

Chisholm Laguna 23 Fed Com 2BS 4H MWD Surveys 0ft to 15458ft MD

Survey Geodetic Report

(Def Survey)

Report Date: October 09, 2019 - 10:59 AM
 Client: Chisholm
 Field: NM Lea County (NAD 83)
 Structure / Slot: Chisholm Laguna 23 Fed Com 2BS 4H / New Slot
 Well: Chisholm Laguna 23 Fed Com 2BS 4H
 Borehole: Original Borehole
 UWI / API#: Unknown / Unknown
 Survey Name: Chisholm Laguna 23 Fed Com 2BS 4H MWD Surveys 0ft to 15458ft MD
 Survey Date: September 13, 2019
 Tort / AHD / DDI / ERD Ratio: 202.971' / 5489.131 ft / 6.212 / 0.519
 Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
 Location Lat / Long: N 32° 33' 5.42904", W 103° 32' 16.19157"
 Location Grid N/E Y/X: N 565284.900 RUS, E 786448.600 RUS
 CRS Grid Convergence Angle: 0.4280°
 Grid Scale Factor: 0.9999779
 Version / Patch: 2.10.782.0

Survey / DLS Computation: Minimum Curvature / Lubinski
 Vertical Section Azimuth: 359.523° (Grid North)
 Vertical Section Origin: 0.000 ft, 0.000 ft
 TVD Reference Datum: RKB
 TVD Reference Elevation: 3712.000 ft above MSL
 Seabed / Ground Elevation: 3680.000 ft above MSL
 Magnetic Declination: 6.537°
 Total Gravity Field Strength: 998.4967mgm (9.80665 Based)
 Gravity Model: GARM
 Total Magnetic Field Strength: 48073.690 nT
 Magnetic Dip Angle: 60.421°
 Declination Date: September 03, 2019
 Magnetic Declination Model: HDGM 2019
 North Reference: Grid North
 Grid Convergence Used: 0.4280°
 Total Corr Mag North->Grid: 6.1090°
 North: Well Head
 Local Coord Referenced To: Well Head

HOBBS OCD
DEC 09 2019
RECEIVED

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	0.00	0.00	0.00	0.00	0.00	N/A	565284.90	786448.60	N 32 33 5.43	W 103 32 16.19
First SLB MWD Survey	160.00	0.25	199.57	160.00	-0.33	-0.33	-0.12	0.16	565284.57	786448.48	N 32 33 5.43	W 103 32 16.19
	349.00	0.23	113.91	349.00	-0.87	-0.87	0.09	0.17	565284.03	786449.89	N 32 33 5.42	W 103 32 16.19
	443.00	0.36	166.04	443.00	-1.24	-1.23	0.34	0.30	565283.67	786449.94	N 32 33 5.42	W 103 32 16.19
	539.00	0.53	164.07	539.00	-1.96	-1.95	0.53	0.18	565282.95	786450.13	N 32 33 5.41	W 103 32 16.19
	615.00	0.48	168.57	614.99	-2.61	-2.60	0.89	0.08	565282.30	786450.29	N 32 33 5.40	W 103 32 16.18
	711.00	0.45	128.48	710.99	-3.24	-3.23	1.06	0.33	565281.67	786450.66	N 32 33 5.40	W 103 32 16.18
	807.00	0.18	139.61	806.99	-3.58	-3.57	1.45	0.31	565281.33	786451.05	N 32 33 5.39	W 103 32 16.17
	901.00	0.48	167.95	900.99	-4.07	-4.05	1.61	0.37	565280.85	786451.21	N 32 33 5.39	W 103 32 16.17
	995.00	0.45	170.70	994.98	-4.82	-4.80	1.78	0.04	565280.10	786451.36	N 32 33 5.38	W 103 32 16.17
	1185.00	0.55	168.40	1184.98	-6.45	-6.43	2.06	0.05	565278.47	786451.66	N 32 33 5.37	W 103 32 16.17
	1680.00	0.29	210.29	1679.98	-9.86	-9.84	1.91	0.08	565275.06	786451.51	N 32 33 5.33	W 103 32 16.17
	1755.00	0.18	162.73	1754.96	-10.13	-10.12	1.84	0.29	565274.78	786451.44	N 32 33 5.33	W 103 32 16.17
	1847.00	0.78	284.38	1846.96	-10.12	-10.11	1.30	0.94	565274.80	786450.90	N 32 33 5.33	W 103 32 16.18
	1941.00	2.32	288.88	1940.92	-9.33	-9.33	-1.11	1.66	565275.57	786448.49	N 32 33 5.34	W 103 32 16.21
	2036.00	3.77	290.08	2035.79	-7.59	-7.84	-5.86	1.53	565277.26	786443.74	N 32 33 5.35	W 103 32 16.26
	2131.00	5.38	280.12	2130.48	-5.88	-5.79	-13.18	1.88	565279.12	786438.42	N 32 33 5.37	W 103 32 16.35
	2226.00	6.87	281.73	2224.94	-3.85	-3.85	-23.13	1.58	565281.05	786426.47	N 32 33 5.39	W 103 32 16.46
	2321.00	7.35	283.99	2319.21	-0.94	-1.22	-34.59	0.58	565283.68	786415.01	N 32 33 5.42	W 103 32 16.60
	2417.00	7.01	284.19	2414.45	2.08	1.70	-48.22	0.38	565288.60	786403.38	N 32 33 5.45	W 103 32 16.73
	2510.00	7.06	284.79	2506.75	5.02	4.55	-57.25	0.10	565289.45	786392.35	N 32 33 5.48	W 103 32 16.86
	2605.00	7.08	285.15	2601.03	8.14	7.57	-68.55	0.05	565292.47	786381.05	N 32 33 5.51	W 103 32 16.99
	2700.00	6.19	284.37	2695.39	11.03	10.37	-79.16	0.94	565295.27	786370.44	N 32 33 5.54	W 103 32 17.12
	2794.00	5.59	284.24	2788.90	13.49	12.75	-88.51	0.64	565297.65	786361.09	N 32 33 5.56	W 103 32 17.22
	2890.00	4.77	285.69	2884.50	15.79	14.98	-96.88	0.86	565299.88	786352.72	N 32 33 5.58	W 103 32 17.32
	2984.00	4.79	277.26	2978.18	17.41	16.54	-104.54	0.75	565301.44	786345.06	N 32 33 5.60	W 103 32 17.41
	3079.00	4.56	275.83	3072.88	18.34	17.41	-112.23	0.28	565302.31	786337.37	N 32 33 5.61	W 103 32 17.50
	3175.00	3.93	263.10	3168.60	18.38	17.39	-119.30	1.16	565302.29	786330.31	N 32 33 5.61	W 103 32 17.58
	3269.00	3.17	262.55	3262.42	17.70	16.66	-125.07	0.81	565301.56	786324.53	N 32 33 5.60	W 103 32 17.65
	3363.00	2.88	263.94	3356.28	17.15	16.07	-130.08	0.22	565300.97	786319.53	N 32 33 5.60	W 103 32 17.71
	3458.00	2.25	263.36	3451.18	16.71	15.59	-134.39	0.77	565300.49	786315.22	N 32 33 5.59	W 103 32 17.76
	3553.00	1.91	261.65	3546.12	16.29	15.15	-137.80	0.36	565300.05	786311.80	N 32 33 5.59	W 103 32 17.80
	3648.00	2.14	259.22	3641.06	15.76	14.58	-141.11	0.26	565299.48	786308.49	N 32 33 5.58	W 103 32 17.84
	3743.00	2.08	260.59	3736.00	15.17	13.97	-144.56	0.08	565298.87	786305.05	N 32 33 5.58	W 103 32 17.88
	3838.00	2.15	262.86	3830.93	14.70	13.47	-148.03	0.11	565298.37	786301.58	N 32 33 5.57	W 103 32 17.92
	3933.00	2.08	262.94	3925.87	14.29	13.03	-151.50	0.07	565297.93	786298.10	N 32 33 5.57	W 103 32 17.96
	4029.00	2.84	259.98	4021.79	13.73	12.44	-155.41	0.60	565297.33	786294.19	N 32 33 5.56	W 103 32 18.01
	4125.00	3.11	260.85	4117.67	12.97	11.84	-160.16	0.49	565296.54	786289.45	N 32 33 5.56	W 103 32 18.06
	4220.00	3.23	260.22	4212.52	12.15	10.77	-165.34	0.13	565295.87	786284.28	N 32 33 5.55	W 103 32 18.12
	4314.00	3.09	260.16	4306.38	11.31	9.89	-170.45	0.15	565294.79	786279.16	N 32 33 5.54	W 103 32 18.18
	4504.00	2.37	259.00	4496.16	9.76	8.26	-179.35	0.38	565293.16	786270.26	N 32 33 5.52	W 103 32 18.29
	4599.00	2.49	259.17	4591.07	9.03	7.50	-183.30	0.13	565292.40	786266.30	N 32 33 5.52	W 103 32 18.33
	4695.00	2.67	263.01	4686.98	8.40	6.84	-187.57	0.26	565291.74	786262.03	N 32 33 5.51	W 103 32 18.38
	4790.00	2.73	266.14	4781.87	8.01	6.42	-192.02	0.17	565291.32	786257.58	N 32 33 5.51	W 103 32 18.43
	4885.00	2.68	263.43	4876.77	7.65	6.01	-196.49	0.14	565290.91	786253.12	N 32 33 5.50	W 103 32 18.49
	4980.00	2.85	263.80	4971.66	7.19	5.52	-200.88	0.04	565290.42	786248.73	N 32 33 5.50	W 103 32 18.54
	5075.00	1.81	258.96	5066.59	6.70	4.99	-204.53	0.91	565289.89	786245.07	N 32 33 5.49	W 103 32 18.58
	5171.00	1.87	258.88	5162.55	6.16	4.43	-207.39	0.15	565289.33	786242.21	N 32 33 5.49	W 103 32 18.61
	5265.00	1.87	272.17	5256.50	5.98	4.23	-210.27	0.48	565289.13	786239.33	N 32 33 5.49	W 103 32 18.65
	5360.00	1.39	279.87	5351.46	6.26	4.48	-212.96	0.55	565289.38	786236.65	N 32 33 5.49	W 103 32 18.68
	5455.00	1.29	288.22	5446.44	6.81	5.02	-215.11	0.23	565289.92	786234.50	N 32 33 5.48	W 103 32 18.70
	5550.00	1.02	285.56	5541.42	7.38	5.58	-218.94	0.29	565290.48	786232.67	N 32 33 5.50	W 103 32 18.73
	5645.00	1.12	285.34	5636.40	7.87	6.05	-218.65	0.11	565290.95	786230.96	N 32 33 5.51	W 103 32 18.75
	5718.00	1.29	285.12	5709.39	8.28	6.45	-220.13	0.23	565291.35	786229.48	N 32 33 5.51	W 103 32 18.78
	5813.00	1.45	286.58	5804.36	8.92	7.07	-222.31	0.17	565291.97	786227.29	N 32 33 5.52	W 103 32 18.79
	5907.00	1.58	272.76	5898.33	9.35	7.48	-224.75	0.41	565292.38	786224.86	N 32 33 5.52	W 103 32 18.82
	6001.00	0.73	283.56	5992.31	9.57	7.88	-226.62	0.93	565292.58	786222.98	N 32 33 5.52	W 103 32 18.84
	6096.00	0.76	296.12	6087.30	9.99	8.10	-227.78	0.17	565293.00	786221.83	N 32 33 5.53	W 103 32 18.85
	6190.00	2.57	66.34	6181.27	11.10	9.22	-226.41	3.31	565294.12	786223.20	N 32 33 5.54	W 103 32 18.84
	6285.00	3.40	63.47	6276.14	13.18	11.33	-221.93	0.89	565296.23	786227.67	N 32 33 5.56	W 103 32 18.76
	6380.00	3.20	61.03	6370.98	15.68	13.87	-217.09	0.28	565296.77	786232.51	N 32 33 5.58	W 103 32 18.73
	6475.00	2.87	61.75	6465.85	18.05	16.28	-212.68	0.35	565301.18	786236.93	N 32 33 5.61	W 103 32 18.67
	6570.00	2.46	70.56	6560.75	19.83	18.09	-208.66	0.61	565302.99	786240.94	N 32 33 5.62	W 103 32 18.63
	6664.00	1.81	75.72	6654.68	20.83	19.13	-205.32	0.72	565304.03	786244.28	N 32 33 5.63	W 103 32 18.59
	6759.00	1.74	82.81	6749.64	21.36	19.68	-202.44	0.24	565304.58	786247.17	N 32 33 5.64	W 103 32 18.55
	6854.00	1.64	67.40	6844.59	22.04	20.38	-199.75	0.49	565305.28	786249.85	N 32 33 5.65	W 103 32 18.52
	6947.00	1.44	68.95	6937.56	22.95	21.31	-197.43	0.22	565306.21	786252.17	N 32 33 5.65	W 103 32 18.50
	7042.00	1.45	72.60	7032.53	23.72	22.10	-195.17	0.10	565307.00	786254.43	N 32 33 5.66	W 103 32 18.47
	7137.00	1.46	86.38	7127.50	24.14	22.53	-192.82	0.37	565307.43	786256.79	N 32 33 5.67	W 103 32 18.44
	7233.00	3.11	119.96	7223.42	22.89	21.31	-189.34	2.14	565308.21	786260.27	N 32 33 5.65	W 103 32 18.40
	7326.00	3.16	127.02	7316.29	20.05	18.51	-185.11	0.42	565303.41	786264.50	N 32 33 5.63	W 103 32 18.35
	7421.00	2.97	124.07	7411.15	17.06	15.55	-180.98	0.28	565300.45	786268.63	N 32 33 5.60	W 103 32 18.30
	7516.00	3.11	123									

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	7989.00	0.05	43.38	7978.62	7.12	5.77	-181.33	0.40	565290.87	786288.27	N 32 33 5.50	W 103 32 18.08
	8084.00	0.23	43.92	8073.62	7.84	6.30	-180.83	0.44	565291.20	786288.77	N 32 33 5.50	W 103 32 18.07
	8179.00	0.13	338.57	8168.62	7.88	6.54	-180.74	0.23	565291.44	786288.88	N 32 33 5.51	W 103 32 18.07
	8272.00	0.28	174.17	8261.62	7.75	6.41	-180.76	0.44	565291.31	786288.84	N 32 33 5.50	W 103 32 18.07
	8368.00	0.45	178.93	8355.62	7.15	5.81	-180.73	0.18	565290.71	786288.87	N 32 33 5.50	W 103 32 18.07
	8461.00	0.45	222.48	8450.61	6.50	5.18	-180.98	0.35	565290.06	786288.83	N 32 33 5.49	W 103 32 18.07
	8556.00	0.55	219.23	8545.61	5.88	4.54	-181.52	0.11	565289.44	786288.09	N 32 33 5.49	W 103 32 18.08
	8651.00	0.34	269.24	8640.61	5.53	4.18	-182.09	0.44	565289.08	786287.52	N 32 33 5.48	W 103 32 18.08
	8746.00	0.06	242.11	8735.61	5.50	4.15	-182.41	0.30	565289.05	786287.19	N 32 33 5.48	W 103 32 18.09
	8839.00	0.13	276.39	8828.61	5.49	4.14	-182.56	0.09	565289.04	786287.04	N 32 33 5.48	W 103 32 18.09
	8935.00	0.20	83.89	8924.61	5.58	4.23	-182.52	0.33	565289.13	786287.09	N 32 33 5.48	W 103 32 18.09
	9029.00	0.11	157.07	9018.61	5.57	4.22	-182.34	0.25	565289.12	786287.27	N 32 33 5.48	W 103 32 18.09
	9125.00	0.82	243.71	9114.60	5.18	3.83	-182.92	0.88	565288.73	786286.69	N 32 33 5.48	W 103 32 18.09
	9220.00	1.08	295.90	9209.59	5.29	3.92	-184.33	0.91	565288.82	786285.27	N 32 33 5.48	W 103 32 18.11
	9314.00	0.80	294.23	9303.58	5.95	4.57	-185.73	0.30	565289.47	786283.88	N 32 33 5.49	W 103 32 18.13
	9407.00	0.86	265.71	9396.57	6.18	4.79	-187.01	0.44	565289.69	786282.59	N 32 33 5.49	W 103 32 18.14
	9503.00	1.46	239.15	9492.55	5.51	4.11	-188.78	0.82	565289.01	786280.82	N 32 33 5.48	W 103 32 18.16
	9598.00	1.59	221.71	9587.52	3.92	2.50	-170.70	0.51	565287.40	786278.91	N 32 33 5.47	W 103 32 18.19
	9692.00	1.56	224.61	9681.48	2.05	0.82	-172.46	0.09	565285.52	786277.14	N 32 33 5.45	W 103 32 18.21
	9787.00	0.98	212.29	9776.46	0.46	-0.99	-173.81	0.67	565283.91	786275.80	N 32 33 5.43	W 103 32 18.22
	9835.00	0.98	222.95	9824.45	-0.19	-1.64	-174.31	0.38	565283.26	786275.30	N 32 33 5.43	W 103 32 18.23
	9900.00	0.51	335.35	9889.45	-0.33	-1.78	-174.80	1.95	565283.12	786274.80	N 32 33 5.42	W 103 32 18.23
	9929.00	2.89	18.51	9918.43	0.48	-0.97	-174.63	8.77	565283.93	786274.98	N 32 33 5.43	W 103 32 18.23
	9975.00	7.50	18.88	9964.23	4.41	2.97	-173.29	10.02	565287.87	786276.32	N 32 33 5.47	W 103 32 18.22
	10021.00	11.54	9.93	10009.59	11.78	10.35	-171.52	9.33	565295.25	786278.08	N 32 33 5.54	W 103 32 18.19
	10070.00	16.75	8.67	10057.09	23.61	22.20	-169.86	10.75	565307.10	786279.75	N 32 33 5.66	W 103 32 18.17
	10116.00	18.65	9.51	10100.91	37.43	36.04	-167.87	4.54	565320.84	786281.73	N 32 33 5.80	W 103 32 18.15
HL Crossing	10153.79	20.63	5.17	10136.50	50.01	48.63	-166.27	6.50	565333.53	786283.33	N 32 33 5.92	W 103 32 18.13
	10182.00	21.07	4.33	10144.18	52.92	51.54	-168.03	6.50	565338.44	786283.57	N 32 33 5.95	W 103 32 18.13
	10211.00	25.64	1.31	10189.15	72.30	70.93	-165.12	9.84	565355.83	786284.48	N 32 33 6.14	W 103 32 18.11
	10257.00	30.83	1.14	10229.66	94.05	92.68	-164.66	11.28	565377.58	786284.94	N 32 33 6.36	W 103 32 18.11
	10305.00	31.53	5.78	10270.74	118.82	117.47	-163.15	5.21	565402.37	786286.45	N 32 33 6.80	W 103 32 18.09
	10354.00	33.51	8.75	10312.05	144.92	143.59	-159.80	5.19	565428.49	786289.80	N 32 33 6.86	W 103 32 18.05
	10400.00	35.65	9.05	10349.92	170.67	169.38	-155.76	4.67	565454.28	786293.84	N 32 33 7.12	W 103 32 18.00
	10446.00	40.16	9.67	10388.21	198.51	197.28	-151.16	9.84	565482.15	786298.44	N 32 33 7.39	W 103 32 17.94
	10492.00	42.00	10.43	10420.88	228.22	227.02	-145.88	4.14	565511.91	786313.72	N 32 33 7.89	W 103 32 17.88
	10564.00	47.70	13.04	10471.91	277.81	276.69	-135.50	8.32	565561.59	786314.10	N 32 33 8.18	W 103 32 17.75
	10596.00	52.49	13.90	10492.43	301.63	300.56	-129.78	15.11	565585.45	786319.82	N 32 33 8.41	W 103 32 17.68
	10658.00	60.18	13.79	10526.78	351.59	350.82	-117.44	12.40	565635.51	786332.16	N 32 33 8.91	W 103 32 17.53
	10695.00	65.78	13.46	10543.58	383.54	382.64	-109.69	15.16	565667.54	786339.92	N 32 33 9.22	W 103 32 17.44
	10740.00	72.75	13.94	10559.50	424.32	423.51	-99.72	15.52	565708.40	786349.88	N 32 33 9.83	W 103 32 17.32
	10785.00	77.80	10.78	10570.94	466.74	466.00	-90.42	13.12	565750.89	786358.18	N 32 33 10.05	W 103 32 17.21
	10835.00	84.44	8.50	10578.85	515.34	514.88	-82.16	14.02	565799.56	786367.44	N 32 33 10.53	W 103 32 17.11
	10885.00	89.38	4.19	10581.35	564.89	564.27	-76.85	13.10	565849.16	786372.95	N 32 33 11.02	W 103 32 17.04
	10974.00	91.35	0.13	10580.78	653.77	653.18	-73.30	5.07	565938.07	786376.30	N 32 33 11.90	W 103 32 16.99
	11069.00	91.79	357.75	10578.18	748.72	748.12	-75.06	2.55	566033.01	786374.55	N 32 33 12.84	W 103 32 17.00
	11153.00	92.02	356.72	10575.39	832.61	831.98	-79.11	1.26	566116.88	786370.50	N 32 33 13.67	W 103 32 17.04
	11247.00	92.02	356.18	10572.07	926.42	925.74	-84.82	0.57	566210.62	786364.68	N 32 33 14.59	W 103 32 17.10
	11342.00	92.13	355.85	10568.63	1021.17	1020.45	-91.52	0.37	566305.32	786358.08	N 32 33 15.53	W 103 32 17.17
	11437.00	91.35	354.98	10565.75	1115.89	1115.10	-96.11	1.23	566399.97	786350.49	N 32 33 16.47	W 103 32 17.25
	11531.00	90.79	354.43	10563.99	1209.54	1208.68	-107.78	0.83	566493.55	786341.82	N 32 33 17.40	W 103 32 17.35
	11626.00	90.67	353.89	10562.78	1304.11	1303.18	-117.45	0.58	566588.05	786332.15	N 32 33 18.33	W 103 32 17.45
	11720.00	90.84	353.30	10561.55	1397.60	1396.58	-127.93	0.65	566681.45	786321.67	N 32 33 19.26	W 103 32 17.56
	11815.00	90.73	353.74	10560.29	1492.07	1490.97	-138.85	0.50	566775.83	786310.95	N 32 33 20.19	W 103 32 17.68
	11910.00	90.73	354.68	10559.13	1586.86	1585.46	-148.24	0.99	566870.34	786301.37	N 32 33 21.13	W 103 32 17.79
	12005.00	90.73	356.31	10557.92	1681.41	1680.17	-155.70	1.72	566965.03	786293.90	N 32 33 22.06	W 103 32 17.88
	12100.00	90.67	357.89	10556.76	1776.31	1775.04	-160.50	1.66	567059.90	786289.10	N 32 33 23.00	W 103 32 17.91
	12196.00	90.84	359.71	10555.50	1872.29	1871.01	-162.51	1.90	567155.88	786287.09	N 32 33 23.95	W 103 32 17.93
	12288.00	90.78	0.66	10554.20	1964.28	1963.00	-162.22	1.03	567247.85	786287.39	N 32 33 24.88	W 103 32 17.92
	12383.00	89.94	0.73	10553.80	2059.26	2057.99	-161.07	0.89	567342.84	786288.54	N 32 33 25.80	W 103 32 17.89
	12478.00	89.78	1.43	10553.83	2154.22	2152.97	-159.28	0.76	567437.82	786290.33	N 32 33 26.74	W 103 32 17.88
	12573.00	89.78	1.79	10554.20	2249.16	2247.93	-156.61	0.38	567532.78	786293.00	N 32 33 27.68	W 103 32 17.83
	12668.00	89.78	1.51	10554.56	2344.09	2342.89	-153.87	0.29	567627.73	786295.73	N 32 33 28.62	W 103 32 17.78
	12762.00	89.81	1.94	10555.06	2438.02	2436.85	-151.04	0.49	567721.69	786298.56	N 32 33 29.55	W 103 32 17.74
	12855.00	89.72	1.98	10555.80	2530.93	2529.79	-147.86	0.13	567814.63	786301.74	N 32 33 30.47	W 103 32 17.70
	12949.00	89.66	2.97	10556.11	2624.81	2623.70	-143.80	1.06	567908.54	786305.80	N 32 33 31.40	W 103 32 17.64
	13044.00	90.22	2.62	10556.21	2719.65	2718.59	-139.17	0.70	568003.42	786310.43	N 32 33 32.34	W 103 32 17.58
	13139.00	90.11	2.51	10555.94	2814.52	2813.49	-134.92	0.16	568098.32	786314.69	N 32 33 33.28	W 103 32 17.52
	13234.00	90.11	2.13	10555.76	2909.40	2908.41	-131.07	0.40	568193.24	786318.53	N 32 33 34.22	W 103 32 17.47
	13324.00	90.22	1.38	10555.50	2999.33	2998.37	-128.32	0.84	568283.20	786321.29	N 32 33 35.11	W 103 32 17.43
	13423.00	90.28	0.12	10555.07	3089.31	3087.38	-127.02	1.27	568382.18	786322.58	N 32 33 36.08	W 103 32 17.41
	13517.00	90.34	358.84	10554.56	3192.30	3191.35	-127.87	1.38	568476.17	786321.73	N 32 33 37.01	W 103 32 17.41
	13612.00	90.95	356.10	10553.49	3287.23	3286.24	-132.07	2.95	568571.06	786317.54	N 32 33 37.95	W 103 32 17.45
	13705.00	89.83	355.28	10552.85	3380.02	3378.97	-139.05	1.49	568663.79	786310.55	N 32 33 38.87	W 103 32 17.52
	13800.00	89.94	358.30	10553.05	3474.90	3473.81	-144.37	3.18	568758.63	786305.23	N 32 33 39.81	W 103 32 17.58
	13895.00	90.34	358.29	10552.81	3568.87	3568.77	-147.20	0.42	568853.59	786302.40	N 32 33 40.75	W 103 32 17.60
	13991.00	90.78	357.07	10551.87	3665.82	3664.69	-151.09	1.35	568949.50	786298.52		

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 ° ' ")
		1	32.000	1185.000	Act Stns	17.500	13.375	NAL_MWD_1.0_DEG			Original Borehole / Chisholm Laguna 23 Fed Com 2BS 4H	
		1	1185.000	1680.000	1/98.425	17.500	13.375	NAL_MWD_1.0_DEG			Original Borehole / Chisholm Laguna 23 Fed Com 2BS 4H	
		1	1680.000	1685.000	Act Stns	17.500	13.375	NAL_MWD_1.0_DEG			Original Borehole / Chisholm Laguna 23 Fed Com 2BS 4H	
		1	1685.000	5710.000	Act Stns	12.250	9.625	NAL_MWD_1.0_DEG			Original Borehole / Chisholm Laguna 23 Fed Com 2BS 4H	
		1	5710.000	15458.000	Act Stns	6.750	0.000	NAL_MWD_1.0_DEG			Original Borehole / Chisholm Laguna 23 Fed Com 2BS 4H	