

RECEIVED
DEC 4 1965

~~()~~
Gulf
to TD

PAUL'S

MULTI-SHOT SERVICES, INC.

NOV 23 4 16
SECTION
DIST.

GYROSCOPIC MULTI-SHOT SURVEY

RECORD of SURVEY

pl
COCKRELL CORPORATION

Lake Arthur Reclamation Co. Well No. 1 *Sy. # 201140*

Wickert CAMERON PARISH LOUISIANA

RIG: POWER RIG NO. 17

PAUL'S MULTI-SHOT SERVICES
P.O. BOX 531
BROUSSARD LOUISIANA 70518
318-237-8302

oil
COCKRELL CORPORATION
LAKE ARTHUR RECLAMATION CO. WELL NO. 1
CAMERON PARISH LOUISIANA

RIG: POWER RIG NO. 17

See # 201146

KELLY BUSHING ELEVATION = 26.85
MAGNETIC DECLINATION = 4 DEGREES 30 MINUTES EAST TRUE NORTH
PLANE OF PROPOSAL DIRECTION IS S 45 0 E

JOB NO. LA-1-110848SGS
HOLE ASSUMED VERTICAL AT 0'

ALL CALCULATIONS MADE BY DOWELL DRAFTING
RADIUS OF CURVATURE METHOD

We hereby certify that the Field Data contained in this report from ~~surface~~ feet to *149.84* feet by our Directional Surveyors, represents to the best of our knowledge, a true and accurate survey of the well at the time the survey was run.

PAUL'S
MULTI-SHOT
SERVICES, INC.

Paul J. Stearns
Division Survey Supervisor

DATE = 11/29/85

A:COCKLAKE. #1

SUR SBA	MEAS.	TRUE	DRIFT	DRIFT	VERTICAL	TOTAL	COORDINATES	CLOSURE	DOG LEG
DEPTH	DEPTH	VERTICAL	ANGLE	DIREC	SECTION			DISTANCE	SEVERITY
		DEPTH	D M					D M	DEG/100FT.
-26.85	0	0.00	0 0	S 0 E	0.00	0.00 N	0.00 I	0.00 N 0 0 E	0.00
73.15	100	100.00	0 0	S 0 E	0.00	0.00 N	0.00 E	0.00 N 0 0 E	0.00
173.15	200	200.00	0 0	S 0 E	0.00	0.00 N	0.00 E	0.00 N 0 0 E	0.30
273.15	300	300.00	0 0	S 0 E	0.00	0.00 N	0.00 E	0.00 N 0 0 E	0.00
373.15	400	400.00	0 15	S 82 E	0.17	0.03 S	0.21 E	0.22 S 82 1	0.25
473.15	500	500.00	0 0	S 0 E	0.34	0.06 S	0.43 E	0.43 S 82 1	0.25
573.15	600	600.00	0 0	S 0 E	0.34	0.06 S	0.43 E	0.43 S 82 1	0.00
673.15	700	700.00	0 0	S 0 E	0.34	0.06 S	0.43 E	0.43 S 82 1	0.00
773.15	800	800.00	0 0	S 0 E	0.34	0.06 S	0.43 E	0.43 S 82 1	0.00
873.15	900	900.00	0 15	N 12 E	0.23	0.15 N	0.47 E	0.50 N 72 17	0.25
973.15	1000	1000.00	0 15	S 37 W	-0.07	0.28 N	0.19 E	0.34 N 35 25	0.11
1073.15	1100	1100.00	0 0	S 0 E	-0.04	0.11 N	0.06 E	0.12 N 25 5	0.25
1173.15	1200	1200.00	0 15	N 25 W	-0.24	0.30 N	0.04 W	0.31 N 27 37	0.25
1273.15	1300	1300.00	0 15	N 14 W	-0.63	0.72 N	0.18 W	0.74 N 11 40	0.05
1373.15	1400	1400.00	0 0	S 0 E	-0.82	0.92 N	0.23 W	0.95 N 8 25	0.25
1473.15	1500	1500.00	0 0	S 0 E	-0.82	0.92 N	0.23 W	0.95 N 8 25	0.00
1573.15	1600	1600.00	0 15	N 12 E	-0.94	1.14 N	0.19 W	1.15 N 12 24	0.25
1673.15	1700	1700.00	0 0	S 0 E	-1.05	1.35 N	0.14 W	1.35 N 6 4 2	0.25
1773.15	1800	1800.00	0 0	S 0 E	-1.05	1.35 N	0.14 W	1.35 N 6 4 2	0.00
1873.15	1900	1900.00	0 0	S 0 E	-1.05	1.35 N	0.14 W	1.35 N 6 4 2	0.00
1973.15	2000	2000.00	0 15	S 34 E	-0.84	1.17 N	0.02 W	1.17 N 1 6 30	0.25
2073.14	2100	2099.99	1 0	S 31 W	-0.09	0.14 N	0.00 E	0.14 N 1 55 38	0.75
2173.12	2200	2199.97	1 15	S 29 W	0.42	1.56 S	0.98 W	1.41 S 21 59 5	0.25
2273.10	2300	2299.95	1 15	S 38 W	0.85	3.38 S	2.18 W	4.12 S 27 49 32	0.20
2373.07	2400	2399.92	1 15	S 45 W	0.98	5.01 S	3.62 W	6.19 S 36 52 49	0.15
2473.04	2500	2499.89	1 30	S 64 W	0.59	6.40 S	5.57 W	8.19 S 41 2 42	0.52
2573.01	2600	2599.86	1 15	S 81 W	-0.52	7.12 S	7.85 W	10.60 S 47 48 45	0.48
2673.00	2700	2699.85	0 45	S 76 W	-1.47	7.48 S	9.56 W	12.14 S 51 57 32	0.51
2772.99	2800	2799.84	1 0	S 81 W	-2.30	7.80 S	11.05 W	13.52 S 54 47 0	0.27
2872.98	2900	2899.83	0 45	N 89 W	-3.30	7.91 S	12.57 W	14.85 S 57 50 2	0.28

SUB SEA DEPTH	MEAS. DEPTH	TRUE VERTICAL DEPTH	DRIFT ANGLR D M	DRIFT DIREC	VERTICAL SECTION	TOTAL	COORDINATES	C L O S U R E			DOG LBG SEVERITY DEG/100FT.
								DISTANCE	ANG	S	
2972.97	3000	2999.82	0 30	S 83 W	-4.03	7.96 S	13.66 W	15.81	S 59	46 12 W	0.28
3072.97	3100	3099.82	0 30	S 71 W	-4.49	8.16 S	14.51 W	16.84	S 60	39 4 W	0.10
3172.96	3200	3199.81	0 30	N 78 W	-5.06	8.21 S	15.37 W	17.42	S 61	53 16 W	0.06
3272.96	3300	3299.81	0 15	S 89 W	-5.57	8.15 S	16.02 W	17.97	S 63	3 11 W	0.26
3372.96	3400	3399.81	0 15	N 68 W	-5.92	8.07 S	16.44 W	18.32	S 63	52 11 W	0.09
3472.96	3500	3499.81	0 15	S 60 W	-6.17	8.14 S	16.85 W	18.71	S 64	15 36 W	0.08
3572.96	3600	3599.81	0 15	S 81 W	-6.32	8.31 S	17.25 W	19.15	S 64	16 18 W	0.13
3672.96	3700	3699.81	0 0	S 0 E	-6.45	8.35 S	17.46 W	19.35	S 64	27 20 W	0.25
3772.96	3800	3799.81	0 0	S 0 E	-6.45	8.35 S	17.46 W	19.35	S 64	27 20 W	0.00
3872.96	3900	3899.81	0 15	S 78 W	-6.56	8.39 S	17.67 W	19.56	S 64	36 14 W	0.25
3972.95	4000	3999.80	0 15	S 42 W	-6.67	8.61 S	18.04 W	19.99	S 64	30 19 W	0.15
4072.95	4100	4099.80	0 30	S 45 W	-6.66	9.08 S	18.49 W	20.60	S 63	51 7 W	0.27
4172.95	4200	4199.80	0 15	N 11 E	-7.13	8.85 S	18.92 W	20.89	S 64	57 56 W	0.37
4272.95	4300	4299.80	0 0	N 11 E	-7.25	8.64 S	18.88 W	20.76	S 65	25 27 W	0.27
4372.95	4400	4399.80	0 15	N 21 W	7.44	8.44 S	18.96 W	20.75	S 66	1 11 W	0.27
4472.95	4500	4499.80	0 0	S 11 E	7.64	8.24 S	19.04 W	20.75	S 66	37 56 W	0.27
4572.95	4600	4599.80	0 15	S 45 W	7.64	8.39 S	19.19 W	20.95	S 66	31 53 W	0.25
4672.95	4700	4699.80	0 30	S 10 E	7.35	8.59 S	19.38 W	21.37	S 65	7 24 W	0.37
4772.94	4800	4799.79	0 30	S 15 E	6.62	8.84 S	19.19 W	21.57	S 62	52 33 W	0.04
4872.94	4900	4899.79	0 30	S 25 W	6.07	10.70 S	19.27 W	22.04	S 60	59 35 W	0.01
4972.94	5000	4999.79	0 30	S 10 W	5.66	11.53 S	19.53 W	22.68	S 59	28 49 W	0.17
5072.93	5100	5099.78	0 30	S 20 E	5.00	12.39 S	19.46 W	23.06	S 57	32 45 W	0.07
5172.93	5200	5199.78	0 30	S 62 E	4.15	13.03 S	18.90 W	22.95	S 55	25 19 W	0.28
5272.92	5300	5299.77	0 30	S 22 W	3.43	13.78 S	18.62 W	23.17	S 53	31 52 W	0.34
5372.92	5400	5399.77	0 45	S 48 E	2.56	14.78 S	18.39 W	23.59	S 51	14 51 W	0.37
5472.91	5500	5499.76	0 45	S 64 W	-1.89	15.88 S	18.55 W	24.11	S 49	27 45 W	0.27
5572.91	5600	5599.76	0 15	N 76 W	-2.43	15.97 S	19.40 W	25.12	S 50	33 13 W	0.51
5672.91	5700	5699.75	0 15	S 38 E	-2.36	16.24 S	19.58 W	25.14	S 50	20 39 W	0.11
5772.90	5800	5799.75	0 15	S 40 W	-2.08	16.65 S	19.59 W	25.71	S 49	39 44 W	0.07
5872.90	5900	5899.75	0 0	S 0 E	-2.06	16.81 S	19.73 W	25.92	S 49	34 56 W	0.27

SUB SEA DEPTH	MEAS. DEPTH	TRUE DEPTH	DRIFT ANGLE D M	DRIFT DIR EC	VERTICAL SECTION	TOTAL	COORDINATES	C L O S I D	R R S ANGLE S	DOG LEG SEVERITY DEG/100FT.
6972.90	6000	6999.76	0 30	N 83 W	-2.41	16.76 S	20.16 W	26.22 S 50	16 2 W	0.50
6972.80	6100	6099.76	0 30	N 43 W	-3.22	16.37 S	20.92 W	26.56 S 51	5R 14 W	0.34
6172.89	6200	6199.74	0 45	N 47 W	-4.31	16.60 S	21.69 W	26.72 S 54	17 10 W	0.25
6272.89	6300	6299.74	0 30	N 71 W	-5.36	15.04 S	22.62 W	27.16 S 66	23 11 W	0.36
6372.88	6400	6399.73	0 30	N 60 W	-6.18	14.68 S	23.41 W	27.64 S 57	55 15 W	0.10
6472.88	6500	6499.73	0 15	N 65 W	-6.80	14.38 S	23.99 W	27.97 S 60	5 15 W	0.25
6572.88	6600	6599.73	0 30	N 17 W	-7.44	13.90 S	24.41 W	28.09 S 60	21 29 W	0.38
6572.87	6700	6699.72	0 30	N 90 W	-8.25	13.41 S	25.07 W	28.43 S 61	72 39 W	0.59
6772.87	6800	6799.72	0 30	N 31 W	-9.05	13.00 S	25.79 W	28.89 S 63	16 24 W	0.49
6872.87	6900	6899.72	0 30	N 73 W	-9.90	12.48 S	26.47 W	29.26 S 64	16 15 W	0.36
6972.86	7000	6999.71	0 30	N 66 W	-10.69	12.17 S	27.28 W	29.87 S 65	58 10 W	0.06
7072.86	7100	7099.71	0 45	N 70 W	-11.70	11.76 S	28.29 W	30.64 S 67	35 19 W	0.25
7172.85	7200	7199.70	0 45	N 46 W	-12.96	11.07 S	29.40 W	31.41 S 68	22 14 W	0.31
7272.71	7300	7299.56	4 45	S 42 E	-13.02	13.24 S	31.64 W	31.30 S 67	18 10 W	4.00
7372.13	7400	7398.98	7 30	S 39 E	-2.38	21.16 S	24.71 W	32.66 S 40	11 19 W	2.77
7471.25	7500	7498.10	7 45	S 38 E	10.81	31.74 S	16.46 W	35.75 S 27	24 36 W	0.38
7570.08	7600	7596.53	9 45	S 39 E	15.92	43.64 S	6.98 W	44.20 S 1	6 7 W	2.01
7668.15	7700	7695.00	12 45	S 33 E	15.18	59.42 S	4.48 E	54.59 S 1	19 7 E	3.22
7765.58	7800	7792.43	13 15	S 35 E	17.26	78.07 S	17.05 E	79.91 S 1	20 5 E	0.67
7863.02	7900	7889.87	12 45	S 34 E	19.38	96.60 S	29.80 E	91.09 S 17	9 1 E	0.55
7960.46	8000	7987.31	13 16	S 33 E	111.42	115.36 S	42.21 E	122.84 S 20	6 5 E	0.55
8057.99	8100	8084.84	12 16	S 30 E	132.86	134.18 S	63.74 E	144.54 S 21	40 7 E	1.20
8155.76	8200	8182.61	12 0	S 35 E	153.38	161.88 S	85.02 E	165.22 S 23	40 19 E	1.08
8253.57	8300	8280.42	12 0	S 35 E	173.88	189.91 S	76.95 E	185.61 S 23	30 11 E	0.00
8351.34	8400	8378.19	12 15	S 45 E	194.75	189.98 S	90.43 E	205.90 S 24	3 3 E	2.11
8448.92	8500	8476.77	13 0	S 67 E	216.45	198.71 S	107.38 E	225.87 S 25	4 1 E	2.72
8546.31	8600	8573.16	13 15	S 67 E	238.14	209.36 S	127.41 E	245.08 S 25	30 14 E	2.28
8643.39	8700	8670.24	14 30	S 66 E	260.45	218.32 S	149.40 E	265.04 S 27	19 3 E	1.27
8740.31	8800	8767.16	14 0	S 66 E	283.60	229.13 S	171.80 E	285.38 S 27	12 9 E	0.56
8837.35	8900	8864.19	14 0	S 65 E	306.16	239.16 S	193.81 E	307.83 S 28	2 11 E	0.24

COCKERELL CORPORATION

LAKE ARTHUR REPLENISHMENT CO. WELL NO. 1

SUB SEA DEPTH	TKAS. DEPTH	TRUE DEPTH	DRAFT ANGLS D M	D-1 FT DIVEC	VERTICAL SECTION	TOTAL	COORDINATES	C L O S U R E S DISTANCE D M S	DOG LEG SEVERITY DEG/100FT.
8994.32	9100	8961.17	14 15	S 67 R	328.87	219.89 S	216.19 R	329.68 S 40 59 9 R	0.35
9031.45	9100	9058.30	13 15	S 63 R	390.98	250.37 S	237.99 R	351.27 S 42 39 24 E	1.03
9128.99	9200	9185.84	12 16	S 63 R	371.78	257.87 S	257.91 E	371.85 S 43 55 21 E	1.20
9226.71	9300	9253.68	12 15	S 65 E	391.84	277.17 S	276.98 E	391.94 S 44 59 18 R	0.42
9324.39	9400	9351.24	12 30	S 64 E	412.04	286.40 S	286.32 E	412.10 S 46 59 3 R	0.33
9422.08	9500	9448.91	12 16	S 65 E	432.24	299.62 S	316.66 E	432.48 S 46 53 11 E	0.33
9519.64	9600	9546.49	13 0	S 62 R	462.97	305.37 S	335.22 E	453.48 S 47 41 36 E	1.00
9617.18	9700	9644.03	12 30	S 64 E	473.95	315.39 S	354.88 R	474.78 S 48 23 51 E	0.67
9714.76	9800	9741.61	12 45	S 63 E	494.68	325.15 S	374.44 E	475.91 S 49 2 24 E	0.33
9812.30	9900	9839.15	12 45	S 64 R	615.61	334.99 S	394.19 E	477.31 S 49 39 3 E	0.22
9909.88	10000	9936.73	12 30	S 63 R	638.31	344.75 S	413.75 E	534.56 S 50 12 29 E	0.33
10007.66	10100	10034.40	12 15	S 62 E	666.77	354.64 S	432.76 E	559.51 S 50 41 33 R	0.33
10105.28	10200	10132.13	12 15	S 60 E	677.16	364.93 S	451.92 E	590.40 S 51 3 8 R	0.42
10203.09	10300	10229.94	11 45	S 61 E	697.20	375.16 S	469.42 E	600.92 S 51 23 38 E	0.54
10301.00	10400	10327.85	11 45	S 58 E	618.91	385.50 S	486.96 E	621.08 S 51 39 35 R	0.61
10398.95	10500	10425.80	11 30	S 58 E	636.54	396.18 S	504.05 E	641.11 S 51 51 34 E	0.25
10496.94	10600	10523.79	11 30	S 60 E	655.88	406.45 S	521.14 E	650.90 S 52 4 31 R	0.40
10594.93	10700	10621.78	11 30	S 60 E	675.14	416.41 S	539.40 E	680.65 S 52 17 26 E	0.00
10692.92	10800	10719.77	11 30	S 60 E	694.40	426.38 S	556.67 E	700.41 S 52 31 35 E	0.00
10790.92	10900	10817.77	11 30	S 45 E	714.11	436.48 S	671.44 E	720.24 S 52 31 35 E	2.98
10888.86	11000	10916.71	11 45	S 49 R	734.25	452.35 S	686.06 E	740.33 S 52 21 48 E	0.65
10986.77	11100	11013.62	11 45	S 46 R	754.59	466.24 S	690.95 E	760.61 S 52 12 15 E	0.41
11084.67	11200	11111.52	11 45	S 46 R	774.91	480.00 S	615.96 E	780.90 S 52 8 54 R	0.61
11182.53	11300	11209.38	12 0	S 41 E	795.51	494.16 S	630.88 E	801.34 S 51 66 20 E	1.05
11280.39	11400	11307.24	11 46	S 41 R	816.09	508.71 S	645.43 E	821.81 S 51 46 57 R	0.48
11363.57	11485	11390.42	12 0	S 49 F	833.56	520.62 S	658.33 E	839.25 S 51 41 38 E	0.78

BOTTOM HOLE CLOSURE H: 26 FEET AT S 51 41 38 E

COCKERELL CORPORATION LAKE ARTHUR RECLAMATION CO. WELL NO. 1

11/29/85

PAGE = 5

INTERPOLATED DATA FOR EVERY 100.00 FEET OF TRUE VERTICAL DEPTH

SUB SEA DEPTH	MEASURED DEPTH	TRUE VERTICAL DEPTH	VERTICAL SECTION	COORDINATES		CROSS SURFACE DISTANCE D S	
73.15	100.00	100.00	0.00	0.00 N	0.00 E	0.00	N 0 0 0 E
173.15	200.00	200.00	0.00	0.00 N	0.00 E	0.00	N 0 0 0 E
273.15	300.00	300.00	0.00	0.00 N	0.00 E	0.00	N 0 0 0 E
373.15	400.00	400.00	0.17	0.03 S	0.21 E	0.22	S 82 1 56 E
473.15	500.00	500.00	0.34	0.06 S	0.43 E	0.44	S 82 1 56 E
573.15	600.00	600.00	0.34	0.06 S	0.43 E	0.44	S 82 1 56 E
673.15	700.00	700.00	0.34	0.06 S	0.43 E	0.44	S 82 1 56 E
773.15	800.00	800.00	0.34	0.06 S	0.43 E	0.44	S 82 1 56 E
873.15	900.00	900.00	0.23	0.15 N	0.47 E	0.48	N 72 17 51 E
973.15	1000.00	1000.00	-0.07	0.28 N	0.19 E	0.29	N 33 25 51 E
1073.15	1100.00	1100.00	-0.04	0.11 N	0.06 E	0.12	N 27 5 7 E
1173.15	1200.00	1200.00	-0.24	0.30 N	0.04 W	0.31	N 6 37 51 W
1273.15	1300.00	1300.00	-0.63	0.72 N	0.18 W	0.74	N 14 11 50 W
1373.15	1400.00	1400.00	-0.82	0.92 N	0.23 W	0.95	N 14 8 25 W
1473.15	1500.00	1500.00	-0.82	0.92 N	0.23 W	0.95	N 14 8 25 W
1573.15	1600.00	1600.00	-0.94	1.14 N	0.19 W	1.15	N 9 24 11 W
1673.15	1700.00	1700.00	-1.05	1.35 N	0.14 W	1.36	N 6 4 12 W
1773.15	1800.00	1800.00	-1.05	1.35 N	0.14 W	1.36	N 6 4 12 W
1873.15	1900.00	1900.00	-1.05	1.35 N	0.14 W	1.36	N 6 4 12 W
1973.15	2000.00	2000.00	-0.84	1.17 N	0.02 W	1.18	N 1 6 20 W
2073.15	2100.01	2100.00	-0.09	0.14 N	0.00 E	0.14	N 1 52 59 E
2173.15	2200.03	2200.00	0.42	1.57 S	0.98 W	1.58	S 31 59 7 W
2273.15	2300.05	2300.00	0.85	3.39 S	2.18 W	4.02	S 32 49 41 W
2373.15	2400.08	2400.00	0.98	5.02 S	3.63 W	6.11	S 35 52 9 W
2473.15	2500.11	2500.00	0.69	6.40 S	5.57 W	8.49	S 41 2 15 W
2573.15	2600.14	2600.00	-0.52	7.12 S	7.85 W	10.60	S 47 48 8 W
2673.15	2700.15	2700.00	-1.47	7.48 S	9.56 W	12.14	S 51 57 49 W
2773.15	2800.16	2800.00	-2.30	7.80 S	11.05 W	13.53	S 54 47 20 W
2873.15	2900.17	2900.00	-3.30	7.91 S	12.67 W	14.85	S 57 50 15 W
2973.15	3000.18	3000.00	-4.03	7.96 S	13.66 W	15.81	S 59 46 48 W

INTERPOLATED DATA FOR FURY 100.00 FEET OF TRUE VERTICAL DEPTH

SUB SEA DEPTH	MEASURED DEPTH	TRUE VERTICAL DEPTH	VERTICAL SECTION	COORDINATES		CLOSURE	
						DISTANCE	D M S
3073.15	3100.18	3100.00	-4.49	8.16 S	14.51 W	16.64	S 60 39 12 W
3173.15	3200.19	3200.00	-5.06	8.21 S	15.37 W	17.42	S 61 53 24 W
3273.15	3300.19	3300.00	-5.57	8.15 S	16.02 W	17.97	S 63 3 41 W
3373.15	3400.19	3400.00	-5.92	8.07 S	16.44 W	18.32	S 63 52 8 W
3473.15	3500.19	3500.00	-6.17	8.14 S	16.85 W	18.72	S 64 15 35 W
3573.15	3600.19	3600.00	-6.32	8.31 S	17.25 W	19.15	S 64 16 19 W
3673.15	3700.19	3700.00	-6.45	8.35 S	17.46 W	19.35	S 64 27 20 W
3773.15	3800.19	3800.00	-6.45	8.35 S	17.46 W	19.35	S 64 27 21 W
3873.15	3900.19	3900.00	-6.56	8.39 S	17.67 W	19.56	S 64 36 13 W
3973.15	4000.20	4000.00	-6.67	8.61 S	18.04 W	19.99	S 64 30 15 W
4073.15	4100.20	4100.00	-6.66	9.08 S	18.49 W	20.50	S 63 51 15 W
4173.15	4200.20	4200.00	-7.13	8.85 S	18.92 W	20.89	S 61 57 59 W
4273.15	4300.20	4300.00	-7.25	8.64 S	18.89 W	20.76	S 63 26 31 W
4373.15	4400.20	4400.00	-7.44	8.44 S	18.98 W	20.75	S 63 1 15 W
4473.15	4500.20	4500.00	-7.64	8.24 S	19.04 W	20.75	S 63 37 54 W
4573.15	4600.20	4600.00	-7.64	8.39 S	19.14 W	20.95	S 66 24 44 W
4673.15	4700.20	4700.00	-7.35	8.99 S	19.34 W	21.37	S 65 7 7 W
4773.15	4800.21	4800.00	-6.61	9.85 S	19.19 W	21.57	S 62 51 19 W
4873.15	4900.21	4900.00	-6.07	10.70 S	19.27 W	22.04	S 60 58 23 W
4973.15	5000.21	5000.00	-5.68	11.53 S	19.63 W	22.64	S 59 28 34 W
5073.15	5100.22	5100.00	-5.00	12.39 S	19.46 W	23.06	S 57 31 28 W
5173.15	5200.22	5200.00	-4.15	13.03 S	18.84 W	22.95	S 55 25 3 W
5273.15	5300.23	5300.00	-3.43	13.78 S	18.62 W	23.17	S 53 31 33 W
5373.15	5400.23	5400.00	-2.66	14.78 S	18.39 W	23.71	S 51 14 36 W
5473.15	5500.24	5500.00	-1.89	15.88 S	18.55 W	24.22	S 49 27 55 W
5573.15	5600.24	5600.00	-2.43	15.97 S	19.40 W	25.12	S 50 33 11 W
5673.15	5700.25	5700.00	-2.38	16.25 S	19.58 W	25.44	S 50 20 34 W
5773.15	5800.25	5800.00	-2.08	16.65 S	19.59 W	25.71	S 49 39 43 W
5873.15	5900.25	5900.00	-2.06	16.81 S	19.73 W	25.92	S 49 34 1 W
5973.15	6000.25	6000.00	-2.41	16.76 S	20.16 W	26.22	S 50 16 18 W

See # 261140

INTERPOLATED DATA FOR EVERY 100.00 FEET OF TRUE VERTICAL DEPTH

SUB SEA DEPTH	MEASURED DEPTH	TRUE VERTICAL DEPTH	VERTICAL SECTION	COORDINATES		LOSING DISTANCE D M S	
6073.15	6100.25	6100.00	3.22	16.37 S	20.92 W	291.56	S 31 54 5 W
6173.15	6200.26	6200.00	4.31	15.60 S	21.69 W	295.72	S 54 18 40 W
6273.15	6300.26	6300.00	5.37	15.04 S	22.62 W	297.77	S 56 23 16 W
6373.15	6400.27	6400.00	6.18	14.68 S	23.41 W	298.75	S 57 55 27 W
6473.15	6500.27	6500.00	6.81	14.38 S	24.00 W	299.75	S 59 5 57 W
6573.15	6600.27	6600.00	7.44	13.90 S	24.41 W	299.99	S 60 22 44 W
6673.15	6700.28	6700.00	8.25	13.41 S	25.07 W	299.77	S 61 52 52 W
6773.15	6800.28	6800.00	9.05	13.00 S	25.80 W	299.75	S 63 16 49 W
6873.15	6900.28	6900.00	9.90	12.48 S	26.47 W	299.75	S 64 46 29 W
6973.15	7000.29	7000.00	0.69	12.17 S	27.29 W	299.99	S 65 58 25 W
7073.15	7100.29	7100.00	1.70	11.76 S	28.30 W	300.61	S 67 27 10 W
7173.15	7200.30	7200.00	2.96	11.08 S	29.40 W	31.4	S 69 22 10 W
7273.15	7300.44	7300.00	3.97	13.28 S	31.61 W	34.2	S 67 14 11 W
7373.15	7401.03	7400.00	2.25	21.46 S	24.65 W	32.8	S 48 56 40 W
7473.15	7501.93	7500.00	1.10	31.97 S	16.27 W	35.8	S 26 59 8 W
7573.15	7603.13	7600.00	6.52	44.14 S	6.65 W	44.67	S 8 32 8 W
7673.15	7705.14	7700.00	6.31	60.38 S	5.12 E	60.51	S 4 51 1 E
7773.15	7807.77	7800.00	8.98	79.61 S	18.04 E	81.57	S 12 47 12 E
7873.15	7910.40	7900.00	11.67	98.55 S	31.09 E	103.34	S 17 31 16 E
7973.15	8013.01	8000.00	4.22	117.81 S	43.71 E	126.64	S 20 22 17 E
8073.15	8115.51	8100.00	16.08	136.92 S	55.49 E	147.74	S 22 1 5 E
8173.15	8217.78	8200.00	17.02	154.91 S	67.14 E	168.84	S 23 26 14 E
8273.15	8320.02	8300.00	18.04	172.13 S	79.65 E	189.67	S 24 50 6 E
8373.15	8422.35	8400.00	19.60	188.05 S	94.22 E	210.33	S 26 37 2 E
8473.15	8524.88	8500.00	21.84	201.36 S	112.37 E	230.59	S 27 10 6 E
8573.15	8627.65	8600.00	24.30	212.00 S	133.49 E	250.54	S 28 12 9 E
8673.15	8730.70	8700.00	27.53	222.05 S	156.28 E	271.53	S 29 9 36 E
8773.15	8833.84	8800.00	31.17	232.52 S	179.25 E	293.59	S 27 38 6 E
8873.15	8936.92	8900.00	4.54	242.75 S	202.07 E	315.65	S 27 47 57 E
8973.15	9039.98	9000.00	7.71	252.68 S	224.90 E	338.27	S 11 41 46 E

INTERPOLATED DATA FOR EVERY 100.00 FEET OF TRUE VERTICAL DRIFT

SUB-SEA DEPTH	MEASURED DEPTH	TRUE VERTICAL DEPTH	VERTICAL SECTION	COORDINATES		CLOSURE	
						DISTANCE	D M S
9073.15	9142.75	9100.00	359.87	262.43 S	246.50 E	.05	S 43 13 56 E
9173.15	9245.19	9200.00	380.85	272.07 S	266.52 E	.87	S 44 25 5 E
9273.15	9347.55	9300.00	401.44	281.66 S	286.17 E	.46	S 45 28 28 E
9373.15	9449.92	9400.00	422.13	291.00 S	305.98 E	1.26	S 46 27 44 E
9473.15	9552.35	9500.00	443.09	300.73 S	325.90 E	6.45	S 47 19 34 E
9573.15	9654.86	9600.00	464.48	310.87 S	346.01 E	1.15	S 48 4 15 E
9673.15	9757.36	9700.00	485.84	320.99 S	366.10 E	6.89	S 48 46 58 E
9773.15	9859.87	9800.00	507.21	331.04 S	386.27 E	10.72	S 49 25 43 E
9873.15	9962.36	9900.00	528.53	341.07 S	406.39 E	1.75	S 50 0 13 E
9973.15	10064.78	10000.00	549.57	351.16 S	426.07 E	1.13	S 50 31 54 E
10073.15	10167.12	10100.00	570.46	361.55 S	445.22 E	5.63	S 50 56 52 E
10173.15	10269.39	10200.00	591.06	372.03 S	463.88 E	5.63	S 51 17 48 E
10273.15	10371.56	10300.00	611.30	382.66 S	481.97 E	11.34	S 51 34 9 E
10373.15	10473.67	10400.00	631.37	393.37 S	499.55 E	16.13	S 51 47 29 E
10473.15	10575.73	10500.00	651.19	403.95 S	516.99 E	21.03	S 52 0 26 E
10573.15	10677.77	10600.00	670.86	414.20 S	534.57 E	27.24	S 52 14 25 E
10673.15	10779.82	10700.00	690.51	424.37 S	552.19 E	33.17	S 52 28 60 E
10773.15	10881.87	10800.00	710.54	436.29 S	568.58 E	41.67	S 52 31 35 E
10873.15	10983.96	10900.00	731.02	450.13 S	583.71 E	51.11	S 52 22 20 E
10973.15	11086.09	11000.00	751.77	464.31 S	598.88 E	61.74	S 52 13 24 E
11073.15	11188.23	11100.00	772.55	478.38 S	614.20 E	73.51	S 52 6 45 E
11173.15	11290.41	11200.00	793.54	492.80 S	629.45 E	86.41	S 51 57 8 E
11273.15	11392.60	11300.00	814.66	507.63 S	644.36 E	100.30	S 51 47 42 E
11363.57	LOWEST SURVEY DATA AVAILABLE 11485.00	11390.42	833.56	520.52 S	658.33 E	115.24	S 51 41 38 E

Dr. #201140