

**SUB-SURFACE
DIRECTIONAL
SURVEY
REPORT**

CHARLES B. GILLESPIE, JR.

COMPANY

SHIPP D. A. WELL NO. 1-H 10-17-37

WELL NAME

LEA COUNTY, NEW MEXICO

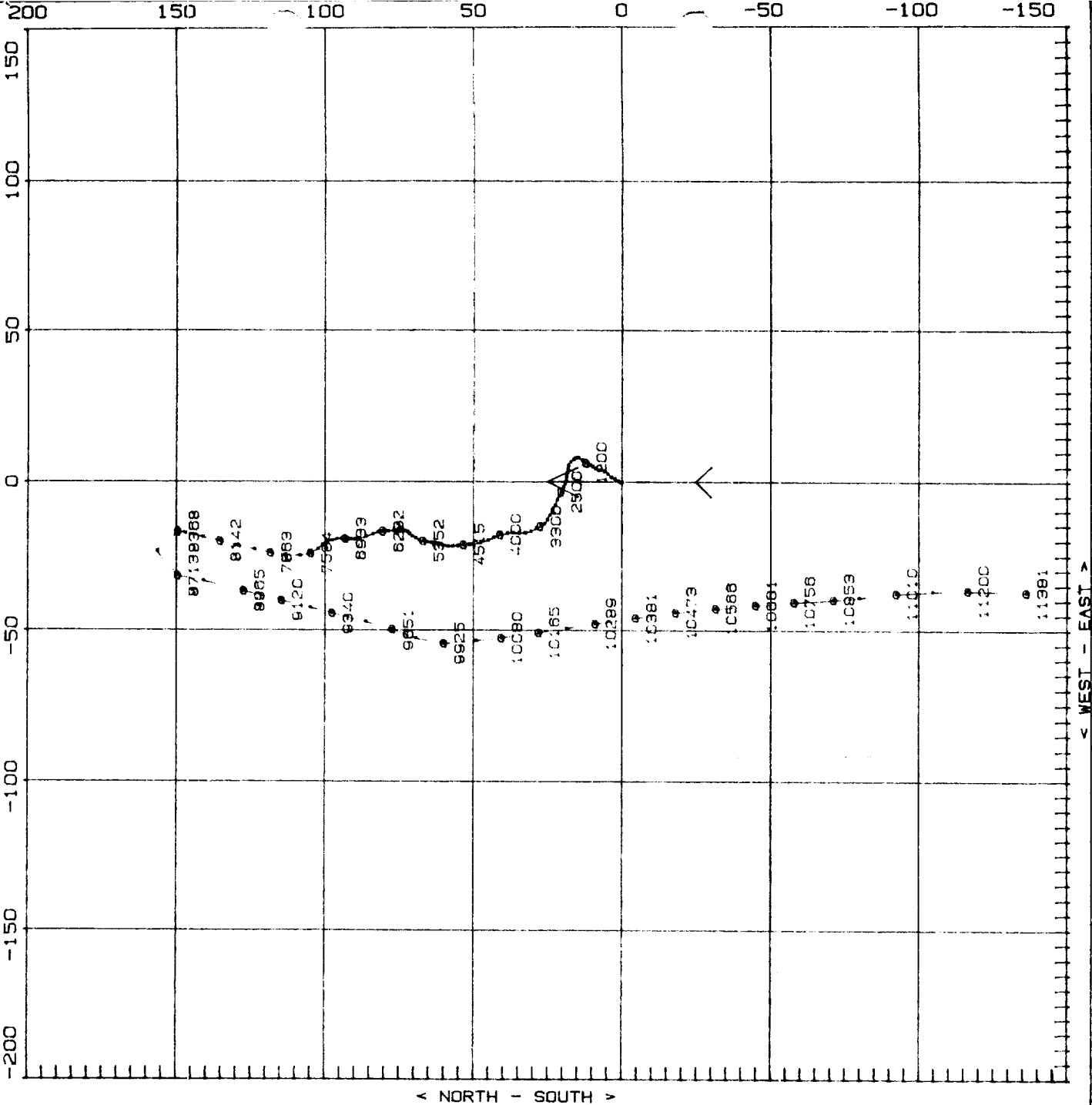
STATE AND COUNTY

FIELD REPORT

CHARLES B. GILLESPIE, JR.

WELL # :
 SHIPP D.A. WELL NO. 1
LOCATION :
 LEA COUNTY, NEW MEXICO
DATE :
 12/15/87, 12/15/87 1/3/88
JOB TYPE :
 CYRO, MULTISHOT, SINGLES
JOB # :
 GS-1972, NS-1973, D-1987
SURVEYOR :
 L. MASSEY, L. MASSEY, D. RODGERS
DEPTHS :
 0'-4450', 4450'-8988', 8988'-11381'
DECL. :
 9 DEGREES EAST
ELEV. :
 0'
FILE # :
 W7-WH115

FINAL STATION DATA:
 MD. : 1381.00
 TVD. : 1360.45
 N/S : -136.46
 E/W : -37.06
 CLOSURE DISTANCE :
 : 41.40 FEET
 CLOSURE DIRECTION :
 S 15.19 W



1 IN. = 50 FT.

RECEIVED

JAN 22 1988

OCD
HCCAS OFFICE

CUSTOMER ;CHARLES B. GILLESPIE, JR.

WELL # : SHIPP D.A. WELL NO. 1

_LOCATION :LEA COUNTY, NEW MEXICO

DATE : 12/15/87, 12/15/87 - 1/9/88

JOB TYPE :GYRO, MULTISHOT, SINGLESHOT

JOB # :GS-1972, MS-1973, D-1967

SURVEYOR : L. MASSEY, L. MASSEY, D. RODGERS

DEPTHS : 0'-4450', 4450'-8368', 8368'-11381'

DECL. 19 DEGREES EAST

SECRET

FILE # 371-11115

METHOD ; RADIUS OF CURVATURE

SECTION: 1.023.02M NOTED

FINAL STATION DATA!

[illegible]

站名	里程	经度	纬度	海拔	备注				
11361.00	5.50	S 03.00 W	181.00	11360.40	134.67	37.06 W	141.40	S 15.19 W	85

THIS SURVEY IS CORRECT TO THE BEST OF MY KNOWLEDGE AND IS SUPPORTED BY ACTUAL FIELD DATA.

D. A. Rodgers

ORIGINAL REPRESENTATIVE

[illegible]

CHARLES R. GILLESPIE, JR.
SHIPP D.A. WELL NO. 1
WT-HH119

PAGE 1
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00/00/00

MEASURED	INCL.	HOLE	COURSE	VERTICAL	SECTION	RECTANGULAR	C L O S U R E	DISTANCE	DIRECTION	SEVERITY
DEPTH	ANGLE	DIRECTION	LENGTH	DEPTH	SECTION	COORDINATES	DISTANCE	DIRECTION	SEVERITY	
FEET	DEGS.	DEGS.	FEET	FEET	FEET	N/S	E/W	FEET	DIGS.	DO/100FT
0.00	0.00	** ** *	0.00	0.00	0.00	0.00 N	0.00 E	0.00	N 00.00 E	0.00
100.00	.20	N 64.00 W	100.00	.02	.16 W	.08 N	.16 W	.17	N 64.00 W	.20
200.00	.20	N 32.00 E	100.00	-1.10	.24 W	.37 N	.24 W	.45	N 32.92 W	.30
300.00	.80	N 39.00 E	100.00	-1.05	.26 E	1.08 N	.26 E	1.12	N 13.70 E	.50
400.00	.70	N 26.00 E	100.00	-2.55	1.00 E	2.35 N	1.00 E	2.56	N 24.43 E	.22
500.00	.70	N 27.00 E	100.00	-3.92	1.68 E	3.58 N	1.68 E	3.96	N 25.16 E	.20
600.00	1.00	N 60.00 E	100.00	-5.36	2.69 E	4.64 N	2.69 E	5.37	N 30.09 E	.50
700.00	.80	N 17.00 E	100.00	-6.89	3.64 E	5.84 N	3.64 E	6.89	N 31.95 E	.59
800.00	.90	N 19.00 E	100.00	-8.32	4.10 E	7.25 N	4.10 E	8.33	N 29.49 E	.10
900.00	1.00	N 23.00 E	100.00	-9.94	4.70 E	8.80 N	4.70 E	9.98	N 20.07 E	.12
1000.00	.40	N 49.00 E	100.00	-11.15	5.41 E	9.78 N	5.41 E	11.18	N 28.94 E	.65
1100.00	.80	N 15.00 E	100.00	-12.18	5.96 E	10.66 N	5.96 E	12.21	N 29.20 E	.52
1200.00	.90	N 35.00 E	100.00	-13.64	6.58 E	12.00 N	6.58 E	13.68	N 28.75 E	.31
1300.00	.90	N 31.00 E	100.00	-15.21	7.43 E	13.31 N	7.43 E	15.25	N 29.10 E	.01
1400.00	.90	N 30.00 E	100.00	-16.78	8.32 E	14.61 N	8.32 E	16.81	N 29.63 E	.11
1500.00	.30	N 57.00 W	100.00	-17.42	8.17 E	15.52 N	8.17 E	17.54	N 29.76 E	.97
1600.00	.70	N 21.00 W	100.00	-17.73	7.63 E	16.19 N	7.63 E	17.90	N 25.23 E	.49
1700.00	.70	N 51.00 W	100.00	-18.23	6.82 E	17.31 N	6.82 E	18.60	N 21.50 E	.45
1800.00	.70	N 71.00 W	100.00	-18.13	5.60 E	17.98 N	5.60 E	18.83	N 17.31 E	.34
1900.00	.70	S 01.00 W	100.00	-17.56	4.40 E	13.09 N	4.40 E	18.61	N 13.62 E	.34
2000.00	.80	N 67.00 W	100.00	-17.00	3.12 E	18.24 N	3.12 E	18.51	N 09.69 E	.42
2100.00	.80	N 85.00 W	100.00	-15.53	1.77 E	18.57 N	1.77 E	18.65	N 05.43 E	.26
2200.00	.80	N 85.00 W	100.00	-15.86	.37 E	18.60 N	.37 E	18.68	N 01.14 E	.01
2300.00	.50	N 50.00 W	100.00	-15.60	.60 W	19.05 N	.60 W	19.07	N 02.06 W	.44
2400.00	.90	N 80.00 W	100.00	-15.52	1.72 W	19.70 N	1.72 W	19.78	N 04.99 W	.40

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CHARLES B. GILLESPIE, JR.
 SHIPP O.A. WELL NO. 1
 WT-RH115

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 00:20:09
 00/00/00

MEASURED INCL. HOLE DIRECTION COURSE LENGTH VERTICAL DEPTH TRUE VERTICAL SECTION RECORDINATES C L O S U R E DUG-LED
 DEPTH ANGLE DEGS. DEGS. FEET FEET FEET N/S FEET FEET DISTANCE DIRECTION SEVERITY
 FEET DEGS. DEGS. FEET -E-W DEGS. DEGS. FEET

2500.00	1.10	N 73.00 W	100.00	2499.79	-15.29	20.32 N	3.32 W	20.60'	N 07.24 W	30
2600.00	.70	N 56.00 W	100.00	2599.77	-15.09	21.07 N	4.73 W	21.59'	N 12.65 W	.48
2700.00	1.00	N 74.00 W	100.00	2699.76	-14.80	21.69 N	6.07 W	22.53'	N 15.63 W	.40
2800.00	1.10	N 62.00 W	100.00	2799.74	-14.45	22.30 N	7.80 W	23.63'	N 17.26 W	.16
2900.00	1.20	N 55.00 W	100.00	2899.72	-14.31	23.20 N	9.55 W	25.16'	N 22.30 W	.26
3000.00	1.10	N 64.00 W	100.00	2999.70	-14.22	24.29 N	11.28 W	26.78'	N 24.90 W	.21
3100.00	.70	N 60.00 W	100.00	3099.68	-13.95	25.00 N	12.87 W	28.12'	N 27.24 W	.21
3200.00	1.10	N 45.00 W	100.00	3199.67	-14.09	25.98 N	14.30 W	29.66'	N 28.82 W	.47
3300.00	.70	N 14.00 W	100.00	3299.66	-14.74	27.35 N	15.04 W	31.21'	N 20.80 W	.59
3400.00	1.20	N 30.00 W	100.00	3399.64	-15.58	28.83 N	15.76 W	32.85'	N 28.66 W	.63
3500.00	1.10	N 12.00 W	100.00	3499.62	-16.57	30.60 N	16.68 W	34.85'	N 20.60 W	.43
3600.00	1.20	N 14.00 W	100.00	3599.60	-17.90	32.53 N	17.22 W	36.81'	N 27.89 W	.12
3700.00	1.10	N 12.00 E	100.00	3699.58	-19.54	34.52 N	17.25 W	38.59'	N 26.55 W	.53
3800.00	1.20	N 08.00 W	100.00	3799.56	-21.25	35.52 N	17.18 W	40.36'	N 25.20 W	.41
3900.00	1.10	N 05.00 W	100.00	3899.54	-22.80	38.51 N	17.41 W	42.26'	N 24.33 W	.12
4000.00	1.20	N 14.00 W	100.00	3999.51	-24.60	40.92 N	17.81 W	44.63'	N 23.52 W	.64
4100.00	1.10	N 32.00 W	100.00	4099.48	-25.96	43.16 N	18.76 W	47.06'	N 23.50 W	.74
4200.00	1.20	N 22.00 W	100.00	4199.46	-27.01	45.02 N	19.71 W	49.15'	N 23.65 W	.29
4300.00	1.20	N 12.00 W	100.00	4299.43	-28.69	47.52 N	20.48 W	51.75'	N 23.31 W	.43
4400.00	1.20	N 13.00 W	100.00	4399.39	-30.46	49.99 N	21.02 W	54.23'	N 22.81 W	.50
4500.00	1.70	N 01.00 E	50.00	4449.38	-31.44	51.25 N	21.16 W	55.44'	N 22.43 W	1.22
4515.00	1.60	N 07.00 W	60.00	4514.35	-32.95	53.12 N	21.25 W	57.21'	N 21.81 W	.39
4600.00	1.00	N 06.00 W	93.00	4607.33	-34.56	55.21 N	21.49 W	59.25'	N 21.27 W	.65
4701.00	1.10	N 06.00 W	93.00	4700.31	-35.91	56.91 N	21.67 W	60.89'	N 20.85 W	.11
4794.00	1.00	N 00.00 E	93.00	4793.30	-37.20	58.61 N	21.76 W	62.52'	N 20.37 W	.16

CHARLES B. GILLESPIE, JR.
SHIP D.A. WELL NO. 1
WI-RH115

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00:21:06
00/00/00

MEASURED		INCL.	HOLE	COURSE	VERTICAL	TRUE	VERTICAL	SECTION	RECTANGULAR	C L O S U R E	DIRECTION	SEVERITY
DEPTH	FEET	ANGLE	DIRECTION	LENGTH	DEPTH	FEET	FEET	FEET	COORDINATES	DISTANCE	DIRECTION	DEG/100FT
		DEGS.	DPLGS.	FEET					N/S	feet	DPLGS.	
4887.00	1.00		N 26.00 E	93.00	4886.28		-38.80		60.18 N	21.40 W	63.87' N 19.58 W	.48
4980.00	1.00		N 07.00 E	93.00	4979.27		-40.34		61.72 N	20.94 W	65.18' N 18.74 W	.35
5073.00	.70		N 18.00 E	93.00	5072.20		-41.63		63.07 N	20.64 W	66.36' N 18.12 W	.37
5166.00	.70		N 00.00 E	93.00	5165.25		-42.67		64.19 N	20.46 W	67.37' N 17.68 W	.24
5259.00	1.00		N 22.00 E	93.00	5258.13		-43.94		65.63 N	20.20 W	68.58' N 17.13 W	.47
5352.00	.60		N 08.00 E	93.00	5351.24		-45.17		66.78 N	19.87 W	69.68' N 15.57 W	.49
5445.00	1.10		N 12.00 E	93.00	5444.27		-46.44		68.14 N	19.63 W	70.91' N 15.07 W	.54
5538.00	.70		N 49.00 E	93.00	5537.21		-47.97		69.38 N	18.90 W	71.91' N 15.24 W	.74
5631.00	1.00		N 11.00 E	93.00	5630.21		-49.23		70.55 N	18.22 W	72.87' N 14.48 W	.57
5724.00	.50		N 62.00 E	93.00	5723.17		-50.40		71.50 N	17.52 W	73.61' N 13.77 W	.85
5817.00	.70		N 42.00 E	93.00	5816.10		-51.32		72.10 N	16.76 W	74.02' N 13.09 W	.31
5910.00	.80		N 18.00 W	93.00	5909.18		-52.40		73.23 N	16.52 W	75.07' N 12.71 W	.81
6003.00	1.20		N 06.00 E	93.00	6002.16		-53.66		74.84 N	16.68 W	76.67' N 12.57 W	.61
6096.00	1.20		N 00.00 E	93.00	6095.14		-55.34		76.78 N	16.58 W	78.55' N 12.19 W	.14
6189.00	1.10		N 01.00 W	93.00	6188.12		-56.90		78.65 N	16.60 W	80.38' N 11.92 W	.11
6282.00	1.00		N 02.00 W	93.00	6281.17		-58.30		98.35 N	16.64 W	82.05' N 11.78 W	.11
6375.00	1.00		N 20.00 W	93.00	6374.07		-59.46		81.94 N	16.95 W	83.67' N 11.69 W	.34
6468.00	1.40		N 19.00 W	93.00	6467.07		-60.65		83.77 N	17.60 W	85.60' N 11.87 W	.43
6561.00	1.70		N 22.00 W	93.00	6560.04		-62.14		85.13 N	18.48 W	88.09' N 12.11 W	.33
6654.00	1.10		N 14.00 W	93.00	6653.01		-63.57		88.29 N	19.18 W	90.35' N 12.26 W	.28
6747.00	.70		N 01.00 E	93.00	6746.08		-64.82		89.90 N	19.37 W	91.96' N 12.16 W	.35
6840.00	1.00		N 04.00 E	93.00	6838.98		-66.15		91.44 N	19.30 W	93.45' N 11.92 W	.12
6933.00	.90		N 03.00 E	93.00	6931.97		-67.49		92.97 N	19.21 W	94.94' N 11.67 W	.11
7026.00	.80		N 02.00 E	93.00	7024.96		-68.66		94.35 N	19.15 W	96.28' N 11.47 W	.11
7119.00	1.10		N 09.00 W	93.00	7117.95		-69.92		95.89 N	19.24 W	97.80' N 11.35 W	.38

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CHARLES B. GILLESPIE, JR.
SHIPP D.A. WELL NO. 1
WT-HH115

PAGE 4
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00/00/00

MEASURED	INCL.	HOLE	COURSE	VERTICAL	VERTICAL	RECTANGULAR	C L O S U R E	DUG-LEG
DEPTH	ANGLE	DIRECTION	LENGTH	DEPTH	SECTION	COORDINATES	DISTANCE	DIRECTION
FEET	DEGS.	DEGS.	FEET	FEET	FEET	N/S	E/W	FEET
								DEGS.
7212.00	1.00	N 21.00 W	93.00	7210.93	-71.05	97.53 N	19.68 W	97.50' N 11.41 W
7305.00	1.20	N 18.00 W	93.00	7303.91	-72.14	99.22 N	20.28 W	101.27' N 11.55 W
7398.00	1.00	N 45.00 W	93.00	7396.90	-72.90	100.72 N	21.20 W	102.93' N 11.89 W
7491.00	1.50	N 41.00 W	93.00	7489.87	-73.39	102.21 N	22.58 W	104.67' N 12.46 W
7584.00	1.90	N 21.00 W	93.00	7582.66	-74.59	104.56 N	24.00 W	107.28' N 12.93 W
7677.00	2.80	N 03.00 W	93.00	7675.77	-77.28	108.27 N	24.79 W	111.08' N 12.89 W
7770.00	3.20	N 05.00 E	93.00	7768.60	-81.40	113.14 N	24.70 W	115.80' N 12.32 W
7863.00	3.00	N 14.00 E	93.00	7861.49	-85.01	118.09 N	23.87 W	120.48' N 11.43 W
7956.00	3.80	N 10.00 E	93.00	7954.32	-91.15	123.49 N	22.73 W	125.56' N 10.43 W
8049.00	3.70	N 17.00 E	93.00	8047.13	-96.89	129.40 N	21.31 W	131.14' N 09.35 W
8142.00	3.60	N 10.00 E	93.00	8139.94	-102.46	135.15 N	19.93 W	136.61' N 08.39 W
8235.00	3.80	N 16.00 E	93.00	8232.74	-108.19	141.00 N	18.58 W	142.21' N 07.51 W
8328.00	3.70	N 10.00 E	93.00	8325.55	-113.81	146.92 N	17.21 W	147.92' N 06.68 W
8360.00	3.30	N 06.00 E	40.00	8355.47	-116.01	149.34 N	16.87 W	150.29' N 06.45 W
8357.00	3.25	N 00.00 W	109.00	8354.16	-118.51	156.45 N	23.20 W	158.10' N 00.46 W
8713.00	5.50	S 11.00 W	156.00	8709.70	-108.03	149.47 N	31.75 W	152.81' N 11.99 W
8808.00	5.25	S 12.00 W	95.00	8804.20	-99.75	140.75 N	33.52 W	144.69' N 13.46 W
8960.00	5.00	S 15.00 W	137.00	8950.60	-86.53	127.12 N	36.80 W	132.33' N 16.15 W
9120.00	4.75	S 13.00 W	155.00	9115.07	-74.00	114.33 N	39.98 W	121.12' N 19.28 W
9242.00	4.50	S 14.00 W	122.00	9236.19	-64.81	104.77 N	42.28 W	112.99' N 21.98 W
9340.00	4.50	S 16.00 W	90.00	9334.39	-57.50	97.34 N	44.27 W	106.94' N 24.46 W
9498.00	4.00	S 13.00 W	150.00	9491.96	-46.39	86.01 N	47.20 W	98.11' N 28.76 W
9651.00	3.00	S 10.00 W	153.00	9644.67	-37.49	77.01 N	49.70 W	91.65' N 32.84 W
9805.00	3.25	S 25.00 W	154.00	9798.41	-29.27	69.20 N	52.77 W	87.03' N 37.33 W
9925.00	0.00	S 05.00 E	120.00	9918.04	-20.47	59.78 N	54.43 W	80.85' N 42.32 W

ORIGINAL K.O.P. AT 8400' MD

SIDE TRACK FISH AT 9065' MD

CHARLES B. GILLESPIE, JR.
SHIPP D.A. WELL NO. 1
WT-HH115

PAGE 5
00:22:57
00/00/00

MEASURED INCL. HOLE COURSE VERTICAL DEPTH VERTICAL SECTION FEET E/W DEGS. DISTANCE DIRECTION SEVERITY
FEET DEGS. FEET FEET FEET DEGS. FEET DEGS. DG/100FT

10018.00	7.50	S	05.00	E	93.00	10010.39	-11.85	48.90	N	53.40	W	72.46	N	47.56	W	1.61
10080.00	8.25	S	07.00	E	62.00	10071.81	-5.25	40.45	N	52.59	W	66.35	N	52.44	W	1.29
10165.00	9.00	S	09.00	E	85.00	10155.84	4.36	27.83	N	50.82	W	57.94	N	61.30	W	.95
10225.00	7.00	S	09.00	E	60.00	10215.10	11.34	18.55	N	49.35	W	52.72	N	69.40	W	0.00
10289.00	8.75	S	09.00	E	64.00	10278.34	18.57	8.80	N	47.81	W	48.61	N	79.57	W	.39
10381.00	8.50	S	08.00	E	92.00	10359.36	29.00	4.84	S	45.77	W	46.02	S	83.96	W	.32
10473.00	8.50	S	07.00	E	92.00	10450.27	39.34	18.32	S	43.99	W	47.66	S	67.39	W	.16
10560.00	8.25	S	05.00	E	93.00	10552.30	49.25	31.80	S	42.58	W	53.14	S	53.25	W	.41
10661.00	8.00	S	05.00	E	95.00	10646.30	50.44	45.17	S	41.41	W	61.28	S	42.51	W	.26
10756.00	7.75	S	04.00	E	95.00	10740.40	70.75	58.13	S	40.38	W	70.80	S	34.78	W	.30
10853.00	8.00	S	03.00	E	97.00	10836.53	81.44	71.41	S	39.57	W	81.54	S	28.99	W	.29
10916.00	7.75	S	07.00	E	63.00	10898.94	88.24	80.01	S	38.82	W	88.93	S	25.88	W	.96
11010.00	7.75	S	05.00	E	94.00	10992.00	98.09	92.62	S	37.50	W	99.92	S	22.04	W	.29
11104.00	7.25	S	02.00	E	94.00	11085.27	107.95	104.86	S	36.75	W	111.11	S	19.31	W	.68
11200.00	7.00	S	00.00	E	96.00	11180.53	117.82	116.77	S	35.54	W	122.35	S	17.38	W	.37
11301.00	5.50	S	03.00	W	181.00	11350.45	134.51	136.46	S	37.06	W	141.40	S	15.19	W	.85

CLOSURE DISTANCE = 141.40 FEET
CLOSURE DIRECTION = S 15.19 W

RECEIVED

JAN 22 1988
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