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Appropriate District Office  
DISTRICT I  
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DISTRICT II  
P.O. Drawer DD, Azusa, NM 88210

DISTRICT III  
1000 Rio Blanco Rd., Aztec, NM 87410

State of New Mexico  
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

Form C-104  
Revised 1-1-89  
See Instructions  
at Bottom of Page

REQUEST FOR ALLOWABLE AND AUTHORIZATION  
TO TRANSPORT OIL AND NATURAL GAS

|                                                                                                                                                   |                                                                                            |                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-----------------------|
| Operator<br><b>MERIDIAN OIL INC.</b>                                                                                                              |                                                                                            | Well API No.          |
| Address<br><b>P. O. Box 4289, Farmington, New Mexico 87499</b>                                                                                    |                                                                                            |                       |
| Reason(s) for Filing (Check proper box) <input type="checkbox"/> Other (Please explain)                                                           |                                                                                            |                       |
| New Well <input type="checkbox"/>                                                                                                                 | Change in Transporter of:<br>Oil <input type="checkbox"/> Dry Gas <input type="checkbox"/> | <i>Effec. 6-23-90</i> |
| Recompletion <input type="checkbox"/>                                                                                                             | Casinghead Gas <input type="checkbox"/> Condensate <input type="checkbox"/>                |                       |
| Change in Operator <input checked="" type="checkbox"/>                                                                                            |                                                                                            |                       |
| If change of operator give name and address of previous operator <b>Union Texas Petroleum Corporation, P. O. Box 2120, Houston, TX 77252-2120</b> |                                                                                            |                       |

II. DESCRIPTION OF WELL AND LEASE

|                                                                                                                                                                                                                     |                      |                                                       |                                        |                              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------------------------------------------------------|----------------------------------------|------------------------------|
| Lease Name<br><b>RICHARDSON</b>                                                                                                                                                                                     | Well No.<br><b>2</b> | Pool Name, including Formation<br><b>BASIN DAKOTA</b> | Kind of Lease<br>State, Federal or Fee | Lease No.<br><b>SF077972</b> |
| Location<br>Unit Letter <b>P</b> : <b>890</b> Foot From The <b>S</b> Line and <b>990</b> Foot From The <b>E</b> Line<br>Section <b>11</b> Township <b>27N</b> Range <b>13N</b> , <b>NMPM</b> <b>SAN JUAN</b> County |                      |                                                       |                                        |                              |

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

|                                                                                                                                                                |                                                                                                                         |      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|------|
| Name of Authorized Transporter of Oil <input checked="" type="checkbox"/> or Condensate <input checked="" type="checkbox"/><br><b>Meridian Oil Inc.</b>        | Address (Give address to which approved copy of this form is to be sent)<br><b>P. O. Box 4289, Farmington, NM 87499</b> |      |
| Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/><br><b>El Paso Natural Gas Company</b> | Address (Give address to which approved copy of this form is to be sent)<br><b>P. O. Box 990, Farmington, NM 87499</b>  |      |
| If well produces oil or liquids, give location of tanks.                                                                                                       | Unit                                                                                                                    | Sec. |
|                                                                                                                                                                | Trp.                                                                                                                    | Rgs. |
| Is gas actually connected?                                                                                                                                     | When?                                                                                                                   |      |

If this production is commingled with that from any other lease or pool, give commingling order number:

IV. COMPLETION DATA

|                                     |                             |          |                 |          |        |                   |            |            |
|-------------------------------------|-----------------------------|----------|-----------------|----------|--------|-------------------|------------|------------|
| Designate Type of Completion - (X)  | Oil Well                    | Gas Well | New Well        | Workover | Deepen | Plug Back         | Same Res'v | Diff Res'v |
| Date Spudded                        | Date Compl. Ready to Prod.  |          | Total Depth     |          |        | P.B.T.D.          |            |            |
| Elevations (DF, RKB, RT, GR, etc.)  | Name of Producing Formation |          | Top Oil/Gas Pay |          |        | Tubing Depth      |            |            |
| Perforations                        |                             |          |                 |          |        | Depth Casing Shoe |            |            |
| TUBING, CASING AND CEMENTING RECORD |                             |          |                 |          |        |                   |            |            |
| HOLE SIZE                           | CASING & TUBING SIZE        |          | DEPTH SET       |          |        | SACKS CEMENT      |            |            |
|                                     |                             |          |                 |          |        |                   |            |            |
|                                     |                             |          |                 |          |        |                   |            |            |
|                                     |                             |          |                 |          |        |                   |            |            |

V. TEST DATA AND REQUEST FOR ALLOWABLE

OIL WELL (Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours.)

|                                |                 |                                               |                                      |
|--------------------------------|-----------------|-----------------------------------------------|--------------------------------------|
| Date First New Oil Run To Tank | Date of Test    | Producing Method (Flow, pump, gas lift, etc.) |                                      |
| Length of Test                 | Tubing Pressure | Casing Pressure                               | <b>RECEIVED</b><br><b>JUL 3 1990</b> |
| Actual Prod. During Test       | Oil - Bbls.     | Water - Bbls.                                 |                                      |

GAS WELL

|                                  |                           |                           |              |
|----------------------------------|---------------------------|---------------------------|--------------|
| Actual Prod. Test - MCF/D        | Length of Test            | Bbls. Condensate/MMCF     | Gravity (SG) |
| Testing Method (pilot, back pr.) | Tubing Pressure (Shut-in) | Casing Pressure (Shut-in) | Choke Size   |

VI. OPERATOR CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature *Leslie Kahwajy*  
Printed Name **Leslie Kahwajy** Prod. Serv. Supervisor  
Date **6/15/90** Telephone No. **(505) 326-9700**

OIL CONSERVATION DIVISION

Date Approved **JUL 05 1990**  
By *Brian D. Shaw*  
Title **SUPERVISOR DISTRICT #3**

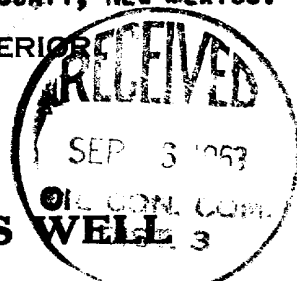
INSTRUCTIONS: This form is to be filed in compliance with Rule 1104

- 1) Request for allowable for newly drilled or deepened well must be accompanied by tabulation of deviation tests taken in accordance with Rule 111.
- 2) All sections of this form must be filled out for allowable on new and recompleted wells.
- 3) Fill out only Sections I, II, III, and VI for changes of operator, well name or number, transporter, or other such changes.
- 4) Separate Form C-104 must be filed for each pool in multiply completed wells.

LEASE OR PERMIT TO PROSPECT S/2 SEC.11  
T-27-N. R-13-W. N.M.P.M., SAN JUAN

UNITED STATES COUNTY, NEW MEXICO.

DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY



# LOG OF OIL OR GAS WELL

### LOCATE WELL CORRECTLY

Location 890 ft. <sup>[N.]</sup><sub>[S.]</sub> of S. Line and 990 ft. <sup>[E.]</sup><sub>[W.]</sub> of E. Line of SECTION 11 Elevation 5884  
(Top of floor relative to sea level)

Date SEPTEMBER 20, 1963 Title DRILLING SUPERINTENDENT

The summary on this page is for the condition of the well at above date.

Commenced drilling AUGUST 14, 1963 Finished drilling AUGUST 27, 1963.

**OIL OR GAS SANDS OR ZONES**

(Denote  $g$  as  $h_{21}(G)$ )

No. 3 from \_\_\_\_\_ to \_\_\_\_\_ No. 6. from \_\_\_\_\_ to \_\_\_\_\_

## IMPORTANT WATER SANDS

No. 2, from \_\_\_\_\_ to \_\_\_\_\_

### CASING RECORD

| Size casing | Weight per foot | Threads per inch | Make | Amount | Kind of shoe               | Cut and pulled from | Perforated |     | Purpose |
|-------------|-----------------|------------------|------|--------|----------------------------|---------------------|------------|-----|---------|
|             |                 |                  |      |        |                            |                     | From—      | To— |         |
| 2 3/8       | 4.70            | 8 RD             | J-55 | 6016   | HISLOKA OF OIL OK CYS MEIT |                     |            |     |         |

## MUDDING AND CEMENTING RECORD

| Size casing    | Where set | Number sacks of cement | Method used                                                                                                                | Mud gravity | Amount of mud used |
|----------------|-----------|------------------------|----------------------------------------------------------------------------------------------------------------------------|-------------|--------------------|
| 8 5/8          | 306 FT.   | 200 sz                 | PUMP PLUG                                                                                                                  |             |                    |
| <del>XXX</del> |           |                        |                                                                                                                            |             |                    |
| 4 1/2          | 6168 FT.  | 415 CUBIC FT.          | SECOND STAGE THRU STAGE COLLAR AT 4169 FT. WITH 740 CUBIC FT. 1 3RD STAGE THRU STAGE COLLAR AT 1634 FT. WITH 585 CUBIC FT. |             |                    |

## PLUGS AND ADAPTERS

Adapters—Material \_\_\_\_\_ Size \_\_\_\_\_

### SHOOTING RECORD

| Size                                                                                                                                                                     | Shell used | Explosive used | Quantity | Date | Depth shot | Depth cleaned out |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------|----------|------|------------|-------------------|
| PERF 2/FT. FROM 5924-5928, 5933-5938, 5954-5960, 5967-5971, 5974-6002 AND 6072-6104.<br>SAND WATER FRAG. PERFS W/ 80,000# SAND & 101,740 GALS 1% CALCIUM CHLORIDE WATER. |            |                |          |      |            |                   |

## TOOLS USED

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

## DATES

|                                  |  |                                                |
|----------------------------------|--|------------------------------------------------|
| <b>SEPTEMBER 17</b> 19 <b>63</b> |  | <b>DATES</b><br>Put to producing _____, 19____ |
|----------------------------------|--|------------------------------------------------|

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 **5,451 MCFPD** Gallons gasoline per 1,000 cu. ft. of gas .....

Rock pressure, lbs. per sq. in. **7 DAY SITP 1883 PSIG SITP 1836 PSIG CAOF 8,947 MCYPD**

## EMPLOYEES

C. G. SEYBERT, Driller

## FORMATION RECORD

| FORMATION RECORD |      |            |                 |
|------------------|------|------------|-----------------|
| FROM—            | TO—  | TOTAL FEET | FORMATION       |
| SURFACE          | 1150 | 1150       | KIRTLAND        |
| 1150             | 1315 | 165        | FRUITLAND       |
| 1315             | 1500 | 185        | PICTURED CLIFFS |
| 1500             | 2190 | 1690       | LEWIS           |
| 2190             | 4150 | 1960       | MESA VERDE      |
| 4150             | 5850 | 1700       | MANCOS          |
| 5850             | 6160 | 310        | DAKOTA          |
| 6160             | 6175 | 15         | MORRISON        |

UNITED STATES DEPARTMENT OF JUSTICE  
FEDERAL BUREAU OF INVESTIGATION  
WASHINGTON, D.C. 20535

DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

A blank sheet of graph paper with a grid pattern. The grid consists of small squares formed by thin black lines. There are approximately 20 columns and 25 rows of squares. A thicker vertical line runs down the center, dividing the grid into two equal halves. A thicker horizontal line runs across the middle, dividing the grid into two equal halves. These two thicker lines intersect at the center of the page. The overall appearance is that of a standard piece of graph paper used for mathematics or engineering.

1. *Chlorophyll a* and *Chlorophyll b* were determined by the method of Arar and Collins (1971).

[illegible]

14-00000

[illegible]

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| 1990-1991 |  | 1991-1992 |  | 1992-1993 |  | 1993-1994 |  | 1994-1995 |  | 1995-1996 |  | 1996-1997 |  | 1997-1998 |  | 1998-1999 |  | 1999-2000 |  | 2000-2001 |  | 2001-2002 |  | 2002-2003 |  | 2003-2004 |  | 2004-2005 |  | 2005-2006 |  | 2006-2007 |  | 2007-2008 |  | 2008-2009 |  | 2009-2010 |  | 2010-2011 |  | 2011-2012 |  | 2012-2013 |  | 2013-2014 |  | 2014-2015 |  | 2015-2016 |  | 2016-2017 |  | 2017-2018 |  | 2018-2019 |  | 2019-2020 |  | 2020-2021 |  | 2021-2022 |  | 2022-2023 |  | 2023-2024 |  | 2024-2025 |  | 2025-2026 |  | 2026-2027 |  | 2027-2028 |  | 2028-2029 |  | 2029-2030 |  | 2030-2031 |  | 2031-2032 |  | 2032-2033 |  | 2033-2034 |  | 2034-2035 |  | 2035-2036 |  | 2036-2037 |  | 2037-2038 |  | 2038-2039 |  | 2039-2040 |  | 2040-2041 |  | 2041-2042 |  | 2042-2043 |  | 2043-2044 |  | 2044-2045 |  | 2045-2046 |  | 2046-2047 |  | 2047-2048 |  | 2048-2049 |  | 2049-2050 |  | 2050-2051 |  | 2051-2052 |  | 2052-2053 |  | 2053-2054 |  | 2054-2055 |  | 2055-2056 |  | 2056-2057 |  | 2057-2058 |  | 2058-2059 |  | 2059-2060 |  | 2060-2061 |  | 2061-2062 |  | 2062-2063 |  | 2063-2064 |  | 2064-2065 |  | 2065-2066 |  | 2066-2067 |  | 2067-2068 |  | 2068-2069 |  | 2069-2070 |  | 2070-2071 |  | 2071-2072 |  | 2072-2073 |  | 2073-2074 |  | 2074-2075 |  | 2075-2076 |  | 2076-2077 |  | 2077-2078 |  | 2078-2079 |  | 2079-2080 |  | 2080-2081 |  | 2081-2082 |  | 2082-2083 |  | 2083-2084 |  | 2084-2085 |  | 2085-2086 |  | 2086-2087 |  | 2087-2088 |  | 2088-2089 |  | 2089-2090 |  | 2090-2091 |  | 2091-2092 |  | 2092-2093 |  | 2093-2094 |  | 2094-2095 |  | 2095-2096 |  | 2096-2097 |  | 2097-2098 |  | 2098-2099 |  | 2099-2100 |  | 2100-2101 |  | 2101-2102 |  | 2102-2103 |  | 2103-2104 |  | 2104-2105 |  | 2105-2106 |  | 2106-2107 |  | 2107-2108 |  | 2108-2109 |  | 2109-2110 |  | 2110-2111 |  | 2111-2112 |  | 2112-2113 |  | 2113-2114 |  | 2114-2115 |  | 2115-2116 |  | 2116-2117 |  | 2117-2118 |  | 2118-2119 |  | 2119-2120 |  | 2120-2121 |  | 2121-2122 |  | 2122-2123 |  | 2123-2124 |  | 2124-2125 |  | 2125-2126 |  | 2126-2127 |  | 2127-2128 |  | 2128-2129 |  | 2129-2130 |  | 2130-2131 |  | 2131-2132 |  | 2132-2133 |  | 2133-2134 |  | 2134-2135 |  | 2135-2136 |  | 2136-2137 |  | 2137-2138 |  | 2138-2139 |  | 2139-2140 |  | 2140-2141 |  | 2141-2142 |  | 2142-2143 |  | 2143-2144 |  | 2144-2145 |  | 2145-2146 |  | 2146-2147 |  | 2147-2148 |  | 2148-2149 |  | 2149-2150 |  | 2150-2151 |  | 2151-2152 |  | 2152-2153 |  | 2153-2154 |  | 2154-2155 |  | 2155-2156 |  | 2156-2157 |  | 2157-2158 |  | 2158-2159 |  | 2159-2160 |  | 2160-2161 |  | 2161-2162 |  | 2162-2163 |  | 2163-2164 |  | 2164-2165 |  | 2165-2166 |  | 2166-2167 |  | 2167-2168 |  | 2168-2169 |  | 2169-2170 |  | 2170-2171 |  | 2171-2172 |  | 2172-2173 |  | 2173-2174 |  | 2174-2175 |  | 2175-2176 |  | 2176-2177 |  | 2177-2178 |  | 2178-2179 |  | 2179-2180 |  | 2180-2181 |  | 2181-2182 |  | 2182-2183 |  | 2183-2184 |  | 2184-2185 |  | 2185-2186 |  | 2186-2187 |  | 2187-2188 |  | 2188-2189 |  | 2189-2190 |  | 2190-2191 |  | 2191-2192 |  | 2192-2193 |  | 2193-2194 |  | 2194-2195 |  | 2195-2196 |  | 2196-2197 |  | 2197-2198 |  | 2198-2199 |  | 2199-2200 |  | 2200-2201 |  | 2201-2202 |  | 2202-2203 |  | 2203-2204 |  | 2204-2205 |  | 2205-2206 |  | 2206-2207 |  | 2207-2208 |  | 2208-2209 |  | 2209-2210 |  | 2210-2211 |  | 2211-2212 |  | 2212-2213 |  | 2213-2214 |  | 2214-2215 |  | 2215-2216 |  | 2216-2217 |  |
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IMPORT AND EXPORT

|              |                |                   |            |                  |
|--------------|----------------|-------------------|------------|------------------|
| $\sigma_1^2$ | $\text{MOE}^2$ | $8 \cdot 10^{15}$ | $\sigma_1$ | $2.8 \cdot 10^7$ |
| $\sigma_2^2$ | $\text{MOE}^2$ | $1 \cdot 10^{15}$ | $\sigma_2$ | $1 \cdot 10^7$   |

### CRIMINAL RECORD

|    |      |         |      |      |          |
|----|------|---------|------|------|----------|
| TO | FROM | SUBJECT | DATE | TIME | INITIALS |
| TO | FROM | SUBJECT | DATE | TIME | INITIALS |

(It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was substituted, or left in the well, give the size and location. If the well has been dynamited, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing of water.)

# HISTORY OF OIL OR GAS WELL

U. S. GOVERNMENT PRINTING OFFICE 10-43084-2

[illegible]

INFORMATION RECORD-Continued