

DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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-0321281	
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input 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 Murphy Operating Corporation			7. UNIT AGREEMENT NAME Todd Lower San Andres	
3. ADDRESS OF OPERATOR Post Office Box 2648, Roswell, New Mexico 88202-2648			8. FARM OR LEASE NAME T.L.S.A.U. Sec 29	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 1980' FSL - 1980' FWL At proposed prod. zone Same			9. WELL NO. Well #29 11	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* Three (3) air miles northeast of Milnesand, New Mexico			10. FIELD AND POOL, OR WILDCAT Todd Lower San Andres	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 660'			11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 29, T7S, R36E	
16. NO. OF ACRES IN LEASE 240			12. COUNTY OR PARISH Roosevelt	
17. NO. OF ACRES ASSIGNED TO THIS WELL 80			13. STATE New Mexico	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED OR APPLIED FOR, ON THIS LEASE, FT. 1270'			20. ROTARY OR CABLE TOOLS Rotary	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 4141' GL			22. APPROX. DATE WORK WILL START* February 19, 1988	

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 5/8"	24#	300' 400'	Sufficient to circulate
7 7/8"	5 1/2"	15.5#	4,400'	Sufficient to circulate

The well will be drilled and logged for full evaluation of the San Andres formation. The pay zone will be selectively perforated and stimulated as needed for optimum production. Please find attached:

1. Well Location and Acreage Dedication Plat.
2. Supplemental Drilling Data.
3. Surface Use Plan.



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 Melinda K. Hickman TITLE Production Clerk DATE 1/27/88
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY S/Gary Wood, Acting TITLE Area Manager DATE FEB 26 1988

APPROVAL OF THIS APPLICATION DOES NOT WARRANT OR CERTIFY THAT THE APPLICANT HOLDS LEGAL OR EQUITABLE TITLE TO THOSE RIGHTS IN THE SUBJECT LEASE WHICH WOULD ENTITLE THE APPLICANT TO CONDUCT OPERATIONS THEREON.

PLEASE BE ADVISED THAT THERE WILL BE NO EXCAVATION OF FEDERALLY OWNED MINERAL MATERIAL FOR CONSTRUCTION OF THE ACCESS ROAD OR PAD WITHOUT PAYMENT IN ADVANCE.

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HOBBS OFFICE

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

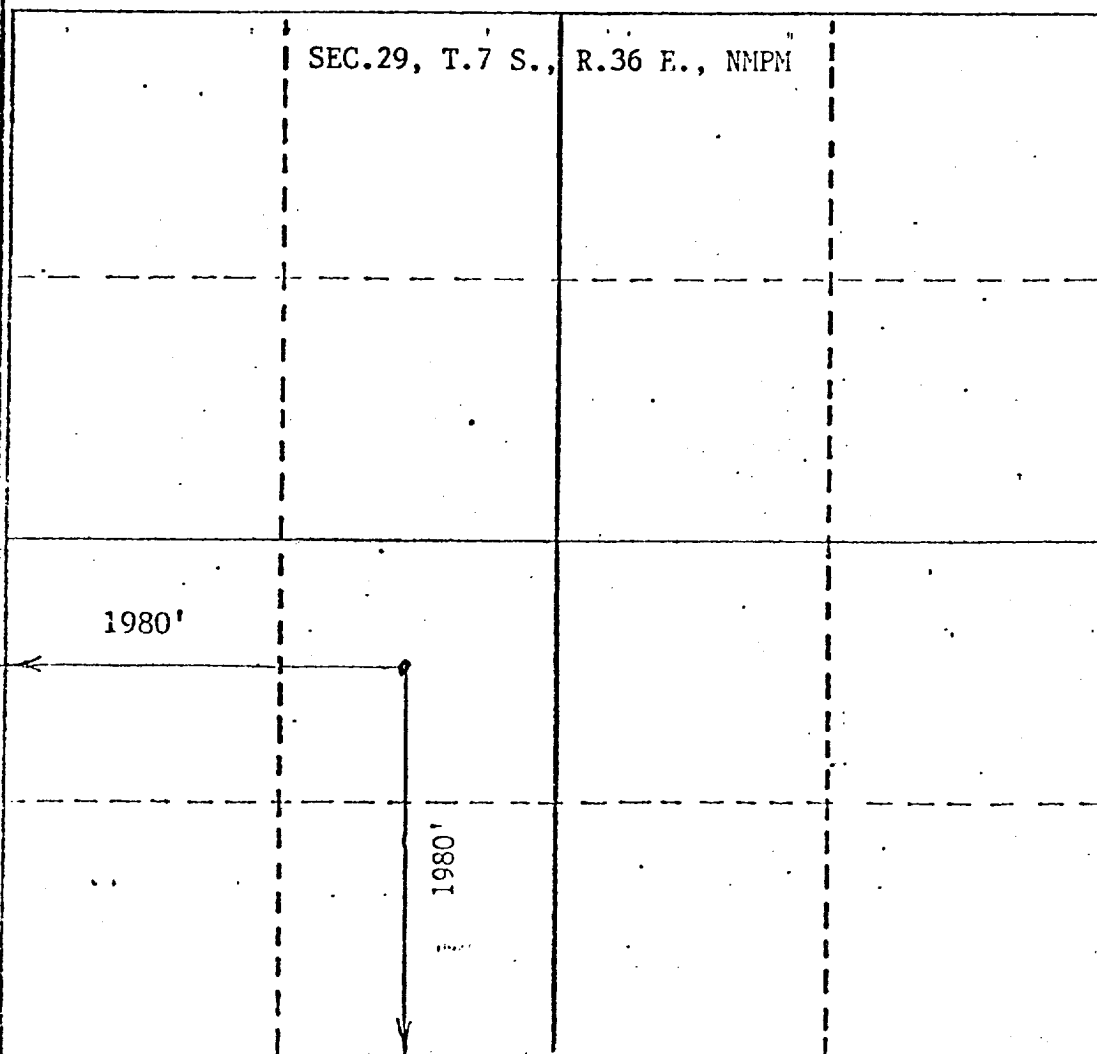
Operator MURPHY OPERATING		Lease TODD LOWER SAN ANDRES UNIT 29		Well No. 11	
Unit Letter K	Section 29	Township 7 SOUTH	Range 36 EAST	County ROOSEVELT	
Actual Footage Location of Well: 1980 feet from the SOUTH line and 1980 feet from the WEST line					
Ground Level Elev. 4141	Producing Formation San Andres P-2 Zone		Pool Todd Lower San Andres Unit		Dedicated Acreage 80 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 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.

Melinda K. Wickman

Name

Melinda K. Wickman

Position

Production Clerk

Company

Murphy Operating Corporation

Date

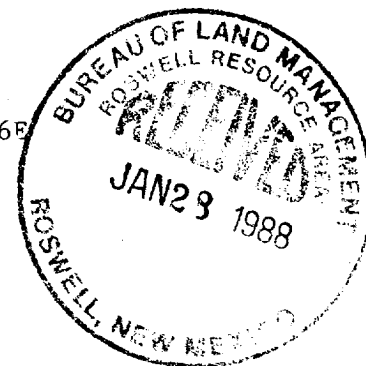
1/7/88

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.

JOHN D. JAQUES
Date Surveyed **SEPTEMBER 17, 1987**
Registered Professional Engineer and/or Geologist
JOHN D. JAQUES
Certificate No. **6290**

SUPPLEMENTAL DRILLING DATA

MURPHY OPERATING CORPORATION
WELL #11 TLSAU 29
1980' FSL & 1980' FWL, SEC. 29-7S-36E
ROOSEVELT COUNTY, NEW MEXICO



1. SURFACE FORMATION: Sandy soils of Tertiary Age.

2. ESTIMATED TOPS OF GEOLOGIC MARKERS:

Anhydrite	285'	Pi Marker	4040'
Base Salt	2100'	P-1	4145'
Yates	2360'	P-2	4120'
Queen	3010'	P-3	4265'
San Andres	3515'	P-4	4340'

3. ANTICIPATED POROSITY ZONES:

Water: 200' - 230'
Oil: 4220' - 4260'

4. CASING DESIGN:

<u>Size</u>	<u>Interval</u>	<u>Weight</u>	<u>Grade</u>	<u>Joint</u>
8 5/8"	0 - 300'	24.0#	J-55	STC
5 1/2"	0 - 4400'	15.5#	J-55	STC

5. PRESSURE CONTROL EQUIPMENT: Two Ram-Type Preventors. 3000 PSI W.P.

6. CIRCULATING MEDIUM:

0 - 300' Fresh water with gel or lime as needed for viscosity control.

300 - 4400' Brine, conditioned as necessary for control of viscosity, pH, weight and water-loss.

7. AUXILIARY EQUIPMENT: Drill string safety valves will be maintained on the rig floor while drilling operations are in progress.

8. TESTING, LOGGING AND CORING PROGRAMS: A core and DST of the San Andres P-2 zone is planned. It is planned to run a CNL w/GR log and an Induction log.

9. ABNORMAL PRESSURES, TEMPERATURES OR GAS: None anticipated.

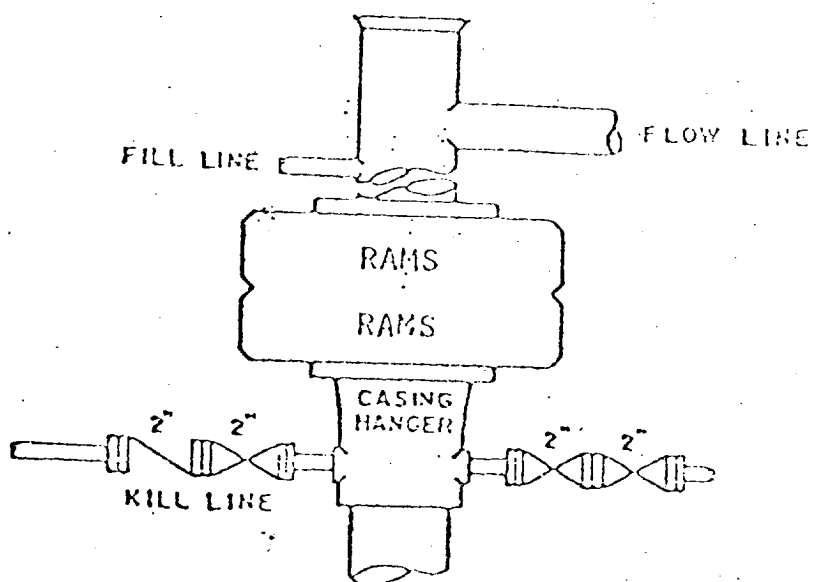
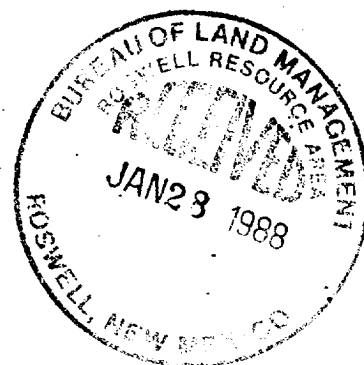
10. ANTICIPATED STARTING DATE: It is planned that operations will commence about February 19, 1988. Duration of drilling and completion operations should be 2 to 5 weeks.

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HOBBY OFFICE



BLOWOUT PREVENTER SKETCH

Murphy Operating Corporation

Well #11 TUSA 29

1980' FSL & 1980' FWL

Sec. 29, T-7S, R-36E