00	0.00	542022.83	817493.71	N 32° 29' 12.82"	W 103° 26' 15.80"
	600.00	0.00	140.00	600.00	0.00	0.00	0.00	0.00	542022.83	817493.71	N 32° 29' 12.82"	W 103° 26' 15.80"
	700.00	0.00	140.00	700.00	0.00	0.00	0.00	0.00	542022.83	817493.71	N 32° 29' 12.82"	W 103° 26' 15.80"
	800.00	0.00	140.00	800.00	0.00	0.00	0.00	0.00	542022.83	817493.71	N 32° 29' 12.82"	W 103° 26' 15.80"
	900.00	0.00	140.00	900.00	0.00	0.00	0.00	0.00	542022.83	817493.71	N 32° 29' 12.82"	W 103° 26' 15.80"
Build 1" DLS	1000.00	0.00	140.00	1000.00	0.00	0.00	0.00	0.00	542022.83	817493.71	N 32° 29' 12.82"	W 103° 26' 15.80"
	1100.00	1.00	140.00	1099.99	-0.67	-0.67	0.56	1.00	542022.16	817494.27	N 32° 29' 12.82"	W 103° 26' 15.80"
	1200.00	2.00	140.00	1199.96	-2.69	-2.67	2.24	1.00	542020.16	817495.95	N 32° 29' 12.80"	W 103° 26' 15.78"
	1300.00	3.00	140.00	1299.86	-6.06	-6.02	5.05	1.00	542016.81	817498.76	N 32° 29' 12.77"	W 103° 26' 15.74"
	1400.00	4.00	140.00	1399.68	-10.77	-10.69	8.97	1.00	542012.14	817502.68	N 32° 29' 12.72"	W 103° 26' 15.70"
	1500.00	5.00	140.00	1499.37	-16.82	-16.70	14.01	1.00	542006.13	817507.72	N 32° 29' 12.66"	W 103° 26' 15.64"
	1600.00	6.00	140.00	1598.90	-24.21	-24.04	20.18	1.00	541998.79	817513.89	N 32° 29' 12.59"	W 103° 26' 15.57"
Hold Rustler	1666.46	6.00	140.00	1665.00	-29.57	-29.37	24.64	0.00	541993.46	817518.35	N 32° 29' 12.53"	W 103° 26' 15.52"
	1700.00	6.00	140.00	1698.38	-32.28	-32.05	26.89	0.00	541990.78	817520.60	N 32° 29' 12.51"	W 103° 26' 15.49"
	1800.00	6.00	140.00	1797.81	-40.34	-40.06	33.61	0.00	541987.77	817527.32	N 32° 29' 12.43"	W 103° 26' 15.41"
	1900.00	6.00	140.00	1897.26	-48.40	-48.07	40.33	0.00	541974.76	817534.04	N 32° 29' 12.35"	W 103° 26' 15.34"
Salado Turn 1" DLS	2000.00	6.00	140.00	1996.71	-56.47	-56.07	47.05	0.00	541966.76	817540.76	N 32° 29' 12.27"	W 103° 26' 15.26"
	2093.80	6.00	140.00	2090.00	-64.03	-63.58	53.35	0.00	541959.25	817547.06	N 32° 29' 12.19"	W 103° 26' 15.19"
	2100.00	6.00	140.00	2096.16	-64.53	-64.08	53.77	0.00	541958.75	817547.48	N 32° 29' 12.19"	W 103° 26' 15.18"
	2200.00	5.67	130.70	2195.65	-71.81	-71.31	60.88	1.00	541951.52	817554.59	N 32° 29' 12.11"	W 103° 26' 15.10"
	2300.00	5.51	120.56	2295.18	-77.54	-76.97	68.75	1.00	541945.86	817562.46	N 32° 29' 12.06"	W 103° 26' 15.01"
	2400.00	5.52	110.13	2394.72	-81.71	-81.06	77.40	1.00	541941.77	817571.11	N 32° 29' 12.02"	W 103° 26' 14.91"
	2500.00	5.71	100.09	2494.24	-84.31	-83.59	86.81	1.00	541939.24	817580.52	N 32° 29' 11.99"	W 103° 26' 14.80"
Hold	2585.38	6.00	92.21	2578.17	-85.30	-84.51	95.46	1.00	541938.33	817589.17	N 32° 29' 11.98"	W 103° 26' 14.70"
	2600.00	6.00	92.21	2593.71	-85.37	-84.56	96.98	0.00	541938.27	817590.69	N 32° 29' 11.98"	W 103° 26' 14.68"
	2700.00	6.00	92.21	2693.17	-85.86	-84.97	107.43	0.00	541937.86	817601.14	N 32° 29' 11.98"	W 103° 26' 14.56"
	2800.00	6.00	92.21	2792.62	-86.36	-85.37	117.88	0.00	541937.46	817611.59	N 32° 29' 11.97"	W 103° 26' 14.43"
	2900.00	6.00	92.21	2892.07	-86.85	-85.77	128.33	0.00	541937.06	817622.04	N 32° 29' 11.97"	W 103° 26' 14.31"
	3000.00	6.00	92.21	2991.52	-87.34	-86.18	138.78	0.00	541936.65	817632.49	N 32° 29' 11.96"	W 103° 26' 14.19"
	3100.00	6.00	92.21	3090.97	-87.83	-86.58	149.22	0.00	541936.25	817642.93	N 32° 29' 11.96"	W 103° 26' 14.07"
	3200.00	6.00	92.21	3190.43	-88.32	-86.99	159.67	0.00	541935.84	817653.38	N 32° 29' 11.95"	W 103° 26' 13.95"
	3300.00	6.00	92.21	3289.88	-88.81	-87.39	170.12	0.00	541935.44	817663.83	N 32° 29' 11.95"	W 103° 26' 13.82"
	3400.00	6.00	92.21	3389.33	-89.30	-87.79	180.57	0.00	541935.04	817674.28	N 32° 29' 11.94"	W 103° 26' 13.70"
	3500.00	6.00	92.21	3488.78	-89.79	-88.20	191.02	0.00	541934.63	817684.72	N 32° 29' 11.94"	W 103° 26' 13.58"
	3600.00	6.00	92.21	3588.23	-90.28	-88.60	201.46	0.00	541934.23	817695.17	N 32° 29' 11.93"	W 103° 26' 13.46"
	3687.14	6.00	92.21	3655.00	-90.81	-88.87	208.48	0.00	541933.96	817702.19	N 32° 29' 11.93"	W 103° 26' 13.38"
	3700.00	6.00	92.21	3687.68	-90.78	-89.00	211.91	0.00	541933.83	817705.62	N 32° 29' 11.93"	W 103° 26' 13.34"
	3800.00	6.00	92.21	3787.14	-91.27	-89.41	222.38	0.00	541933.42	817716.07	N 32° 29' 11.92"	W 103° 26' 13.22"
	3900.00	6.00	92.21	3886.59	-91.76	-89.81	232.81	0.00	541933.02	817726.52	N 32° 29' 11.92"	W 103° 26' 13.09"
	Capitan Reef	4000.00	6.00	92.21	3986.04	-92.25	-90.21	243.26	0.00	541932.62	817736.96	N 32° 29' 11.91"
4099.50		6.00	92.21	4085.00	-92.74	-90.62	253.65	0.00	541932.21	817747.36	N 32° 29' 11.91"	W 103° 26' 12.85"
4100.00		6.00	92.21	4085.49	-92.74	-90.62	253.70	0.00	541932.21	817747.41	N 32° 29' 11.91"	W 103° 26' 12.85"
4200.00		6.00	92.21	4184.94	-93.23	-91.02	264.15	0.00	541931.81	817757.86	N 32° 29' 11.90"	W 103° 26' 12.73"
4300.00		6.00	92.21	4284.40	-93.72	-91.42	274.60	0.00	541931.41	817768.31	N 32° 29' 11.90"	W 103° 26' 12.61"
4400.00		6.00	92.21	4383.85	-94.21	-91.83	285.05	0.00	541931.00	817778.76	N 32° 29' 11.89"	W 103° 26' 12.48"
4500.00		6.00	92.21	4483.30	-94.70	-92.23	295.49	0.00	541930.60	817789.20	N 32° 29' 11.89"	W 103° 26' 12.36"
4600.00		6.00	92.21	4582.75	-95.20	-92.64	305.94	0.00	541930.20	817799.65	N 32° 29' 11.88"	W 103° 26' 12.24"
4700.00		6.00	92.21	4682.20	-95.69	-93.04	316.39	0.00	541929.79	817810.10	N 32° 29' 11.88"	W 103° 26' 12.12"
4800.00		6.00	92.21	4781.66	-96.18	-93.44	326.84	0.00	541929.39	817820.55	N 32° 29' 11.87"	W 103° 26' 12.00"
Delaware Mtn Gr	4900.00	6.00	92.21	4881.11	-96.67	-93.85	337.29	0.00	541928.98	817830.99	N 32° 29' 11.87"	W 103° 26' 11.87"
	5000.00	6.00	92.21	4980.56	-97.16	-94.25	347.73	0.00	541928.58	817841.44	N 32° 29' 11.86"	W 103° 26' 11.75"
	5100.00	6.00	92.21	5080.01	-97.65	-94.65	358.18	0.00	541928.18	817851.89	N 32° 29' 11.86"	W 103° 26' 11.63"
	5200.00	6.00	92.21	5179.46	-98.14	-95.06	368.63	0.00	541927.77	817862.34	N 32° 29' 11.85"	W 103° 26' 11.51"
	5300.00	6.00	92.21	5278.92	-98.63	-95.46	379.08	0.00	541927.37	817872.79	N 32° 29' 11.85"	W 103° 26' 11.39"
	5400.00	6.00	92.21	5378.37	-99.12	-95.86	389.53	0.00	541926.97	817883.23	N 32° 29' 11.84"	W 103° 26' 11.26"
	5456.95	6.00	92.21	5435.00	-99.40	-96.09	395.48	0.00	541926.74	817889.18	N 32° 29' 11.84"	W 103° 26' 11.20"
	5500.00	6.00	92.21	5477.82	-99.61	-96.27	399.97	0.00	541926.56	817893.68	N 32° 29' 11.84"	W 103° 26' 11.14"
	5600.00	6.00	92.21	5577.27	-100.11	-96.67	410.42	0.00	541926.16	817904.13	N 32° 29' 11.83"	W 103° 26' 11.02"
	5700.00	6.00	92.21	5676.72	-100.60	-97.07	420.87	0.00	541925.76	817914.58	N 32° 29' 11.83"	W 103° 26' 10.90"
	5800.00	6.00	92.21	5776.17	-101.09	-97.48	431.32	0.00	541925.35	817925.02	N 32° 29' 11.82"	W 103° 26' 10.78"
	5900.00	6.00	92.21	5875.63	-101.58	-97.88	441.77	0.00	541924.95	817935.47	N 32° 29' 11.82"	W 103° 26' 10.65"
6000.00	6.00	92.21	5975.08	-102.07	-98.29	452.21	0.00	541924.55	817945.92	N 32° 29' 11.81"	W 103° 26' 10.53"	
6100.00	6.00	92.21	6074.53	-102.56	-98.69	462.66	0.00	541924.14	817956.37	N 32° 29' 11.81"	W 103° 26' 10.41"	
6200.00	6.00	92.21	6173.98	-103.05	-99.09	473.11	0.00	541923.74	817966.82	N 32° 29' 11.81"	W 103° 26' 10.29"	
6300.00	6.00	92.21	6273.43	-103.54	-99.50	483.56	0.00	541923.33	817977.26	N 32° 29' 11.80"	W 103° 26' 10.17"	
6400.00	6.00	92.21	6372.89	-104.03	-99.90	494.00	0.00	541922.93	817987.71	N 32° 29' 11.80"	W 103° 26' 10.05"	
6500.00	6.00	92.21	6472.34	-104.53	-100.30	504.45	0.00	541922.53	817998.16			

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (ft)	Easting (ft)	Latitude (N/S ° ° °)	Longitude (E/W ° ° °)
	7100.00	6.00	92.21	7069.05	-107.47	-102.72	567.14	0.00	541920.11	818060.85	N 32 29 11.78	W 103 26 9.19
	7200.00	6.00	92.21	7168.50	-107.96	-103.13	577.59	0.00	541919.70	818071.29	N 32 29 11.76	W 103 26 9.07
	7300.00	6.00	92.21	7267.95	-108.45	-103.53	588.04	0.00	541919.30	818081.74	N 32 29 11.75	W 103 26 8.85
	7400.00	6.00	92.21	7367.40	-108.95	-103.94	598.48	0.00	541918.90	818092.19	N 32 29 11.75	W 103 26 8.83
	7500.00	6.00	92.21	7466.86	-109.44	-104.34	608.93	0.00	541918.49	818102.64	N 32 29 11.74	W 103 26 8.70
	7600.00	6.00	92.21	7566.31	-109.93	-104.74	619.38	0.00	541918.09	818113.09	N 32 29 11.74	W 103 26 8.58
	7700.00	6.00	92.21	7665.76	-110.42	-105.15	629.83	0.00	541917.68	818123.53	N 32 29 11.73	W 103 26 8.46
	7800.00	6.00	92.21	7765.21	-110.91	-105.55	640.28	0.00	541917.28	818133.98	N 32 29 11.73	W 103 26 8.34
	7900.00	6.00	92.21	7864.66	-111.40	-105.95	650.72	0.00	541916.88	818144.43	N 32 29 11.72	W 103 26 8.22
	8000.00	6.00	92.21	7964.12	-111.89	-106.36	661.17	0.00	541916.47	818154.88	N 32 29 11.72	W 103 26 8.09
	8100.00	6.00	92.21	8063.57	-112.38	-106.76	671.62	0.00	541916.07	818165.33	N 32 29 11.71	W 103 26 7.97
	8200.00	6.00	92.21	8163.02	-112.87	-107.18	682.07	0.00	541915.67	818175.77	N 32 29 11.71	W 103 26 7.85
	8221.10	6.00	92.21	8164.00	-112.98	-107.25	684.27	0.00	541915.58	818177.98	N 32 29 11.71	W 103 26 7.82
	8300.00	6.00	92.21	8262.47	-113.38	-107.57	692.51	0.00	541915.28	818188.22	N 32 29 11.70	W 103 26 7.73
	8400.00	6.00	92.21	8361.92	-113.86	-107.97	702.96	0.00	541914.86	818198.67	N 32 29 11.70	W 103 26 7.61
	8500.00	6.00	92.21	8461.38	-114.35	-108.37	713.41	0.00	541914.46	818207.12	N 32 29 11.69	W 103 26 7.48
	8600.00	6.00	92.21	8560.83	-114.84	-108.78	723.86	0.00	541914.05	818217.56	N 32 29 11.68	W 103 26 7.36
	8700.00	6.00	92.21	8660.28	-115.33	-109.18	734.31	0.00	541913.65	818228.01	N 32 29 11.68	W 103 26 7.24
	8800.00	6.00	92.21	8759.73	-115.82	-109.58	744.75	0.00	541913.25	818238.46	N 32 29 11.68	W 103 26 7.12
	8900.00	6.00	92.21	8859.18	-116.31	-109.99	755.20	0.00	541912.84	818248.91	N 32 29 11.67	W 103 26 7.00
	9000.00	6.00	92.21	8958.64	-116.80	-110.39	765.65	0.00	541912.44	818259.36	N 32 29 11.67	W 103 26 6.88
	9100.00	6.00	92.21	9058.09	-117.29	-110.80	776.10	0.00	541912.04	818269.80	N 32 29 11.66	W 103 26 6.75
	9200.00	6.00	92.21	9157.54	-117.78	-111.20	786.55	0.00	541911.63	818280.25	N 32 29 11.66	W 103 26 6.63
	9300.00	6.00	92.21	9256.99	-118.28	-111.60	796.99	0.00	541911.23	818290.70	N 32 29 11.65	W 103 26 6.51
	9400.00	6.00	92.21	9356.44	-118.77	-112.01	807.44	0.00	541910.82	818301.15	N 32 29 11.65	W 103 26 6.39
	9500.00	6.00	92.21	9455.89	-119.26	-112.41	817.89	0.00	541910.42	818311.59	N 32 29 11.64	W 103 26 6.27
1st Bone Spring SS	9507.14	6.00	92.21	9463.00	-119.29	-112.44	818.84	0.00	541910.39	818312.34	N 32 29 11.64	W 103 26 6.26
	9600.00	6.00	92.21	9562.35	-119.75	-112.81	828.34	0.00	541910.02	818322.04	N 32 29 11.64	W 103 26 6.14
	9700.00	6.00	92.21	9661.80	-120.24	-113.22	838.79	0.00	541909.61	818332.49	N 32 29 11.63	W 103 26 6.02
2nd Bone Spring Carb	9737.41	6.00	92.21	9692.00	-120.42	-113.37	842.69	0.00	541909.46	818336.40	N 32 29 11.63	W 103 26 5.98
	9800.00	6.00	92.21	9791.25	-120.73	-113.62	849.23	0.00	541909.21	818342.94	N 32 29 11.63	W 103 26 5.80
KOP, BuildTurn 10° DLS	9807.34	6.00	92.21	9761.55	-120.77	-113.65	850.00	0.00	541909.18	818343.71	N 32 29 11.63	W 103 26 5.89
	9900.00	11.58	39.37	9853.21	-113.84	-106.83	860.76	10.00	541916.20	818354.47	N 32 29 11.70	W 103 26 5.76
	10000.00	20.78	24.70	9949.19	-90.02	-82.69	874.58	10.00	541940.14	818368.28	N 32 29 11.93	W 103 26 5.60
	10100.00	30.48	18.94	10039.25	-49.94	-42.48	890.26	10.00	541980.35	818383.97	N 32 29 12.33	W 103 26 5.41
2nd Bone Spring SS	10159.62	36.33	16.89	10089.00	-18.80	-11.26	900.31	10.00	542011.57	818394.01	N 32 29 12.64	W 103 26 5.29
	10200.00	40.31	15.79	10120.67	5.17	12.77	907.34	10.00	542035.60	818401.05	N 32 29 12.88	W 103 26 5.21
	10300.00	50.21	13.71	10190.98	73.64	81.40	925.30	10.00	542104.22	818419.00	N 32 29 13.55	W 103 26 4.99
	10400.00	60.12	12.16	10248.03	153.39	161.30	943.58	10.00	542184.13	818437.29	N 32 29 14.34	W 103 26 4.77
	10500.00	70.06	10.89	10290.10	242.00	250.07	961.64	10.00	542272.89	818455.35	N 32 29 15.22	W 103 26 4.55
Lower 2nd Bone Spring SS	10584.48	78.48	9.94	10313.00	321.77	329.96	976.32	10.00	542352.79	818470.02	N 32 29 16.01	W 103 26 4.37
	10600.00	80.00	9.78	10315.90	338.77	344.99	978.93	10.00	542367.82	818472.63	N 32 29 16.16	W 103 26 4.34
Landing Point, Hold	10680.44	88.00	8.93	10324.30	415.54	423.86	991.92	10.00	542446.69	818485.62	N 32 29 16.94	W 103 26 4.18
	10700.00	88.00	8.93	10324.99	434.82	443.17	994.95	0.00	542468.00	818488.65	N 32 29 17.13	W 103 26 4.14
	10800.00	88.00	8.93	10328.47	533.41	541.90	1010.46	0.00	542564.73	818504.17	N 32 29 18.10	W 103 26 3.95
	10900.00	88.00	8.93	10331.96	632.01	640.63	1025.97	0.00	542663.45	818519.68	N 32 29 19.08	W 103 26 3.76
	10961.17	88.00	8.93	10334.10	692.32	701.02	1035.46	0.00	542723.85	818529.17	N 32 29 19.67	W 103 26 3.65
	11000.00	88.00	8.15	10335.45	730.65	739.39	1041.23	2.00	542762.22	818534.93	N 32 29 20.05	W 103 26 3.57
	11100.00	87.99	6.15	10338.95	829.69	838.55	1053.67	2.00	542881.38	818547.37	N 32 29 21.03	W 103 26 3.42
	11200.00	87.99	4.15	10342.45	929.15	938.08	1062.64	2.00	542960.91	818556.34	N 32 29 22.02	W 103 26 3.30
	11300.00	87.99	2.15	10345.95	1028.88	1037.86	1068.13	2.00	543060.69	818561.83	N 32 29 23.01	W 103 26 3.23
	11400.00	88.00	0.15	10349.45	1128.77	1137.78	1070.13	2.00	543160.60	818563.83	N 32 29 23.99	W 103 26 3.20
End of Turn, Hold to TD	11431.35	88.00	359.52	10350.54	1160.10	1169.11	1070.04	2.00	543191.93	818563.74	N 32 29 24.30	W 103 26 3.20
	11500.00	88.00	359.52	10352.94	1228.71	1237.71	1069.46	0.00	543260.54	818563.17	N 32 29 24.98	W 103 26 3.20
Target Lower 2nd BS Sd	11559.05	88.00	359.52	10355.00	1287.73	1296.73	1068.97	0.00	543319.55	818562.67	N 32 29 25.57	W 103 26 3.20
	11600.00	88.00	359.52	10356.43	1328.65	1337.65	1068.83	0.00	543360.47	818562.33	N 32 29 25.97	W 103 26 3.20
	11700.00	88.00	359.52	10359.92	1428.59	1437.58	1067.79	0.00	543460.41	818561.49	N 32 29 26.96	W 103 26 3.20
	11800.00	88.00	359.52	10363.41	1528.53	1537.52	1066.85	0.00	543560.34	818560.68	N 32 29 27.95	W 103 26 3.20
	11900.00	88.00	359.52	10366.90	1628.47	1637.46	1066.12	0.00	543660.28	818559.82	N 32 29 28.94	W 103 26 3.20
3rd Bone Spring Carb	11931.55	88.00	359.52	10368.00	1660.00	1668.98	1065.85	0.00	543691.81	818559.56	N 32 29 29.25	W 103 26 3.20
	12000.00	88.00	359.52	10370.39	1728.41	1737.39	1065.28	0.00	543760.21	818558.98	N 32 29 29.93	W 103 26 3.20
	12100.00	88.00	359.52	10373.88	1828.35	1837.33	1064.44	0.00	543860.15	818558.14	N 32 29 30.82	W 103 26 3.20
	12200.00	88.00	359.52	10377.37	1928.28	1937.26	1063.60	0.00	543960.09	818557.31	N 32 29 31.90	W 103 26 3.20
	12300.00	88.00	359.52	10380.86	2028.22	2037.20	1062.77	0.00	544060.02	818556.47	N 32 29 32.89	W 103 26 3.20
	12400.00	88.00	359.52	10384.35	2128.16	2137.13	1061.93	0.00	544159.95	818555.63	N 32 29 33.88	W 103 26 3.20
	12500.00	88.00	359.52	10387.84	2228.10	2237.07	1061.09	0.00	544259.89	818554.80	N 32 29 34.87	W 103 26 3.20
	12600.00	88.00	359.52	10391.33	2328.04	2337.00	1060.25	0.00	544359.82	818553.96	N 32 29 35.86	W 103 26 3.19
	12700.00	88.00	359.52	10394.82	2427.98	2436.94	1059.42	0.00	544459.76	818553.12	N 32 29 36.85	W 103 26 3.19
	12800.00	88.00	359.52	10398.31	2527.92	2536.88	1058.58	0.00	544559.69	818552.28	N 32 29 37.84	W 103 26 3.19
	12900.00	88.00	359.52	10401.80	2627.86	2636.81	1057.74	0.00	544659.63	818551.45	N 32 29 38.83	W 103 26 3.19
	13000.00	88.00	359.52	10405.29	2727.80	2736.75	1056.91	0.00	544759.56	818550.61	N 32 29 39.82	W 103 26 3.19
	13100.00	88.00	359.52	10408.78	2827.74	2836.68	1056.07	0.00	544859.50	818549.77	N 32 29 40.80	W 103 26 3.19
	13200.00	88.00	359.52	10412.27	2927.67	2936.62	1055.23	0.00	544959.43	818548.94	N 32 29 41.79	W 103 26 3.19
	13300.00	88.00	359.52	10415.76	3027.61	3036.55	1054.39	0.00	545059.37	818548.10	N 32 29 42.78	W 103 26 3.19
	13400.00	88.00	359.52	10419.25	3127.55	3136.49	1053.56	0.00	545159.30	818547.26	N 32 29 43.77	W 103 26 3.19
	13500.00	88.00	359.52	10422.74	3227.49	3236.42	1052.72	0.00	545259.24	818546.42	N 32 29 44.76	W 103

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	15800.00	88.00	359.52	10503.01	5526.09	5534.94	1033.46	0.00	547557.74	818527.17	N 32 30 7.50	W 103 26 3.19
	15900.00	88.00	359.52	10506.50	5626.03	5634.88	1032.63	0.00	547657.68	818526.33	N 32 30 8.49	W 103 26 3.19
	16000.00	88.00	359.52	10509.99	5725.97	5734.81	1031.79	0.00	547757.61	818525.49	N 32 30 9.48	W 103 26 3.19
	16100.00	88.00	359.52	10513.48	5825.91	5834.75	1030.95	0.00	547857.55	818524.66	N 32 30 10.47	W 103 26 3.19
	16200.00	88.00	359.52	10516.97	5925.85	5934.69	1030.11	0.00	547957.48	818523.82	N 32 30 11.46	W 103 26 3.19
	16300.00	88.00	359.52	10520.46	6025.79	6034.62	1029.28	0.00	548057.42	818522.98	N 32 30 12.45	W 103 26 3.19
	16400.00	88.00	359.52	10523.95	6125.73	6134.56	1028.44	0.00	548157.35	818522.14	N 32 30 13.44	W 103 26 3.19
	16500.00	88.00	359.52	10527.44	6225.68	6234.49	1027.60	0.00	548257.29	818521.31	N 32 30 14.43	W 103 26 3.19
	16600.00	88.00	359.52	10530.93	6325.60	6334.43	1026.76	0.00	548357.22	818520.47	N 32 30 15.41	W 103 26 3.19
	16700.00	88.00	359.52	10534.42	6425.54	6434.36	1025.93	0.00	548457.16	818519.63	N 32 30 16.40	W 103 26 3.19
	16800.00	88.00	359.52	10537.91	6525.48	6534.30	1025.09	0.00	548557.09	818518.79	N 32 30 17.39	W 103 26 3.19
	16900.00	88.00	359.52	10541.40	6625.42	6634.23	1024.25	0.00	548657.03	818517.96	N 32 30 18.38	W 103 26 3.19
	17000.00	88.00	359.52	10544.89	6725.36	6734.17	1023.42	0.00	548756.96	818517.12	N 32 30 19.37	W 103 26 3.19
	17100.00	88.00	359.52	10548.38	6825.30	6834.11	1022.58	0.00	548856.90	818516.28	N 32 30 20.36	W 103 26 3.19
	17200.00	88.00	359.52	10551.87	6925.24	6934.04	1021.74	0.00	548956.83	818515.45	N 32 30 21.35	W 103 26 3.19
	17300.00	88.00	359.52	10555.36	7025.18	7033.98	1020.90	0.00	549056.77	818514.61	N 32 30 22.34	W 103 26 3.19
	17400.00	88.00	359.52	10558.85	7125.12	7133.91	1020.07	0.00	549156.70	818513.77	N 32 30 23.33	W 103 26 3.19
	17500.00	88.00	359.52	10562.34	7225.06	7233.85	1019.23	0.00	549256.64	818512.93	N 32 30 24.31	W 103 26 3.19
	17600.00	88.00	359.52	10565.83	7324.99	7333.78	1018.39	0.00	549356.57	818512.10	N 32 30 25.30	W 103 26 3.19
	17700.00	88.00	359.52	10569.32	7424.93	7433.72	1017.56	0.00	549456.51	818511.26	N 32 30 26.29	W 103 26 3.19
	17800.00	88.00	359.52	10572.81	7524.87	7533.65	1016.72	0.00	549556.44	818510.42	N 32 30 27.28	W 103 26 3.19
Chisholm Outland State Unit 11-2 2BS 2H - BHL	17831.35	88.00	359.52	10573.90	7556.20	7564.98	1016.46	0.00	549587.77	818510.18	N 32 30 27.59	W 103 26 3.19

Survey Type: Def Plan

Survey Error Model: ISCWSA Rev 0 *** 3-D 95.000% Confidence 2.7955 sigma
Survey Program:

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Expected Max Inclination (deg)	Survey Tool Type	Borehole / Survey
	1	0.000	31.000	1/100.000	30.000	30.000		NAL_MWD_1.0_DEG-Depth Only	Original Borehole / Chisholm Outland State Unit 11-2 2BS 2H Rev0 smk 20May19
	1	31.000	17831.348	1/100.000	30.000	30.000		NAL_MWD_1.0_DEG	Original Borehole / Chisholm Outland State Unit 11-2 2BS 2H

Chisholm Outland State Unit 11-2 2BS 2H Rev0 smk 20May19 Anti-Collision Summary Report

Analysis Date-24hr Time: May 20, 2019 - 18:05

Client: Chisholm

Field: NM Lea County (NAD 83)

Structure: Chisholm Outland State Unit 11-2 2BS 2H

Slot: New Slot

Well: Chisholm Outland State Unit 11-2 2BS 2H

Borehole: Original Borehole

Scan MD Range: 0.00ft - 17831.35ft

Analysis Method:

Reference Trajectory:

Depth Interval:

Rule Set:

Min Pts:

Version / Patch:

Database / Project:

3D Least Distance

Chisholm Outland State Unit 11-2 2BS 2H Rev0 smk 20May19 (Def Plan)

Every 100.00 Measured Depth (ft)

NAL Procedure: D&M Anti-Collision Standard S002

All local minima indicated.

2.10.780.0

us1153app452.dir.slb.com/drilling -NM Lea County 2.10

Trajectory Error Model: ISCWSA0 3-D 95.000% Confidence 2.7955 sigma, for subject well. For offset wells, error model version is specified with each well respectively.

Offset Trajectories Summary

Offset Selection Criteria

Wellhead distance scan:

Selection filters:

Not performed!

Definitive Surveys - Definitive Plans - Definitive surveys exclude definitive plans

- All Non-Def Surveys when no Def-Survey is set in a borehole - All Non-Def Plans when no Def-Plan is set in a borehole

Offset Trajectory	Separation			Allow Dev. (ft)	Sep. Fact.	Controlling Rule	Reference Trajectory		Risk Level			Alert	Status
	Ct-Ct (ft)	MAS (ft)	EOU (ft)				MD (ft)	TVD (ft)	Minor	Major			

Results highlighted: Sep-Factor separation <= 1.50 ft

04025-52-03 OUTLAND STATE UNIT (P&A) Ind City 0413070 (Def Survey)													
868.49	32.81	861.77	835.69	204.98	MAS = 10.00 (m)	0.00	0.00					MinPts	
868.53	32.81	860.74	835.72	183.63	MAS = 10.00 (m)	31.00	31.00					WRP	
752.32	230.52	597.79	521.81	4.93	OSF1.50	4100.00	4085.49	OSF<5.00				Enter Alert	
594.56	454.80	290.55	139.79	1.86	OSF1.50	8400.00	8361.92					MinPt-CtCt	
507.66	551.52	139.15	-43.86	1.38	OSF1.50	10200.00	10120.67	OSF<1.50				Enter Minor	
317.84	559.06	-56.70	-241.22	0.85	OSF1.50	10500.00	10230.10			OSF<1.00		Enter Major	
240.69	559.30	-133.01	-318.61	0.64	OSF1.50	10700.00	10324.99					MinPts	
372.64	557.97	-0.17	-185.33	1.00	OSF1.50	11000.00	10335.45	OSF>1.50				Exit Major	
536.70	558.41	163.59	-21.72	1.44	OSF1.50	11200.00	10342.45					Exit Minor	
1768.59	560.49	1394.08	1208.08	4.75	OSF1.50	12500.00	10387.84	OSF>5.00				Exit Alert	
7077.65	565.52	6699.80	6512.12	18.85	OSF1.50	17831.35	10573.90					TD	

04025-55-04 OUTLAND STATE UNIT (P&A) Ind City 0413550 (Def Survey)													
6763.13	32.81	6760.63	6730.33	N/A	MAS = 10.00 (m)	0.00	0.00					Surface	
6761.22	32.81	6758.45	6728.41	2506.67	MAS = 10.00 (m)	31.00	31.00					WRP	
6749.36	32.81	6745.38	6718.56	4538.62	MAS = 10.00 (m)	400.00	400.00					MinPts	
6749.38	32.81	6744.95	6716.57	3494.34	MAS = 10.00 (m)	500.00	500.00					MINPT-O-EQU	
6747.90	32.81	6741.19	6715.05	1603.11	MAS = 10.00 (m)	1100.00	1099.99					MinPts	
6819.85	32.81	6808.54	6787.04	630.61	MAS = 10.00 (m)	3300.00	3289.88					MinPts	
6820.60	32.81	6806.05	6787.79	566.02	MAS = 10.00 (m)	3500.00	3488.78					MINPT-O-EQU	
6816.50	58.48	6776.68	6758.02	182.59	OSF1.50	4700.00	4682.20					MinPts	
6817.45	59.45	6776.98	6758.00	179.50	OSF1.50	4800.00	4781.66					MinPt-O-ADP	
6809.62	136.39	6717.88	6673.22	78.26	OSF1.50	6200.00	6173.98					MinPt-CtCt	
6816.53	260.18	6642.24	6556.35	39.67	OSF1.50	8500.00	8560.83					MinPt-CtCt	
6824.36	298.38	6524.61	6525.98	34.58	OSF1.50	9500.00	9455.89					MINPT-O-EQU	
6833.81	309.07	6526.93	6524.74	33.42	OSF1.50	9800.00	9754.25					MinPt-O-ADP	
1235.82	395.69	967.94	830.13	4.78	OSF1.50	15800.00	10503.01	OSF<5.00				Enter Alert	
428.88	508.74	87.05	-79.86	1.26	OSF1.50	16700.00	10534.42		OSF<1.50			Enter Minor	
324.44	568.10	-55.58	-243.65	0.85	OSF1.50	16900.00	10541.40			OSF<1.00		Enter Major	
309.68	571.43	-72.10	-261.74	0.81	OSF1.50	17000.00	10544.89					MinPts	
326.38	543.16	-36.55	-216.77	0.90	OSF1.50	17100.00	10548.38			OSF>1.00		Exit Major	
433.28	458.62	126.70	-25.34	1.42	OSF1.50	17300.00	10555.36	OSF>1.50				Exit Minor	
889.83	375.97	638.35	513.88	3.56	OSF1.50	17831.35	10573.90					TD	

Chisholm Outland State Unit 11-2 2BS (HISTO) (Ind City 170541) (Def Survey)													
109.99	32.81	107.49	77.18	N/A	MAS = 10.00 (m)	0.00	0.00					Surface	
109.97	32.81	107.48	77.16	18188.84	MAS = 10.00 (m)	31.00	31.00					WRP	
105.69	32.81	99.45	72.83	27.59	MAS = 10.00 (m)	900.00	900.00					MinPts	
105.27	32.81	98.42	72.45	23.64	MAS = 10.00 (m)	1100.00	1099.99					MinPt-O-SF	
61.78	32.81	50.79	28.97	6.98	MAS = 10.00 (m)	2800.00	2792.62					MinPts	
62.24	32.81	50.78	29.43	6.67	MAS = 10.00 (m)	2900.00	2892.07					MINPT-O-EQU	
64.44	32.81	52.49	31.63	6.56	MAS = 10.00 (m)	3000.00	2991.52					MinPt-O-SF	
112.82	32.81	94.57	80.01	7.00	MAS = 10.00 (m)	4800.00	4582.75					MinPts	
883.51	55.53	845.65	827.97	24.92	OSF1.50	9000.00	8958.64					MinPt-O-SF	
1503.00	181.25	1381.33	1321.75	12.59	OSF1.50	12400.00	10384.35					MinPt-CtCt	
1543.42	428.58	1259.87	1114.84	5.42	OSF1.50	15600.00	10496.03					MinPt-CtCt	
1544.45	433.50	1254.62	1110.95	5.37	OSF1.50	15700.00	10498.52					MINPT-O-EQU	
1563.34	445.37	1254.93	1108.98	5.25	OSF1.50	15800.00	10506.50					MINPT-O-EQU	
1566.59	451.30	1254.89	1105.23	5.19	OSF1.50	16000.00	10509.99					MinPt-O-ADP	
1569.48	473.11	1253.24	1098.37	4.99	OSF1.50	16300.00	10520.46	OSF<5.00				Enter Alert	
1579.43	493.51	1249.58	1085.92	4.82	OSF1.50	16600.00	10530.93					MINPT-O-EQU	
1583.39	498.14	1250.66	1085.45	4.78	OSF1.50	16700.00	10534.42					MinPt-O-ADP	
1606.76	528.46	1253.62	1078.30	4.58	OSF1.50	17100.00	10548.38					MINPT-O-EQU	
1627.40	578.95	1240.60	1048.45	4.23	OSF1.50	17831.35	10573.90					MinPts	

04025-55-04 OUTLAND STATE UNIT (P&A) Ind City 0413550 (Def Survey)													
8399.91	32.81	8397.41	8367.10	N/A	MAS = 10.00 (m)	0.00	0.00					MinPts	
8399.92	32.81	8397.42	8367.11	N/A	MAS = 10.00 (m)	31.00	31.00					WRP	
8404.74	32.81	8398.03	8371.93	1956.68	MAS = 10.00 (m)	1100.00	1099.99					MinPts	
8459.25	32.81	8447.81	8426.47	943.30	MAS = 10.00 (m)	3000.00	2991.52					MinPts	
8459.72	32.81	8447.65	8426.91	883.44	MAS = 10.00 (m)	3100.00	3080.97					MINPT-O-EQU	
8471.19	32.81	8454.78	8438.38	609.01	MAS = 10.00 (m)	3800.00	3787.14					MINPT-O-EQU	
8464.33	49.03	8430.81	8415.31	272.81	OSF1.50	4500.00	4483.30					MinPt-CtCt	
8462.03	197.41	8329.58	8264.61	55.10	OSF1.50	7400.00	7367.40					MinPt-CtCt	

Offset Trajectory	Separation			Allow Dev. (ft)	Sep. Fact.	Controlling Rule	Reference Trajectory		Risk Level			Alert	Status
	CL-G (ft)	MAS (ft)	EOU (ft)				MD (ft)	TVD (ft)	Alert	Minor	Major		
8473.32		317.65	8280.72	8155.67	40.32	OSF1.50	9700.00	9654.80				MinPt-CHK	
1252.78		400.55	881.47	852.23	4.80	OSF1.50	17400.00	10558.85	OSF<5.00			Enter Alert	
833.39		424.57	546.00	408.82	2.99	OSF1.50	17831.35	10573.90				MinPt	

30-025-35985 Chisholm
Outland State Unit #005 (Offset)
Active) Inc Only 0 to 13515'
(Def Survey)

Warning Alert

3075.76	32.81	3073.26	3042.95	N/A	MAS = 10.00 (m)	0.00	0.00					MinPt	
3075.78	32.81	3072.80	3042.97	6396.07	MAS = 10.00 (m)	31.00	31.00					WRP	
3093.11	64.05	3049.58	3029.07	75.32	OSF1.50	1200.00	1189.86					MINPT-O-EQU	
3087.47	69.40	3050.37	3028.07	69.40	OSF1.50	1300.00	1299.86					MinPt-O-ADP	
3347.72	470.05	3033.52	2877.67	10.73	OSF1.50	8000.00	7964.12					MINPT-O-EQU	
3390.27	533.11	3034.03	2857.16	9.58	OSF1.50	8900.00	8859.18					MINPT-O-EQU	
3435.56	593.81	3038.88	2841.75	8.71	OSF1.50	9700.00	9654.80					MINPT-O-EQU	
2187.16	660.80	1725.46	1505.36	4.94	OSF1.50	11600.00	10356.43		OSF<5.00			Enter Alert	
966.39	698.29	520.03	288.09	2.12	OSF1.50	13500.00	10422.74					MinPt	
2193.49	684.34	1736.44	1509.16	4.82	OSF1.50	15500.00	10492.54		OSF>5.00			Exit Alert	
4396.83	693.23	3633.84	3703.60	9.54	OSF1.50	17831.35	10573.90					TD	

Chisholm Outland State Unit 11-
2 1BS 1H Off to 11895ft
Definitive (Def Survey)

Pass

108.99	32.81	107.49	77.18	N/A	MAS = 10.00 (m)	0.00	0.00					Surface	
109.97	32.81	107.46	77.16	18188.84	MAS = 10.00 (m)	31.00	31.00					WRP	
105.69	32.81	99.45	72.89	27.59	MAS = 10.00 (m)	900.00	900.00					MinPt	
105.27	32.81	98.42	72.46	23.64	MAS = 10.00 (m)	1100.00	1099.99					MinPt-O-SF	
61.78	32.81	50.78	28.97	6.98	MAS = 10.00 (m)	2800.00	2792.62					MinPt	
62.24	32.81	50.78	29.43	6.87	MAS = 10.00 (m)	2900.00	2892.07					MINPT-O-EQU	
64.44	32.81	52.49	31.63	6.56	MAS = 10.00 (m)	3000.00	2991.52					MinPt-O-SF	
112.62	32.81	84.57	80.01	7.00	MAS = 10.00 (m)	4500.00	4582.75					MinPt	
939.03	61.37	897.29	877.66	23.85	OSF1.50	9807.34	9761.55					MinPt-O-SF	
7772.12	65.84	7727.39	7706.26	194.01	OSF1.50	17831.35	10573.90					TD	