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# NEW MEXICO OIL CONSERVATION COMMISSION

Form C-101  
Revised 1-1-65

5A. Indicate Type of Lease  
STATE ☒ FEE ☐  
5. State Oil & Gas Lease No.  
**CG - 5845**

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

|  |  |  |  |
|--|--|--|--|
| 1a. Type of Work<br>b. Type of Well<br>OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/><br>SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/> |  | 7. Unit Agreement Name   |  |
| 2. Name of Operator<br><b>Sunray DX Oil Company</b>  |  | 8. Farm or Lease Name<br><b>New Mexico Broseco State</b>       |  |
| 3. Address of Operator<br><b>P. O. Box 1416 - Roswell, New Mexico</b>  |  | 9. Well No.<br><b>1</b>  |  |
| 4. Location of Well<br>UNIT LETTER <b>C</b> LOCATED <b>660</b> FEET FROM THE <b>North</b> LINE<br>AND <b>1980</b> FEET FROM THE <b>West</b> LINE OF SEC. <b>21</b> TWP. <b>10-S</b> RGE. <b>34-E</b> NMPM                                      |  | 10. Field and Pool, or Wildcat<br><b>Simanola Penn</b>         |  |
|  |  | 12. County<br><b>Lea</b>                                       |  |
|  |  | 19. Proposed Depth<br><b>10,000</b>                            |  |
|  |  | 19A. Formation<br><b>Penn Bough "C"</b>                        |  |
|  |  | 20. Rotary or C.T.<br><b>Rotary</b>                            |  |
| 21. Elevations (Show whether DF, RT, etc.)<br><b>Will furnish later</b>  |  | 21A. Kind & Status Plug. Bond<br><b>Approved</b>               |  |
|  |  | 21B. Drilling Contractor<br><b>Cactus Drlg. Corp.</b>          |  |
|  |  | 22. Approx. Date Work will start<br><b>As soon as possible</b> |  |

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         | 48#             | 375'          | 375 sxs         | Surface  |
| 12-1/4       | 8-5/8          | 24# & 32#       | 4100'         | 940 sxs (Est)   | Surface  |
| 7-7/8        | 5-1/2          | 17#             | 10000'        | 200 sxs         | 8800'    |

1. Move-in and rig-up rotary rig. Drill 17-1/2" hole to 375'. Run 13-3/8" csg. to CP 375'. Cmt w/375 sxs reg. cmt. w/2% CaCl<sub>2</sub>. Circ to surface. WOC 18 hrs. Test BOP and csg. to 1000# for 30 min.
2. Drill 12-1/4" hole to approx. 4100'. Run 8-5/8" csg to CP 4100'. Cmt w/(Est) 840 sxs Incore cmt w/12% Gel & 2% CaCl<sub>2</sub>. Tail in w/100 sxs Incore Neat. Circ to surface. WOC 24 hrs. Test BOP & csg to 1500# for 30 min.
3. Drill 7-7/8" hole to TD 10000'. Run Open Hole Logs, GR-Sonic, Laterolog and Microlaterolog.
4. Run 5-1/2" csg to approx. CP 10000'. Cmt w/200 sxs Incore Poz w/2% CaCl<sub>2</sub>. WOC 24 hrs. Test csg & BOP to 2000# for 30 min. Run temp. survey to find top of cement (Est. TOC 8800').
5. Perf selected intervals.
6. Treat and stimulate as required.
7. Recover load and test.

CASING

APPROVAL VALID  
FOR 90 DAYS UNLESS  
DRILLING COMMENCED,

EXPIRE **5-21-68**

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 Ralph L. Maness Title Acting District Engineer Date February 20, 1968

(This space for State Use)

APPROVED BY [Signature] TITLE [Signature] DATE [Signature]

CONDITIONS OF APPROVAL, IF ANY: