

SUB-SURFACE  
DIRECTIONAL  
SURVEY  
REPORT

CHARLES B. GILLESPIE, JR.

COMPANY

SHIPP WELL NO. 2

WELL NAME

LEA COUNTY, NEW MEXICO

STATE AND COUNTY

CERTIFIED REPORT

CHARLES B. GILLESPIE, JR.

WELL # 2  
SHIPPE WELL NO. 2

LOCATION: SAN JUAN COUNTY, NEW MEXICO

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7/26/87 - 7/29/87 - 7/29/87 - 7/29/87

TYPE.

MILITARY SINKING

JOB # 1

SURVEYOR : — MASSEY, L. MASSEY, B. BURKE

- 5 -

-4440'. -

DEC. 1.

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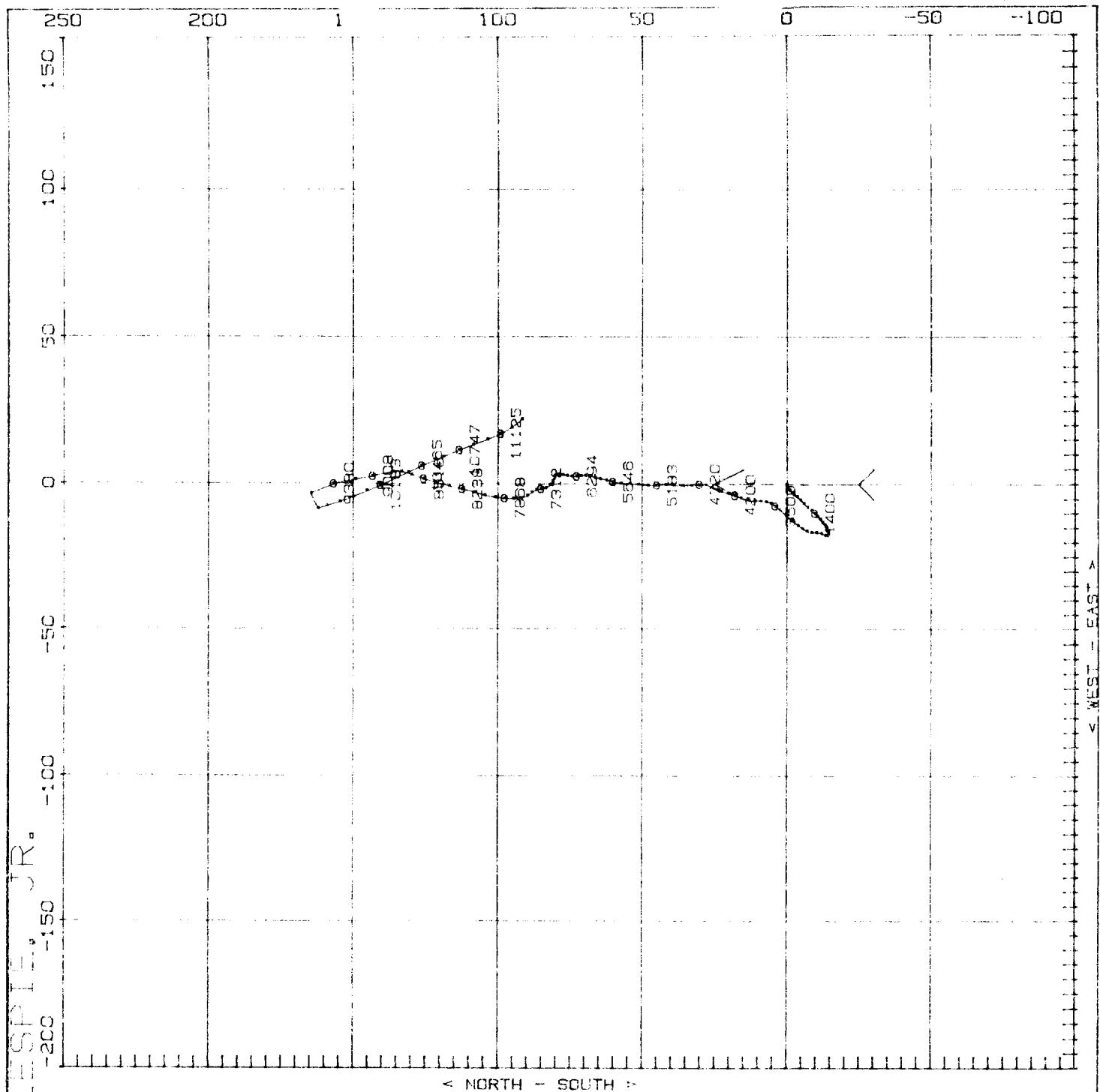
\*\*\*\*\* STATION DATA.

MB.	11405.00
TVD.	11399.87
N/S	91.61
E/W	22.18

DISCLOSURE DISTANCE

ENCLOSURE DIRECTION  
N 13-61 E

• 50



AUGUST WEST V.

CUSTOMER : CHARLES B. GILLESPIE, JR.

WELL #: SHIPPE WELL NO. 2

LOCATION : LEA COUNTY, NEW MEXICO

DATE : 7/20/87, 7/20/87, 7/23/87-8/01/87

WELL TYPE : GYRO, MULTISHOT, SINGLESHOT

\* # : MSS-1861, GS-1862, D-1863

TOE YOR : L, PASSER, L, PASSER, BOTTOM

DIP THIS : 0' - 444.0', 444.0' - 829.4', 829.4' - 1346.5'

DECL. : 19 DEGREES EAST

ELEV. : 10'

FILE #: WTP-DIPS

METHOD : RADIUS OF CURVATURE

SECTION : 0

FINAL STATION DATA :

PLAUGED & HULL : HOLE 3 RECENTLY DRILLED  
DEPTH : 5 FEET  
ANGLE : 0 DEGREE  
FEET : 0 FEET  
BGS : 0 PLGS.  
TRUE : TRUE  
DIRECTION : N/S  
DISTANCE : 0 FEET  
N/S : 0 FEET  
FILE : DIPS  
DIG : DIG/100FT  
REPRESENTATIVE :  
LARRY ROSS

11405.0 1.75 5 43.00 E 154.00 11399.87 91.61 N 29.18 E 94.26 N 13.61 E 10

RECEIVED  
SEP 11 1981  
OCD  
HOBBS OFFICE

CHARLES B. GARNER SP-15, JR.  
SHIP WELL NO. 2  
WT-B675

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06/07/09

MEASURED DEPTH FLEET	ANGLE DEGS.	HOLE #	DIRECTION #	COURSE #	TRUE W.	COURSE IN MILITIA DEPTH	CHANGING CLOUDS FEET	DISTANCE TO FLEET	EAST FLEET DEGS.	EAST FLEET DEGS.	EAST FLEET DEGS.	EAST FLEET DEGS.	EAST FLEET DEGS.
									E	N	S	W	
0.00	0.00	0	0	0.00	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00
100.00	.10	8	N	45.00	E	100.00	0	0.97	0	0.00	0.00	0.00	0.00
200.00	.20	7	N	65.00	W	100.00	0	1.21	0	0.00	0.00	0.00	0.00
300.00	.30	6	N	55.00	W	100.00	0	1.25	0	0.00	0.00	0.00	0.00
390.00	.40	5	S	55.00	W	100.00	0	1.25	0	0.00	0.00	0.00	0.00
400.00	.50	4	S	55.00	W	100.00	0	1.25	0	0.00	0.00	0.00	0.00
500.00	.60	3	S	45.00	E	100.00	0	1.25	0	0.00	0.00	0.00	0.00
600.00	.70	2	S	25.00	E	100.00	0	1.25	0	0.00	0.00	0.00	0.00
700.00	.80	1	S	55.00	W	100.00	0	1.25	0	0.00	0.00	0.00	0.00
800.00	.90	0	S	25.00	E	100.00	0	1.25	0	0.00	0.00	0.00	0.00
900.00	1.00			35.00	W	100.00	0	1.25	0	0.00	0.00	0.00	0.00
1000.00				25.00	E	100.00	0	1.25	0	0.00	0.00	0.00	0.00
1100.00				15.00	E	100.00	0	1.25	0	0.00	0.00	0.00	0.00
1200.00				1.00	E	100.00	0	1.25	0	0.00	0.00	0.00	0.00
1300.00				1.00	E	100.00	0	1.25	0	0.00	0.00	0.00	0.00
1400.00				1.00	E	100.00	0	1.25	0	0.00	0.00	0.00	0.00
1500.00				1.00	E	100.00	0	1.25	0	0.00	0.00	0.00	0.00
1600.00				1.00	E	100.00	0	1.25	0	0.00	0.00	0.00	0.00
1700.00				1.00	E	100.00	0	1.25	0	0.00	0.00	0.00	0.00
1800.00				1.00	E	100.00	0	1.25	0	0.00	0.00	0.00	0.00
1900.00				1.00	E	100.00	0	1.25	0	0.00	0.00	0.00	0.00
2000.00				1.00	E	100.00	0	1.25	0	0.00	0.00	0.00	0.00
2100.00				1.00	E	100.00	0	1.25	0	0.00	0.00	0.00	0.00
2200.00				1.00	E	100.00	0	1.25	0	0.00	0.00	0.00	0.00
2300.00				1.00	E	100.00	0	1.25	0	0.00	0.00	0.00	0.00
2400.00				1.00	E	100.00	0	1.25	0	0.00	0.00	0.00	0.00

CHARLES B. GILLESPIE, JR.,  
SHIP WELL NO. 2  
WT-D7S

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00/00/00

MEASURED	ANGLE	ROPE	TRUE	COUSE	WIND DIRECTION	DISTANCE	L L O S U A E S		BEG-LIN
							DEG.	DEG.	
DEG.	DEG.	DEG.	DEG.	DEG.	DEG.	DEG.	E/W	FLEET	DEG./100FT
2500.00	70	3 N 31.00 E	100.00 S	2490.84	15.26 S	17.05 W	22.01 S	52.94 W	6.4
2600.00	1.00	5 N 23.00 E	100.00 S	2609.83	14.94 S	16.89 W	20.69 S	54.73 W	1.02
2700.00	1.10	3 N 02.00 W	100.00 S	2609.82	10.18 S	16.64 W	19.42 S	56.46 W	.91
2800.00	1.70	5 N 05.00 E	100.00 S	2609.83	10.41 S	16.92 W	18.56 S	53.05 W	.89
2900.00	1.00	5 N 24.00 E	100.00 S	2609.79	10.61 S	16.01 W	19.43 S	60.90 W	1.02
3000.00	1.00	1 N 00.00 E	100.00 S	2609.75	10.60 S	15.20 W	19.05 S	59.34 W	1.02
3100.00	1.50	1 N 38.00 E	100.00 S	3109.75	1.91 S	12.51 W	12.63 S	81.81 S	.91
3200.00	1.50	5 N 41.00 E	100.00 S	3109.72	1.91 S	10.67 W	10.67 S	80.35 W	.91
3200.00	1.70	5 N 43.00 E	100.00 S	3109.68	1.51 N	9.18 S	9.18 N	74.65 W	.91
3400.00	1.50	5 N 40.00 E	100.00 S	3309.64	2.43 N	8.85 W	8.85 N	74.65 W	.91
3600.00	1.00	5 N 32.00 E	100.00 S	3609.62	4.12 N	7.49 W	9.49 S	60.59 W	.91
3600.00	1.50	1 N 38.00 E	100.00 S	3609.61	5.60 N	6.30 W	8.56 S	40.26 W	.91
3700.00	1.50	5 N 41.00 E	100.00 S	3709.58	7.21 N	5.85 W	9.37 S	36.42 W	.91
3700.00	1.70	5 N 43.00 E	100.00 S	3709.60	7.21 N	5.55 W	10.67 S	31.11 W	.91
3800.00	1.50	5 N 40.00 E	100.00 S	3809.54	11.02 N	5.40 W	12.50 S	25.99 W	.91
3800.00	1.10	5 N 40.00 E	100.00 S	3809.62	4.12 N	7.49 W	9.49 S	60.59 W	.91
3800.00	1.00	5 N 27.00 E	100.00 S	3809.61	5.60 N	6.30 W	8.56 S	40.26 W	.91
3900.00	1.00	5 N 11.00 E	100.00 S	3909.58	7.21 N	5.85 W	9.37 S	36.42 W	.91
3900.00	1.00	5 N 07.00 E	100.00 S	3909.59	7.21 N	5.55 W	10.67 S	31.11 W	.91
3900.00	1.00	5 N 04.00 E	100.00 S	3909.55	11.02 N	5.40 W	12.50 S	25.99 W	.91
4000.00	1.50	5 N 14.00 E	100.00 S	3909.52	11.62 N	5.27 W	14.64 S	21.60 W	.91
4100.00	1.30	5 N 22.00 E	100.00 S	4109.49	15.93 N	4.51 N	16.61 S	15.76 W	.91
4200.00	1.20	5 N 21.00 E	100.00 S	4109.46	16.01 N	5.71 N	18.39 S	11.66 W	.91
4300.00	1.50	5 N 08.00 E	100.00 S	4309.44	14.95 N	5.12 N	20.50 S	9.75 W	.91
4400.00	0.80	5 N 04.00 E	100.00 S	4309.40	10.43 N	2.43 N	22.93 S	9.07 W	.91
4440.00	1.20	2 N 12.00 E	100.00 S	4443.20	3.90 S	2.51 S	2.10 S	05.05 W	.91
4472.00	1.50	5 N 31.00 E	100.00 S	4472.00	3.80 S	1.76 S	24.44 S	04.19 W	1.43
4524.00	1.70	5 N 26.00 E	100.00 S	4524.00	3.60 S	1.96 S	25.91 S	02.12 W	.39
4627.00	1.20	5 N 09.00 E	100.00 S	4627.00	3.33 S	2.50 S	28.13 S	00.57 W	.70
4720.00	1.50	5 N 05.00 E	100.00 S	4720.00	3.30 S	1.44 S	30.31 S	00.23 W	.43

CHARLES B. GILLESPIE, JR.,  
SHIPP WELL, MD. 2  
WT-5775

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MEASURED DEPTH FEET	INCL. DEGREES	TRUE ANGLE DEGREES.	HOLE DEPTH FEET	COURSE LENGTH FEET	VERTICAL DEPTH FEET	DISTANCE DIRECTED N/S FEET		DISTANCE DIRECTED E/W FEET		TRUE COURSE AND DISTANCE N/S FEET	
						TRUE COURSE AND DISTANCE E/W FEET	TRUE COURSE AND DISTANCE N/S FEET	TRUE COURSE AND DISTANCE E/W FEET	TRUE COURSE AND DISTANCE N/S FEET	TRUE COURSE AND DISTANCE E/W FEET	TRUE COURSE AND DISTANCE N/S FEET
4812.00	0	1.90	48 N 00' 00" W	92.00	0	4011.26	56.93 N	34.03 E	00.70 N	00.70 E	.46
4905.00	0	1.60	48 N 02' 00" E	93.00	0	4004.21	56.92 N	36.04 E	00.88 N	00.88 E	.36
4997.00	0	2.00	48 N 05' 00" E	92.00	0	3975.15	57.97 N	39.02 E	00.55 N	00.55 E	.24
5090.00	0	1.70	48 N 08' 00" E	94.00	0	3939.11	58.97 N	42.04 E	00.55 N	00.55 E	.37
5183.00	0	1.70	48 N 10' 00" E	93.00	0	3916.07	58.97 N	42.04 E	00.55 N	00.55 E	.37
5275.00	0	2.00	48 N 13' 00" E	92.00	0	3874.01	59.93 N	45.07 E	00.60 N	00.60 E	.41
5368.00	0	2.00	48 N 15' 00" E	93.00	0	3850.93	59.93 N	45.07 E	00.60 N	00.60 E	.41
5460.00	0	1.60	48 N 18' 00" E	92.00	0	3848.91	59.93 N	44.37 E	00.14 N	00.14 E	.23
5553.00	0	2.00	48 N 20' 00" E	93.00	0	3835.85	59.93 N	45.45 E	00.20 N	00.20 E	.24
5646.00	0	1.60	48 N 23' 00" E	93.00	0	3834.81	59.93 N	46.25 E	00.67 E	00.67 E	.73
5738.00	0	1.50	48 N 25' 00" E	92.00	0	3833.78	59.93 N	47.12 E	01.57 E	01.57 E	.85
5831.00	0	1.20	48 N 27' 00" E	93.00	0	3829.75	59.93 N	48.72 E	01.57 E	01.57 E	.85
5923.00	0	1.10	48 N 29' 00" E	92.00	0	3821.74	59.93 N	50.51 E	01.60 E	01.60 E	.85
6016.00	0	1.00	48 N 31' 00" E	93.00	0	3814.72	59.93 N	51.14 E	01.62 E	01.62 E	.85
6109.00	0	1.00	48 N 33' 00" E	93.00	0	3807.71	59.93 N	52.74 E	01.64 E	01.64 E	.85
6201.00	0	.90	48 N 35' 00" E	92.00	0	3800.69	59.93 N	54.26 E	02.24 E	02.24 E	.85
6294.00	0	1.00	48 N 36' 00" E	93.00	0	3792.69	59.93 N	55.80 N	02.94 E	02.94 E	.85
6386.00	0	1.00	48 N 38' 00" E	92.00	0	3784.67	59.93 N	57.40 N	03.06 E	03.06 E	.85
6479.00	0	1.00	48 N 39' 00" E	93.00	0	3777.65	59.93 N	58.01 N	02.12 E	02.12 E	.85
6572.00	0	1.00	48 N 40' 00" E	93.00	0	3770.64	59.93 N	59.61 N	02.26 E	02.26 E	.85
6664.00	0	.80	48 N 42' 00" E	92.00	0	3762.63	59.93 N	61.26 N	02.44 E	02.44 E	.85
6757.00	0	.50	48 N 31' 00" W	93.00	0	3753.62	59.93 N	60.05 N	01.15 E	01.15 E	.55
6849.00	0	.30	48 N 20' 00" W	92.00	0	3747.62	59.93 N	59.42 N	01.78 E	01.78 E	.46
6942.00	0	.50	48 N 20' 00" W	93.00	0	3740.62	59.93 N	60.60 N	01.33 E	01.33 E	.52
7035.00	0	.90	48 N 52' 00" W	93.00	0	3733.61	59.93 N	61.10 N	01.11 E	01.11 E	.45

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SEP 11 1981

OCD  
HOBBES OFFICE

CHARLES F. BILLESPIE, Jr.  
SHIP WELL NO. 2  
WT-ED75

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MEASURED & DEPTH FEET	TRUE ANGLE DEG.	HOLE #	DIRECTION DEG.	COURSE #	LENGTH FEET	CHORD DISTANCE FEET	EASTING H/S FEET	SOUTHING H/S FEET	ELEVATION FEET	EASTING SOUTHING ELEVATION		EASTING SOUTHING ELEVATION	
										DIGS-LG	DIGS-SM	DIGS-LG	DIGS-SM
7127.00	1.00	4 N 47.00 E	92.00	7 N 25.60 E	67.00	52.40 N	52.40 N	0.00	000.00	000.00	000.00	000.00	000.00
7220.00	1.20	5 N 24.00 E	92.00	7 N 19.56 E	62.40	52.40 N	52.40 N	0.00	000.00	000.00	000.00	000.00	000.00
7312.00	1.00	6 N 02.00 E	92.00	7 N 01.56 E	62.40	52.40 N	52.40 N	0.00	000.00	000.00	000.00	000.00	000.00
7405.00	1.00	7 N 22.00 W	92.00	7 N 05.56 E	62.40	52.40 N	52.40 N	0.00	000.00	000.00	000.00	000.00	000.00
7496.00	1.20	8 N 34.00 W	92.00	7 N 09.56 E	62.40	52.40 N	52.40 N	0.00	000.00	000.00	000.00	000.00	000.00
7570.00	1.30	9 N 35.00 E	92.00	8 N 52.51 N	90.00	52.40 N	52.40 N	0.00	000.00	000.00	000.00	000.00	000.00
7653.00	1.50	10 N 05.00 E	92.00	8 N 01.40 N	52.40	52.40 N	52.40 N	0.00	000.00	000.00	000.00	000.00	000.00
7755.00	1.60	11 N 03.00 E	92.00	8 N 23.40 N	94.76	52.40 N	52.40 N	0.00	000.00	000.00	000.00	000.00	000.00
7868.00	1.90	12 N 07.00 E	92.00	8 N 39.39 N	97.76	52.40 N	52.40 N	0.00	000.00	000.00	000.00	000.00	000.00
7961.00	2.20	13 N 07.00 E	92.00	8 N 59.34 N	101.06	52.40 N	52.40 N	0.00	000.00	000.00	000.00	000.00	000.00
8053.00	2.20	14 N 13.00 E	92.00	8 N 51.27 N	104.54	52.40 N	52.40 N	0.00	000.00	000.00	000.00	000.00	000.00
8146.00	2.60	15 N 17.00 E	92.00	8 N 14.18 N	108.20	52.40 N	52.40 N	0.00	000.00	000.00	000.00	000.00	000.00
8238.00	2.80	16 N 11.00 E	92.00	8 N 26.08 N	112.50	52.40 N	52.40 N	0.00	000.00	000.00	000.00	000.00	000.00
8331.00	2.70	17 N 14.00 E	92.00	8 N 32.98 N	116.86	52.40 N	52.40 N	0.00	000.00	000.00	000.00	000.00	000.00
8424.00	3.00	18 N 16.00 E	92.00	8 N 42.86 N	121.32	52.40 N	52.40 N	0.00	000.00	000.00	000.00	000.00	000.00
8516.00	2.70	19 N 16.00 E	92.00	8 N 51.75 N	125.72	52.40 N	52.40 N	0.00	000.00	000.00	000.00	000.00	000.00
8609.00	2.70	20 N 23.00 E	92.00	8 N 06.64 N	129.86	52.40 N	52.40 N	0.00	000.00	000.00	000.00	000.00	000.00
8701.00	1.90	21 N 10.00 E	92.00	8 N 69.57 N	132.38	52.40 N	52.40 N	0.00	000.00	000.00	000.00	000.00	000.00
8794.00	2.00	22 N 11.00 E	92.00	8 N 91.51 N	136.53	52.40 N	52.40 N	0.00	000.00	000.00	000.00	000.00	000.00
8808.00	1.75	23 N 15.00 W	92.00	8 N 05.49 N	143.35	52.40 N	52.40 N	0.00	000.00	000.00	000.00	000.00	000.00
8914.00	2.00	24 N 05.00 W	92.00	8 N 31.30 N	149.33	52.40 N	52.40 N	0.00	000.00	000.00	000.00	000.00	000.00
9000.00	2.75	25 N 18.00 W	92.00	8 N 67.14 N	156.87	52.40 N	52.40 N	0.00	000.00	000.00	000.00	000.00	000.00
9056.00	2.50	26 N 26.00 W	92.00	8 N 61.94 N	164.66	52.40 N	52.40 N	0.00	000.00	000.00	000.00	000.00	000.00
9145.00	3.00	27 N 21.00 W	92.00	8 N 41.74 N	162.29	52.40 N	52.40 N	0.00	000.00	000.00	000.00	000.00	000.00
9208.00	3.00	28 N 16.00 W	92.00	8 N 04.65 N	159.16	52.40 N	52.40 N	0.00	000.00	000.00	000.00	000.00	000.00

CHARLES B. GILLESPIE, JR.  
SHIPWELL NO. 2  
11-1075

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MEASURED DEPTH FEET	INCL. ANGLE	HOLE DIRECTION	DEPTH IN FEET	COURSE OF TUNNEL	VERTICAL & HORIZONTAL DISTANCE FROM TUNNEL END	ANGLE OF TUNNEL TO HORIZONTAL	ANGLE OF TUNNEL TO VERTICAL	ANGLE BETWEEN TUNNEL AND HORIZONTAL	ANGLE BETWEEN TUNNEL AND VERTICAL	DIGS.	DIAMETER IN FEET	DIAMETER IN INCHES	DOUGLASS FILE NO.	DOUGLASS FILE NO.	DOUGLASS FILE NO.	DOUGLASS FILE NO.	DOUGLASS FILE NO.	DOUGLASS FILE NO.
9901.00	3.00	S 19.00 E	9	92.00 S 52.00 E	92.00 S 52.00 E	0.00 N	0.00 N	0.00 N	0.00 N	14	1.54	64	14	0.22	14	0.22	14	0.22
9906.00	3.00	S 24.00 E	9	95.00 S 34.00 E	95.00 S 34.00 E	0.00 N	0.00 N	0.00 N	0.00 N	14	1.49	64	14	0.22	14	0.22	14	0.22
10092.00	3.00	S 20.00 E	9	90.00 S 26.00 E	90.00 S 26.00 E	0.00 N	0.00 N	0.00 N	0.00 N	14	1.55	63	14	0.20	14	0.20	14	0.20
10183.00	3.25	S 25.00 E	9	92.00 S 17.00 E	92.00 S 17.00 E	0.00 N	0.00 N	0.00 N	0.00 N	14	1.46	63	14	0.19	14	0.19	14	0.19
10272.00	2.25	S 25.00 E	9	92.00 S 17.00 E	92.00 S 17.00 E	0.00 N	0.00 N	0.00 N	0.00 N	14	1.53	63	14	0.21	14	0.21	14	0.21
10371.00	3.25	S 24.00 E	9	94.00 S 17.00 E	94.00 S 17.00 E	0.00 N	0.00 N	0.00 N	0.00 N	14	1.51	64	14	0.20	14	0.20	14	0.20
10465.00	3.00	S 25.00 E	9	94.00 S 17.00 E	94.00 S 17.00 E	0.00 N	0.00 N	0.00 N	0.00 N	14	1.56	63	14	0.22	14	0.22	14	0.22
10552.00	3.00	S 26.00 E	9	95.00 S 17.00 E	95.00 S 17.00 E	0.00 N	0.00 N	0.00 N	0.00 N	14	1.53	63	14	0.20	14	0.20	14	0.20
10642.00	2.25	S 24.00 E	9	123.00 S 17.00 E	123.00 S 17.00 E	0.00 N	0.00 N	0.00 N	0.00 N	14	1.38	63	14	0.19	14	0.19	14	0.19
10733.00	2.50	S 20.00 E	9	126.00 S 16.68 E	126.00 S 16.68 E	0.00 N	0.00 N	0.00 N	0.00 N	14	1.34	63	14	0.19	14	0.19	14	0.19
10808.00	2.25	S 20.00 E	9	125.00 S 16.68 E	125.00 S 16.68 E	0.00 N	0.00 N	0.00 N	0.00 N	14	1.45	64	14	0.22	14	0.22	14	0.22
11125.00	2.25	S 26.00 E	9	122.00 S 17.00 E	122.00 S 17.00 E	0.00 N	0.00 N	0.00 N	0.00 N	14	1.22	63	14	0.19	14	0.19	14	0.19
11251.00	1.75	S 34.00 E	9	126.00 S 17.00 E	126.00 S 17.00 E	0.00 N	0.00 N	0.00 N	0.00 N	14	1.54	63	14	0.20	14	0.20	14	0.20
11405.00	1.75	S 43.00 E	9	124.00 S 17.00 E	124.00 S 17.00 E	0.00 N	0.00 N	0.00 N	0.00 N	14	1.49	63	14	0.19	14	0.19	14	0.19