

# Hagedrup Oil Unit "A"  
B20/S 675/W sec. 21-29N-13W  
NM-0468128  
Paramount Petroleum Corp.

6/13/65 Received call from Southland Royalty from Herb Tossie on their radio indicating a well was oozing dirty mud onto surface. He requested Bill Blackard & an Engineer come out & look at the problem. Jim Lunde went w/Bill. NMOC (Ernie Bush) and Southland Rep. had been there. Returned about 3:45 w/picture of mud on surf. Well still oozing.

6/14/65 Bill returned to well, no activity, still oozing/bubbling dirty mud.

12:30 called Paramount for Lance Dyer - Not in

" called Dist. Office - told Gary S. & Sid V. the problem & requested they attempt contact w/Solicitor (Magnus) regarding Paramount's Bond Coverage. ADD recommended that the situation be monitored over weekend & Southland reportedly agreed to dig out well head & attempt to control leak.

12:50 called Paramount - Dyer not in.

12:52 called NMOC talked w/Ernie Bush & Frank Chavez, re best manner to proceed to control situation & possibility of paying for work to be done if Paramount ~~would not~~ do the work.

1:00 Advised McKee & A. Hiner of situation & advised them of intent to overcome the problem.

Proposal to construct dam across wash above well to divert wash into old channel & to dig pit in wash below well to contain any fluids from well & prevent entry into San Juan River. Then cautiously dig out around well head & attempt to shut in any valves and/or determine path of fluids. Proceed from there with remedial action as needed toward proper abandonment of well.

2:20 Received call from Ernie Bush (NMOC) who said that they had just talked to Dyer & he had contacted Cimarron Oil Field Services to go out & dig out well head. Ernie had talked to Cimarron & they were heading out for the well.

3:49 Called for Dyer got Bob Whitworth - he said Cimarron was to be going out to dig out wellhead - asked if SI valves didn't work what was their intent? He said they would instruct

BEFORE EXAMINATION

EXAMINATION DIVISION

EX-110

PAGE NO.

Cinnamon to set procedures to kill well & begin P&A  
Operations

3:45 Got radio call from Blackard from well, said Cinnamon had  
shown up only w/shovels - went back to get backhoe.

6/17/85 - 0800 - talked to Bill Blackard re. what happened.

He said they dug down by WH and found a nipple & valve  
had rusted out & began leaking. Replaced nipple & valve  
& stopped flow.

Sgt V. said Gary S. had talked to Solicitor (Magness)  
who said not to expect much of anything from Paramounts  
Bond.

SF-0468128

Well #1 Hagerud Gallup Oil Unit "A"

820/5675/W 21-29N-13W

Φ by Tenneco

prod. int. { Pak.  
Gallup.

|           | Top   | Bottom |
|-----------|-------|--------|
| Gallup SS | 4758' | 5250'  |

~~Rebar~~



**SOUTHWESTERN PORTLAND CEMENT COMPANY**  
Mountain Division

UTAH SALES OFFICE  
P.O. Box 21158  
Salt Lake City, Utah  
84121-0158  
(801) 263-3011  
1-800-4CEMENT  
MURRAY TERMINAL  
(801) 263-3011 Ext. 350  
LEAMINGTON PLANT  
(801) 844-3803

#1 Central Tuba  
Sec 21-29N-13W  
WIW

Fruitland @ 535'

P.C. @ 1050'

Mesa @ 2070'  
Verde

Gallup @ 4760'

8 5/8" @ 124'

T.O.C. calc. @ 943'

CDV @ 1281' w/ 50sx

T.O.C. calc. @ 4570'

Perf @ 5190-5134'  
A' @ 5245



Mud Plowing From the  
#1 Central Toluca well h.  
6/13/85 - Poss. hole in csg.



6/13/85

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|   |  |  |  |
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| X |  |  |  |

(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Land Office Santa Fe  
Lease No. SF 079065  
Unit \_\_\_\_\_

SUNDRY NOTICES AND REPORTS ON WELLS

|   |   |          |
|---|---|----------|
| NOTICE OF INTENTION TO DRILL.....                   | SUBSEQUENT REPORT OF WATER SHUT-OFF.....        | <b>X</b> |
| NOTICE OF INTENTION TO CHANGE PLANS.....            | SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING..... |          |
| NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....     | SUBSEQUENT REPORT OF ALTERING CASING.....       |          |
| NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL..... | SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR..... |          |
| NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....        | SUBSEQUENT REPORT OF ABANDONMENT.....           |          |
| NOTICE OF INTENTION TO PULL OR ALTER CASING.....    | SUPPLEMENTARY WELL HISTORY.....                 |          |
| NOTICE OF INTENTION TO ABANDON WELL.....            |   |          |

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

U. S. GEOLOGICAL SURVEY  
FARMINGTON, NEW MEXICO

November 7, 1961

Hagood Gallup Oil Unit "A"  
Well No. 1 is located 820 ft. from S line and 675 ft. from W line of sec. 21

SW/4 Sec. 21      29 N      13 W      N.M.P.M.  
(1/4 Sec. and Sec. No.)      (Twp.)      (Range)      (Meridian)  
Totah Gallup      San Juan      New Mexico  
(Field)      (County or Subdivision)      (State or Territory)

The elevation of the ~~surface~~ ground level above sea level is 5303 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudlogging jobs, cementing points, and all other important proposed work)

Run and cement surface casing as follows:

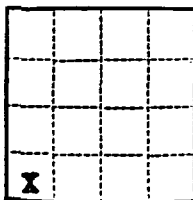
Ran 4 joints (124') 8-5/8", 24#, J-55, snls casing and set at 138'. Cemented with 115 sacks cement. Circulated cement to surface. Plug down 11:30 p.m. 9-19-61. WOC 12 hours and pressured tested casing to 600 pounds for 30 minutes. Pressure held o.k.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Tenneco Corp., acting by and thru its managing agent, Tenneco Oil Co.

Address P. O. Box 1714  
Durango, Colorado

By L. B. Plumb  
Title District Production Supt.



(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Land Office Santa Fe  
Lease No. SF 079065  
Unit \_\_\_\_\_

SUNDRY NOTICES AND REPORTS ON WELLS

|  |  |  |                                     |
|--|--|--|-------------------------------------|
| NOTICE OF INTENTION TO DRILL                   |  | SUBSEQUENT REPORT OF WATER SHUT-OFF        | <input checked="" type="checkbox"/> |
| NOTICE OF INTENTION TO CHANGE PLANS            |  | SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING |                                     |
| NOTICE OF INTENTION TO TEST WATER SHUT-OFF     |  | SUBSEQUENT REPORT OF ALTERING CASING       |                                     |
| NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL |  | SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR |                                     |
| NOTICE OF INTENTION TO SHOOT OR ACIDIZE        |  | SUBSEQUENT REPORT OF ABANDONMENT           |                                     |
| NOTICE OF INTENTION TO PULL OR ALTER CASING    |  | SUPPLEMENTARY WELL HISTORY                 |                                     |
| NOTICE OF INTENTION TO ABANDON WELL            |  |  |                                     |

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

DECEIVE  
NOV 8 1961  
SURVEY  
TERMINATION, NEW MEXICO

November 7, 1961

Hagood Gallup Oil Unit "A"  
Well No. 1 is located 820 ft. from N line and 675 ft. from W line of sec. 21

SW 1/4 Sec. 21 29 N 13 W N.M.P.M.  
(1/4 Sec. and Section) (Range) (Meridian)  
Totah Gallup San Juan New Mexico  
(Field) (County or Subdivision) (State or Territory)

The elevation of the ground level above sea level is 5303 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Run and cement production casing as follows:

Ran 164 joints (5242') 4-1/2", 9.5#, J-55, smls casing and set at 5245'.  
Set stage collar at 1281' and cemented in two stages. First stage: cemented with 100 sacks 1:1 Diamix, 2% gel. Plug down on first stage 6:45 p.m. 9-30-61.  
Second stage: cemented with 50 sacks 1:1 Diamix 6% gel. Plug down on second stage 7:00 p.m. 9-30-61. WOC 24 hrs. Pressure tested casing to 3000 pounds for 30 minutes. Pressure held o.k.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Tenneco Corporation, acting by and thru its managing agent, Tenneco Oil Co.

Address P. O. Box 1714

Durango, Colorado

By L. B. Plumb L. B. Plumb

Title District Production Superintendent

|                           |            |
|---------------------------|------------|
| NUMBER OF COPIES RECEIVED |            |
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| TRANSPORTER               | OIL<br>GAS |
| PRODUCTION OFFICE         |            |
| OPERATOR                  |            |

**NEW MEXICO OIL CONSERVATION COMMISSION**  
**WELL LOCATION AND ACREAGE DEDICATION PLAT**  
 SEE INSTRUCTIONS FOR COMPLETING THIS FORM ON THE REVERSE SIDE

FORM C-128  
 Revised 5/1/57

**SECTION A**

|  |                                      |  |                                       |                           |
|--|--------------------------------------|--|---------------------------------------|---------------------------|
| Operator<br><b>TENNECO OIL COMPANY</b>   |                                      | Lease<br><b>HAGOOD-GALLUP OIL UNIT "A"</b> |                                       | Well No.<br><b>I</b>      |
| Unit Letter<br><b>M</b>  | Section<br><b>21</b>                 | Township<br><b>29 North</b>                | Range<br><b>13 West</b>               | County<br><b>San Juan</b> |
| Actual Footage Location of Well:<br><b>820</b> feet from the <b>South</b> line and <b>675</b> feet from the <b>West</b> line |                                      |  |                                       |                           |
| Ground Level Elev.<br><b>5303</b>  | Producing Formation<br><b>Gallup</b> | Pool<br><b>Totah Gallup</b>                | Dedicated Acreage:<br><b>80</b> Acres |                           |

1. Is the Operator the only owner in the dedicated acreage outlined on the plat below? YES ☒ NO \_\_\_\_ . ("Owner" means the person who has the right to drill into and to produce from any pool and to appropriate the production either for himself or for himself and another. (65-3-29 (e) NMSA 1935 Comp.)
2. If the answer to question one is "no," have the interests of all the owners been consolidated by communitization agreement or otherwise? YES \_\_\_\_ NO \_\_\_\_ . If answer is "yes," Type of Consolidation \_\_\_\_
3. If the answer to question two is "no," list all the owners and their respective interests below:

|       |                  |
|-------|------------------|
| Owner | Land Description |
|       |                  |

**RECEIVED**  
 SEP 10 1961

**SECTION B**

|  |  |  |  |
|--|--|--|--|
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**Section 21**

675' →  
 820' ↓

**CERTIFIED GEOLOGICAL SURVEY**  
 FAIRMINGTON, NEW MEXICO

I hereby certify that the information in SECTION A above is true and complete to the best of my knowledge and belief.

|   |
|---|
| Name<br><b>B. B. Plumb</b>                |
| Position<br><b>Dist. Production Supt.</b> |
| Company<br><b>Tenneco Oil Company</b>     |
| Date<br><b>September 14, 1961</b>         |

I hereby certify that the well location shown on the plat in SECTION B was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

|  |
|--|
| Date Surveyed<br><b>14 Sept 1961</b>   |
| Registered Professional Engineer and/or Land Surveyor<br><b>Robert H. Christ</b> |
| <b>San Juan Engineering Co.</b>  |
| Certificate No.<br><b>PE &amp; LS 2463</b>                                       |

0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500

| TOPS       | LOG     |
|------------|---------|
| Farming    | Surface |
| Alamo      |         |
| Kirtland   |         |
| Farmington |         |
| Fruitland  |         |
| P.C.       | 1025    |
| Lewis      | 1215    |
| M.V.       | 2025    |
| C.H.       |         |
| Menefee    |         |
| P.L.       |         |
| Mancos     | 3870    |
| Gallup     | 4760    |
| Sanastee   |         |
| Gr. Horn   |         |
| Graneros   |         |
| Dakota     |         |
| Morrison   |         |
| Todilto    |         |
| Entrada    |         |
| Carmel     |         |
| Navajo     |         |
| Kayenta    |         |
| Wingate    |         |
| Chinle     |         |
| Shinarump  |         |
| Moenkopi   |         |
| Cutler     |         |
| De Chelly  |         |
| Or. Rock   |         |
| C. Mesa    |         |
| Rico       |         |
| Hermosa    |         |
| Paradox    |         |

Operator Tenneco Corp.Well No. 1 Farm Hagood Gallup Oil Unit "A"Loc. 820 ~~MS~~ 675 ~~SW~~ Sec. 21 T. 29N R. 13W SW 4 SW 4County San Juan State New Mexico Field Totah-GallupElevation 5303' gl 5301 D.F. Contr. Br. wellLease No. SF 079065 Exp. Date HBPApp. 9-15-61 Spud 9-19-61 H.S. NMap ✓ 1st Prod. N Disc. N IWR 12-12-61Casing: 8 7/8 - 138 - 1154 1/2 - 5205 - 1002 - 51708 7/8 - 150 -  
4 1/2 - TD - 2/5 stage

9-20-61

27

9 4/8

11-12-61

TD 5170 - 100

S 5111-62 Per 51'

S 5112-5210 Per 42'

11

TD 5205

FLO

Per 32 5186-90

S 5112-5210 X 1000' RD 3800 TD 22

- 29: 120-1

S 5112-5210

Per 24 5134-26

24 5142-41

Spot 5202 Per 24 5152-200 X 2000'

RD 1500 TH 38 FI 160 BLO 24 Per

- 640 BLO 24

-18

TD 5245

5205

TD 22

4 3/8 5170

✓ P.B. 5205 PLO

P 30 BLO 120 Per

- 500 BLO 24

10 5205 P.B. 5205 PLO 25 BLO 24 Per

- 311 BLO 24

5

PLO

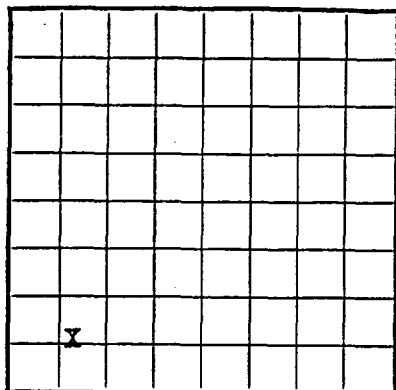
P 15 BLO 120 Per

- 240 BLO 24

27

ILLEGIBLE





LOCATE WELL CORRECTLY

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

U. S. LAND OFFICE Santa Fe  
SERIAL NUMBER SE 079065  
LEASE OR PERMIT TO PROSPECT \_\_\_\_\_

DEC 14 1961

LOG OF OIL OR GAS WELL

Company Tenneco Corp., acting by and thru its managing agent, Tenneco Oil Co. Address P. O. Box 1714, Durango, Colorado.  
Lessor or Tract Hagood Gallup Oil Unit "A" Field Totah Gallup State New Mexico  
Well No. 1 Sec. 21 T. 29N R. 13W Meridian N.M.P.M. County San Juan  
Location 820 ft. N. of S. Line and 675 ft. E. of W. Line of Section 21 Elevation 5303 GL  
(Deriv. floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed J. J. Lacey J. J. Lacey

Date December 8, 1961

Title District Petroleum Engineer

The summary on this page is for the condition of the well at above date.  
Commenced drilling September 19, 1961 Finished drilling October 30, 1961

**IMPORTANT WATER SANDS**  
No. 1, from 5186 to 5190 No. 4, from 5190 to 5195  
No. 2, from 5134 to 5137 No. 5, from 5137 to 5140  
No. 3, from 5143 to 5146 No. 6, from 5146 to 5150  
No. 7, from 5150 to 5153 No. 8, from 5153 to 5156  
No. 9, from 5156 to 5159 No. 10, from 5159 to 5162  
No. 11, from 5162 to 5165 No. 12, from 5165 to 5168  
No. 13, from 5168 to 5171 No. 14, from 5171 to 5174  
No. 15, from 5174 to 5177 No. 16, from 5177 to 5180  
No. 17, from 5180 to 5183 No. 18, from 5183 to 5186  
No. 19, from 5186 to 5189 No. 20, from 5189 to 5192  
No. 21, from 5192 to 5195 No. 22, from 5195 to 5198  
No. 23, from 5198 to 5201 No. 24, from 5201 to 5204  
No. 25, from 5204 to 5207 No. 26, from 5207 to 5210  
No. 27, from 5210 to 5213 No. 28, from 5213 to 5216  
No. 29, from 5216 to 5219 No. 30, from 5219 to 5222  
No. 31, from 5222 to 5225 No. 32, from 5225 to 5228  
No. 33, from 5228 to 5231 No. 34, from 5231 to 5234  
No. 35, from 5234 to 5237 No. 36, from 5237 to 5240  
No. 37, from 5240 to 5243 No. 38, from 5243 to 5246  
No. 39, from 5246 to 5249 No. 40, from 5249 to 5252  
No. 41, from 5252 to 5255 No. 42, from 5255 to 5258  
No. 43, from 5258 to 5261 No. 44, from 5261 to 5264  
No. 45, from 5264 to 5267 No. 46, from 5267 to 5270  
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No. 221, from 5792 to 5795 No. 222, from 5795 to 5798  
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No. 257, from 5900 to 5903 No. 258, from 5903 to 5906  
No. 259, from 5906 to 5909 No. 260, from 5909 to 5912  
No. 261, from 5912 to 5915 No. 262, from 5915 to 5918  
No. 263, from 5918 to 5921 No. 264, from 5921 to 5924  
No. 265, from 5924 to 5927 No. 266, from 5927 to 5930  
No. 267, from 5930 to 5933 No. 268, from 5933 to 5936  
No. 269, from 5936 to 5939 No. 270, from 5939 to 5942  
No. 271, from 5942 to 5945 No. 272, from 5945 to 5948  
No. 273, from 5948 to 5951 No. 274, from 5951 to 5954  
No. 275, from 5954 to 5957 No. 276, from 5957 to 5960  
No. 277, from 5960 to 5963 No. 278, from 5963 to 5966  
No. 279, from 5966 to 5969 No. 280, from 5969 to 5972  
No. 281, from 5972 to 5975 No. 282, from 5975 to 5978  
No. 283, from 5978 to 5981 No. 284, from 5981 to 5984  
No. 285, from 5984 to 5987 No. 286, from 5987 to 5990  
No. 287, from 5990 to 5993 No. 288, from 5993 to 5996  
No. 289, from 5996 to 5999 No. 290, from 5999 to 6002  
No. 291, from 6002 to 6005 No. 292, from 6005 to 6008  
No. 293, from 6008 to 6011 No. 294, from 6011 to 6014  
No. 295, from 6014 to 6017 No. 296, from 6017 to 6020  
No. 297, from 6020 to 6023 No. 298, from 6023 to 6026  
No. 299, from 6026 to 6029 No. 300, from 6029 to 6032  
No. 301, from 6032 to 6035 No. 302, from 6035 to 6038  
No. 303, from 6038 to 6041 No. 304, from 6041 to 6044  
No. 305, from 6044 to 6047 No. 306, from 6047 to 6050  
No. 307, from 6050 to 6053 No. 308, from 6053 to 6056  
No. 309, from 6056 to 6059 No. 310, from 6059 to 6062  
No. 311, from 6062 to 6065 No. 312, from 6065 to 6068  
No. 313, from 6068 to 6071 No. 314, from 6071 to 6074  
No. 315, from 6074 to 6077 No. 316, from 6077 to 6080  
No. 317, from 6080 to 6083 No. 318, from 6083 to 6086  
No. 319, from 6086 to 6089 No. 320, from 6089 to 6092  
No. 321, from 6092 to 6095 No. 322, from 6095 to 6098  
No. 323, from 6098 to 6101 No. 324, from 6101 to 6104  
No. 325, from 6104 to 6107 No. 326, from 6107 to 6110  
No. 327, from 6110 to 6113 No. 328, from 6113 to 6116  
No. 329, from 6116 to 6119 No. 330, from 6119 to 6122  
No. 331, from 6122 to 6125 No. 332, from 6125 to 6128  
No. 333, from 6128 to 6131 No. 334, from 6131 to 6134  
No. 335, from 6134 to 6137 No. 336, from 6137 to 6140  
No. 337, from 6140 to 6143 No. 338, from 6143 to 6146  
No. 339, from 6146 to 6149 No. 340, from 6149 to 6152  
No. 341, from 6152 to 6155 No. 342, from 6155 to 6158  
No. 343, from 6158 to 6161 No. 344, from 6161 to 6164  
No. 345, from 6164 to 6167 No. 346, from 6167 to 6170  
No. 347, from 6170 to 6173 No. 348, from 6173 to 6176  
No. 349, from 6176 to 6179 No. 350, from 6179 to 6182  
No. 351, from 6182 to 6185 No. 352, from 6185 to 6188  
No. 353, from 6188 to 6191 No. 354, from 6191 to 6194  
No. 355, from 6194 to 6197 No. 356, from 6197 to 6200  
No. 357, from 6200 to 6203 No. 358, from 6203 to 6206  
No. 359, from 6206 to 6209 No. 360, from 6209 to 6212  
No. 361, from 6212 to 6215 No. 362, from 6215 to 6218  
No. 363, from 6218 to 6221 No. 364, from 6221 to 6224  
No. 365, from 6224 to 6227 No. 366, from 6227 to 6230  
No. 367, from 6230 to 6233 No. 368, from 6233 to 6236  
No. 369, from 6236 to 6239 No. 370, from 6239 to 6242  
No. 371, from 6242 to 6245 No. 372, from 6245 to 6248  
No. 373, from 6248 to 6251 No. 374, from 6251 to 6254  
No. 375, from 6254 to 6257 No. 376, from 6257 to 6260  
No. 377, from 6260 to 6263 No. 378, from 6263 to 6266  
No. 379, from 6266 to 6269 No. 380, from 6269 to 6272  
No. 381, from 6272 to 6275 No. 382, from 6275 to 6278<

FOLD M

PLUGS

Heaving plug—Material \_\_\_\_\_ Length \_\_\_\_\_ Depth \_\_\_\_\_  
Adapters—Material \_\_\_\_\_ Size \_\_\_\_\_

SHOOTING RECORD

| Size | Shell used | Explosive used | Quantity | Date | Depth shot | Depth cleaned out |
|------|------------|----------------|----------|------|------------|-------------------|
|      |            |                |          |      |            |                   |
|      |            |                |          |      |            |                   |
|      |            |                |          |      |            |                   |

TOOLS USED

Rotary tools were used from \_\_\_\_\_ feet to \_\_\_\_\_ feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet  
Cable tools were used from \_\_\_\_\_ feet to \_\_\_\_\_ feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet

DATES Potential test: 11-30-61 Pumped 14 BO 12

December 8, 1961 Put to producing 10-54" SPM Dec. 1, 1961

The production for the first 24 hours was \_\_\_\_\_ barrels of fluid of which \_\_\_\_\_% was oil; \_\_\_\_\_% emulsion; \_\_\_\_\_% water; and \_\_\_\_\_% sediment. Gravity, °Bé. \_\_\_\_\_

If gas well, cu. ft. per 24 hours \_\_\_\_\_ Gallons gasoline per 1,000 cu. ft. of gas \_\_\_\_\_

Rock pressure, lbs. per sq. in. \_\_\_\_\_

EMPLOYEES

\_\_\_\_\_, Driller \_\_\_\_\_, Driller  
\_\_\_\_\_, Driller \_\_\_\_\_, Driller

FORMATION RECORD

| FROM— | TO—  | TOTAL FEET | FORMATION                 |
|-------|------|------------|---------------------------|
| 0     | 11   | 11         | KB to ground level.       |
| 11    | 1050 | 1039       | Shale with sand stringers |
| 1050  | 1210 | 160        | Sand with shale stringers |
| 1210  | 1900 | 890        | Brown shale               |
| 1900  | 3800 | 1900       | Sand with shale stringers |
| 3800  | 4700 | 900        | Black shale               |
| 4700  | 5245 | 545        | Shaly and silty sands     |
|       |      |            | Electric Log Tops         |
|       |      |            | Farmington Sand 140       |
|       |      |            | Fruitland Shale 535       |
|       |      |            | Pictured Cliff 1050       |
|       |      |            | Lewis Shale 1210          |
|       |      |            | Mesaverde 2020            |
|       |      |            | Mancos Shale 3830         |
|       |      |            | Gallup 4760               |
| LECT— | TO—  | TOTAL FEET | FORMATION                 |

FORMATION RECORD—CONTINUED

ILLEGIBI F

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE\*  
(Other instructions on re-  
verse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

**SF 079065**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

**Central Totah Unit**

9. WELL NO.

**1**

10. FIELD AND POOL, OR WILDCAT

**Totah Gallup**

11. SEC., T., R., M., OR BLK. AND  
SURVEY OR AREA

**Sec. 21, T-29, R-13**

12. COUNTY OR PARISH

**San Juan**

13. STATE

**New Mexico**

1. OIL ☐ GAS ☐ OTHER ☒ **Convert to Water Injection**

2. NAME OF OPERATOR

**Tenneco Oil Company**

3. ADDRESS OF OPERATOR

**P. O. Box 1714, Durango, Colorado**

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)

At surface

**820' F/SL, 675' F/WL Sec. 21, T-29, R-13**

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

**5303 G.L.**

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐

FRACTURE TREAT ☐

SHOOT OR ACIDIZE ☐

REPAIR WELL ☐

(Other) ☐

PULL OR ALTER CASING ☐

MULTIPLE COMPLETE ☐

ABANDON\* ☐

CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐

FRACTURE TREATMENT ☐

SHOOTING OR ACIDIZING ☐

(Other) ☐

REPAIRING WELL ☐

ALTERING CASING ☐

ABANDONMENT\* ☐

**Convert to Water Injection** ☒

(NOTE: Report results of multiple completion on Well  
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

**Pulled rods, tubing and pump. Ran plastic coated tubing w/Baker Model "A" Packer set at 5090', Install meter manifold. Well converted to water injection for Central Totah Unit.**

**RECEIVED**

**OCT 22 1964**

**U. S. GEOLOGICAL SURVEY  
FARMINGTON, N. M.**

18. I hereby certify that the foregoing is true and correct

Original signed by:

SIGNED **J. H. WATKINS**

TITLE **Dist. Office Supervisor**

DATE **10-19-64**

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

RECEIVED

APR 19 1983

U. S. GEOLOGICAL SURVEY  
FARMINGTON, N. M.

ASSIGNMENT OF OPERATING RIGHTS

NOTED - CLERK'S OFFICE

STATE OF NEW MEXICO §  
COUNTY OF SAN JUAN §

KNOW ALL MEN BY THESE PRESENTS:

THAT, Paramount Petroleum Corporation, a Texas corporation (herein called "Assignor"), for and in consideration of Ten Dollars (\$10.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, does hereby bargain, sell, transfer and assign unto Southland Royalty Company, a Delaware corporation, (herein called "Assignee") all of the Operating Rights, as hereinafter defined, which Assignor owns, except those reserved below, in that certain Oil and Gas Lease dated October 31, 1951, from the United States of America (such lease being further identified by Serial No. USA-NM 0468128 and herein called "Said Lease"), covering certain lands in San Juan County, New Mexico, described as follows:

Township 29 North, Range 13 West, N.M.P.M.

Section 21: S/2 SW/4, SW/4 SE/4

Section 34: All

Assignor specifically excepts and reserves unto itself all of the record title to the Said Lease, in addition to all Operating Rights, as hereinafter defined, in and to the Said Lease insofar as it covers and affects "the Totah Gallup Sand including all of the formation known as the Gallup, the vertical limits of which will include all of the formation known and corresponding to the Gallup with vertical limits from 5246' to 5732' as shown on the Electric Log of Tenneco's Callow No. 11 Well and from 5362' to 5854' as shown on the Electric Log of Aztec's Hagood No. 3-D Well." It is Assignor's intention to hereby reserve all of the leasehold rights committed to the Unitized Formation in the Central Totah Unit as identified in the Unit Agreement, dated October 1, 1962, creating such unit.

The term "Operating Rights" as used herein shall mean the right to operate for, test for, explore for, drill for, develop, produce, own and market production of oil, gas and any other minerals covered by the above described lease.

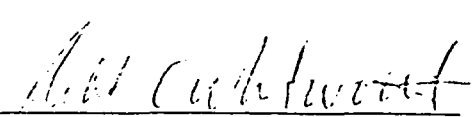
Assignee accepts this assignment subject to the terms and provisions of the Said Lease, and agrees to observe and comply with such terms and provisions in all Assignee's operations on the lands and depths hereby assigned.

This assignment shall be binding upon the Assignor, its successors and assigns, and shall inure to the benefit of the Assignee, its successors and assigns.

IN WITNESS WHEREOF, this instrument is made and entered into effective as between the parties hereto as of August 1, 1980, at 7:00 o'clock a.m., notwithstanding the date of formal approval by the Bureau of Land Management of the assignment into Assignor herein of record title to the Said Lease.

ASSIGNOR:                      PARAMOUNT PETROLEUM CORPORATION

By

  
Robert C. Whitworth

Vice President Operations

ASSIGNEE:                      SOUTHLAND ROYALTY COMPANY

By

  
G.W. Slaughter

Vice President - Production

STATE OF TEXAS       §  
                              §  
COUNTY OF TARRANT   §

BEFORE ME, the undersigned, a Notary Public in and for said County and State, on this day personally appeared Robert C. Whitworth, Vice President Operations, known to me to be the person and officer whose name is subscribed to the foregoing instrument and acknowledged to me that the same was the act of the said Paramount Petroleum Corporation, a corporation, and that he executed the same as the act of such corporation for the purposes and consideration therein expressed, and in the capacity therein stated.

GIVEN UNDER MY HAND AND SEAL OF OFFICE this the 29th day of August, 1980.

  
Teresa Morris  
Notary Public in and for Said  
County and State  
Teresa Morris  
My Commission Expires: 11-8-80

STATE OF TEXAS       §  
                              §  
COUNTY OF TARRANT   §

BEFORE ME, the undersigned, a Notary Public in and for said County and State, on this day personally appeared George W. Slaughter, Vice President-Production, known to me to be the person and officer whose name is subscribed to the foregoing instrument and acknowledged to me that the same as the act of the said Southland Royalty Company, a corporation, and that he executed the same as the act of such corporation for the purposes and consideration therein expressed, and in the capacity therein stated.

GIVEN UNDER MY HAND AND SEAL OF OFFICE this the 29th day of August, 1980.

  
Jill Ann Myller  
Notary Public in and for Said  
County and State

My Commission Expires:

JILL ANN MYLLER, Notary Public  
in and for Tarrant County, Texas  
My commission expires April 5, 1981

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

ASSIGNMENT AFFECTING RECORD TITLE  
TO OIL AND GAS LEASE

GS-Albuquerque  
PRODUCING

FORM APPROVED  
OMB NO. 42-R1599

Lease Serial No.

NW-0468128

Lease effective date  
October 31, 1951

FOR BLM OFFICE USE ONLY

New Serial No.

PART I

1. Assignee's Name  
Paramount Petroleum Corporation

Address (include zip code)  
1980 South Post Oak, Suite 1800  
Houston, Texas 77056

The undersigned, as owner of 100 percent of the record title of the above-designated oil and gas lease, hereby transfers and assigns to the assignee shown above, the record title interest in and to such lease as specified below.

2. Describe the lands affected by this assignment (43 CFR 3101.2-3)

Township 29 North, Range 13 West, N.M.P.M.  
Section 21: S/2 SW/4, SW/4 SE/4  
Section 34: All

RECEIVED  
OCT 20 1980  
U.S. GEOLOGICAL SURVEY  
FOSWELL, NEW MEXICO

RECEIVED  
OCT 27 1980  
U. S. GEOLOGICAL SURVEY  
FARMINGTON, N. M.

- |   |      |
|---|------|
| 3. Specify interest or percent of assignor's record title interest being conveyed to assignee | 100% |
| 4. Specify interest or percent of record title interest being retained by assignor, if any    | None |
| 5. Specify overriding royalty being reserved by assignor                                      | None |
| 6. Specify overriding royalty previously reserved or conveyed, if any                         | 5%   |
7. If any payments out of production have previously been created out of this lease, or if any such payments are being reserved under this assignment, attach statement giving full details as to amount, method of payment, and other pertinent terms as provided under 43 CFR 3106.

It is agreed that the obligation to pay any overriding royalties or payments out of production of oil created herein, which, when added to overriding royalties or payments out of production previously created and to the royalty payable to the United States, aggregate in excess of 17 1/2 percent, shall be suspended when the average production of oil per well per day averaged on the monthly basis is 15 barrels or less.

I CERTIFY That the statements made herein are true, complete, and correct to the best of my knowledge and belief and are made in good faith.

Executed this 1st day of August, 1980.  
SOUTHLAND ROYALTY COMPANY

By: *SW Slaght*  
(Assignor's Signature)

1000 Fort Worth Club Tower  
(Assignor's Address)

Fort Worth, Texas 76102  
(City) (State) (Zip Code)

Title 18 U.S.C., Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious, or fraudulent statements or representations as to any matter within its jurisdiction.

THE UNITED STATES OF AMERICA

Assignment approved effective OCT 1 1980

By: *Paul G. Martinez*  
(Authorized Officer)

Chief, Oil and Gas Section

OCT 17 1980

8001 246