



Outland State Unit 11-2 2BS 2H

API # 30-0xx-xxxx

Revised: 5/21/2019

TVD Geological
ft-RKB Tops

Wellbore Sketch

Hole Size

Casing

Drilling Fluids

Cement

OH Logs/Evaluation

1,000'			26"	Surface: 20" 94.0# J55 BTC	FW Spud Mud 8.5 - 9.2 ppg 32 - 38 FV 4-6 PV 2-5 YP	Top of Lead: Surface 12.0 ppg 1.86 cuft/sk 2,105 sks Top of Tail: 1,300' 14.8 ppg 1.35 cuft/sk 895 sks (100% Excess)	
1,665 Rustler		1,700'					
2,000'	2,090 Salado		17-1/2"	Intermediate 1: 13-3/8" 68# J55/K55 BTC	Saturated Brine 10.0 - 10.3 ppg 28 - 32 FV	Stage 1 - 100% Excess Top of Lead: 4,000' 11.5 ppg 2.25 cuft/sk 605 sks Top of Tail: 4,975' 14.8 ppg 1.35 cuft/sk 515 sks Stage 2 - 200% Excess Top of Lead: Surface 11.5 ppg 2.25 cuft/sk 2,900 sks	
3,000'							
3,665 Yates		DV Tool & ECP @ 3,600'					
4,000'	4,085 Capitan Reef		12-1/4"	Intermediate 2: 9-5/8" 40# N80 BTC	Cut Brine/WBM 9.0 - 9.5 ppg 15 - 20 PV 8 - 12 YP	Top of Lead: 4,000' 11.5 ppg 2.25 cuft/sk 615 sks Top of Tail: 7,250' 14.8 ppg 1.33 cuft/sk 355 sks (50% Excess)	
5,000'	5,435 Delaware Mtn Gr	5,475'					
6,000'			8-3/4" Curve 8-1/2" Lateral	Production: 5-1/2" 20# P110 BTC	OBM 9.0 - 9.5 ppg 15 - 20 PV 8 - 12 YP	Top of Lead: Surface 11.3 ppg 2.93 cuft/sk 975 sks Top of Tail: 9,500' 14.5 ppg 1.20 cuft/sk 1,830 sks (15% Excess)	
8,000'	8,184 Bone Spring						
9,000'		9,500'					
	9,463 1st Bone Spring SS 9,692 2nd Bone Spring Carb						
10,000'	10,089 2nd Bone Spring SS						
	10,368 3rd Bone Spring Carb						
11,000'							
							17,831' MD 10,574' TVD

HOBBS OCD

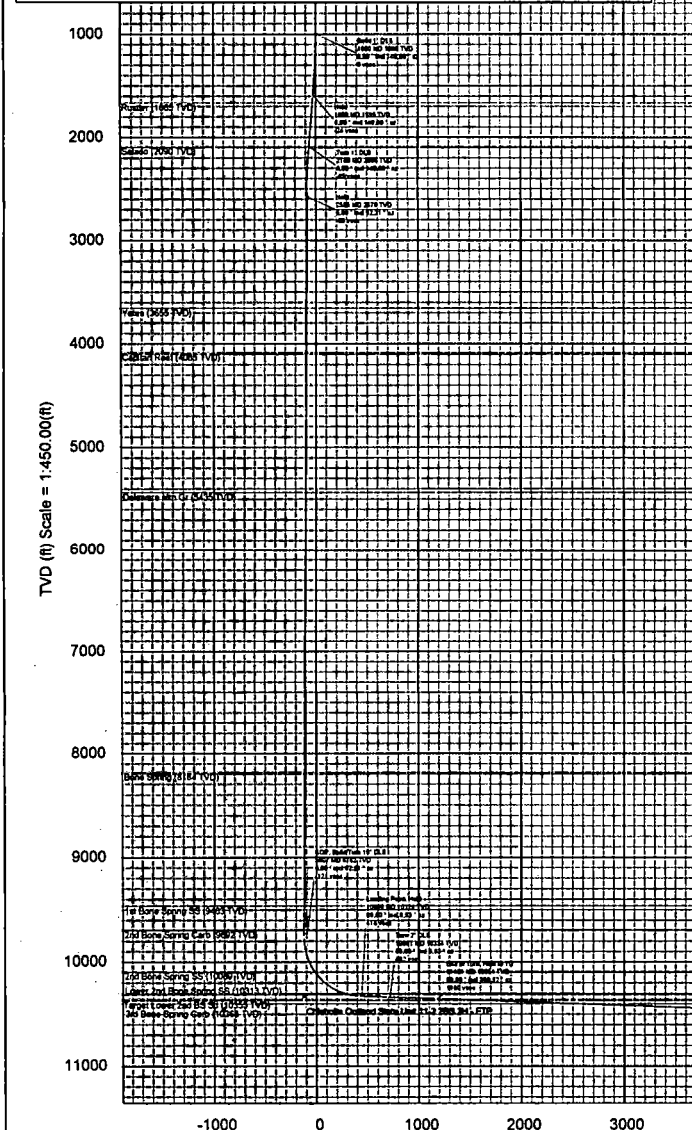
MAY 22 2019

RECEIVED

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	Miscellaneous
Model: NQDM 2018 MagDec: 6.612°	Lat: N 32 29 12.82 Lon: W 103 26 18.80	Elect: New Slot Plan: Chisholm Outland State Unit 11-2 2BS 2H Rev0 smk 20May19
Date: 20-May-2019 Gravity PS: 998.43mgals (8.80655 Based)	Northings: 842022.837MUS Easting: 817482.717MUS Grid Conn: 0.42111° Scale Fact: 0.99999643	TVD Ref: RCB(7702.67 above MSL) One Curve 0.5617

Critical Points								
Critical Point	MD	INCL	AZIM	TVD	YSEC	X(YR-I)	Z(YR-I)	DLR
SHL	0.00	0.00	7.65	0.00	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	0.00
Hold	1600.00	6.00	140.00	1598.90	-24.21	-24.04	20.18	1.00
Rustler	1688.46	6.00	140.00	1683.00	-29.57	-29.37	24.84	0.00
Salado	2093.80	6.00	140.00	2090.00	-44.03	-43.58	53.35	0.00
Turn 1" DLS	2100.00	6.00	140.00	2096.18	-44.53	-44.08	53.77	0.00
Hold	2585.38	6.00	92.21	2579.17	-45.30	-44.51	95.46	1.00
Yates	3667.14	6.00	92.21	3653.00	-60.61	-58.97	208.46	0.00
Capitan Reef	4099.50	6.00	92.21	4085.00	-62.74	-60.82	253.86	0.00
Delaware Mtn Gr	5456.85	6.00	92.21	5435.00	-69.40	-66.09	395.48	0.00
Bone Spring	6221.10	6.00	92.21	6194.00	-112.96	-107.25	684.27	0.00
1st Bone Spring SS	9507.14	6.00	92.21	9483.00	-118.29	-112.44	818.64	0.00
2nd Bone Spring Carb	9737.41	6.00	92.21	9682.00	-120.42	-113.37	842.89	0.00
XOP, Build/Turn 10" DLS	9807.34	6.00	92.21	9781.55	-120.77	-113.65	850.80	0.00
2nd Bone Spring SS	10159.82	36.33	16.89	10089.00	-18.80	-11.26	900.31	10.00
Lower 2nd Bone Spring SS	10594.48	78.46	9.84	10313.00	321.77	329.96	978.32	10.00
Landing Point, Hold	10680.44	88.00	8.93	10324.30	415.54	423.88	991.92	10.00
Turn 2" DLS	10981.17	88.00	8.93	10334.10	692.32	701.02	1035.46	0.00
End of Turn, Hold to TD	11431.35	88.00	359.52	10350.54	1180.10	1189.11	1070.04	2.00
Target Lower 2nd BS Sd	11559.05	88.00	359.52	10355.00	1267.73	1296.73	1068.97	0.00
3rd Bone Spring Carb	11831.55	88.00	359.52	10368.00	1600.00	1608.98	1085.85	0.00
Chisholm Outland State Unit 11-2 2BS 2H - BPL	17831.35	88.00	359.52	10573.90	7556.20	7604.96	1016.48	0.00



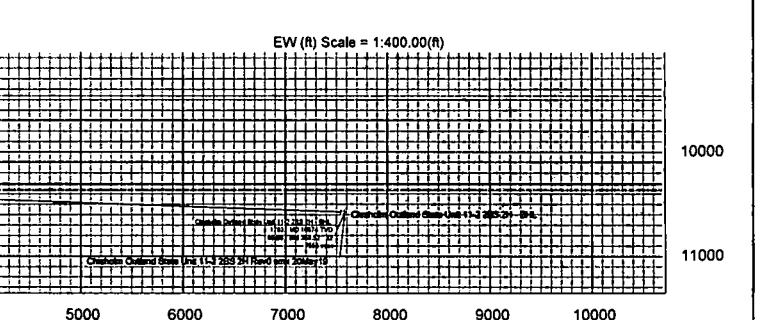
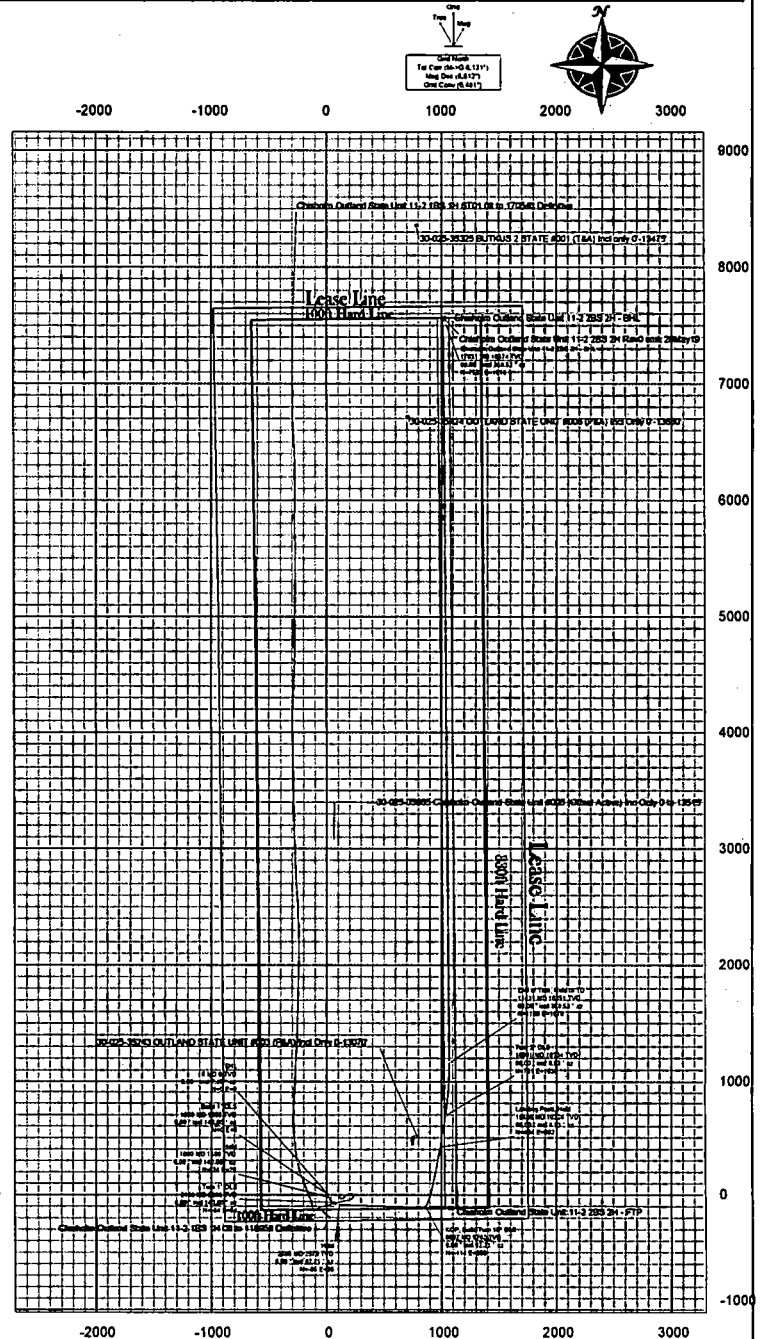
NS (ft) Scale = 1:450.00(ft)

TVD (ft) Scale = 1:450.00(ft)

EW (ft) Scale = 1:400.00(ft)

Vertical Section (ft) Azim = 359.52° Scale = 1:450.00(ft) Origin = 0N1-S, 0E-W

EW (ft) Scale = 1:400.00(ft)



EW (ft) Scale = 1:400.00(ft)

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 / APN: 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"
CRS Grid Convergence Angle: N 542022.830 ftUS, E 817493.710 ftUS
Grid Scale Factor: 0.9999843
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: 998.4927mg (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: IHDGM 2019
North Reference: Grid North
Grid Convergence Used: 0.4811°
Total Corr Mag North->Grid: 6.1307°
North: Wet Head
Local Coord Referenced To:

Comments	MD (ft)	Incl (°)	Adm Grid (ft)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS C/100m	Northing (ftUS)	Easting (ftUS)	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
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
Hold	1600.00	0.00	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
Turn 1" DLS	2100.00	0.00	140.00	2098.16	-64.53	-64.08	53.77	0.00	541958.75	817547.46	N 32 29 12.19	W 103 26 15.18
Hold	2585.38	0.00	92.21	2579.17	-85.30	-84.51	95.46	1.00	541938.33	817589.17	N 32 29 11.98	W 103 26 14.70
KOP, Build/Turn 10" DLS	9807.34	0.00	92.21	9761.55	-120.77	-113.85	850.00	0.00	541909.18	818343.71	N 32 29 11.63	W 103 26 5.89
Landing Point, Hold	10680.44	88.00	6.93	10324.30	415.54	423.88	991.92	10.00	542446.69	818485.62	N 32 29 16.94	W 103 26 4.18
Turn 2" DLS	10981.17	88.00	6.93	10334.10	692.32	701.02	1035.48	0.00	542723.85	818529.17	N 32 29 19.67	W 103 26 3.65
End of Turn, Hold to TD	11431.35	88.00	358.52	10350.54	1160.10	1169.11	1070.04	2.00	543191.93	818563.74	N 32 29 24.30	W 103 26 3.20
Chisholm Outland State Unit 11-2 2BS 2H - BHL	17831.35	88.00	358.52	10573.90	7556.20	7564.98	1016.48	0.00	549587.77	818510.16	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 Proposal

Geodetic Report

(Def Plan)

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 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° 26' 15.80235"
 Location Grid N/E Y/X: N 542022.830 RUS, E 817493.710 RUS
 GRS Grid Convergence Angle: 0.4811°
 Grid Scale Factor: 0.99999643
 Version / Patch: 2.10.760.0

Survey / DLS Computation: Minimum Curvature / Lubinski
 Vertical Section Azimuth: 359.520° (Grid North)
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 TVD Reference Datum: RKB
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 Seabed / Ground Elevation: 3871.600 ft above MSL
 Magnetic Declination: 6.612°
 Total Gravity Field Strength: 986.4927mgm (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 C/(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	-0.87	-0.87	0.56	1.00	542022.16	817494.27	N 32 29 12.82	W 103 26 15.80
	1200.00	2.00	140.00	1199.98	-2.69	-2.87	2.24	1.00	542020.16	817485.95	N 32 29 12.80	W 103 26 15.78
	1300.00	3.00	140.00	1299.88	-6.06	-6.02	5.05	1.00	542016.81	817488.76	N 32 29 12.77	W 103 26 15.74
	1400.00	4.00	140.00	1399.88	-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	-18.70	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	1698.36	-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	541982.77	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
	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
Salado	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
Turn 1" DLS	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	2579.17	-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	541937.48	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
Yates	3667.14	6.00	92.21	3655.00	-90.81	-89.87	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	222.36	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
	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	W 103 26 12.97
Capitan Reef	4099.50	6.00	92.21	4085.00	-92.74	-90.62	253.65	0.00	541932.21	817747.38	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
	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
Delaware Mtn Gr	5458.95	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	-99.81	-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	N 32 29 11.79	W 103 26 9.92
	6600.00	6.00	92.21	6571.79	-105.02							

Comments	MD (ft)	Incl (°)	Azim (°)	Grid (ft)	TVD (ft)	VSEC (m)	NS (ft)	EW (ft)	DLS C(100m)	North (m)	East (m)	Lat (N/S ° ' '')	Long (E/W ° ' '')
	7100.00	6.00	92.21	7069.05	-107.47	-102.72	567.14	567.14	0.00	541920.11	818060.85	N 32 29 11.76 W 103 26 9.19	
	7200.00	6.00	92.21	7168.50	-107.96	-103.13	577.59	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	588.04	0.00	541919.30	818081.74	N 32 29 11.75 W 103 26 8.95	
	7400.00	6.00	92.21	7367.40	-108.95	-103.94	598.48	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	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	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	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	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	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	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	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	-107.16	682.07	682.07	0.00	541915.67	818175.77	N 32 29 11.71 W 103 26 7.85	
	8221.10	6.00	92.21	8184.00	-112.98	-107.25	684.27	684.27	0.00	541915.58	818177.99	N 32 29 11.71 W 103 26 7.82	
	8300.00	6.00	92.21	8282.47	-113.36	-107.57	692.51	692.51	0.00	541915.28	818188.22	N 32 29 11.70 W 103 26 7.73	
	8400.00	6.00	92.21	8381.92	-113.86	-107.97	702.96	702.96	0.00	541914.88	818198.67	N 32 29 11.70 W 103 26 7.61	
	8500.00	6.00	92.21	8481.38	-114.35	-108.37	713.41	713.41	0.00	541914.48	818209.12	N 32 29 11.69 W 103 26 7.48	
	8600.00	6.00	92.21	8580.83	-114.84	-108.78	723.86	723.86	0.00	541914.08	818219.57	N 32 29 11.69 W 103 26 7.36	
	8700.00	6.00	92.21	8680.28	-115.33	-109.18	734.31	734.31	0.00	541913.68	818229.01	N 32 29 11.68 W 103 26 7.24	
	8800.00	6.00	92.21	8779.73	-115.82	-109.58	744.75	744.75	0.00	541913.28	818238.46	N 32 29 11.68 W 103 26 7.12	
	8900.00	6.00	92.21	8879.18	-116.31	-109.99	755.20	755.20	0.00	541912.88	818248.91	N 32 29 11.67 W 103 26 7.00	
	9000.00	6.00	92.21	8978.63	-116.80	-110.39	765.65	765.65	0.00	541912.48	818259.36	N 32 29 11.67 W 103 26 6.88	
	9100.00	6.00	92.21	9078.09	-117.29	-110.80	776.10	776.10	0.00	541912.08	818269.80	N 32 29 11.66 W 103 26 6.75	
	9200.00	6.00	92.21	9177.54	-117.78	-111.20	786.55	786.55	0.00	541911.68	818280.25	N 32 29 11.66 W 103 26 6.63	
	9300.00	6.00	92.21	9276.99	-118.28	-111.60	796.99	796.99	0.00	541911.28	818290.70	N 32 29 11.65 W 103 26 6.51	
	9400.00	6.00	92.21	9376.44	-118.77	-112.01	807.44	807.44	0.00	541910.88	818301.15	N 32 29 11.65 W 103 26 6.39	
	9500.00	6.00	92.21	9475.89	-119.26	-112.41	817.89	817.89	0.00	541910.48	818311.59	N 32 29 11.64 W 103 26 6.27	
1st Bone Spring SS	9507.14	6.00	92.21	9483.00	-119.29	-112.44	818.64	818.64	0.00	541910.39	818312.34	N 32 29 11.64 W 103 26 6.26	
	9600.00	6.00	92.21	9582.45	-119.75	-112.81	828.34	828.34	0.00	541910.02	818322.04	N 32 29 11.64 W 103 26 6.14	
	9700.00	6.00	92.21	9681.90	-120.24	-113.22	838.79	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	842.69	0.00	541909.48	818338.40	N 32 29 11.63 W 103 26 5.98	
	9800.00	6.00	92.21	9791.45	-120.73	-113.62	848.23	848.23	0.00	541909.21	818342.94	N 32 29 11.63 W 103 26 5.90	
KOP, Build/Turn 10" DLS	9807.34	6.00	92.21	9781.55	-120.77	-113.65	850.00	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	-106.63	860.76	860.76	10.00	541918.20	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	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	890.28	890.28	10.00	541980.35	818383.97	N 32 29 12.33 W 103 26 5.41	
2nd Bone Spring SS	10159.82	38.33	16.89	10089.00	-18.80	-11.26	900.31	900.31	10.00	542011.57	818394.01	N 32 29 12.84 W 103 26 5.29	
	10200.00	40.31	15.79	10120.67	5.17	12.77	907.34	907.34	10.00	542035.60	818401.05	N 32 29 12.88 W 103 26 5.21	
	10300.00	50.21	13.71	10190.88	73.64	81.40	925.30	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	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	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	78.46	9.94	10313.00	321.77	329.96	976.32	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	336.77	344.99	978.93	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	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	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	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	1025.97	0.00	542661.45	818519.68	N 32 29 19.08 W 103 26 3.76	
Turn 2" DLS	10961.17	88.00	8.93	10334.10	692.32	701.02	1035.46	1035.46	0.00	542723.85	818529.17	N 32 29 19.87 W 103 26 3.65	
	11000.00	88.00	8.15	10335.45	730.65	739.39	1041.23	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	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	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	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	1127.77	1137.78	1070.13	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	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	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	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	1068.63	1068.63	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	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	1066.95	1066.95	0.00	543560.34	818560.66	N 32 29 27.95 W 103 26 3.20	
	11900.00	88.00	359.52	10366.90	1628.47	1637.46	1066.12	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	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	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	1064.44	0.00	543860.15	818558.14	N 32 29 30.92 W 103 26 3.20	
	12200.00	88.00	359.52	10377.37	1928.28	1937.26	1063.60	1063.60	0.00	543960.08	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	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	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	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	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	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	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	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	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									

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS C/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	6225.66	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	6434.38	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	1016.48	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: 3D Least Distance
Reference Trajectory: Chisholm Outland State Unit 11-2 2BS 2H Rev0 smk 20May19 (Def Plan)
Depth Interval: Every 100.00 Measured Depth (ft)
Rule Set: NAL Procedure: D&M Anti-Collision Standard S002
Min Pts: All local minima indicated.
Version / Patch: 2.10.760.0
Database / Project: us1153app452.dfr.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: Not performed!
Selection filters: 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			Sep. Fact.	Controlling Rule	Reference Trajectory		Risk Level			Alert	Status
	Ct-Ct (ft)	MAS (ft)	EOU (ft)			MD (ft)	TVD (ft)	Alert	Minor	Major		

Results highlighted: Sep-Factor separation <= 1.50 ft

00025-20 OUTLAND STATE UNIT 000 (P&A) incl Only 04/07/07 (Def Survey)												
658.49	32.81	861.77	835.69	204.98	MAS = 10.00 (m)	0.00	0.00					MinPts
658.53	32.81	860.74	835.72	163.63	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
594.58	454.80	290.55	139.79	1.98	OSF1.50	8400.00	8381.92					MinPts-CICI
507.66	551.52	138.15	-43.86	1.38	OSF1.50	10200.00	10120.67		OSF<1.50			Enter Minor
317.84	559.08	-58.70	-241.22	0.85	OSF1.50	10500.00	10290.10			OSF<1.00		Enter Major
240.89	559.30	-133.01	-318.81	0.84	OSF1.50	10700.00	10324.99					MinPts
372.64	557.97	-0.17	-185.33	1.00	OSF1.50	11000.00	10338.46					Exit Major
536.70	558.41	183.59	-21.72	1.44	OSF1.50	11200.00	10342.46		OSF>1.50		OSF>1.00	Exit Minor
1768.59	550.49	1394.09	1208.09	4.75	OSF1.50	12500.00	10367.84	OSF>5.00				Exit Alert
7077.65	555.52	6699.80	6512.12	18.85	OSF1.50	17831.35	10573.90					TD

00025-20 OUTLAND STATE UNIT 000 (P&A) incl Only 04/07/07 (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	25094.67	MAS = 10.00 (m)	31.00	31.00					WRP
6749.36	32.81	6745.39	6716.56	4536.62	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-EOU
6747.90	32.81	6741.19	6715.05	1603.11	MAS = 10.00 (m)	1100.00	1059.99					MinPts
6819.85	32.81	6808.54	6787.04	630.61	MAS = 10.00 (m)	3300.00	3289.68					MinPts
6820.60	32.81	6808.05	6787.79	568.02	MAS = 10.00 (m)	3500.00	3488.78					MINPT-O-EOU
6816.50	58.48	6778.68	6758.02	182.59	OSF1.50	4700.00	4682.20					MinPts
6817.45	59.45	6778.99	6758.00	179.50	OSF1.50	4800.00	4781.68					MinPts-ADP
6809.62	136.39	6717.86	6673.22	78.26	OSF1.50	6200.00	6173.98					MinPts-CICI
6816.53	260.18	6642.24	6558.35	39.67	OSF1.50	8600.00	8560.83					MinPts-CICI
6824.36	298.38	6624.61	6525.96	34.58	OSF1.50	9500.00	9459.89					MINPT-O-EOU
6833.81	309.07	6626.93	6524.74	33.42	OSF1.50	9800.00	9754.25					MinPts-ADP
1235.82	398.69	987.94	839.13	4.76	OSF1.50	15800.00	10503.01	OSF<5.00				Enter Alert
428.88	508.74	67.05	-79.86	1.28	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
329.68	571.43	-72.10	-261.74	0.81	OSF1.50	17000.00	10544.89					MinPts
328.38	543.18	-38.58	-316.77	0.80	OSF1.50	17100.00	10548.38			OSF>1.00		Exit Major
433.28	468.62	128.70	-25.34	1.42	OSF1.50	17300.00	10558.36	OSF>1.50				Exit Minor
889.83	375.97	638.35	513.86	3.58	OSF1.50	17831.35	10573.90					TD

Chisholm Outland State Unit 11-2 2BS 2H EOU (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	107.46	77.16	18188.84	MAS = 10.00 (m)	31.00	31.00					WRP
105.63	32.81	99.46	72.83	27.59	MAS = 10.00 (m)	900.00	900.00					MinPts
105.27	32.81	98.42	72.48	23.64	MAS = 10.00 (m)	1100.00	1099.99					MinPts-O-SF
61.78	32.81	50.76	28.97	6.98	MAS = 10.00 (m)	2800.00	2792.62					MinPts
62.24	32.81	50.78	29.43	8.67	MAS = 10.00 (m)	2900.00	2892.07					MINPT-O-EOU
64.44	32.81	52.49	31.63	6.96	MAS = 10.00 (m)	3000.00	2991.52					MinPts-O-SF
112.82	32.81	94.57	60.01	7.00	MAS = 10.00 (m)	4600.00	4582.75					MinPts
883.51	58.53	845.65	827.97	24.92	OSF1.50	9000.00	8958.84					MinPts-O-SF
1503.00	181.25	1381.33	1321.75	12.59	OSF1.50	12400.00	10384.35					MinPts-CICI
1543.42	428.58	1256.87	1114.84	5.42	OSF1.50	15600.00	10496.03					MinPts-CICI
1544.45	433.56	1254.62	1110.95	5.37	OSF1.50	15700.00	10499.52					MINPT-O-EOU
1552.34	445.37	1254.60	1105.98	5.25	OSF1.50	15800.00	10506.50					MINPT-O-EOU
1556.59	451.30	1254.89	1105.29	5.19	OSF1.50	16000.00	10509.99					MinPts-ADP
1559.48	473.11	1253.24	1098.37	4.99	OSF1.50	16300.00	10520.46	OSF<5.00				Enter Alert
1579.43	493.51	1249.59	1085.92	4.82	OSF1.50	16800.00	10530.93					MINPT-O-EOU
1583.59	496.14	1250.60	1085.45	4.78	OSF1.50	16700.00	10534.42					MinPts-ADP
1606.76	528.46	1253.62	1078.30	4.58	OSF1.50	17100.00	10548.38					MINPT-O-EOU
1627.40	578.95	1240.60	1048.45	4.23	OSF1.50	17831.35	10573.90					MinPts

00025-20 OUTLAND STATE UNIT 000 (P&A) incl Only 04/07/07 (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	1990.68	MAS = 10.00 (m)	1100.00	1099.99					MinPts
8459.28	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	3090.97					MINPT-O-EOU
8471.19	32.81	8454.75	8438.38	609.01	MAS = 10.00 (m)	3800.00	3787.14					MINPT-O-EOU
8484.33	49.03	8430.81	8415.31	272.81	OSF1.50	4500.00	4483.30					MinPts-CICI
8482.03	197.41	8329.58	8264.61	65.10	OSF1.50	7400.00	7367.40					MinPts-CICI

Offset Trajectory	Separation			Allow Dev. (ft)	Sep. Fact.	Controlling Rule	Reference Trajectory		Risk Level			Alert	Status
	Cl-Cl (ft)	MAS (ft)	EOU (ft)				MD (ft)	TVD (ft)	Alert	Minor	Major		
	8473.32	317.65	8260.72	8159.87	40.32	OSF1.50	9700.00	9654.80				MinPt-CCl	
	1252.78	400.55	881.47	882.23	4.80	OSF1.50	17400.00	10558.85	OSF<5.00			Enter Alert	
	833.39	424.57	546.00	409.82	2.99	OSF1.50	17831.35	10573.90				MinPt	

30-025-35665 Chisholm
Outland State Unit #005 (Offset
Active) Inc Only 0 to 13515'
(Def Survey)

	3075.76	32.81	3073.26	3042.95	N/A	MAS = 10.00 (m)	0.00	0.00				MinPt	Warning Alert
	3075.78	32.81	3072.80	3042.97	6398.07	MAS = 10.00 (m)	31.00	31.00				WRP	
	3093.11	64.05	3049.58	3029.07	75.32	OSF1.50	1200.00	1199.98				MINPT-O-EOU	
	3097.47	69.40	3060.37	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-EOU	
	3380.27	533.11	3034.03	2857.16	9.58	OSF1.50	8900.00	8859.18				MINPT-O-EOU	
	3405.56	593.81	3038.86	2841.75	8.71	OSF1.50	9700.00	9654.80				MINPT-O-EOU	
	2167.18	660.80	1725.46	1508.36	4.94	OSF1.50	11600.00	10356.43	OSF<5.00			Enter Alert	
	986.39	698.29	520.03	288.09	2.12	OSF1.50	13500.00	10422.74				MinPt	
	2193.49	684.34	1738.44	1509.16	4.82	OSF1.50	15500.00	10492.54	OSF>5.00			Ext Alert	
	4396.83	693.23	3633.84	3703.60	9.54	OSF1.50	17831.35	10573.90				TD	

Chisholm Outland State Unit 11-
2 BBS 1H 0ft to 11895ft
Definitive (Def Survey)

	109.99	32.81	107.49	77.18	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	Pass
	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	72.83	27.59	MAS = 10.00 (m)	900.00	900.00				MinPt	
	105.27	32.81	98.42	72.46	23.84	MAS = 10.00 (m)	1100.00	1099.99				MinPt-O-SF	
	61.78	32.81	50.79	29.97	6.98	MAS = 10.00 (m)	2800.00	2792.62				MinPt	
	62.24	32.81	50.78	29.43	6.67	MAS = 10.00 (m)	2900.00	2892.07				MINPT-O-EOU	
	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)	4600.00	4582.75				MinPt	
	939.03	61.37	897.29	877.66	23.88	OSF1.50	9807.34	9761.55				MinPt-O-SF	
	7772.12	65.84	7727.39	7708.28	184.01	OSF1.50	17831.35	10573.90				TD	