



"Symbol of Service"

REPORT of SUB-SURFACE DIRECTIONAL SURVEY

TEXACO, INC.
COMPANY

STATE "AC" WELL NO. 9

WELL NAME

VACUUM FIELD
LEA COUNTY, NEW MEXICO

LOCATION

JOB NUMBER

WT-31864 - WT-31864A
WT-31864B

TYPE OF SURVEY

MAGNETIC MULTIPLE SHOT
SINGLE SHOT

DATE

MARCH 3, 1964
MARCH 25, 1964
MARCH 26, 1964

SURVEY BY
Jack B. Jones, Cecil R. Strasner & R. B. Vickers

OFFICE
Odessa, Texas



RECORD OF SURVEY

CHECKED BY **Assumed Vertical To 375.00** JOB NO. **WT-31864** DATE **March 3, 1964 - March 25, 1964**
WT-31864A & WT-31864B **March 26, 1964**

STATION	MEASURED DEPTH	DRIFT ANGLE	TRUE VERTICAL DEPTH	VERTICAL SECTION	COURSE DEVIATION	DRIFT DIRECTION	RECTANGULAR COORDINATES			
							NORTH	SOUTH	EAST	WEST
1	411 00	0° 30'			0 31	N 43 W	0 23			0 21
2	496 00	0° 30'			0 74	N 36 W	0 83			0 64
3	584 00	0° 30'			0 77	N 53 W	1 29			1 25
4	678 00	0° 30'			0 82	N 50 W	1 82			1 88
5	772 00	0° 30'	772 00		0 82	N 55 W	2 29			2 55
6	866 00	0° 30'			0 82	N 58 W	2 72			3 25
7	960 00	0° 00'			0 00	Vertical	2 72			3 25
8	1054 00	0° 00'			0 00	Vertical	2 72			3 25
9	1148 00	0° 30'			0 82	S 33 E	2 03			2 80
10	1242 00	0° 30'	1242 00		0 82	S 30 E	1 32			2 39
11	1336 00	0° 30'			0 82	S 30 E	0 61			1 98
12	1430 00	0° 45'			1 23	S 10 E		0 60		1 77
13	1524 00	0° 45'			1 23	S 25 E		1 71		1 25
14	1618 00	0° 30'			0 82	S 18 E		2 49		1 00
15	1712 00	0° 15'	1711 98		0 41	S 80 E		2 56		0 60
16	1806 00	0° 15'			0 41	N 60 E		2 35		0 24
17	1900 00	0° 30'			0 82	N 48 E		1 80	0 37	
18	1994 00	0° 30'			0 82	N 70 E		1 52	1 14	
19	2088 00	0° 30'			0 82	N 62 E		1 14	1 86	
20	2182 00	1° 15'	2181 96		2 05	N 82 E		0 85	3 89	
21	2276 00	1° 15'			2 05	N 79 E		0 46	5 90	
22	2370 00	1° 30'			2 46	N 69 E	0 42		8 20	
23	2464 00	1° 30'			2 46	N 60 E	1 65		10 33	
24	2558 00	1° 45'			2 87	N 50 E	3 49		12 53	
25	2652 00	1° 45'	2651 80		2 87	N 52 E	5 26		14 79	



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							NORTH	SOUTH	EAST WEST
26	2746 00	1° 45'			2 87	N 52 E	7 03		17 05
27	2840 00	2° 15'			3 69	N 55 E	9 15		20 07
28	2934 00	2° 15'			3 69	N 51 E	11 47		22 94
29	3028 00	2° 00'			3 28	N 54 E	13 40		25 59
30	3122 00	2° 15'	3121 49		3 69	N 53 E	15 62		28 54
31	3186 00	2° 00'			2 23	N 51 E	17 02		30 27
32	3222 00	1° 45'			1 10	N 45 E	17 80		31 05
33	3306 00	1° 30'			2 20	N 28 E	19 75		32 49
34	3398 00	1° 30'			2 41	N 24 E	21 95		33 47
35	3490 00	1° 45'	3489 33		2 81	N 14 E	24 68		34 15
36	3582 00	1° 30'			2 41	N 27 E	26 83		35 24
37	3674 00	2° 00'			3 21	N 30 E	29 61		36 85
38	3766 00	2° 00'			3 21	N 28 E	32 44		38 93
39	3858 00	1° 45'			2 81	N 27 E	34 94		40 21
40	3950 00	2° 00'	3949 08		3 21	N 24 E	37 87		41 52
41	4042 00	1° 30'			2 41	N 22 E	40 10		42 42
42	4134 00	1° 45'			2 81	N 21 E	42 72		43 43
43	4226 00	2° 00'			3 21	N 27 E	45 58		44 89
44	4318 00	2° 00'			3 21	N 34 E	48 24		46 69
45	4410 00	1° 30'	4408 86		2 41	N 36 E	50 19		48 11
46	4502 00	1° 30'			2 41	N 28 E	52 32		49 24
47	4594 00	2° 00'			3 21	N 26 E	55 21		50 65
48	4686 00	2° 00'			3 21	N 21 E	58 21		51 80
49	4778 00	1° 45'			2 81	N 20 E	60 85		52 76
50	4870 00	2° 15'	4868 60		3 61	N 32 E	63 90		54 67



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							NORTH	SOUTH	EAST	WEST
51	4962 00	1° 30'			2 41	N 36 E	65 85		56 09	
52	5054 00	1° 30'			2 41	N 28 E	67 98		57 22	
53	5146 00	1° 00'			1 61	N 33 E	69 33		57 95	
54	5238 00	1° 15'			2 01	N 52 E	70 57		59 53	
55	5330 00	1° 00'	5328 50		1 61	N 47 E	71 67		60 71	
56	5422 00	0° 30'			0 80	N 53 E	72 15		61 35	
57	5514 00	0° 45'			1 20	N 74 E	72 48		62 50	
58	5606 00	0° 45'			1 20	S 88 E	72 44		63 70	
59	5698 00	1° 15'			2 01	S 55 E	71 29		65 35	
60	5790 00	1° 30'	5788 43		2 41	S 45 E	69 59		67 05	
61	5882 00	1° 45'			2 81	S 36 E	67 32		68 70	
62	5974 00	1° 00'			1 61	S 57 E	66 44		70 05	
63	6066 00	1° 15'			2 01	S 68 E	65 69		71 91	
64	6158 00	1° 15'			2 01	S 64 E	64 81		73 72	
65	6250 00	1° 45'	6248 30		2 81	S 62 E	63 49		76 20	
66	6342 00	1° 30'			2 41	S 75 E	62 87		78 53	
67	6434 00	1° 15'			2 01	N 88 E	62 94		80 54	
68	6526 00	1° 30'			2 41	N 84 E	63 19		82 94	
69	6619 00	1° 15'			2 01	N 78 E	63 61		84 91	
70	6712 00	1° 15'	6710 18		2 01	N 72 E	64 23		86 82	
71	6805 00	1° 15'			2 01	N 45 E	65 65		88 22	
72	6898 00	1° 15'			2 01	N 27 E	67 44		89 13	
73	6991 00	1° 30'			2 43	N 24 E	69 66		90 12	
74	7084 00	1° 45'			2 84	N 15 E	72 40		90 85	
75	7177 00	2° 45'	7174 96		4 46	N 14 E	76 73		91 93	



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							NORTH	SOUTH	WEST
76	7270 00	3° 30'			5 68	N 18 E	82 13		93 69
77	7363 00	3° 45'			6 08	N 04 E	88 20		94 11
78	7456 00	3° 45'			6 08	N 08 E	94 22		94 96
79	7549 00	3° 45'			6 08	N 05 E	100 28		95 49
80	7642 00	4° 00'	7638 96		6 49	N 10 E	106 67		96 62
81	7735 00	3° 15'			5 27	N 10 E	111 86		97 53
82	7828 00	3° 30'			5 68	N 12 E	117 42		98 71
83	7921 00	3° 00'			4 87	N 13 E	122 17		99 81
84	8014 00	3° 30'			5 68	N 15 E	127 66		101 28
85	8107 00	4° 00'	8103 11		6 49	N 23 E	133 27		103 66
86	8200 00	4° 15'			6 89	N 22 E	139 66		106 24
87	8263 00	3° 45'			4 12	N 18 E	143 58		107 51
88	8272 00	3° 45'			0 59	N 18 E	144 14		107 69
89	8306 00	3° 30'			2 08	N 54 E	145 36		109 37
90	8338 00	3° 30'	8333 58		1 95	N 60 E	146 34		111 06
91	8370 00	3° 30'			1 95	N 65 E	147 16		112 83
92	8400 00	4° 00'			2 09	N 65 E	148 04		114 72
93	8440 00	4° 30'			3 14	N 66 E	149 32		117 59
94	8455 00	4° 15'			1 11	EAST	149 32		118 70
95	8503 00	4° 30'	8498 14		3 77	N 87 E	149 52		122 46
96	8520 00	4° 30'			1 33	N 87 E	149 59		123 79
97	8541 00	4° 00'			1 46	S 77 E	149 26		125 21
98	8571 00	3° 45'			1 96	S 68 E	148 53		127 03
99	8641 00	4° 15'			5 19	S 58 E	145 78		131 43
100	8700 00	5° 00'	8694 57		5 14	S 60 E	143 21		135 88

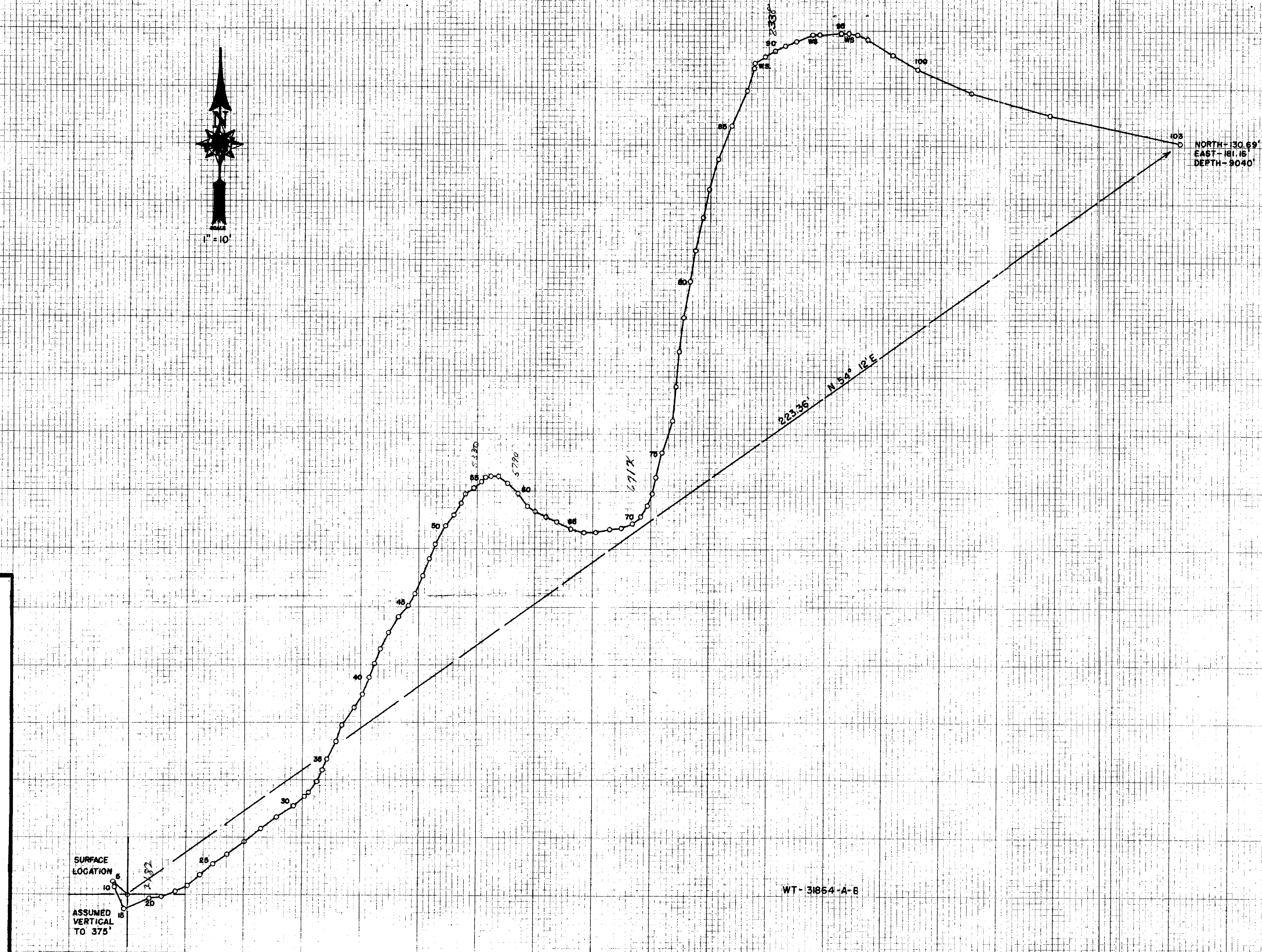


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							NORTH	SOUTH	EAST	WEST
101	8792 00	6° 15'			10 02	S 66 E	139 13		145 03	
102	8898 00	7° 45'			14 30	S 75 E	135 43		158 84	
103	9040 00	9° 15'	9031 21		22 82	S 78 E	130 69		181 16	
CLOSURE 221.36' NORTH 54° 12' EAST										



Administrative Committee

COUNTY	LEA	FIELD	Vacuum	STATE	N.M.
OPR	TEXACO INC.				
	9 State of New Mexico "AC" (NCT-1)				3D-D25-21055
	Sec. 2, T-18-S, R-34-E				CO-ORD
	330' fr S Line & 2100' fr W Line of Sec.				
	Spud 2-27-64				CLASS
	Comp 4-20-64				EL 40138
	FORMATION		DATUM		
CSG & SX - TUBING	LOG:				
11 3/4" 375' 300	Yates 2962				
8 5/8" 3222' 1650	Queen 3958				
2 7/8" 9036' 2050	SA 4672				
	Abo Rf 8655				
LOGS EL GR RA IND HC A					
	TD 9040', PBD 9028'				

IP Abo Perfs 8688-8927' Swbd 98 BOPD. Pot. Based on 24 hr test Gravity 41.3.

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CONT.	PROP DEPTH	9050'	TYPE
DATE			

F. R. 12-5-63.
PD 9050' - Abo.

12-19-63 AMENDED FOOTAGE: Was 560' fr SL & 2100' fr WL of Sec.

3-2-64 Drlg. 2550' anhy & salt.

3-9-64 Drlg. 4420'.

3-16-64 Drlg. 6395'.

3-23-64 Drlg. 7785' lm.

3-30-64 Drlg. 8452'.

Set Whipstock @ 8272' & 8440'.

4-6-64 TD 9040', prep to run csg.

4-13-64 TD 9040', PB 9036', swbg.

Perf. 8688', 8689', 8718', 8719', 8744', 8745', 8752', 8753', 8769', 8770', 8774', 8775', 8793', 8794', 8814', 8815', 8920', 8921', 8926', 8927' w/1 SPI.

Ac. 500 gals. acetic

Ac. 10,000 gals. LST NE

Swbd. 78 BNO + 33 BLW/24 hrs.

Re-Ac. 10,000 gals.

4-20-64 TD 9040', PBD 9028' (Corr.), COMPLETED.