

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION  
P. O. BOX 2088  
SANTA FE, NEW MEXICO 87501

Form C-101  
Revised 10-1-78

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OIL CON. DIV.  
DIST. 3

1. Indicate Type of Lease  
STATE ☐ FEE ☒  
2. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work b. Type of Well OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		7. Unit Agreement Name
2. Name of Operator MESA GRANDE RESOURCES, INC.		8. Farm or Lease Name CRUSADER
3. Address of Operator 1200 Philtower Building, Tulsa, Oklahoma 74103		9. Well No. #1
4. Location of Well UNIT LETTER <u>D</u> LOCATED <u>790</u> FEET FROM THE <u>North</u> LINE AND <u>790</u> FEET FROM THE <u>West</u> LINE OF SEC. <u>14</u> TWP. <u>25N</u> RGE. <u>2W</u> NMPM		10. Field and Pool, or Wildcat GAVILAN MANCOS/GGG/DK
		12. County Rio Arriba
		19. Proposed Depth 8,300'
		19A. Formation Dakota
		20. Rotary or C.T. Rotary
21. Elevations (Show whether DF, RT, etc.) 7,318	21A. Kind & Status Plug. Bond Statewide	21B. Drilling Contractor Four Corners
		22. Approx. Date Work will start 11/30/87

23.

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12 1/4	9 5/8ths	36#	400	150 sx	Surface
8 1/2 & 7 7/8ths	5 1/2	17# & 15.5#	8300	3 stage 1035 sx 1687 ft <sup>3</sup>	2,000'

PROPOSED PROGRAM:

- The proposed well will be drilled through the Dakota Formation and will evaluate the hydrocarbon potential of the Dakota, Graneros, Greenhorn and Mancos zones. The completion program will be determined at total depth after log analysis.
- A BOP will be installed after surface casing is set and cemented. Prior to drilling out from under surface, BOP will be tested to 500# SIP. All subsequent work will be conducted through BOP.
- ALL of Section 14 is dedicated to this well.

APPROVAL EXPIRES 6-1-88  
UNLESS DRILLING IS COMMENCED.  
SPUD NOTICE MUST BE SUBMITTED  
WITHIN 10 DAYS.

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 Charles R. Phillips Title Field Operations Manager Date 11/20/87

(This space for State Use)

APPROVED BY Ernie Quach TITLE DEPUTY OIL & GAS INSPECTOR, DIST. #3

CONDITIONS OF APPROVAL, IF ANY:

Field C 104 for coverage Consideration

DEC 01 1987

## OIL CONSERVATION DIVISION

P. O. BOX 2088

Form C-102  
Revised 10-1-70STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT

SANTA FE, NEW MEXICO 87501

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

Operator Mesa Grande Resources, Inc.		Lease Crusader		Well No. 1
Unit Letter D	Section 14	Township 25 North	Range 2 West	County Rio Arriba
Actual Footage Location of Well: 790 feet from the North line and 790 feet from the West line				
Ground Level Elev. 7318	Producing Formation Mancos/DK	Pool Gavilan Mancos	Dedicated Acreage: 640/520 acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.

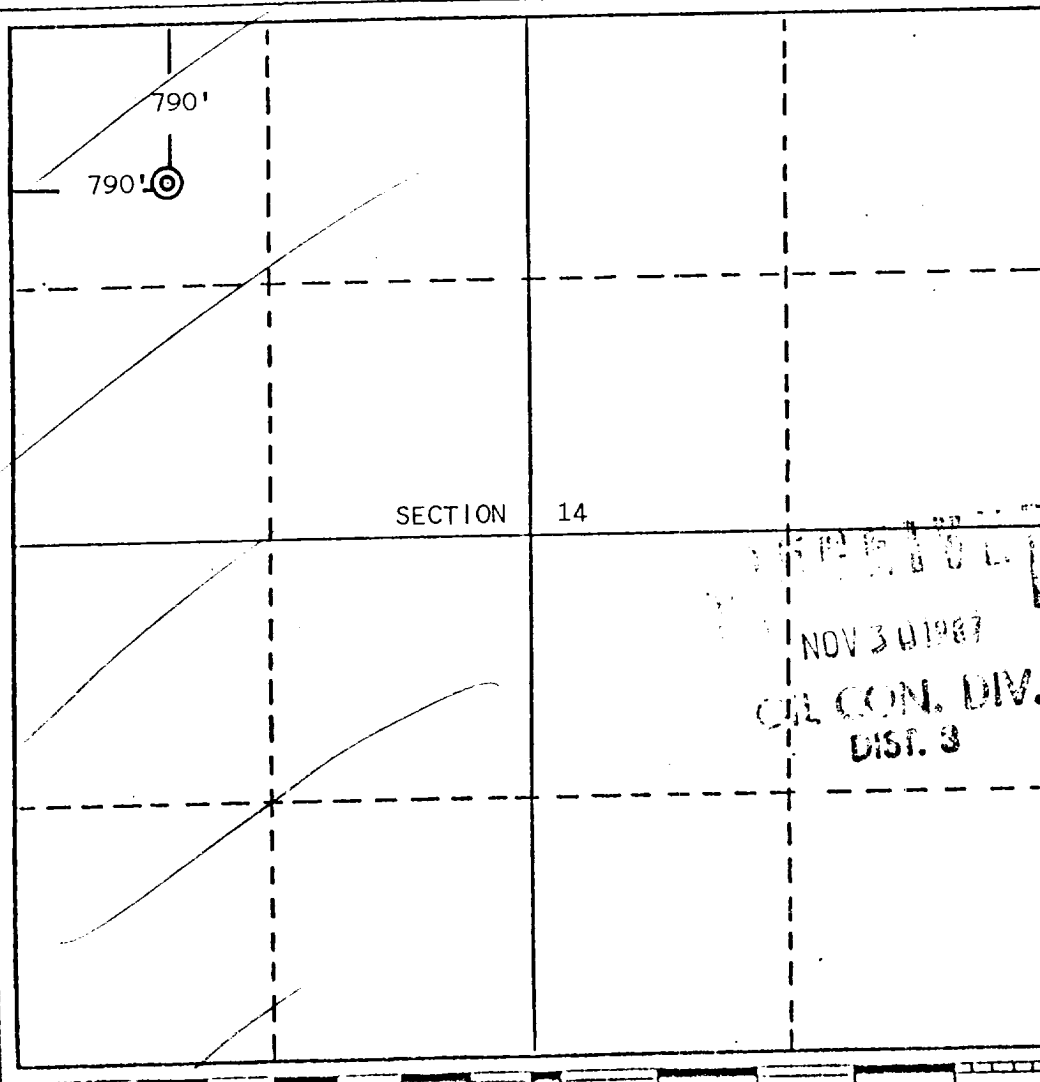
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

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 Force-pooling; pending Communitization

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.

Christopher L. Phillips  
Name Christopher L. PhillipsPosition  
Manager Field OperationsCompany  
Mesa Grande Resources, Inc.Date  
November 24, 1987

I hereby certify that the location shown on this plat was plotted from field notes or other reliable data made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed  
November 20, 1987Registered Professional Engineer  
and/or Land SurveyorEdgar L. Risenhoover  
Certificate No. 5979  
Edgar L. Risenhoover, L.S.