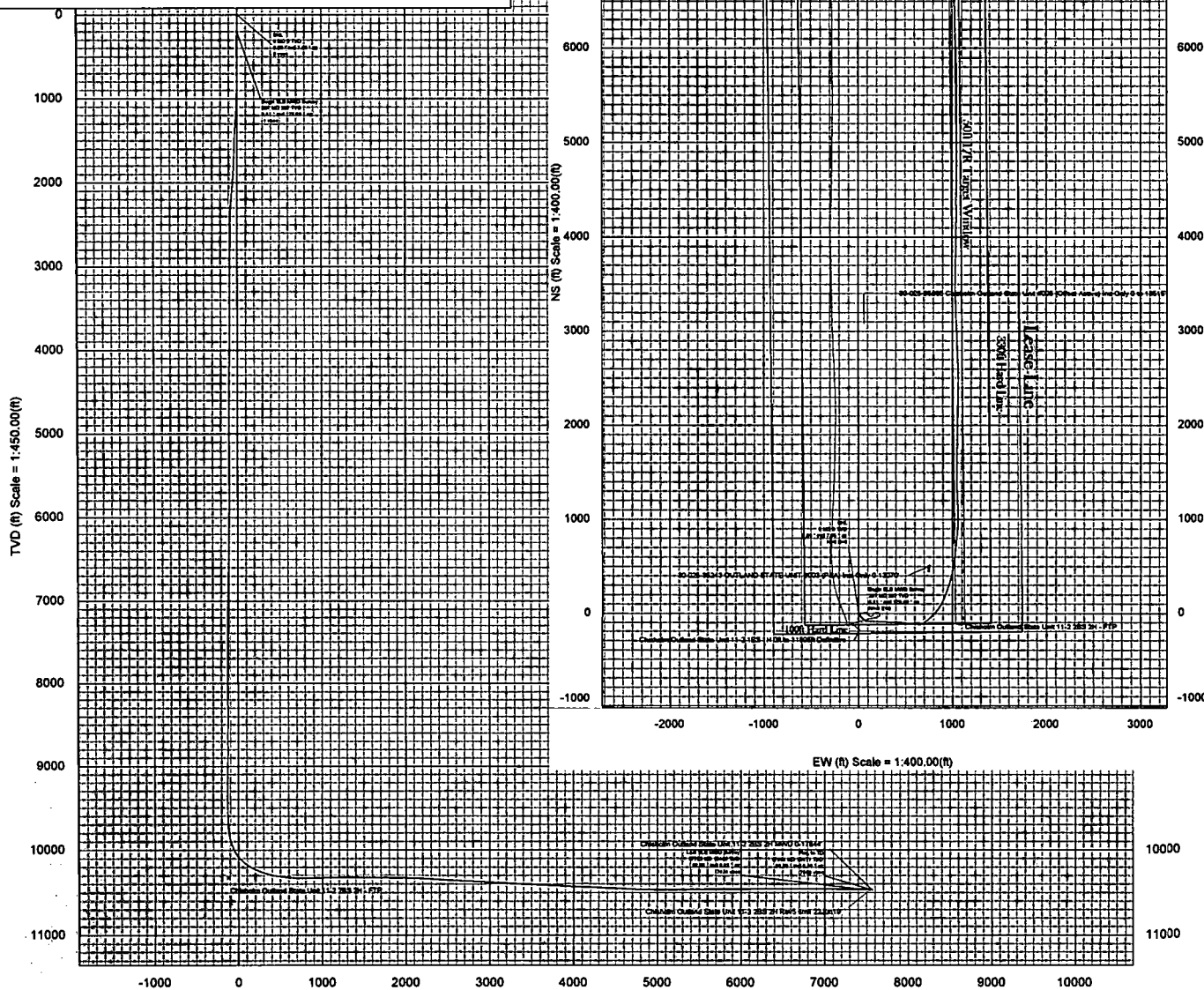


Borehole:		Well:	Field:	Structure:	
Original Borehole		Chisholm Outland State Unit 11-2 2BS 2H	NM Lea County (NAD 83)	Chisholm Outland State Unit 11-2 2BS 2H	
Gravity & Magnetic Parameters					
Model:	NOGM 2019	Dip:	60.54°	Date:	17-Jun-2019
MagDec:	8.809°	FB:	43025.330mT	Gravity PS:	888.493mgs (JAGP85 Based)
		Surface Location		NAEDS New Mexico State Plane, Eastern Zone, US Feet	
		Lat:	N 82 29 13.82	Northing:	812022.5371/S
		Long:	W 102 28 18.80	Easting:	617493.7111/S
				Grid Conv:	0.4911'
				Scale Fact:	0.99999643
				Wellbore:	
				State:	Chisholm Outland
				State Unit 11-2	TVD Ref:
				2BS 2H	RXU(3702.8) above MSL
				Plan:	Chisholm Outland State Unit 11-2 2BS 2H MWD 6-17844'

Critical Points

Critical Point	MD	INCL	AZIM	TVD	VSEC	R(+)/L(-)	E(+)/W(-)	DLA
ShL	0.00	0.00	7.65	0.00	0.00	0.00	0.00	
Begin SLS MWD Survey	207.00	0.51	170.80	207.00	-0.91	-0.91	0.15	0.29
Last SLS MWD Survey	17753.00	88.85	0.48	10458.69	7474.42	7483.18	1011.95	2.10
Prog. to TD	17844.00	88.85	0.48	10470.51	7565.39	7574.14	1012.71	0.00



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



Chisholm Outland State Unit 11-2 2BS 2H MWD 0-17844' MD Survey
Geodetic Report
(Def Survey)



Report Date: June 26, 2019 - 10:08 AM
Client: Chisholm
Field: NM Lea County (NAD 83)
Structure / Slot: Chisholm Outland State Unit 11-2 2BS 2H / Chisholm Outland State Unit 11-2 2BS 2H
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 MWD 0-17844'
Survey Date: May 30, 2019
Tort / AHD / DDI / ERD Ratio: 236.302' / 8522.910' / 6.536' / 0.814
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 NUS, E 817493.710 NUS
CRS 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)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB
TVD Reference Elevation: 3702.600 ft above MSL
Seabed / Ground Elevation: 3871.600 ft above MSL
Magnetic Declination: 6.609°
Total Gravity Field Strength: 998.4927mgn (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 48038.336 nT
Magnetic Dip Angle: 60.348°
Declination Date: June 17, 2019
Magnetic Declination Model: HDGM 2019
North Reference: Grid North
Grid Convergence Used: 0.4811°
Total Corr Mag North->Grid North: 6.1278°
Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/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
Begin SLB MWD Survey	207.00	0.51	170.60	207.00	-0.91	-0.91	0.15	0.25	542021.92	817493.88	N 32 29 12.82	W 103 26 15.80
	276.00	0.30	187.44	276.00	-1.39	-1.39	0.18	0.35	542021.44	817493.89	N 32 29 12.81	W 103 26 15.80
	335.00	0.17	145.39	335.00	-1.62	-1.62	0.21	0.35	542021.21	817493.92	N 32 29 12.81	W 103 26 15.80
	396.00	0.30	156.89	395.99	-1.84	-1.84	0.32	0.23	542020.99	817494.03	N 32 29 12.81	W 103 26 15.80
	456.00	0.08	113.94	455.99	-2.00	-2.00	0.42	0.41	542020.83	817494.13	N 32 29 12.81	W 103 26 15.80
	577.00	0.43	119.91	576.99	-2.27	-2.26	0.89	0.29	542020.57	817494.60	N 32 29 12.80	W 103 26 15.79
	732.00	0.36	131.53	731.99	-2.89	-2.87	1.76	0.07	542019.96	817495.47	N 32 29 12.80	W 103 26 15.78
	827.00	0.48	102.35	826.99	-3.18	-3.16	2.37	0.25	542019.67	817496.08	N 32 29 12.79	W 103 26 15.77
	921.00	0.96	138.89	920.98	-3.86	-3.83	3.27	0.68	542019.00	817496.98	N 32 29 12.79	W 103 26 15.76
	1016.00	2.09	138.95	1015.94	-5.78	-5.74	4.94	1.19	542017.09	817498.65	N 32 29 12.77	W 103 26 15.75
	1110.00	3.21	146.37	1109.84	-9.29	-9.22	7.52	1.24	542013.61	817501.23	N 32 29 12.73	W 103 26 15.72
	1205.00	4.47	143.70	1204.63	-14.51	-14.42	11.18	1.34	542008.41	817504.89	N 32 29 12.68	W 103 26 15.67
	1299.00	4.64	142.78	1298.33	-20.53	-20.40	15.65	0.20	542002.43	817509.36	N 32 29 12.62	W 103 26 15.62
	1394.00	4.16	143.12	1393.05	-26.38	-26.22	20.04	0.51	541996.61	817513.75	N 32 29 12.56	W 103 26 15.57
	1489.00	3.29	139.53	1487.85	-31.25	-31.05	23.88	0.95	541991.78	817517.59	N 32 29 12.52	W 103 26 15.53
	1583.00	2.31	143.05	1581.74	-34.84	-34.61	26.77	1.06	541988.22	817520.48	N 32 29 12.48	W 103 26 15.49
	1678.00	2.09	138.94	1676.87	-37.69	-37.45	29.06	0.28	541985.38	817522.77	N 32 29 12.45	W 103 26 15.47
	1772.00	2.57	134.26	1770.59	-40.48	-40.21	31.70	0.55	541982.62	817525.41	N 32 29 12.42	W 103 26 15.44
	1867.00	4.85	137.09	1865.38	-44.94	-44.64	35.96	2.41	541978.19	817529.67	N 32 29 12.38	W 103 26 15.39
	1961.00	7.01	135.53	1958.87	-52.00	-51.65	42.68	2.30	541971.18	817536.39	N 32 29 12.31	W 103 26 15.31
	2056.00	6.23	135.02	2053.24	-59.85	-59.43	50.39	0.82	541963.40	817544.09	N 32 29 12.23	W 103 26 15.22
	2150.00	6.28	135.41	2146.68	-67.18	-66.70	57.60	0.07	541956.13	817551.31	N 32 29 12.16	W 103 26 15.14
	2245.00	7.70	130.11	2240.97	-75.05	-74.50	66.12	1.64	541948.33	817559.82	N 32 29 12.08	W 103 26 15.04
	2339.00	7.16	120.54	2334.19	-82.17	-81.53	75.98	1.43	541941.30	817569.69	N 32 29 12.01	W 103 26 14.92
	2434.00	6.33	104.09	2428.54	-86.54	-85.82	86.16	2.20	541937.01	817579.87	N 32 29 11.97	W 103 26 14.80
	2528.00	6.80	84.28	2521.93	-87.33	-86.52	96.72	2.45	541936.31	817590.43	N 32 29 11.96	W 103 26 14.68
	2623.00	6.88	85.79	2616.26	-86.45	-85.55	107.89	0.21	541937.28	817601.70	N 32 29 11.97	W 103 26 14.55
	2717.00	7.08	93.15	2709.56	-86.45	-85.45	119.38	0.97	541937.38	817613.09	N 32 29 11.97	W 103 26 14.42
	2812.00	7.20	95.02	2803.83	-87.39	-86.29	131.14	0.28	541936.54	817624.85	N 32 29 11.96	W 103 26 14.28
	2906.00	7.33	92.81	2897.07	-88.30	-87.10	142.99	0.33	541935.73	817636.70	N 32 29 11.95	W 103 26 14.14
	3001.00	7.32	92.54	2991.30	-88.96	-87.67	155.09	0.04	541935.16	817648.80	N 32 29 11.94	W 103 26 14.00
	3095.00	7.40	95.60	3084.53	-89.92	-88.52	167.10	0.43	541934.31	817660.81	N 32 29 11.94	W 103 26 13.86
	3190.00	7.33	93.14	3178.74	-90.95	-89.45	179.24	0.34	541933.38	817672.95	N 32 29 11.93	W 103 26 13.72
	3284.00	7.20	91.70	3271.99	-91.55	-89.96	191.11	0.24	541932.88	817684.82	N 32 29 11.92	W 103 26 13.58
	3379.00	7.11	90.86	3366.25	-91.92	-90.22	202.94	0.15	541932.61	817696.65	N 32 29 11.92	W 103 26 13.44
	3473.00	7.27	92.70	3459.51	-92.38	-90.59	214.70	0.30	541932.24	817708.41	N 32 29 11.91	W 103 26 13.30
	3568.00	7.55	91.33	3553.71	-92.91	-91.02	226.95	0.35	541931.82	817720.65	N 32 29 11.91	W 103 26 13.16
	3662.00	7.29	93.34	3646.93	-93.51	-91.51	239.07	0.39	541931.32	817732.78	N 32 29 11.90	W 103 26 13.02
	3757.00	6.32	92.30	3741.26	-94.16	-92.07	250.31	1.03	541930.76	817744.02	N 32 29 11.89	W 103 26 12.89
	3851.00	5.51	93.14	3834.76	-94.70	-92.52	259.99	0.87	541930.31	817753.70	N 32 29 11.89	W 103 26 12.78
	3946.00	5.69	93.81	3928.30	-95.34	-93.08	269.24	0.20	541929.75	817762.95	N 32 29 11.88	W 103 26 12.67
	4040.00	4.98	94.05	4022.89	-96.01	-93.68	277.96	0.78	541929.15	817771.67	N 32 29 11.87	W 103 26 12.57
	4135.00	5.10	95.22	4117.53	-96.75	-94.36	286.28	0.17	541928.47	817779.99	N 32 29 11.87	W 103 26 12.47
	4229.00	5.06	102.21	4211.16	-98.08	-95.61	294.49	0.66	541927.22	817788.20	N 32 29 11.85	W 103 26 12.37
	4323.00	5.01	95.10	4304.80	-99.39	-96.86	302.63	0.67	541925.97	817796.34	N 32 29 11.84	W 103 26 12.28
	4418.00	4.85	91.68	4399.14	-99.85	-97.35	310.86	0.32	541925.49	817804.57	N 32 29 11.84	W 103 26 12.18
	4512.00	4.69	91.37	4493.41	-100.22	-97.58	318.76	0.28	541925.27	817812.47	N 32 29 11.83	W 103 26 12.09
	4607.00	4.73	93.05	4587.79	-100.59	-97.86	326.55	0.15	541924.97	817820.26	N 32 29 11.83	W 103 26 12.00
	4701.00	4.65	94.20	4681.47	-101.14	-98.34	334.22	0.13	541924.49	817827.93	N 32 29 11.82	W 103 26 11.91
	4796.00	4.30	90.28	4776.18	-101.50	-98.64	341.62	0.49	541924.19	817835.33	N 32 29 11.82	W 103 26 11.82
	4890.00	4.15	88.24	4869.93	-101.47	-98.55	348.55	0.23	541924.28	817842.26	N 32 29 11.82	W 103 26 11.74
	4984.00	4.47	89.06	4963.66	-101.37	-98.39	355.61	0.35	541924.44	817849.32	N 32 29 11.82	W 103 26 11.66
	5078.00	3.96	85.92	5057.41	-101.13	-98.10	362.51	0.60	541924.73	817856.22	N 32 29 11.82	W 103 26 11.58
	5172.00	4.18	84.75	5151.17	-100.64	-97.55	369.16	0.25	541925.28	817862.87	N 32 29 11.83	W 103 26 11.50
	5267.00	4.12	81.83	5245.92	-99.90	-96.75	375.99	0.23	541926.08	817869.69	N 32 29 11.84	W 103 26 11.42
	5361.00	4.50	89.28	5339.65	-99.43	-96.23	383.01	0.72	541926.60	817876.72	N 32 29 11.84	W 103 26 11.34
	5456.00	5.08	90.36	5414.39	-99.47	-96.21	389.28	0.78	541926.62	817882.99	N 32 29 11.84	W 103 26 11.27
	5507.00	4.65	91.24	5485.14	-99.60	-96.29	395.30	0.61	541926.54	817889.01	N 32 29 11.84	W 103 26 11.20
	5601.00	4.78	90.68	5578.82	-99.79	-96.42	403.02	0.15	541926.41	817896.73	N 32 29 11.84	W 103 26 11.11
	5696.00	4.91	90.17	5673.48	-99.82	-96.48	411.05	0.14	541926.35	817904.75	N 32 29 11.84	W 103 26 11.01
	5790.00	4.72	93.78	5767.15	-100.25	-96.75	418.93	0.38	541926.08	817912.64	N 32 29 11.83	W 103 26 10.92
	5885.00	4.90	88.30	5861.81	-101.16	-97.59	426.84	0.44	541925.24	817920.55	N 32 29 11.82	W 103 26 10.83
	5980.00	5.04	88.87	5956.46	-102.46	-98.82	434.98	0.16	541924.01	817928.69	N 32 29 11.81	W 103 26 10.73
	6074.00	4.70	97.12	6050.12	-103.64	-99.93	442.88	0.39	541922.90	817936.59	N 32 29 11.80	W 103 26 10.64
	6169.00	4.72	98.42	6144.80	-104.76	-100.89	450.61	0.11	541921.84	817944.32	N 32 29 11.79	W 103 26 10.55
	6263.00	4.80	98.22	6238.47	-105.95	-102.12	458.33	0.09	541920.71	817952.04	N 32 29 11.78	W 103 26 10.46
	6358.00	4.84	94.97	6333.14	-106.94	-103.03	466.26	0.29	541919.80	817959.96	N 32 29 11.77	W 103 26 10.37
	6452.00	5.13	93.05	6426.78	-107.57	-103.60	474.40	0.36	541919.23	817968.11	N 32 29 11.76	W 103 26 10.27
	6547.00	4.96	100.50	6521.41	-108.61	-104.57	482.68	0.71	541918.26	817976.39	N 32 29 11.75	W 103 26 10.18
	6641.00	5.45	103.00	6615.02	-110.43	-106.32	491.03	0.57	541916.51	817984.74	N 32 29 11.73	W 103 26 10.08
	6735.00	5.55	101.52	6708.59	-112.41	-108.23	499.83	0.18	541914.60	817993.54	N 32 29 11.71	W 103 26 9.98
	6830											

Comments	MD (ft)	Incl (°)	Azim Grd (°)	TVD (m)	VSEC (m)	NS (m)	EW (m)	DLS (°/100ft)	Northing (m)	Easting (m)	Latitude (N/S ° ° ' '')	Longitude (E/W ° ° ' '')
	7209.00	4.72	81.08	7180.78	-119.75	-115.22	540.49	0.79	541907.61	818034.19	N 32 29 11.64	W 103 26 9.50
	7304.00	4.26	82.93	7275.49	-120.06	-115.47	547.92	0.51	541907.36	818041.62	N 32 29 11.64	W 103 26 9.42
	7399.00	3.97	85.39	7370.24	-120.61	-115.86	554.72	0.38	541906.87	818048.42	N 32 29 11.63	W 103 26 9.34
	7493.00	3.83	103.21	7444.03	-121.68	-116.59	561.01	0.58	541905.84	818054.72	N 32 29 11.62	W 103 26 9.26
	7588.00	3.99	83.83	7558.81	-122.11	-117.36	567.39	1.39	541905.47	818061.09	N 32 29 11.62	W 103 26 9.19
	7682.00	4.38	86.52	7652.56	-121.72	-116.81	574.23	0.55	541905.92	818067.83	N 32 29 11.62	W 103 26 9.11
	7777.00	4.10	83.36	7747.30	-121.86	-117.02	581.24	0.48	541905.81	818074.85	N 32 29 11.62	W 103 26 9.03
	7871.00	3.54	95.75	7841.09	-122.42	-117.51	587.49	0.62	541905.32	818081.19	N 32 29 11.61	W 103 26 8.96
	7966.00	3.04	95.01	7935.93	-122.98	-118.02	592.91	0.53	541904.81	818086.62	N 32 29 11.61	W 103 26 8.89
	8061.00	3.15	93.51	8030.80	-123.41	-118.40	598.03	0.14	541904.43	818091.73	N 32 29 11.60	W 103 26 8.83
	8155.00	3.65	103.93	8124.63	-124.33	-119.28	603.51	0.84	541903.55	818097.22	N 32 29 11.59	W 103 26 8.77
	8250.00	2.29	86.43	8219.50	-124.98	-119.89	608.34	1.70	541902.94	818102.05	N 32 29 11.59	W 103 26 8.71
	8344.00	2.86	81.62	8313.41	-124.56	-119.43	612.53	0.65	541903.40	818106.24	N 32 29 11.59	W 103 26 8.66
	8439.00	2.62	87.65	8408.30	-124.16	-118.99	617.05	0.39	541903.84	818110.75	N 32 29 11.60	W 103 26 8.61
	8533.00	1.71	100.73	8502.23	-124.36	-119.17	620.57	1.10	541903.66	818114.28	N 32 29 11.59	W 103 26 8.57
	8628.00	1.77	113.87	8597.19	-125.24	-120.03	623.31	0.42	541902.81	818117.01	N 32 29 11.59	W 103 26 8.54
	8722.00	2.79	78.93	8691.12	-125.42	-120.17	626.88	1.78	541902.66	818120.59	N 32 29 11.58	W 103 26 8.50
	8816.00	2.69	85.18	8785.01	-124.83	-119.55	631.32	0.33	541903.28	818125.03	N 32 29 11.59	W 103 26 8.44
	8911.00	1.60	99.35	8879.94	-124.89	-119.58	634.85	1.27	541903.25	818128.56	N 32 29 11.59	W 103 26 8.40
	9005.00	1.97	110.40	8973.90	-125.69	-120.35	637.66	0.54	541902.48	818131.37	N 32 29 11.58	W 103 26 8.37
	9100.00	2.12	124.21	9068.84	-127.27	-121.91	640.65	0.54	541900.92	818134.35	N 32 29 11.57	W 103 26 8.34
	9194.00	1.56	164.06	9162.79	-129.50	-124.12	642.44	1.45	541898.71	818136.14	N 32 29 11.54	W 103 26 8.31
	9289.00	0.83	147.35	9257.77	-131.33	-125.94	643.16	0.84	541896.89	818136.87	N 32 29 11.53	W 103 26 8.31
	9383.00	3.46	69.75	9351.71	-130.94	-125.53	646.19	3.60	541897.30	818139.90	N 32 29 11.53	W 103 26 8.27
	9478.00	5.16	67.34	9446.44	-128.36	-122.89	652.82	1.80	541899.94	818146.53	N 32 29 11.55	W 103 26 8.19
	9572.00	4.40	69.76	9540.11	-125.54	-120.02	660.11	0.84	541902.81	818153.81	N 32 29 11.58	W 103 26 8.11
	9651.00	3.26	82.61	9618.93	-124.25	-118.68	665.18	1.80	541904.15	818158.89	N 32 29 11.60	W 103 26 8.05
	9685.00	3.39	81.89	9652.87	-124.00	-118.41	667.13	0.40	541904.42	818160.84	N 32 29 11.60	W 103 26 8.03
	9779.00	10.58	63.15	9746.12	-119.79	-114.12	677.60	7.92	541908.71	818171.30	N 32 29 11.64	W 103 26 7.90
	9826.00	15.29	61.19	9791.92	-114.93	-109.18	686.88	10.06	541913.65	818180.59	N 32 29 11.69	W 103 26 7.79
	9873.00	18.50	55.30	9836.89	-107.80	-101.95	696.45	7.73	541920.88	818192.15	N 32 29 11.76	W 103 26 7.66
	9968.00	28.72	49.27	9923.83	-84.51	-78.41	728.22	11.04	541944.42	818221.92	N 32 29 11.99	W 103 26 7.31
	10062.00	36.53	46.65	10002.94	-50.83	-44.41	765.74	8.44	541978.42	818259.44	N 32 29 12.32	W 103 26 6.87
	10157.00	48.09	42.74	10073.09	-5.67	1.12	810.45	12.47	542023.85	818304.15	N 32 29 12.77	W 103 26 6.34
	10251.00	53.77	34.75	10132.37	50.89	58.06	855.88	8.94	542080.89	818349.58	N 32 29 13.33	W 103 26 5.81
	10346.00	60.33	25.34	10184.09	119.52	127.03	895.49	10.80	542149.86	818389.19	N 32 29 14.01	W 103 26 5.34
	10439.00	66.33	20.58	10225.84	195.75	203.53	927.78	7.92	542226.36	818421.48	N 32 29 14.76	W 103 26 4.95
	10533.00	71.97	17.97	10259.29	278.40	288.42	956.71	6.53	542309.25	818450.42	N 32 29 15.58	W 103 26 4.61
	10628.00	74.30	16.12	10286.85	365.08	373.33	983.35	3.08	542396.16	818477.05	N 32 29 16.44	W 103 26 4.29
	10722.00	82.52	10.47	10305.73	454.42	462.85	1004.43	10.54	542485.68	818498.14	N 32 29 17.32	W 103 26 4.03
	10817.00	84.00	6.93	10318.88	547.54	556.09	1018.70	4.02	542578.92	818512.40	N 32 29 18.24	W 103 26 3.86
	10911.00	85.04	6.30	10325.86	640.39	649.04	1029.48	1.29	542671.88	818523.18	N 32 29 18.16	W 103 26 3.72
	11006.00	88.83	6.02	10330.94	734.60	743.34	1036.65	4.00	542766.16	818533.36	N 32 29 20.09	W 103 26 3.59
	11100.00	91.75	6.40	10330.46	827.95	838.77	1049.82	3.13	542859.60	818543.52	N 32 29 21.02	W 103 26 3.46
	11199.00	92.21	2.44	10327.04	926.51	935.40	1057.44	4.02	542958.22	818551.15	N 32 29 21.97	W 103 26 3.37
	11389.00	90.43	357.49	10322.88	1116.38	1125.28	1057.32	2.77	543148.11	818551.03	N 32 29 23.87	W 103 26 3.35
	11483.00	90.43	357.48	10321.96	1210.32	1219.19	1053.18	0.03	543242.01	818548.89	N 32 29 24.80	W 103 26 3.39
	11578.00	90.26	358.70	10321.38	1305.29	1314.13	1050.00	1.32	543336.95	818543.70	N 32 29 25.74	W 103 26 3.42
	11672.00	89.43	359.53	10321.64	1399.28	1408.12	1048.55	1.25	543430.94	818542.25	N 32 29 26.67	W 103 26 3.42
	11767.00	89.51	0.44	10322.52	1494.28	1503.11	1048.52	0.99	543525.93	818542.23	N 32 29 27.61	W 103 26 3.41
	11861.00	89.11	0.11	10323.65	1588.26	1597.10	1048.98	0.55	543619.93	818542.68	N 32 29 28.54	W 103 26 3.40
	11956.00	89.51	1.06	10324.79	1683.24	1692.09	1049.95	1.08	543714.91	818543.65	N 32 29 29.48	W 103 26 3.38
	12050.00	89.46	1.23	10325.64	1777.19	1786.07	1051.82	0.19	543808.89	818545.53	N 32 29 30.41	W 103 26 3.35
	12145.00	89.54	1.14	10326.47	1872.15	1881.04	1053.79	0.13	543903.86	818547.49	N 32 29 31.35	W 103 26 3.32
	12240.00	89.20	1.02	10327.51	1967.11	1976.02	1055.58	0.38	543998.84	818549.28	N 32 29 32.29	W 103 26 3.29
	12334.00	88.40	1.06	10328.48	2061.05	2069.88	1057.28	0.85	544092.80	818550.89	N 32 29 33.22	W 103 26 3.26
	12429.00	87.31	1.07	10333.04	2155.95	2164.80	1058.05	1.15	544187.72	818552.75	N 32 29 34.16	W 103 26 3.23
	12523.00	86.51	1.30	10338.10	2249.78	2258.74	1060.99	0.89	544281.56	818554.69	N 32 29 35.09	W 103 26 3.19
	12618.00	86.36	1.25	10344.01	2344.55	2353.54	1063.10	0.17	544376.35	818556.80	N 32 29 36.02	W 103 26 3.16
	12712.00	86.42	1.29	10349.93	2438.32	2447.33	1065.18	0.08	544470.14	818558.88	N 32 29 36.95	W 103 26 3.13
	12807.00	87.11	358.21	10355.29	2533.15	2542.16	1064.76	3.32	544564.98	818558.47	N 32 29 37.89	W 103 26 3.12
	12901.00	86.91	357.39	10360.19	2626.98	2635.96	1061.16	0.90	544658.78	818554.86	N 32 29 38.82	W 103 26 3.15
	12995.00	87.08	357.33	10365.12	2720.79	2729.73	1056.84	0.19	544752.55	818550.54	N 32 29 39.75	W 103 26 3.20
	13091.00	86.88	358.16	10370.18	2816.61	2825.53	1053.06	0.89	544848.34	818546.77	N 32 29 40.69	W 103 26 3.23
	13184.00	87.08	358.38	10375.08	2909.45	2918.35	1050.26	0.32	544941.17	818543.97	N 32 29 41.61	W 103 26 3.25
	13279.00	86.99	358.20	10379.99	3004.30	3013.19	1047.43	0.21	545036.00	818541.13	N 32 29 42.55	W 103 26 3.28
	13373.00	86.96	356.38	10384.96	3098.10	3106.95	1042.99	1.93	545129.76	818536.70	N 32 29 43.48	W 103 26 3.32
	13468.00	86.88	357.89	10390.06	3192.88	3201.69	1038.33	1.69	545224.50	818532.04	N 32 29 44.42	W 103 26 3.37
	13562.00	86.96	358.34	10395.11	3286.72	3295.51	1035.33	0.38	545318.32	818529.03	N 32 29 45.35	W 103 26 3.39
	13657.00	86.91	357.36	10400.19	3381.54	3390.30	1031.77	1.03	545413.11	818525.47	N 32 29 46.28	W 103 26 3.42
	13751.00	87.51	1.06	10404.77	3475.41	3484.17	1030.48	3.98	545506.98	818524.18	N 32 29 47.21	W 103 26 3.43
	13846.00	87.42	0.82	10408.97	3570.29	3579.06	1032.03	0.27	545601.87	818525.74	N 32 29 48.15	W 103 26 3.40
	13940.00	87.51	1.44	10413.13	3664.16	3672.95	1033.88	0.67	545695.76	818527.59	N 32 29 49.08	W 103 26 3.37
	14035.00	87.45	1.37	10417.30	3759.02	3767.83	1036.21	0.10	545790.64	818529.92	N 32 29 50.02	W 103 26 3.33
	14129.00	87.48	0.97	10421.46	3852.88	3861.72	1038.13	0.43	545884.53	818531.83	N 32 29 50.95	W 103 26 3.30
	14223.00	87.42	0.91	10425.64	3946.76	3955.61	1039.67	0.09	545978.42	818533.37	N 32 29 51.88	W 103 26 3.28
	14318.00	87.42	0.61	1042								

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 ° ' ")
	17438.00	88.85	0.56	10463.50	7159.50	7168.21	1009.80	0.24	549191.00	818503.60	N 32 30 23.67	W 103 26 3.31
	17533.00	89.03	0.56	10465.28	7254.46	7263.19	1010.91	0.22	549285.98	818504.62	N 32 30 24.61	W 103 26 3.29
	17627.00	89.03	0.24	10468.85	7348.44	7357.17	1011.57	0.34	549379.98	818505.27	N 32 30 25.54	W 103 26 3.27
	17722.00	89.34	0.05	10468.20	7443.42	7452.16	1011.81	0.38	549474.95	818505.51	N 32 30 26.48	W 103 26 3.26
Last SLB MWD Survey	17753.00	88.85	0.48	10468.69	7474.42	7483.16	1011.95	2.10	549505.95	818505.66	N 32 30 26.76	W 103 26 3.25
Proj. to TD	17844.00	88.85	0.48	10470.51	7565.39	7574.14	1012.71	0.00	549596.92	818506.42	N 32 30 27.68	W 103 26 3.23

Survey Type: Def Survey

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)	Survey Tool Type	Borehole / Survey
	1	0.000	31.000	1/98.425	30.000	30.000	NAL_MWD_1.0_DEG-Depth Only	Original Borehole / Chisholm Outland State Unit 11-2 2BS 2H MWD 0-17844'
	1	31.000	31.000	Act Stns	30.000	30.000	NAL_MWD_1.0_DEG-Depth Only	Original Borehole / Chisholm Outland State Unit 11-2 2BS 2H MWD 0-17844'
	1	31.000	17844.000	Act Stns	30.000	30.000	NAL_MWD_1.0_DEG	Original Borehole / Chisholm Outland State Unit 11-2 2BS 2H

...Original Borehole\Chisholm Outland State Unit 11-2 2BS 2H MWD 0-17844'