

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☒

GAS
WELL ☐

OTHER

SINGLE
ZONE ☐

MULTIPLE
ZONE ☒

2. NAME OF OPERATOR

Mesa Grande Resources, Inc.

3. ADDRESS OF OPERATOR

1200 Philtower Building, Tulsa, Oklahoma 74103

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface 1850' from WEST line and 1700' from NORTH line

At proposed prod zone same as above

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

9.0 miles NW of Lindrith, New Mexico

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drilg. unit line, if any)

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

7215' GR

16. NO. OF ACRES IN LEASE

80

17. NO. OF ACRES ASSIGNED

TO THIS WELL

W/320' 40

19. PROPOSED DEPTH

8200'

20. ROTARY OR CABLE TOOLS

Rotary

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH
12-1/4"	9-5/8"	36#	215'
8-3/4"	7"	26# & 23#	8200'

22. APPROX. DATE WORK WILL START*

September 15, 1984

This action is
appeal pursuant to 30 U.S.C. 220
QUANTITY OF CEMENT

125 cu.ft.

1650 cu.ft.

Proposed Program:

1. Proposed well will be drilled through the Dakota formation and will evaluate the hydrocarbon potential of the Dakota, Graneros, Greenhorn and Mancos zones. Completion plans will be determined at total depth.
2. 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 lbs. standing pressure. All subsequent work will be conducted through BOP.
3. Drilling mud will be low solid non-dispersed: 35-45 viscosity, 8.5-9.5 lbs.
4. If well is found to be non productive, the water zones and all zones with hydrocarbon shows will be bridged and cemented prior to plugging of the well.
5. The West Half of Section 22 is dedicated to this well.

RECEIVED

AUG 31 1984

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.

SIGNED

Gregory R Phillips

TITLE

GEOCHEMIST

DATE

August 24, 1984

(This space for Federal or State use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

/s/ J. Stan McKee

OIL CON. DIV
DIST. 3

NMOCC

ASST. AREA MANAGER

*See Instructions On Reverse Side

All distances must be from the outer boundary area of the Section.

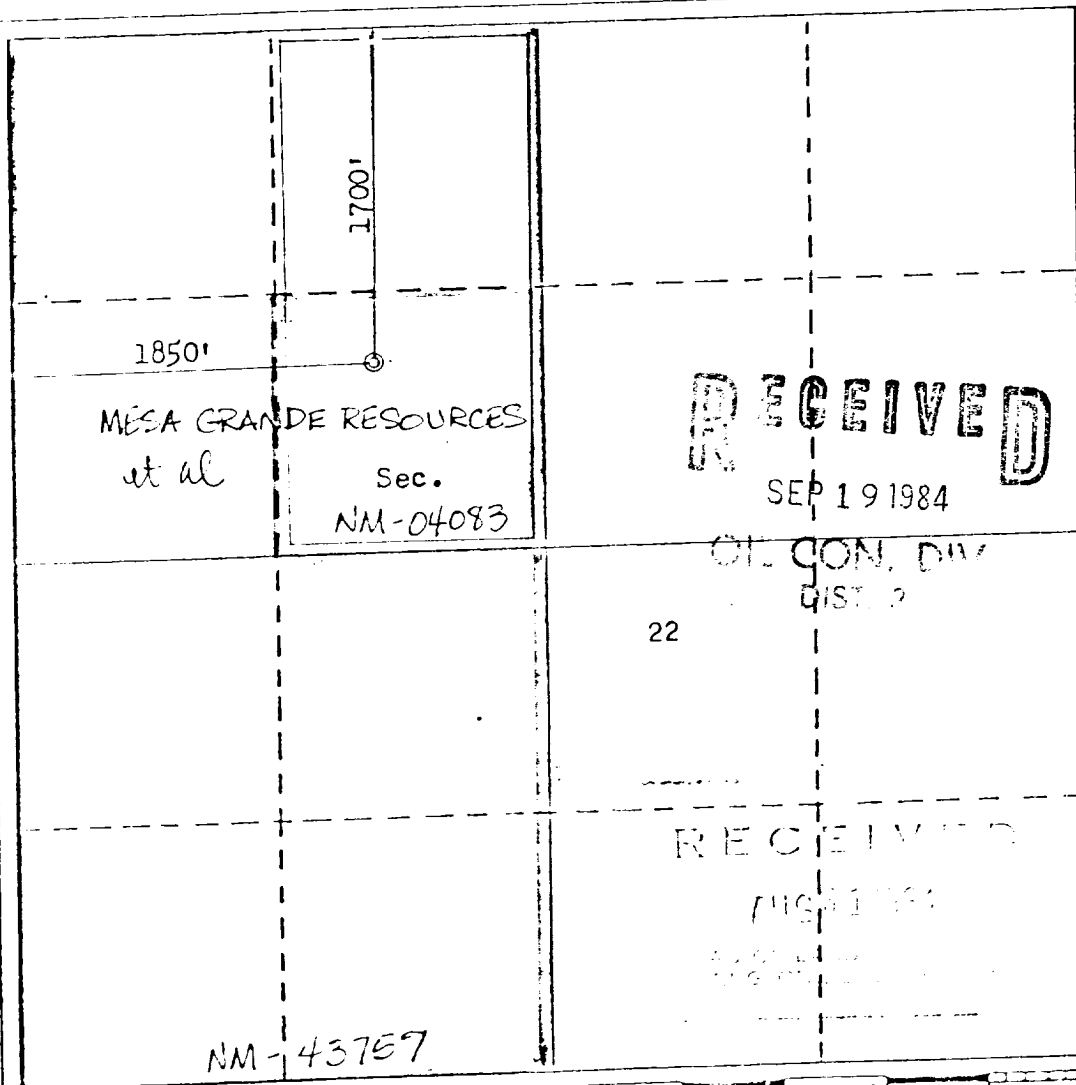
Operator MESA GRANDE RESOURCES, INC.			Lease NM-04083		Well No. #1 Hellcat
Unit Letter F	Section 22	Township 25 North	Range 2 West	County Rio Arriba	
Actual Footage Location of Well:					
1700 feet from the North		line and 1850		feet from the West line	
Ground Level Elev. 7215	Producing Formation Mancos/Grnhn-Dakota		Pool Cavilan/Und.		Dedicated Acreage: 320/40 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 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.

Gregory R. Phillips
Name: Gregory R. Phillips

Geochemist
Position:

Mesa Grande Resources, Inc.
Company:

Date: August 29, 1984

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.

Date Surveyed

August 29, 1984

Registered Professional Engineer
and/or Land Surveyor

Fred B. Kerr Jr.

Certificate No. FRED B. KERR

3950

MESA GRANDE RESOURCES, INC.
1200 PHILTOWER BUILDING
TULSA, OKLAHOMA 74103
(918) 587-8494

September 12, 1984

Bureau of Land Management
Farmington Resource Area
Caller Service 4104
Farmington, New Mexico 87499

Attention: Area Manager

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SEP 14 1984

BUREAU OF LAND MANAGEMENT
FARMINGTON RESOURCE AREA

Re: Hellcat #1
E $\frac{1}{4}$ NW $\frac{1}{2}$, Sec. 22-25N-2W
Rio Arriba County, New Mexico

Gentlemen:

Please find enclosed the requested information for the Hellcat #1 well:

Casing Grades:

9 5/8" surface casing 36# K-55

8 3/4" long string casing

23# K-55

26# K-55

and 300-450' of CF-95 23# on bottom end as necessary

Logging Program:

IND-SFL and FDC-CNL logs will be run

Thank you for your attention to this matter.

Sincerely,


Gregory R. Phillips

GRP:dw
Enclosure

Attachment To:

Form # 3160-3 - Application for Permit to Drill

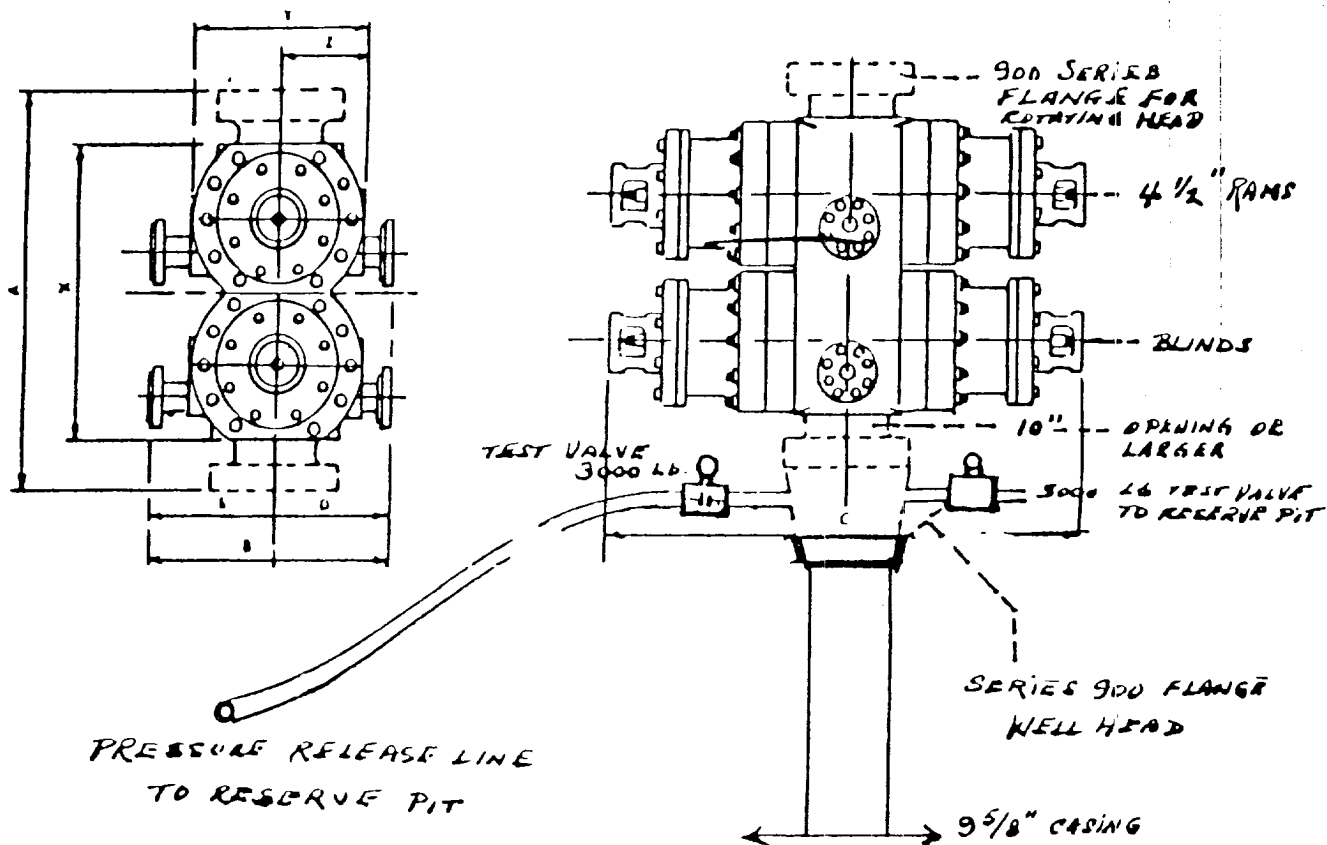
Operator: Mesa Grande Resources, Inc.
Lease: NM-04083
Well Name: Hellcat #1
Location: NW $\frac{1}{4}$ Sec.22, T25N-R2W
Rio Arriba County, New Mexico

Proposed Casing and Cementing Program:

Estimated Formation Tops

Ojo Alamo	3085'	+4137
Pictured Cliffs	3295'	+3926
Lewis	3370'	+3852
Cliff House	5010'	+2212
Menefee	5110'	+2112
Point Lookout	5445'	+1777
Mancos	5655'	+1567
Niobrara	6532'	+ 690
Greenhorn	7540'	- 318
Graneros	7580'	- 358
Dakota	7685'	- 463
Burro Canyon	7835'	- 613

SHAHER TYPE XHP DOUBLE HIGH PRESSURE B.O.P.



Blowout Preventer

Hellcat #1

NW 1/4 Section 22, Twp. 25N-Rge. 2 W.