

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
P. O. BOX 0088
SANTA FE, NEW MEXICO 87501

30-039-23312

Form C-101
Revised 10-1-78

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DISTRIBUTION	
SANTA FE	
FILE	
U.S.G.S.	
LAND OFFICE	
OPERATOR	

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

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work b. Type of Well DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> OIL WELL <input checked="" type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input checked="" type="checkbox"/>		7. Unit Agreement Name
2. Name of Operator Mesa Grande Resources, Inc.		8. Farm or Lease Name H. H. H.
3. Address of Operator 1200 Philtower Building, Tulsa, Oklahoma 74103		9. Well No. Gavilan-Howard #1
4. Location of Well UNIT LETTER <u>F</u> LOCATED <u>1650.00</u> FEET FROM THE <u>West</u> LINE AND <u>1850.00</u> FEET FROM THE <u>North</u> LINE OF SEC. <u>23</u> TWP. <u>25N</u> RGE. <u>2W</u> NMPM		10. Field and Pool, or Wildcat Cavitas <u>Charles</u> <u>Dakota</u>
		12. County <u>Rio Arriba</u>
19. Proposed Depth <u>8000</u>		19A. Formation <u>Dakota</u>
20. Rotary or C.T. <u>Rotary</u>		
21. Elevations (Show whether DF, RT, etc.) <u>7281.96 GR</u>	21A. Kind & Status Plug. Bond <u>One well-\$7,500.00</u>	21B. Drilling Contractor <u>Four Corners Farmington N.M.</u>
		22. Approx. Date Work will start <u>September 30, 1983</u>

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12 1/4"	8-5/8"	24 lbs	200'	350 cu ft	to surface
7-3/4"	5 1/2"	15.5-17.5 lb. J-55	8000	1400 cu. ft.	6400' to T.D.
				Two stage	500' above Gallup to T.D.

Proposed Program:

- 1) Proposed test well will be drilled through the Dakota Sandstone and will evaluate the hydrocarbon potential of the Dakota, Graneros and Greenhorn zones.
- 2) Drilling mud is low solid gel: 45-55 viscosity, 9-9.5 lbs.
- 3) Blowout Prevention Program: 900 Series Flange with blinds and 4 1/2" rams hydraulically operated.
- 4) If the well is found to be nonproductive water zones and potential producing zones will be bridged and cemented upon plugging the well.

4-6-84
10-1-78

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 E. Alex Phillips Title President Date September 26, 1983
(This space for State Use)

APPROVED BY [Signature] TITLE SUPERVISOR DISTRICT #3 DATE OCT 5 1983
CONDITIONS OF APPROVAL, IF ANY:

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

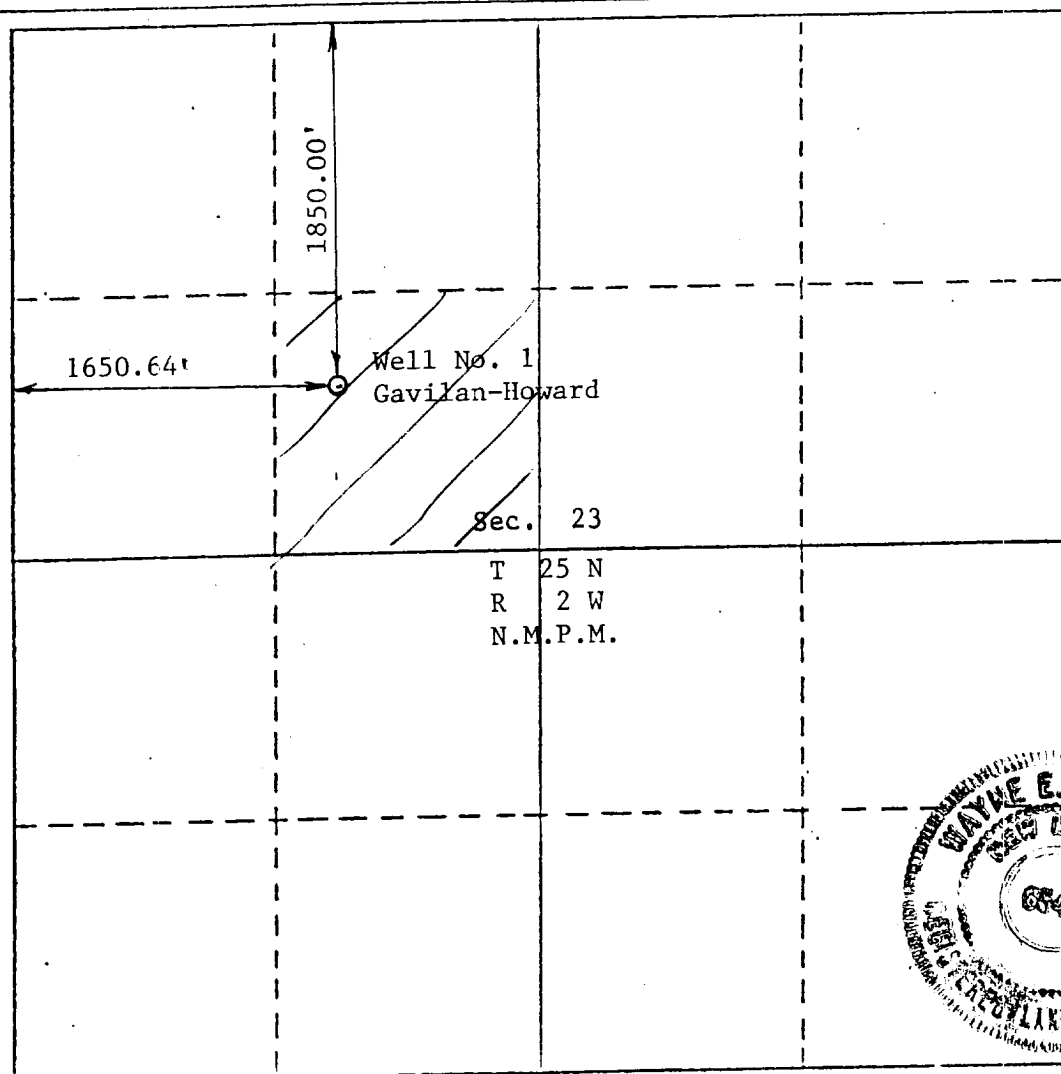
Operator Mesa Grande Resources, Inc.		Lease Howard		Well No. 1 GAVILAN-HOWARD
Unit Letter	Section 23	Township 25 N	Range 2 W	County Rio Arriba
Actual Footage Location of Well: 1650.64 feet from the West line and 1850.00 feet from the North line				
Ground Level Elev. 7281.96	Producing Formation Dakota	Pool Gavilan	Dedicated Acreage: 90 100 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.

E. Alex Phillips
Name **E. Alex Phillips**

President
Position

Mesa Grande Resources, Inc.
Company

September 26, 1983
Date

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

WAYNE E. JOHNSTON
August 22, 1983

Wayne E. Johnston
Date Surveyed
Registered Professional Engineer
and Land Surveyor

6540
Certificate No.