

OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

HOBBS OFFICE O. C. C.

APR 2 3 21 PM '64

April 1, 1964

C  
O  
P  
Y  
  
Texaco, Inc.  
Drawer 728  
Hobbs, New Mexico

Attention: Mr. H. D. Raymond

Gentlemen:

Reference is made to your letters of January 28 and February 12, 1964, wherein you request authority to complete your State of New Mexico "AC" Well No. 8 and your State of New Mexico "AA" (NCT-4) Well No. 2 located in Unit O of Section 2 and Unit A of Section 10, respectively, Township 18 South, Range 34 East, Vacuum (Abo-Reef) Pool, Lea County, New Mexico, as single tubingless completions with 2 7/8-inch casing set at approximately 9,050 feet in each well. Sufficient cement will be used to bring the top of the cement back into the intermediate casing in each case.

Inasmuch as no corrosion is expected and adequate measures will be taken to counteract the anticipated paraffin deposition, the Oil Conservation Commission hereby approves both tubingless completions.

Very truly yours,

A. L. Porter, Jr.  
Secretary-Director

ALP:DSN:sg

cc: Oil Conservation Commission - Hobbs, New Mexico  
Oil & Gas Engineering - Hobbs, New Mexico



*"Symbol of Service"*

# REPORT of SUB-SURFACE DIRECTIONAL SURVEY

TEXACO, INC.  
COMPANY

STATE "AC" WELL NO. 8

WELL NAME  
VACUUM FIELD  
LEA COUNTY, NEW MEXICO  
LOCATION

JOB NUMBER

WT-1664  
WT-1664-C

TYPE OF SURVEY

Combination

DATE

January 17, 1964  
February 19, 1964

SURVEY BY  
Jack B. Jones

OFFICE  
Odessa, Texas



# RECORD OF SURVEY

CHECKED BY \_\_\_\_\_ JOB NO. WT-1664 DATE January 17, 1964  
WT-1664-C February 19, 1964

| STATION | MEASURED DEPTH | DRIFT ANGLE | TRUE VERTICAL DEPTH | VERTICAL SECTION | COURSE DEVIATION | DRIFT DIRECTION | RECTANGULAR COORDINATES |       |      |       |
|---------|----------------|-------------|---------------------|------------------|------------------|-----------------|-------------------------|-------|------|-------|
|         |                |             |                     |                  |                  |                 | NORTH                   | SOUTH | EAST | WEST  |
| 1       | 67 00          | 0° 30'      |                     |                  | 29               | N 26 E          | 0 26                    |       | 0 13 |       |
| 2       | 157 00         | 0° 30'      |                     |                  | 79               | N 40 E          | 0 87                    |       | 0 64 |       |
| 3       | 247 00         | 0° 15'      |                     |                  | 39               | N 24 E          | 1 23                    |       | 0 80 |       |
| 4       | 337 00         | 0° 30'      |                     |                  | 79               | N 21 W          | 1 97                    |       | 0 52 |       |
| 5       | 427 00         | 0° 30'      | 427 00              |                  | 79               | N 28 W          | 2 67                    |       | 0 15 |       |
| 6       | 517 00         | 0° 45'      |                     |                  | 1 18             | N 32 W          | 3 85                    |       |      | 0 48  |
| 7       | 607 00         | 0° 30'      |                     |                  | 79               | N 55 W          | 4 30                    |       |      | 1 13  |
| 8       | 699 00         | 0° 30'      |                     |                  | 80               | N 51 W          | 4 80                    |       |      | 1 75  |
| 9       | 791 00         | 0° 30'      |                     |                  | 80               | N 45 W          | 5 37                    |       |      | 2 32  |
| 10      | 883 00         | 0° 30'      | 882 99              |                  | 80               | N 67 W          | 5 68                    |       |      | 3 06  |
| 11      | 975 00         | 0° 30'      |                     |                  | 80               | N 83 W          | 5 78                    |       |      | 3 85  |
| 12      | 1067 00        | 0° 45'      |                     |                  | 1 20             | N 81 W          | 5 97                    |       |      | 5 04  |
| 13      | 1159 00        | 0° 45'      |                     |                  | 1 20             | S 88 W          | 5 93                    |       |      | 6 24  |
| 14      | 1251 00        | 0° 30'      |                     |                  | 80               | S 86 W          | 5 87                    |       |      | 7 04  |
| 15      | 1343 00        | 0° 30'      | 1342 97             |                  | 80               | S 79 W          | 5 72                    |       |      | 7 83  |
| 16      | 1435 00        | 0° 30'      |                     |                  | 80               | S 65 W          | 5 38                    |       |      | 8 56  |
| 17      | 1527 00        | 0° 30'      |                     |                  | 80               | S 51 W          | 4 88                    |       |      | 9 18  |
| 18      | 1619 00        | 0° 30'      |                     |                  | 80               | S 68 W          | 4 58                    |       |      | 9 92  |
| 19      | 1711 00        | 0° 30'      |                     |                  | 80               | S 82 W          | 4 47                    |       |      | 10 71 |
| 20      | 1803 00        | 0° 30'      | 1802 97             |                  | 80               | N 71 W          | 4 73                    |       |      | 11 47 |
| 21      | 1895 00        | 0° 30'      |                     |                  | 80               | N 04 E          | 5 53                    |       |      | 11 41 |
| 22      | 1987 00        | 0° 45'      |                     |                  | 1 20             | N 23 E          | 6 63                    |       |      | 10 94 |
| 23      | 2079 00        | 1° 00'      |                     |                  | 1 61             | N 24 E          | 8 10                    |       |      | 10 29 |
| 24      | 2171 00        | 1° 30'      |                     |                  | 2 41             | N 25 E          | 10 28                   |       |      | 9 27  |
| 25      | 2263 00        | 2° 00'      | 2262 86             |                  | 3 21             | N 27 E          | 13 14                   |       |      | 7 81  |



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JOB NO. WT-1664 DATE January 17, 1964  
WT-1664-C February 19, 1964

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| STATION | MEASURED DEPTH | DRIFT ANGLE | TRUE VERTICAL DEPTH | VERTICAL SECTION | COURSE DEVIATION | DRIFT DIRECTION | RECTANGULAR COORDINATES |       |      |      |
|---------|----------------|-------------|---------------------|------------------|------------------|-----------------|-------------------------|-------|------|------|
|         |                |             |                     |                  |                  |                 | NORTH                   | SOUTH | EAST | WEST |
| 26      | 2355 00        | 2° 15'      |                     |                  | 3 61             | N 22 E          | 16 48                   |       |      | 6 46 |
| 27      | 2447 00        | 2° 00'      |                     |                  | 3 21             | N 21 E          | 19 48                   |       |      | 5 31 |
| 28      | 2539 00        | 2° 00'      |                     |                  | 3 21             | N 19 E          | 22 52                   |       |      | 4 26 |
| 29      | 2631 00        | 2° 15'      |                     |                  | 3 61             | N 11 E          | 26 06                   |       |      | 3 57 |
| 30      | 2723 00        | 2° 15'      | 2722 53             |                  | 3 61             | N 05 E          | 29 66                   |       |      | 3 26 |
| 31      | 2815 00        | 2° 30'      |                     |                  | 4 01             | N 04 E          | 33 66                   |       |      | 2 98 |
| 32      | 2907 00        | 2° 30'      |                     |                  | 4 01             | NORTH           | 37 67                   |       |      | 2 98 |
| 33      | 2999 00        | 2° 15'      |                     |                  | 3 61             | N 06 W          | 41 26                   |       |      | 3 36 |
| 34      | 3091 00        | 2° 15'      |                     |                  | 3 61             | N 12 W          | 44 79                   |       |      | 4 11 |
| 35      | 3183 00        | 2° 00'      | 3182 15             |                  | 3 21             | N 16 W          | 47 88                   |       |      | 4 99 |
| 36      | 3275 00        | 2° 00'      |                     |                  | 3 21             | N 15 W          | 50 98                   |       |      | 5 82 |
| 37      | 3367 00        | 2° 00'      |                     |                  | 3 21             | N 12 W          | 54 12                   |       |      | 6 49 |
| 38      | 3459 00        | 2° 00'      |                     |                  | 3 21             | N 09 W          | 57 29                   |       |      | 6 99 |
| 39      | 3551 00        | 2° 00'      |                     |                  | 3 21             | N 04 W          | 60 49                   |       |      | 7 21 |
| 40      | 3643 00        | 2° 00'      | 3641 85             |                  | 3 21             | N 04 W          | 63 69                   |       |      | 7 43 |
| 41      | 3735 00        | 2° 15'      |                     |                  | 3 61             | N 02 W          | 67 30                   |       |      | 7 56 |
| 42      | 3827 00        | 2° 45'      |                     |                  | 4 41             | N 02 W          | 71 71                   |       |      | 7 71 |
| 43      | 3919 00        | 2° 30'      |                     |                  | 4 01             | NORTH           | 75 72                   |       |      | 7 71 |
| 44      | 4011 00        | 2° 30'      |                     |                  | 4 01             | N 06 E          | 79 71                   |       |      | 7 29 |
| 45      | 4103 00        | 2° 30'      | 4101 40             |                  | 4 01             | N 03 E          | 83 71                   |       |      | 7 08 |
| 46      | 4170 00        | 2° 45'      |                     |                  | 3 21             | N 08 E          | 86 89                   |       |      | 6 63 |
| 47      | 4235 00        | 3° 15'      |                     |                  | 3 69             | N 10 E          | 90 52                   |       |      | 5 99 |
| 48      | 4327 00        | 3° 15'      |                     |                  | 5 22             | N 13 E          | 95 61                   |       |      | 4 82 |
| 49      | 4419 00        | 3° 15'      |                     |                  | 5 22             | N 13 E          | 100 70                  |       |      | 3 65 |
| 50      | 4511 00        | 3° 15'      | 4506 77             |                  | 5 22             | N 11 E          | 105 82                  |       |      | 2 65 |



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JOB NO. WT-1664 DATE January 17, 1964  
WT-1664-C February 19, 1964

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| STATION | MEASURED DEPTH | DRIFT ANGLE | TRUE VERTICAL DEPTH | VERTICAL SECTION | COURSE DEVIATION | DRIFT DIRECTION | RECTANGULAR COORDINATES |       |      |      |
|---------|----------------|-------------|---------------------|------------------|------------------|-----------------|-------------------------|-------|------|------|
|         |                |             |                     |                  |                  |                 | NORTH                   | SOUTH | EAST | WEST |
| 51      | 4603 00        | 3° 15'      |                     |                  | 5 22             | N 08 E          | 110 99                  |       |      | 1 92 |
| 52      | 4695 00        | 3° 15'      |                     |                  | 5 22             | N 05 E          | 116 19                  |       |      | 1 46 |
| 53      | 4787 00        | 3° 15'      |                     |                  | 5 22             | NORTH           | 121 41                  |       |      | 1 46 |
| 54      | 4879 00        | 3° 00'      |                     |                  | 4 81             | N 02 W          | 126 22                  |       |      | 1 63 |
| 55      | 4971 00        | 3° 00'      | 4968 06             |                  | 4 81             | N 04 W          | 131 02                  |       |      | 1 97 |
| 56      | 5063 00        | 2° 45'      |                     |                  | 4 41             | N 11 W          | 135 35                  |       |      | 2 81 |
| 57      | 5155 00        | 2° 45'      |                     |                  | 4 41             | N 14 W          | 139 63                  |       |      | 3 88 |
| 58      | 5186 00        | 2° 30'      | 5182 81             |                  | 1 35             | N 14 W          | 140 94                  |       |      | 4 21 |
| 59      | 5515 00        | 2° 15'      |                     |                  | 12 93            | N 14 W          | 153 49                  |       |      | 7 34 |
| 60      | 5524 00        | 2° 45'      |                     |                  | 43               | N 78 E          | 153 58                  |       |      | 6 92 |
| 61      | 5540 00        | 3° 00'      |                     |                  | 84               | S 88 E          | 153 55                  |       |      | 6 08 |
| 62      | 5567 00        | 2° 30'      |                     |                  | 1 18             | EAST            | 153 55                  |       |      | 4 90 |
| 63      | 5604 00        | 2° 30'      |                     |                  | 1 61             | EAST            | 153 55                  |       |      | 3 29 |
| 64      | 5639 00        | 3° 45'      |                     |                  | 2 29             | S 08 E          | 151 28                  |       |      | 2 97 |
| 65      | 5682 00        | 3° 45'      |                     |                  | 2 81             | S 08 E          | 148 50                  |       |      | 2 58 |
| 66      | 5742 00        | 4° 00'      |                     |                  | 4 19             | S 08 E          | 144 35                  |       |      | 2 00 |
| 67      | 5804 00        | 4° 30'      |                     |                  | 4 86             | S 01 E          | 139 49                  |       |      | 1 91 |
| 68      | 5818 00        | 4° 30'      |                     |                  | 1 10             | S 03 E          | 138 40                  |       |      | 1 85 |
| 69      | 5865 00        | 4° 15'      |                     |                  | 3 48             | S 04 E          | 134 93                  |       |      | 1 61 |
| 70      | 5931 00        | 4° 00'      |                     |                  | 4 60             | S 05 E          | 130 35                  |       |      | 1 21 |
| 71      | 5990 00        | 4° 00'      |                     |                  | 4 12             | S 06 E          | 126 25                  |       |      | 0 78 |
| 72      | 6067 00        | 4° 00'      | 6062 29             |                  | 5 37             | S 04 E          | 120 89                  |       |      | 0 40 |
| 73      | 6088 00        | 3° 45'      |                     |                  | 1 37             | S 16 E          | 119 57                  |       |      | 0 02 |
| 74      | 6180 00        | 3° 45'      |                     |                  | 6 02             | S 30 E          | 114 36                  |       | 2 99 |      |
| 75      | 6272 00        | 3° 00'      |                     |                  | 4 81             | S 69 E          | 112 64                  |       | 7 48 |      |



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|---------|----------------|-------------|---------------------|------------------|------------------|-----------------|-------------------------|-------|--------|------|
|         |                |             |                     |                  |                  |                 | NORTH                   | SOUTH | EAST   | WEST |
| 76      | 6364 00        | 2° 30'      |                     |                  | 4 01             | S 83 E          | 112 15                  |       | 11 46  |      |
| 77      | 6456 00        | 2° 00'      |                     |                  | 3 21             | S 86 E          | 111 93                  |       | 14 66  |      |
| 78      | 6548 00        | 2° 30'      |                     |                  | 4 01             | EAST            | 111 93                  |       | 18 67  |      |
| 79      | 6640 00        | 2° 00'      | 6634 22             |                  | 3 21             | EAST            | 111 93                  |       | 21 88  |      |
| 80      | 6732 00        | 1° 45'      |                     |                  | 2 81             | N 87 E          | 112 08                  |       | 24 69  |      |
| 81      | 6824 00        | 1° 45'      |                     |                  | 2 81             | N 84 E          | 112 37                  |       | 27 48  |      |
| 82      | 6916 00        | 2° 00'      |                     |                  | 3 21             | EAST            | 112 37                  |       | 30 69  |      |
| 83      | 7008 00        | 3° 00'      |                     |                  | 4 81             | EAST            | 112 37                  |       | 35 50  |      |
| 84      | 7100 00        | 3° 00'      |                     |                  | 4 81             | N 75 E          | 113 61                  |       | 40 15  |      |
| 85      | 7192 00        | 3° 00'      |                     |                  | 4 81             | N 77 E          | 114 69                  |       | 44 84  |      |
| 86      | 7284 00        | 0° 00'      |                     |                  | 6 42             | N 82 E          | 115 58                  |       | 51 20  |      |
| 87      | 7376 00        | 4° 45'      | 7369 15             |                  | 7 62             | N 81 E          | 116 77                  |       | 58 73  |      |
| 88      | 7468 00        | 4° 00'      |                     |                  | 6 42             | N 77 E          | 118 21                  |       | 64 99  |      |
| 89      | 7560 00        | 4° 00'      |                     |                  | 6 42             | N 78 E          | 119 54                  |       | 71 27  |      |
| 90      | 7652 00        | 3° 15'      |                     |                  | 5 22             | N 82 E          | 120 27                  |       | 76 44  |      |
| 91      | 7744 00        | 3° 00'      |                     |                  | 4 81             | N 82 E          | 120 94                  |       | 81 20  |      |
| 92      | 7836 00        | 3° 00'      |                     |                  | 4 81             | N 80 E          | 121 78                  |       | 85 94  |      |
| 93      | 7928 00        | 3° 00'      |                     |                  | 4 81             | N 75 E          | 123 02                  |       | 90 59  |      |
| 94      | 8020 00        | 3° 30'      |                     |                  | 5 62             | N 70 E          | 124 94                  |       | 95 87  |      |
| 95      | 8112 00        | 3° 45'      | 8103 80             |                  | 6 02             | N 65 E          | 127 48                  |       | 101 33 |      |
| 96      | 8204 00        | 3° 45'      |                     |                  | 6 02             | N 67 E          | 129 83                  |       | 106 67 |      |
| 97      | 8296 00        | 3° 15'      |                     |                  | 5 22             | N 70 E          | 131 62                  |       | 111 78 |      |
| 98      | 8388 00        | 3° 00'      |                     |                  | 4 81             | N 79 E          | 132 54                  |       | 116 50 |      |
| 99      | 8480 00        | 2° 45'      | 8471 21             |                  | 4 41             | N 80 E          | 133 31                  |       | 120 84 |      |
| 100     | 8572 00        | 2° 30'      |                     |                  | 4 01             | N 85 E          | 133 66                  |       | 124 83 |      |



# RECORD OF SURVEY

JOB NO. **WT-1664** DATE **January 17, 1964**  
**WT-1664-C** **February 19, 1964**

CHECKED BY

| STATION | MEASURED DEPTH | DRIFT ANGLE | TRUE VERTICAL DEPTH | VERTICAL SECTION | COURSE DEVIATION | DRIFT DIRECTION | RECTANGULAR COORDINATES |               |        |
|---------|----------------|-------------|---------------------|------------------|------------------|-----------------|-------------------------|---------------|--------|
|         |                |             |                     |                  |                  |                 | NORTH                   | SOUTH         | EAST   |
| 101     | 8664 00        | 2° 30'      |                     |                  | 4 01             | N 85 E          | 134 01                  |               | 128 82 |
| 102     | 8756 00        | 2° 15'      |                     |                  | 3 61             | S 86 E          | 133 76                  |               | 132 42 |
| 103     | 8848 00        | 2° 00'      |                     |                  | 3 21             | S 74 E          | 132 88                  |               | 135 51 |
| 104     | 8940 00        | 2° 00'      |                     |                  | 3 21             | S 76 E          | 132 10                  |               | 138 62 |
| 105     | 9025 00        | 2° 00'      | 9015 79             |                  | 2 97             | S 74 E          | 131 28                  |               | 141 48 |
| CLOSURE |                |             |                     |                  |                  |                 | 193.03'                 | NORTH 47° 08' | EAST   |

WHIPSTOCK  
SETTING

WHIPSTOCK  
SETTING

45

40

35

30

25

15

10

20

SURFACE  
LOCATION

65

70

50

75

80

85

90

95

100

105

NORTH-131 28'  
EAST-141 48'



183.03' N 47° 08' E

JOB NO. WT-1664-A-B-C



|                                          |             |       |        |                     |          |
|------------------------------------------|-------------|-------|--------|---------------------|----------|
| COUNTY                                   | LEA         | FIELD | Vacuum | STATE               | N.M.     |
| OPR                                      | TEXACO INC. |       |        | MAP                 |          |
| 8 State of New Mexico "AC" (NCT-1)       |             |       |        | 3D-025-20555        |          |
| Sec. 2, T-18-S, R-34-E                   |             |       |        | CO-ORD              |          |
| 330' fr S Line & 1980' fr E Line of Sec. |             |       |        |                     |          |
| Spudded 1-7-64                           |             |       |        | CLASS               | EL 40132 |
| Completed 3-3-64                         |             |       |        | FORMATION           | DATUM    |
| CSG & SX - TUBING                        |             |       |        | LOG:                |          |
|                                          |             |       |        | Yates 2934          |          |
|                                          |             |       |        | Queen 3932          |          |
|                                          |             |       |        | SA 4700             |          |
|                                          |             |       |        | Abo Rf 8616         |          |
| LOGS EL GR RA IND HC A                   |             |       |        |                     |          |
|                                          |             |       |        | TD 9025', PBD 8994' |          |

IP Abo Perfs 8625-8909' Swbd 43 BOPD + 21 BLW. Pot. Based on 24 hr test, gravity 37.6, GOR 755.

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|       |                  |      |
|-------|------------------|------|
| CONT. | PROP DEPTH 9050' | TYPE |
| DATE  |                  |      |

F.R. 9-12-63  
PD 9050' - Abo

1-9-64 AMENDED FOOTAGE: Was 560' Fr S & E Lines of Sec.  
1-13-64 TD 3250', WOC.  
1-20-64 Drlg. 4691' lm.  
1-27-64 ID 5619', drlg. by @ 5609'.  
Set Whipstock @ 5515'.  
2-3-64 Drlg. 6038'.  
2-10-64 Drlg. 7670'.  
2-17-64 Drlg. 8665' lm.  
2-24-64 TD 9025', PBD 8994', swbg.  
Perf 8625-26', 8635-36', 8647-48', 8687-88',  
8703-04', 8713-14', 8733-34', 8748-49', 8773-74',  
8839-40' & 8908-09' W/2 SPI  
Ac. 400 gals.  
Swbd 55 BLW/4 hrs 30 mins.

3-2-64 TD 9025', PBD 8994', swbg.  
Re-Ac. 11,000 gals reg.  
Swbd 18 BNG 82 BLW/24 hrs.

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LEA COUNTY       Vacuum       N.M.       Page 2  
TEXACO INC., #8 State of N.M. "AC" (NCT-1) - Sec. 2-  
18S-34E

3-2-64       -cont-

Re-Ac. 16,000 gals.

Swbd 119 BNO + 183 BLW/60 hrs.

3-9-64       TD 9025', PBD 8994', COMPLETED.