

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

| | | | | | |
|--|--|--|--|--|--|
| 1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> | | | 5. LEASE DESIGNATION AND SERIAL NO. NM 0560422 | | |
| b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/> | | | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME | | |
| 2. NAME OF OPERATOR Lively Exploration Company | | | 7. UNIT AGREEMENT NAME | | |
| 3. ADDRESS OF OPERATOR P. O. Box 234, Farmington, New Mexico 87401 | | | 8. FARM OR LEASE NAME Lively | | |
| 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*) At surface 1820' FSL - 880' FWL At proposed prod. zone | | | 9. WELL NO. 16 | | |
| 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 2 miles south Blanco, New Mexico | | | 10. FIELD AND POOL, OR WILDCAT Basin Dakota | | |
| 15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 880' | | | 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 20, T29N, R9W | | |
| 16. NO. OF ACRES IN LEASE | | | 12. COUNTY OR PARISH San Juan | | |
| 17. NO. OF ACRES ASSIGNED TO THIS WELL 320 | | | 13. STATE N.M. | | |
| 18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 300' approx | | | 19. PROPOSED DEPTH 6700' | | |
| 20. ROTARY OR CABLE TOOLS Rotary | | | 21. APPROX. DATE WORK WILL START* 10-1-73 | | |
| 21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5682' | | | 22. APPROX. DATE WORK WILL START* 10-1-73 | | |

| PROPOSED CASING AND CEMENTING PROGRAM | | | | |
|---------------------------------------|----------------|-----------------|---------------|--------------------|
| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | QUANTITY OF CEMENT |
| 13-3/4" | 9-5/8" | 32.30# | 250' | 225 cu ft |
| 8-3/4" | 7" | 20# | 2525' | 600 cu ft |
| 6-1/4" | 4-1/2" | 10.5# | 6700' | 600 cu ft |

Plan to drill with water or minimum mud to 2525', set 7" intermediate casing, and cement with 600 cu ft cement. Drill 6-1/4" hole with gas to T.D. to test Dakota formation. Run 4-1/2" production casing through Dakota, selectively perforate and sand-water frac, clean out, run 1-1/4" tubing, and complete well.



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. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED Original signed by T. A. Dugan
Thomas A. Dugan TITLE Engineer DATE 9-19-73
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

OCT 5 1973

R. I. McGRATH

DISTRICT ENGINEER

*See Instructions On Reverse Side

**NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACERAGE DEDICATION PLAT**

All distances must be from the outer boundaries of the Section

| | | | | | |
|---|--------------------------------------|-----------------------------|--|---------------------------|-----------------------|
| Operator Lively Exploration Company | | | Lease Lively | | Well No. 16 |
| Unit Letter L | Section 20 | Township 29 North | Range 9 West | County San Juan | |
| Actual Footage Location of Well: 1820 feet from the South line and 880 feet from the West line | | | | | |
| Ground Level Elev. 5682 | Producing Formation Dakota | Pool Basin Dakota | Dedicated Acreage: 320 Acres | | |

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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

If answer is "no," list the owners and tract descriptions which have actually 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 Commission.

CERTIFICATION

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

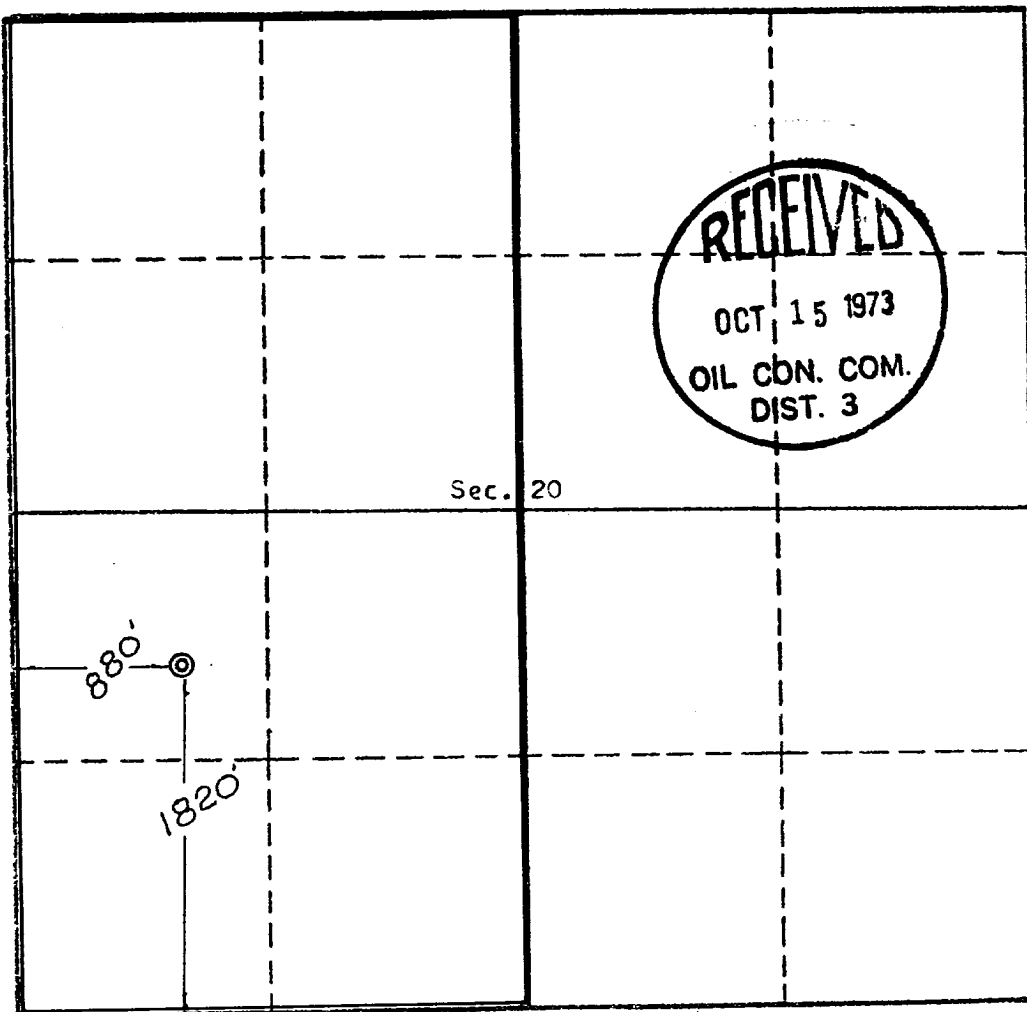
Original signed by **T. A. Dugan**

Name
Thomas A. Dugan
Position
Engineer
Company
Lively Exploration Company
Date
9-19-73

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.

STATE OF NEW MEXICO
REGISTERED LAND SURVEYOR
Date Surveyed
August 17, 1973
Registered Professional Engineer
and/or Land Surveyor

E. V. Echolaw
Certificate No. **3602**
E. V. Echolaw LS



Scale, 1 inch = 1,000 feet