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Schlumberger

30-015-44877



Chevron CB SO 15 22 004 No. 2H MWD 0' to 19690' Survey Geodetic Report

(Def Survey)

Report Date: November 28, 2018 - 09:06 AM
Client: Chevron
Field: NM Eddy County (NAD 27)
Structure / Slot: Chevron CB SO 15 22 004 No. 2H / New Slot
Well: CB SO 15 22 004 2H
Borehole: CB SO 15 22 004 2H
UWI / API#: Unknown / Unknown
Survey Name: Chevron CB SO 15 22 004 No. 2H MWD 0' to 19690'
Survey Date: November 08, 2018
Tort / AHD / DDI / ERD Ratio: 263.509' / 10967.162' / 6.774' / 1.147
Coordinate Reference System: NAD27 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 18' 41.82408", W 104° 4' 50.95212"
Location Grid N/E Y/X: N 477175.000 NUS, E 578012.000 NUS
CRS Grid Convergence Angle: 0.1350°
Grid Scale Factor: 0.99991808
Version / Patch: 2.10.740.0

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 179.550° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RGS-268
TVD Reference Elevation: 3034.000 ft above MSL
Seabed / Ground Elevation: 3008.000 ft above MSL
Magnetic Declination: 7.201°
Total Gravity Field Strength: 998.4785mgm (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 47963.555 nT
Magnetic Dip Angle: 60.073°
Declination Date: November 08, 2018
Magnetic Declination Model: HDGM 2018
North Reference: Grid North
Grid Convergence Used: 0.1350°
Total Corr Mag North-to-Grid North: 7.0661°
Local Coord Referenced To: Well Head

NM OIL CONSERVATION
ARTESIA DISTRICT

MAR 08 2019

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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 ° ' ")
Surface Location	0.00	0.00	77.14	0.00	0.00	0.00	0.00	N/A	477175.00	578012.00	N 32 18 41.82	W 104 4 50.95
Begin Third Party MWD Surveys	28.00	0.00	0.00	28.00	0.00	0.00	0.00	0.00	477175.00	578012.00	N 32 18 41.82	W 104 4 50.95
	151.00	1.70	56.20	150.98	-1.00	1.02	1.52	1.38	477176.01	578013.52	N 32 18 41.83	W 104 4 50.93
	235.00	1.90	256.20	234.97	-1.37	1.38	1.20	4.22	477176.38	578013.20	N 32 18 41.84	W 104 4 50.94
	322.00	1.70	244.20	321.92	-0.48	0.47	-1.36	0.49	477175.47	578010.64	N 32 18 41.83	W 104 4 50.97
	412.00	2.90	209.42	411.85	2.05	-2.08	-3.88	1.99	477172.91	578008.32	N 32 18 41.80	W 104 4 51.00
Last Third Party MWD Survey	488.00	1.00	120.06	487.82	4.07	-4.10	-4.05	4.02	477170.90	578007.95	N 32 18 41.78	W 104 4 51.00
	519.00	1.74	213.49	518.81	4.80	-4.83	-4.08	6.64	477170.37	578007.92	N 32 18 41.78	W 104 4 51.00
Begin SLB_MWD Surveys	606.00	0.84	167.83	605.79	6.32	-6.35	-4.67	1.49	477168.65	578007.33	N 32 18 41.78	W 104 4 51.01
	674.00	0.96	96.09	673.78	6.89	-6.92	-4.01	1.52	477168.08	578008.00	N 32 18 41.78	W 104 4 51.00
	767.00	3.26	54.50	766.72	5.49	-5.50	-1.06	2.85	477169.50	578010.92	N 32 18 41.77	W 104 4 50.96
	860.00	4.73	51.48	859.49	1.60	-1.57	4.07	1.60	477173.43	578016.07	N 32 18 41.81	W 104 4 50.90
	953.00	6.18	50.05	952.07	-3.95	4.03	10.91	1.57	477179.03	578022.91	N 32 18 41.86	W 104 4 50.82
	1047.00	7.15	53.19	1045.43	-10.63	10.79	19.47	1.10	477185.78	578031.47	N 32 18 41.93	W 104 4 50.72
	1144.00	8.97	58.21	1141.47	-18.14	18.39	30.73	2.01	477193.38	578042.73	N 32 18 42.01	W 104 4 50.59
	1239.00	8.71	61.35	1235.34	-25.40	25.74	43.34	0.58	477200.73	578055.34	N 32 18 42.06	W 104 4 50.45
	1335.00	7.77	62.67	1330.35	-31.76	32.20	55.49	1.00	477207.20	578067.48	N 32 18 42.14	W 104 4 50.30
	1526.00	8.43	60.18	1519.44	-44.47	45.06	79.10	0.39	477220.09	578091.10	N 32 18 42.27	W 104 4 50.03
	1621.00	7.24	58.88	1613.56	-50.94	51.65	90.27	1.27	477226.64	578102.26	N 32 18 42.33	W 104 4 49.90
	1717.00	7.88	60.99	1708.72	-57.17	57.67	101.20	0.73	477232.96	578113.20	N 32 18 42.40	W 104 4 49.77
	1812.00	8.66	65.93	1802.73	-63.15	64.04	113.43	1.11	477239.04	578125.42	N 32 18 42.46	W 104 4 49.63
	1908.00	8.48	71.41	1897.66	-69.25	69.25	126.74	0.87	477244.24	578136.73	N 32 18 42.51	W 104 4 49.47
	2003.00	8.10	62.57	1991.67	-73.47	74.58	139.32	1.40	477249.56	578151.31	N 32 18 42.56	W 104 4 49.33
	2099.00	8.46	62.38	2090.67	-79.76	80.95	151.58	0.38	477255.94	578163.57	N 32 18 42.62	W 104 4 49.18
	2194.00	8.28	63.06	2180.96	-86.00	87.29	163.87	0.22	477262.28	578175.86	N 32 18 42.68	W 104 4 49.04
	2290.00	8.16	63.35	2275.67	-92.09	93.47	176.12	0.13	477268.47	578188.11	N 32 18 42.74	W 104 4 48.90
	2385.00	8.41	58.74	2369.69	-98.62	100.10	188.09	0.75	477275.09	578200.07	N 32 18 42.81	W 104 4 48.76
	2481.00	9.74	49.30	2464.49	-107.47	109.04	200.25	2.06	477284.03	578212.23	N 32 18 42.90	W 104 4 48.62
	2577.00	9.23	48.19	2559.17	-117.80	119.47	212.14	0.56	477294.46	578224.12	N 32 18 43.00	W 104 4 48.48
	2672.00	9.17	53.43	2652.95	-127.30	129.08	223.90	0.88	477304.05	578236.68	N 32 18 43.10	W 104 4 48.34
	2767.00	9.92	56.01	2746.64	-136.28	138.15	236.78	0.91	477313.13	578248.74	N 32 18 43.19	W 104 4 48.19
	2863.00	9.59	55.49	2841.25	-145.33	147.30	250.21	0.36	477322.29	578262.19	N 32 18 43.28	W 104 4 48.03
	2959.00	8.90	54.65	2936.00	-154.06	156.13	262.86	0.73	477331.11	578274.83	N 32 18 43.36	W 104 4 47.89
	3150.00	8.01	54.44	3124.92	-170.16	172.41	285.73	0.47	477347.40	578297.71	N 32 18 43.52	W 104 4 47.62
	3245.00	7.73	53.07	3219.03	-177.77	180.10	299.22	0.35	477356.09	578308.20	N 32 18 43.60	W 104 4 47.50
	3341.00	8.00	54.20	3314.13	-185.47	187.89	306.80	0.32	477362.67	578318.78	N 32 18 43.68	W 104 4 47.37
	3436.00	8.67	53.35	3308.12	-193.53	196.03	317.91	0.72	477371.01	578329.88	N 32 18 43.75	W 104 4 47.24
	3532.00	8.62	53.22	3502.99	-202.21	204.81	329.66	0.26	477379.79	578341.65	N 32 18 43.84	W 104 4 47.11
	3627.00	8.41	53.79	3596.81	-210.63	213.32	341.18	0.54	477388.30	578353.15	N 32 18 43.93	W 104 4 46.97
	3723.00	7.85	53.82	3691.94	-219.58	221.35	352.12	0.58	477396.34	578364.09	N 32 18 44.01	W 104 4 46.84
	3819.00	7.60	57.00	3787.07	-228.84	228.70	362.73	0.54	477403.88	578374.69	N 32 18 44.06	W 104 4 46.72
	3914.00	7.55	58.88	3881.24	-232.41	235.35	373.34	0.27	477410.33	578385.31	N 32 18 44.14	W 104 4 46.60
	4010.00	6.54	58.09	3978.52	-238.48	241.50	383.38	1.06	477416.48	578395.34	N 32 18 44.20	W 104 4 46.48
	4105.00	5.50	56.15	4070.99	-243.67	248.78	391.84	1.09	477421.74	578403.80	N 32 18 44.26	W 104 4 46.36
	4200.00	5.73	57.78	4165.54	-248.54	251.89	399.72	0.25	477426.67	578411.68	N 32 18 44.31	W 104 4 46.29
	4296.00	5.80	59.81	4261.05	-253.40	256.70	407.96	0.20	477431.68	578419.92	N 32 18 44.35	W 104 4 46.19
	4391.00	5.58	66.43	4355.58	-258.27	261.56	416.03	0.26	477436.52	578428.28	N 32 18 44.40	W 104 4 46.10
	4487.00	4.97	58.89	4451.18	-262.80	266.14	423.57	0.84	477441.12	578436.53	N 32 18 44.45	W 104 4 46.01
	4583.00	4.17	57.24	4546.87	-266.78	270.19	430.06	0.84	477446.15	578442.03	N 32 18 44.49	W 104 4 45.93
	4678.00	2.64	61.54	4641.69	-269.78	273.21	435.11	1.32	477448.16	578447.07	N 32 18 44.52	W 104 4 45.87
	4774.00	1.03	72.32	4737.62	-271.19	274.64	438.10	2.02	477449.62	578450.06	N 32 18 44.53	W 104 4 45.84
	4869.00	0.56	83.78	4832.61	-271.49	274.95	439.37	0.52	477449.93	578451.33	N 32 18 44.53	W 104 4 45.83
	4965.00	0.89	96.52	4928.41	-271.85	275.32	440.31	0.33	477450.29	578452.28	N 32 18 44.54	W 104 4 45.81
	5060.00	0.89	95.83	5023.60	-272.61	276.08	441.36	0.23	477451.06	578453.12	N 32 18 44.55	W 104 4 45.80
	5156.00	0.86	83.07	5119.59	-273.32	276.81	442.46	0.27	477451.78	578454.42	N 32 18 44.55	W 104 4 45.79
	5251.00	0.66	40.35	5214.58	-274.00	277.49	443.32	0.28	477452.47	578455.26	N 32 18 44.56	W 104 4 45.78
	5347.00	0.53	37.81	5310.58	-274.78	278.28	443.98	0.16	477453.25	578456.00	N 32 18 44.57	W 104 4 45.77
	5442.00	0.48	60.25	5405.58	-275.32	278.62	444.58	0.21	477453.80	578456.54	N 32 18 44.57	W 104 4 45.76
	5538.00	0.36	61.43	5501.57	-275.66	279.16	445.19	0.13	477454.14	578457.16	N 32 18 44.58	W 104 4 45.75
	5633.00	0.25	15.52	5596.57	-276.00	279.51	445.51	0.27	477454.48	578457.83	N 32 18 44.58	W 104 4 45.75
	5729.00	0.18	40.29	5692.57	-276.31	279.82	445.95	0.12	477454.80	578458.57	N 32 18 44.58	W 104 4 45.75
	5825.00	0.20	70.90	5788.57	-276.48	279.99	446.32	0.11	477454.97	578459.28	N 32 18 44.58	W 104 4 45.75
	5920.00	0.11	94.07	5883.57	-276.53	280.04	446.17	0.11	477455.05	578459.13	N 32 18 44.59	W 104 4 45.74
	6016.00	0.06	27.11	5979.57	-276.56	280.08	446.28	0.11	477455.05	578459.24	N 32 18 44.59	W 104 4 45.74
	6112.00	0.35	41.88	6075.57	-276.83	280.34	446.50	0.30	477455.32	578459.40	N 32 18 44.59	W 104 4 45.74
	6207.00	0.24	329.04	6170.57	-277.21	280.73	446.59	0.38	477455.70	578459.55	N 32 18 44.59	W 104 4 45.74
	6303.00	0.13	57.19	6266.57	-277.44	280.95	446.58	0.28	477455.94	578459.54	N 32 18 44.59	W 104 4 45.74
	6399.00	0.24	27.18	6361.57	-277.68	281.19	446.76	0.15	477456.17	578459.72	N 32 18 44.60	W 104 4 45.74
	6494.00	0.45	326.13	6457.57	-278.18	281.70	446.95	0.40	477456.87	578459.82	N 32 18 44.60	W 104 4 45.74
	6589.00	0.43	302.27	6552.56	-278.69	282.21	446.17	0.22	477457.18	578459.13	N 32 18 44.61	W 104 4 45.75
	6684.00	0.51	268.42	6647.56	-279.02	282.53	445.47	0.15	477457.51	578459.43	N 32 18 44.61	W 104 4 45.75
	6780.00	0.72	275.77	6743.55	-279.23	282.73	444.46	0.26	477457.70	578459.42	N 32 18 44.61	W 104 4 45.77
	6876.00	0.35	273.18	6839.55	-279.31	282.80	443.57	0.39	477457.78	578459.53	N 32 18 44.61	W 104 4 45.78
	6971.00	0.13	162.72	6934.55	-279.23	282.72	443.31	0.44	4777			

Comments	MD (ft)	Incl (°)	Acim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	7449.00	0.55	211.95	7412.52	-273.98	277.47	443.21	0.46	477452.45	578455.18	N 32 18 44.55 W 104	4 45.78
	7545.00	0.88	196.98	7508.51	-273.05	276.54	442.80	0.21	477451.51	578454.78	N 32 18 44.55 W 104	4 45.79
	7640.00	0.58	234.28	7603.51	-272.24	275.73	442.26	0.43	477450.70	578454.22	N 32 18 44.54 W 104	4 45.79
	7738.00	0.18	252.12	7696.50	-271.93	275.41	441.74	0.41	477450.38	578453.70	N 32 18 44.54 W 104	4 45.80
	7832.00	0.16	280.34	7795.50	-271.91	275.38	441.48	0.09	477450.38	578453.42	N 32 18 44.54 W 104	4 45.80
	7927.00	0.40	185.82	7890.50	-271.60	275.08	441.30	0.47	477450.05	578453.26	N 32 18 44.54 W 104	4 45.80
	8023.00	0.57	180.73	7986.50	-270.79	274.27	441.28	0.18	477449.24	578453.22	N 32 18 44.53 W 104	4 45.80
	8118.00	0.98	180.82	8081.49	-269.52	273.00	441.10	0.45	477447.97	578453.06	N 32 18 44.52 W 104	4 45.81
	8214.00	1.18	192.54	8177.47	-267.75	271.22	440.73	0.21	477446.20	578452.70	N 32 18 44.50 W 104	4 45.81
	8310.00	0.97	206.54	8273.46	-266.07	269.53	440.18	0.35	477444.51	578452.12	N 32 18 44.48 W 104	4 45.82
	8405.00	1.38	202.98	8368.44	-264.30	267.76	439.35	0.44	477442.74	578451.31	N 32 18 44.46 W 104	4 45.83
	8501.00	1.53	216.44	8464.41	-262.22	265.87	438.14	0.39	477440.64	578450.10	N 32 18 44.44 W 104	4 45.84
	8596.00	1.83	214.77	8559.38	-259.96	263.40	436.52	0.32	477438.38	578448.48	N 32 18 44.42 W 104	4 45.86
	8692.00	1.70	197.78	8655.32	-257.36	260.78	435.21	0.58	477435.76	578447.17	N 32 18 44.39 W 104	4 45.87
	8887.00	1.44	210.68	8850.25	-252.51	255.92	433.08	0.22	477430.90	578445.04	N 32 18 44.35 W 104	4 45.90
	8919.00	1.44	210.91	8882.24	-251.83	255.23	432.67	0.02	477430.21	578444.63	N 32 18 44.34 W 104	4 45.90
	9014.00	6.73	161.44	8978.98	-245.51	248.82	433.83	6.21	477432.90	578445.79	N 32 18 44.34 W 104	4 45.89
	9110.00	17.17	187.96	9070.77	-226.23	229.88	438.58	10.95	477404.86	578450.54	N 32 18 44.06 W 104	4 45.84
	9205.00	22.99	168.24	9158.96	-194.27	197.77	445.29	6.13	477372.76	578457.25	N 32 18 43.77 W 104	4 45.76
	9301.00	26.44	176.51	9246.45	-153.02	158.56	450.51	6.78	477331.54	578462.47	N 32 18 43.36 W 104	4 45.70
	9396.00	35.33	174.68	9327.06	-102.99	106.57	454.43	7.32	477281.58	578466.40	N 32 18 42.87 W 104	4 45.65
	9492.00	50.18	176.18	9397.38	-38.17	41.78	458.49	15.50	477216.78	578471.45	N 32 18 42.23 W 104	4 45.60
Heel HL Crossing	9529.00	54.44	177.32	9419.98	-8.93	12.56	461.14	11.76	477187.55	578473.70	N 32 18 41.94 W 104	4 45.58
	9586.00	81.24	178.91	9451.37	40.87	-37.33	462.78	11.76	477137.87	578474.72	N 32 18 41.44 W 104	4 45.56
	9635.00	84.91	180.02	9472.65	82.86	-79.23	463.14	8.09	477095.78	578475.10	N 32 18 41.03 W 104	4 45.56
	9683.00	88.84	180.29	9491.49	127.00	-123.36	463.02	8.20	477051.85	578474.08	N 32 18 40.58 W 104	4 45.56
	9730.00	71.92	179.91	9507.27	171.26	-167.83	462.95	6.80	477007.39	578474.01	N 32 18 40.15 W 104	4 45.56
	9778.00	76.59	179.23	9520.31	217.44	-213.81	463.30	9.78	476961.21	578475.26	N 32 18 39.70 W 104	4 45.56
	9825.00	80.17	179.58	9528.78	263.47	-259.83	463.78	7.71	476915.19	578475.74	N 32 18 39.24 W 104	4 45.56
	9874.00	82.84	180.48	9537.02	311.92	-308.29	463.78	5.78	476866.74	578475.72	N 32 18 38.78 W 104	4 45.56
	9969.00	88.11	182.57	9544.52	406.53	-402.92	461.24	5.98	476772.11	578473.20	N 32 18 37.78 W 104	4 45.59
	10065.00	91.58	182.42	9544.78	502.39	-498.82	457.06	3.62	476676.23	578469.02	N 32 18 36.88 W 104	4 45.64
	10161.00	91.48	182.13	9542.21	598.25	-594.71	453.25	0.32	476580.34	578465.21	N 32 18 35.93 W 104	4 45.69
	10256.00	92.00	182.45	9539.33	693.10	-689.59	449.48	0.64	476485.47	578461.42	N 32 18 34.99 W 104	4 45.73
	10352.00	91.86	182.90	9536.09	788.90	-785.43	444.98	0.49	476389.64	578458.94	N 32 18 34.04 W 104	4 45.78
	10448.00	89.55	180.49	9534.91	884.81	-881.36	442.14	3.48	476293.71	578454.10	N 32 18 33.09 W 104	4 45.82
	10543.00	88.78	180.20	9536.31	979.79	-976.35	441.57	0.89	476198.73	578453.53	N 32 18 32.15 W 104	4 45.83
	10639.00	89.52	179.74	9537.76	1075.77	-1072.34	441.62	0.93	476102.75	578453.58	N 32 18 31.20 W 104	4 45.84
	10734.00	90.45	179.61	9537.78	1170.77	-1167.34	442.18	0.99	476007.76	578454.12	N 32 18 30.28 W 104	4 45.83
	10830.00	90.62	179.16	9536.88	1266.77	-1263.33	443.19	0.50	475911.78	578456.15	N 32 18 29.31 W 104	4 45.82
	10925.00	90.24	178.28	9536.17	1361.78	-1358.32	444.48	0.42	475816.80	578456.44	N 32 18 28.37 W 104	4 45.81
	10950.00	90.31	178.96	9536.05	1366.78	-1363.31	444.85	2.73	475791.80	578456.81	N 32 18 28.13 W 104	4 45.81
	11044.00	90.07	178.40	9535.74	1460.76	-1457.30	445.99	1.68	475697.83	578457.05	N 32 18 27.20 W 104	4 45.80
	11136.00	90.41	178.46	9535.35	1572.74	-1569.27	448.51	0.38	475605.87	578460.47	N 32 18 26.29 W 104	4 45.77
	11228.00	90.38	178.87	9534.72	1664.73	-1661.24	450.66	0.45	475513.90	578462.82	N 32 18 25.38 W 104	4 45.75
	11321.00	89.93	179.01	9534.47	1757.72	-1754.22	452.38	0.51	475420.93	578464.34	N 32 18 24.45 W 104	4 45.73
	11413.00	89.88	179.50	9534.80	1849.72	-1846.21	453.57	0.81	475328.95	578465.53	N 32 18 23.54 W 104	4 45.72
	11508.00	88.97	179.72	9535.91	1942.71	-1939.20	454.21	0.78	475235.96	578466.17	N 32 18 22.62 W 104	4 45.71
	11601.00	88.86	180.48	9537.71	2037.69	-2034.19	454.06	0.79	475140.99	578466.02	N 32 18 21.66 W 104	4 45.72
	11697.00	88.17	180.31	9538.36	2133.68	-2130.17	453.41	0.38	475045.01	578465.37	N 32 18 20.73 W 104	4 45.73
	11793.00	88.93	179.53	9540.95	2229.65	-2226.16	453.55	0.85	474949.04	578465.51	N 32 18 19.78 W 104	4 45.73
	11888.00	88.80	179.64	9542.83	2324.63	-2321.13	454.23	0.18	474854.07	578466.19	N 32 18 18.85 W 104	4 45.72
	12080.00	86.55	179.49	9547.27	2615.58	-2613.08	455.89	0.15	474662.14	578467.85	N 32 18 18.95 W 104	4 45.71
	12175.00	89.28	181.17	9549.07	2811.55	-2808.05	455.14	1.93	474567.10	578467.10	N 32 18 18.01 W 104	4 45.72
	12365.00	80.59	180.09	9550.94	2801.50	-2798.03	453.05	0.99	474377.21	578465.02	N 32 18 14.13 W 104	4 45.75
	12461.00	92.34	179.42	9548.33	2897.48	-2894.01	453.46	2.95	474281.24	578465.43	N 32 18 13.18 W 104	4 45.75
	12557.00	95.08	178.57	9543.11	2893.26	-2889.78	455.14	3.00	474185.48	578467.10	N 32 18 12.23 W 104	4 45.73
	12652.00	93.47	177.39	9538.02	3087.96	-3084.45	458.48	2.11	474090.81	578470.44	N 32 18 11.29 W 104	4 45.70
	12748.00	89.07	175.29	9535.89	3183.75	-3180.20	464.61	5.08	473995.07	578478.57	N 32 18 10.34 W 104	4 45.63
	12843.00	88.62	177.74	9535.81	3278.59	-3275.00	470.38	2.62	473900.28	578482.34	N 32 18 9.41 W 104	4 45.58
	12939.00	88.66	177.86	9537.25	3374.54	-3370.92	474.07	1.09	473804.37	578486.03	N 32 18 8.46 W 104	4 45.52
	13034.00	88.21	178.05	9539.01	3469.48	-3465.84	477.46	1.54	473709.46	578489.42	N 32 18 7.52 W 104	4 45.48
	13130.00	88.38	177.51	9541.03	3565.41	-3561.74	481.18	1.34	473615.56	578493.13	N 32 18 6.57 W 104	4 45.44
	13226.00	90.89	178.72	9546.81	3660.38	-3656.69	484.30	2.04	473518.63	578496.26	N 32 18 5.63 W 104	4 45.41
	13321.00	90.17	177.91	9539.92	3756.35	-3752.64	487.12	1.13	473422.68	578499.08	N 32 18 4.68 W 104	4 45.38
	13416.00	88.52	178.02	9540.18	3851.31	-3847.58	490.50	0.69	473327.75	578502.45	N 32 18 3.74 W 104	4 45.34
	13512.00	88.38	178.85	9541.10	3947.28	-3943.54	493.12	0.88	473231.80	578505.08	N 32 18 2.79 W 104	4 45.32
	13607.00	88.35	177.83	9542.15	4042.26	-4038.49	495.79	0.97	473136.85	578507.74	N 32 18 1.85 W 104	4 45.29
	13703.00	88.59	177.94	9543.88	4138.21	-4134.41	498.25	0.79	473040.94	578511.20	N 32 18 0.90 W 104	4 45.25
	13798.00	89.11	179.09	9545.80	4234.17	-4230.36	501.73	1.31	472945.00	578513.69	N 32 17 59.95 W 104	4 45.22
	13894.00	89.17	180.22	9547.23	4329.18	-4325.35	502.30	1.19	472850.02	578514.26	N 32 17 58.01 W 104	4 45.22
	13990.00	89.66	181.50	9548.21	4425.13	-4421.33	500.86	1.43	472754.05	578512.82	N 32 17 56.06 W 104	4 45.24
	14085.00	90.52	182.60	9548.06	4520.03	-4516.27	497.47	1.47	472658.12	578509.42	N 32 17 57.12 W 104	4 45.28
	14181.00	88.68	181.16	9548.75	4615.95	-4612.21	494.32	2.45	472563.19	578508.27	N 32 17 56.17 W 104	4 45.32
	14278.00	90.90	181.36	9549.94	4710.89	-4707.17	492.23	1.32	472468.23	578504.19	N 32 17 55.23 W 104	4 45.35
	14372.00	90.00	181.42	9550.02	4806.84	-4803.14	489.90	0.12	472372.27	578501.86	N 32 17 54.28 W 104	4 45.38
	14467.00	88.00	180.72	9550.85	4901.80	-4898.12	488.13					

...CB SO 15 22 004 ZH/CB SO 15 22 004 ZH/Chevron CB SO 15 22 004 No. 2H MWD 0' to 19690'

Comments	MD	Incl	Altim GHD	TYD	VSEC	NS	EW	DLS	Heading	Heading	Heading	Latitude	Longitude
	(m)	(°)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(°)	(°)
	17333.00	91.72	176.29	9548.48	7785.22	-7761.55	487.58	1.38	488414.12	578508.54	N	32 17 25.01	W 104 4 45.37
	17428.00	90.52	175.22	9546.02	7859.99	-7856.27	504.61	1.89	488318.41	578516.57	N	32 17 24.07	W 104 4 45.29
	17524.00	90.98	175.75	9545.38	7955.79	-7952.02	511.33	1.66	488222.06	578523.29	N	32 17 23.12	W 104 4 45.21
	17618.00	90.59	177.55	9544.08	8050.70	-8048.90	516.08	0.93	488128.80	578528.01	N	32 17 22.19	W 104 4 45.16
	17715.00	92.10	178.85	9541.84	8148.64	-8142.82	517.07	2.08	488032.88	578531.03	N	32 17 21.24	W 104 4 45.13
	17811.00	90.45	178.87	9539.70	8242.61	-8238.77	520.98	1.72	488032.88	578532.84	N	32 17 20.29	W 104 4 45.11
	17906.00	91.41	179.25	9538.16	8337.59	-8333.74	522.54	1.08	488041.87	578534.50	N	32 17 19.39	W 104 4 45.09
	18007.00	88.89	180.78	9537.81	8428.56	-8424.99	524.99	1.58	488051.01	578534.50	N	32 17 18.39	W 104 4 45.10
	18183.00	88.89	181.05	9539.91	8524.51	-8520.89	520.98	0.30	488055.05	578532.84	N	32 17 18.39	W 104 4 45.10
	18264.00	88.89	180.50	9543.37	8615.44	-8611.72	514.75	0.41	488058.16	578532.84	N	32 17 17.46	W 104 4 45.16
	18349.00	88.00	180.58	9545.68	8691.39	-8687.60	517.47	1.29	488058.16	578528.01	N	32 17 16.57	W 104 4 45.12
	18480.00	88.00	180.78	9547.90	8767.33	-8763.56	514.75	1.68	488072.22	578527.71	N	32 17 15.67	W 104 4 45.17
	18576.00	88.00	180.33	9548.41	8833.74	-8829.97	514.75	1.40	488077.24	578526.22	N	32 17 14.71	W 104 4 45.21
	18671.00	88.00	180.33	9548.41	8902.30	-8898.54	514.75	0.73	488081.25	578526.22	N	32 17 13.72	W 104 4 45.21
	18766.00	90.24	179.86	9548.18	8968.30	-8964.54	514.75	0.36	488086.26	578526.22	N	32 17 12.72	W 104 4 45.21
	18862.00	90.10	179.87	9547.80	9033.30	-9029.54	514.75	0.96	488090.26	578526.22	N	32 17 11.71	W 104 4 45.21
	18954.00	91.89	180.51	9544.90	9095.25	-9091.51	513.77	0.87	488094.31	578526.22	N	32 17 10.83	W 104 4 45.21
	19054.00	91.89	180.36	9543.33	9160.22	-9156.49	513.77	1.57	488099.33	578526.22	N	32 17 9.89	W 104 4 45.21
	19149.00	90.21	180.33	9542.53	9228.21	-9224.47	513.77	0.14	488103.34	578526.22	N	32 17 8.10	W 104 4 45.25
	19245.00	90.34	180.33	9542.53	9296.21	-9292.47	513.77	0.30	488107.35	578526.22	N	32 17 6.10	W 104 4 45.25
	19340.00	90.07	180.25	9542.53	9364.20	-9360.46	513.77	0.43	488111.36	578526.22	N	32 17 4.21	W 104 4 45.26
	19436.00	90.03	179.84	9542.53	9432.20	-9428.46	513.77	0.30	488115.37	578526.22	N	32 17 3.33	W 104 4 45.26
	19531.00	90.07	179.58	9542.53	9500.20	-9496.46	513.77	0.30	488119.38	578526.22	N	32 17 2.12	W 104 4 45.25
	19627.00	90.27	179.53	9542.03	10078.20	-10074.46	513.77	0.21	488123.39	578526.22	N	32 17 1.12	W 104 4 45.25
	19715.00	88.87	179.56	9542.03	10778.20	-10774.46	513.77	0.00	488127.40	578526.22	N	32 17 0.12	W 104 4 45.25
	19807.00	88.87	179.56	9542.03	11478.20	-11474.46	513.77	0.00	488131.41	578526.22	N	32 17 0.12	W 104 4 45.25
	19900.00	88.87	179.56	9542.03	12178.20	-12174.46	513.77	0.00	488135.42	578526.22	N	32 17 0.12	W 104 4 45.25
	19990.00	88.87	179.56	9542.03	12878.20	-12874.46	513.77	0.00	488139.43	578526.22	N	32 17 0.12	W 104 4 45.25
	20080.00	88.87	179.56	9542.03	13578.20	-13574.46	513.77	0.00	488143.44	578526.22	N	32 17 0.12	W 104 4 45.25
	20170.00	88.87	179.56	9542.03	14278.20	-14274.46	513.77	0.00	488147.45	578526.22	N	32 17 0.12	W 104 4 45.25
	20260.00	88.87	179.56	9542.03	14978.20	-14974.46	513.77	0.00	488151.46	578526.22	N	32 17 0.12	W 104 4 45.25
	20350.00	88.87	179.56	9542.03	15678.20	-15674.46	513.77	0.00	488155.47	578526.22	N	32 17 0.12	W 104 4 45.25
	20440.00	88.87	179.56	9542.03	16378.20	-16374.46	513.77	0.00	488159.48	578526.22	N	32 17 0.12	W 104 4 45.25
	20530.00	88.87	179.56	9542.03	17078.20	-17074.46	513.77	0.00	488163.49	578526.22	N	32 17 0.12	W 104 4 45.25
	20620.00	88.87	179.56	9542.03	17778.20	-17774.46	513.77	0.00	488167.50	578526.22	N	32 17 0.12	W 104 4 45.25
	20710.00	88.87	179.56	9542.03	18478.20	-18474.46	513.77	0.00	488171.51	578526.22	N	32 17 0.12	W 104 4 45.25
	20800.00	88.87	179.56	9542.03	19178.20	-19174.46	513.77	0.00	488175.52	578526.22	N	32 17 0.12	W 104 4 45.25
	20890.00	88.87	179.56	9542.03	19878.20	-19874.46	513.77	0.00	488179.53	578526.22	N	32 17 0.12	W 104 4 45.25
	20980.00	88.87	179.56	9542.03	20578.20	-20574.46	513.77	0.00	488183.54	578526.22	N	32 17 0.12	W 104 4 45.25
	21070.00	88.87	179.56	9542.03	21278.20	-21274.46	513.77	0.00	488187.55	578526.22	N	32 17 0.12	W 104 4 45.25
	21160.00	88.87	179.56	9542.03	21978.20	-21974.46	513.77	0.00	488191.56	578526.22	N	32 17 0.12	W 104 4 45.25
	21250.00	88.87	179.56	9542.03	22678.20	-22674.46	513.77	0.00	488195.57	578526.22	N	32 17 0.12	W 104 4 45.25
	21340.00	88.87	179.56	9542.03	23378.20	-23374.46	513.77	0.00	488199.58	578526.22	N	32 17 0.12	W 104 4 45.25
	21430.00	88.87	179.56	9542.03	24078.20	-24074.46	513.77	0.00	488203.59	578526.22	N	32 17 0.12	W 104 4 45.25
	21520.00	88.87	179.56	9542.03	24778.20	-24774.46	513.77	0.00	488207.60	578526.22	N	32 17 0.12	W 104 4 45.25
	21610.00	88.87	179.56	9542.03	25478.20	-25474.46	513.77	0.00	488211.61	578526.22	N	32 17 0.12	W 104 4 45.25
	21700.00	88.87	179.56	9542.03	26178.20	-26174.46	513.77	0.00	488215.62	578526.22	N	32 17 0.12	W 104 4 45.25
	21790.00	88.87	179.56	9542.03	26878.20	-26874.46	513.77	0.00	488219.63	578526.22	N	32 17 0.12	W 104 4 45.25
	21880.00	88.87	179.56	9542.03	27578.20	-27574.46	513.77	0.00	488223.64	578526.22	N	32 17 0.12	W 104 4 45.25
	21970.00	88.87	179.56	9542.03	28278.20	-28274.46	513.77	0.00	488227.65	578526.22	N	32 17 0.12	W 104 4 45.25
	22060.00	88.87	179.56	9542.03	28978.20	-28974.46	513.77	0.00	488231.66	578526.22	N	32 17 0.12	W 104 4 45.25
	22150.00	88.87	179.56	9542.03	29678.20	-29674.46	513.77	0.00	488235.67	578526.22	N	32 17 0.12	W 104 4 45.25
	22240.00	88.87	179.56	9542.03	30378.20	-30374.46	513.77	0.00	488239.68	578526.22	N	32 17 0.12	W 104 4 45.25
	22330.00	88.87	179.56	9542.03	31078.20	-31074.46	513.77	0.00	488243.69	578526.22	N	32 17 0.12	W 104 4 45.25
	22420.00	88.87	179.56	9542.03	31778.20	-31774.46	513.77	0.00	488247.70	578526.22	N	32 17 0.12	W 104 4 45.25
	22510.00	88.87	179.56	9542.03	32478.20	-32474.46	513.77	0.00	488251.71	578526.22	N	32 17 0.12	W 104 4 45.25
	22600.00	88.87	179.56	9542.03	33178.20	-33174.46	513.77	0.00	488255.72	578526.22	N	32 17 0.12	W 104 4 45.25
	22690.00	88.87	179.56	9542.03	33878.20	-33874.46	513.77	0.00	488259.73	578526.22	N	32 17 0.12	W 104 4 45.25
	22780.00	88.87	179.56	9542.03	34578.20	-34574.46	513.77	0.00	488263.74	578526.22	N	32 17 0.12	W 104 4 45.25
	22870.00	88.87	179.56	9542.03	35278.20	-35274.46	513.77	0.00	488267.75	578526.22	N	32 17 0.12	W 104 4 45.25
	22960.00	88.87	179.56	9542.03	35978.20	-35974.46	513.77	0.00	488271.76	578526.22	N	32 17 0.12	W 104 4 45.25
	23050.00	88.87	179.56	9542.03	36678.20	-36674.46	513.77	0.00	488275.77	578526.22	N	32 17 0.12	W 104 4 45.25
	23140.00	88.87	179.56	9542.03	37378.20	-37374.46	513.77	0.00	488279.78	578526.22	N	32 17 0.12	W 104 4 45.25
	23230.00	88.87	179.56	9542.03	38078.20	-38074.46	513.77	0.00	488283.79	578526.22	N	32 17 0.12	W 104 4 45.25
	23320.00	88.87	179.56	9542.03	38778.20	-38774.46	513.77	0.00	488287.80	578526.22	N	32 17 0.12	W 104 4 45.25
	23410.00	88.87	179.56	9542.03	39478.20	-39474.46	513.77	0.00	488291.81	578526.22	N	32 17 0.12	W 104 4 45.25
	23500.00	88.87	179.56	9542.03	40178.20	-40174.46	513.77	0.00	488295.82	578526.22	N	32 17 0.12	W 104 4 45.25
	23590.00	88.87	179.56	9542.03	40878.20	-40874.46	513.77	0.00	488299.83	578526.22	N	32 17 0.12	W 104 4 45.25
	23680.00	88.87	179.56	9542.03	41578.20	-41574.46	513.77	0.00	488303.84	578526.22	N	32 17 0.12	W 104 4 45.25
	23770.00	88.87	179.56	9542.03	42278.20	-42274.46	513.77	0.00	488307.85	578526.22	N	32 17 0.12	W 104 4 45.25
	23860.00	88.87	179.56	9542.03	42978.20	-42974.46	513.77	0.00	488311.86	578526.22	N	32 17 0.12	W 104 4 45.25
	23950.00	88.87	179.56	9542.03									