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SANTA FE, NEW MEXICO 87501

FEB 13 1985

O.C.D.

| |
|--|
| 5A. Indicate Type of Lease |
| STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/> |
| 5. State Oil & Gas Lease No. |
| L-3568 |

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

| | | | |
|--|--|---|--|
| 1a. Type of Work | | 7. Unit Agreement Name | |
| b. Type of Well OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> | | Burton Flat Deep Unit No. 14-08-0001-12391 | |
| 2. Name of Operator MONSANTO OIL COMPANY | | 8. Farm or Lease Name Burton Flat Deep Unit | |
| 3. Address of Operator 1300 One First City Center 500 West Texas, Midland, Texas 79701 | | 9. Well No. 39 | |
| 4. Location of Well UNIT LETTER <u>W</u> LOCATED <u>660'</u> FEET FROM THE <u>South</u> LINE AND <u>1980'</u> FEET FROM THE <u>East</u> LINE OF SEC. <u>2</u> TWP. <u>21S</u> RGE. <u>27E</u> NMPM | | 10. Field and Pool, or Wildcat <u>Undesignated</u> <u>E. Avalon-Bone Spring</u> | |
| 11. Elevations (show whether DF, KI, etc.) 3228' GL | | 12. County Eddy | |
| 21A. Kind & Status Plug. Bond Statewide | | 19. Proposed Depth 5700' | |
| 21B. Drilling Contractor Unknown | | 19A. Formation Bone Spring | |
| 22. Approx. Date Work will start As Soon As Possible | | 20. Rotary or C.T. Rotary | |

23.

PROPOSED CASING AND CEMENT PROGRAM

| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | SACKS OF CEMENT | EST. TOP |
|--------------|----------------|-----------------|---------------|-----------------|---|
| 17-1/2" | 13-3/8" H-40 | 48.0# ST&C | 600'± | 500sx | Circulated |
| 11-1/4" | 8-5/8" J-55 | 24.0# ST&C | 2500'± | 700sx | Circulated |
| 7-7/8" | 5-1/2" K-55 | 15.5# LT&C | 5700'± | 750sx | To isolate all water, oil, and gas zones. |

Propose to drill to approximately 5700' to test Bone Spring and intermediate formations.

See attached "Supplemental Data" for casing program and pressure control details.

If commercial production is indicated, the well will be completed in the deepest formation, by cementing production casing, perforating and stimulating. Run 2-7/8" tubing and test well.

180 DAYS
8-19-85

UNDERWAY

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

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

Signed Jerry W. Long Title Agent Date February 11, 1985
(This space for State Use)

APPROVED BY Mike Williams TITLE OIL AND GAS INSPECTOR DATE FEB 19 1985
CONDITIONS OF APPROVAL, IF ANY

8 5/8

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form C-102
Revised 10-1-79

All distances must be from the outer boundaries of the Section.

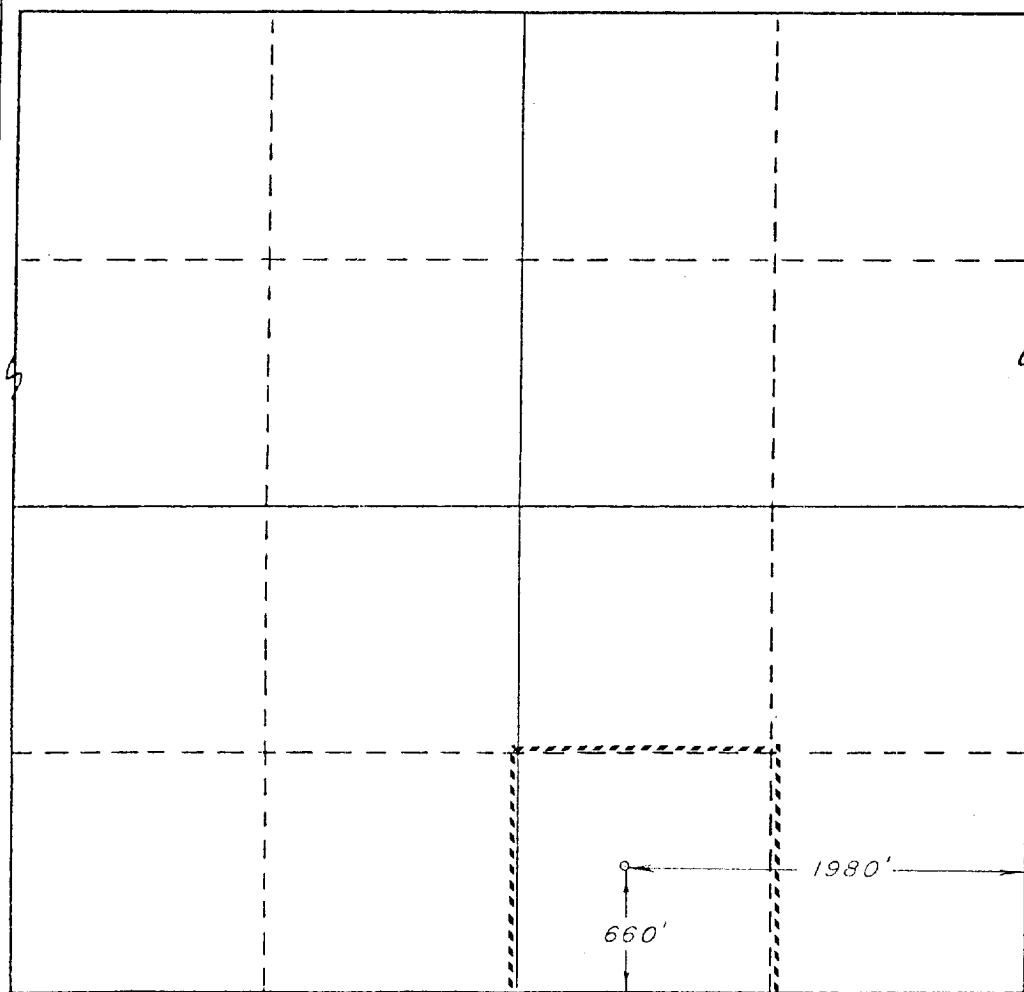
| | | | | |
|---|---|---|----------------------|---------------------------------------|
| Operator MONSANTO COMPANY | | Lease BURTON FLAT UNIT | | Well No. 39 |
| Unit Letter W | Section 2 | Township 21-S | Range 27-E | County EDDY |
| Actual Footage Location of Well: 660 feet from the SOUTH line and 1980 feet from the EAST line | | | | |
| Ground Level Elev. 3228' | Producing Formation Bone Spring | Pool Undesignated E. Avalon-Bone Spring | | Dedicated Acreage: 40 Acres |

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☒ Yes ☐ No If answer is "yes," type of consolidation Unitization

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Division.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name JERRY W. LONGPosition
AgentCompany
MONSANTO OIL COMPANYDate
February 12, 1985

I hereby certify that the well location shown on this plat 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.

February 6, 1985

Date Surveyed

RICHARD B. DUNIVEN

Registered Professional Engineer
and/or Land Surveyor

Certificate No.

4882

SUPPLEMENTAL DRILLING DATA

MONSANTO OIL COMPANY
No.39 Burton Flat Deep Unit
SW $\frac{1}{4}$ SE $\frac{1}{4}$ Sec.2-21S-27E
Eddy County, N.M.

L-3568

The following items supplement the information on Form C-101.

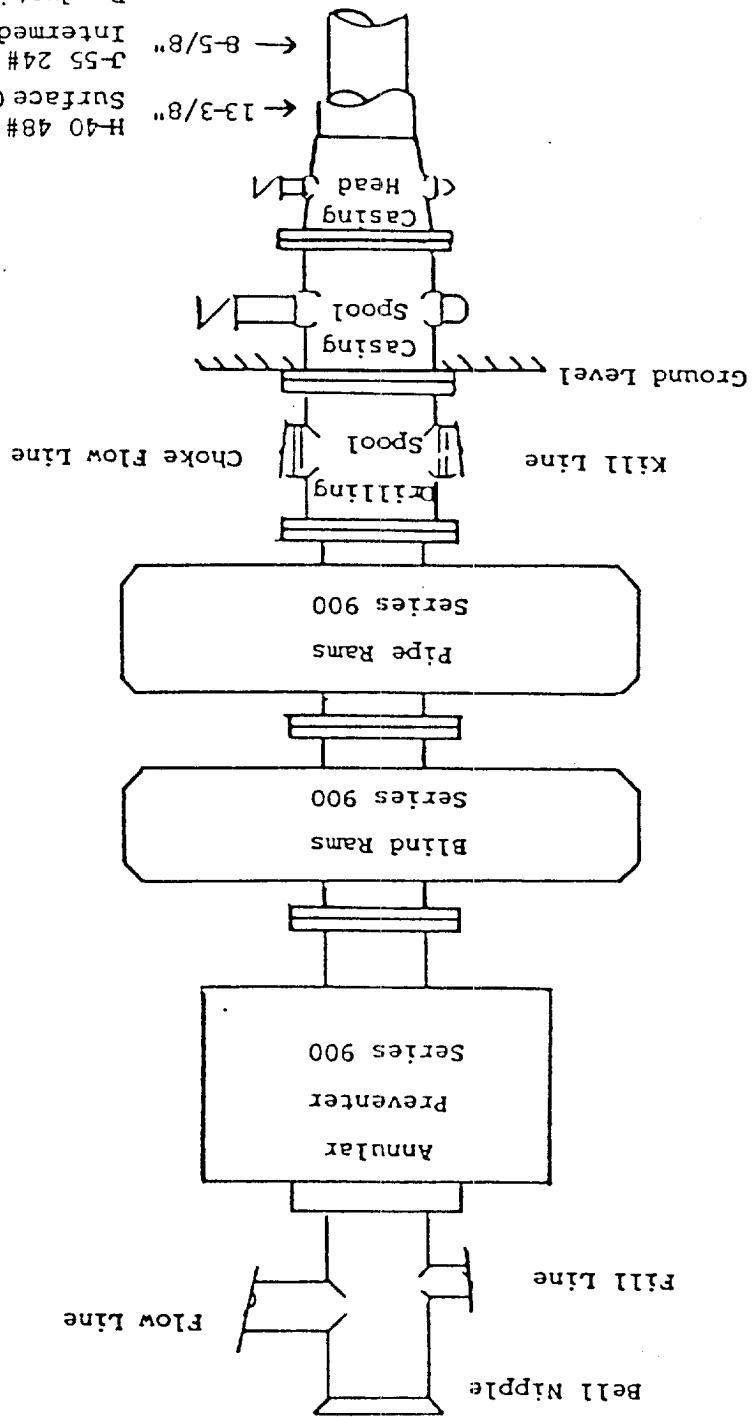
1. PROPOSED CASING PROGRAM:

- 13-3/8" Casing - H-40, 48# ST&C casing will be set to 600'± with cement circulated.
- 8-5/8" Casing - J-55, 24# ST&C casing will be set to 2500'± with cement circulated.
- 5-1/2" Casing - K-55, 15.5# LT&C casing will be set thru the producing zone and cemented with sufficient cement to isolate all oil, gas and water zones.

Intermediate and production casing strings will be tested to 1000 psi.

2. PRESSURE CONTROL EQUIPMENT: Pressure control equipment will include a 3000#WP blowout preventer stack with Series 900 annular preventer and Series 900 blind and pipe rams. The BOP stack will include a kill line and choke manifold tested to 2000 psi. BOP hydraulic controls will be operated at least daily. Mud weight will be maintained between 8.8 and 9.5#/Gal. to control bottom hole pressure. A kelly cock will be installed on the kelly joint and a full opening safety valve will be available on the rig floor.

MONSANTO OIL COMPANY
 NO. 39 BURTON FLAT DEEP UNIT
 660' FSL 1980' FEL SEC. 2-21S-27E
 EDDY COUNTY, N.M.



H-40 48# ST&C Surface Casing Set at
 J-55 24# ST&C Intermediate Casing Set at
 K-55 15.5# LT&C if warranted
 Production Casing will be 5-1/2"
 BLOWOUT PREVENTER STACK
 3000#WP
 Rams Operated Daily

MONSANTO OIL COMPANY
NO. 39 BURTON FLAT DEEP UNIT
SW $\frac{1}{4}$ SE $\frac{1}{4}$ SEC. 2-21S-27E
EDDY COUNTY, N.M.

