

N M C D - Santa Fe

SUBMIT IN TRIPPLICATE\*  
(Other instructions on reverse side)

Confidential

Form approved.  
Budget Bureau No. 1004-0136  
Expires August 31, 1985

OIL CONSERVATION DIVISION  
RECEIVED  
APR 15 1991

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK  
92 NO 133 DRILL ☒ DEEPEN ☐ PLUG BACK ☐  
b. TYPE OF WELL  
OIL WELL ☐ GAS WELL ☐ OTHER Strat-Test SINGLE ZONE ☐ MULTIPLE ZONE ☐

2. NAME OF OPERATOR  
Mountain States Petroleum Corporation

3. ADDRESS OF OPERATOR  
Post Office Box 1936, Roswell, N.M. 88201

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)  
At SURFACE  
990' FWL & 990' FNL, Sec. 11-4S-6E  
At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
8 miles NE from Bingham, New Mexico Post Office

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT.  
(Also to nearest drlg. unit line, if any) N/A

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. N/A

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
6006.8' GR

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/2"	8-5/8"	28 24# 155 H-40	300' 380'	sufficient to circulate
7-7/8"	4 1/2"	9.5# 155	TD	100 sks

Test, Log & Run 4 1/2" (if shows encountered)

- Attached Exhibits:
- A. Well location and elevation plat
  - B. Existing access road map
  - C. Pertinent information
  - D. Supplemental drilling data
  - E. Multi-point surface use and operations plat
  - F. Drill rig layout and BPO diagram
  - G. Archeological survey

RECEIVED  
JUL 29 3 13 PM '91  
BUREAU OF LAND MANAGEMENT  
ROSOWELL, NEW MEXICO  
AREA

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 Roger P. Stet TITLE AGENT DATE 7-29-91

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_  
APPROVED BY Samuel L. Allen TITLE Area Manager DATE 9-5-91

APPROVAL OF THIS APPLICATION DOES NOT WARRANT OR CERTIFY THAT THE APPLICANT HAS A LEGAL OR EQUITABLE TITLE TO THOSE RIGHTS IN THE SUBJECT LAND 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.  
See Instructions On Reverse Side  
Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

# OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

P.O. Drawer DD, Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

## WELL LOCATION AND ACREAGE DEDICATION PLAT

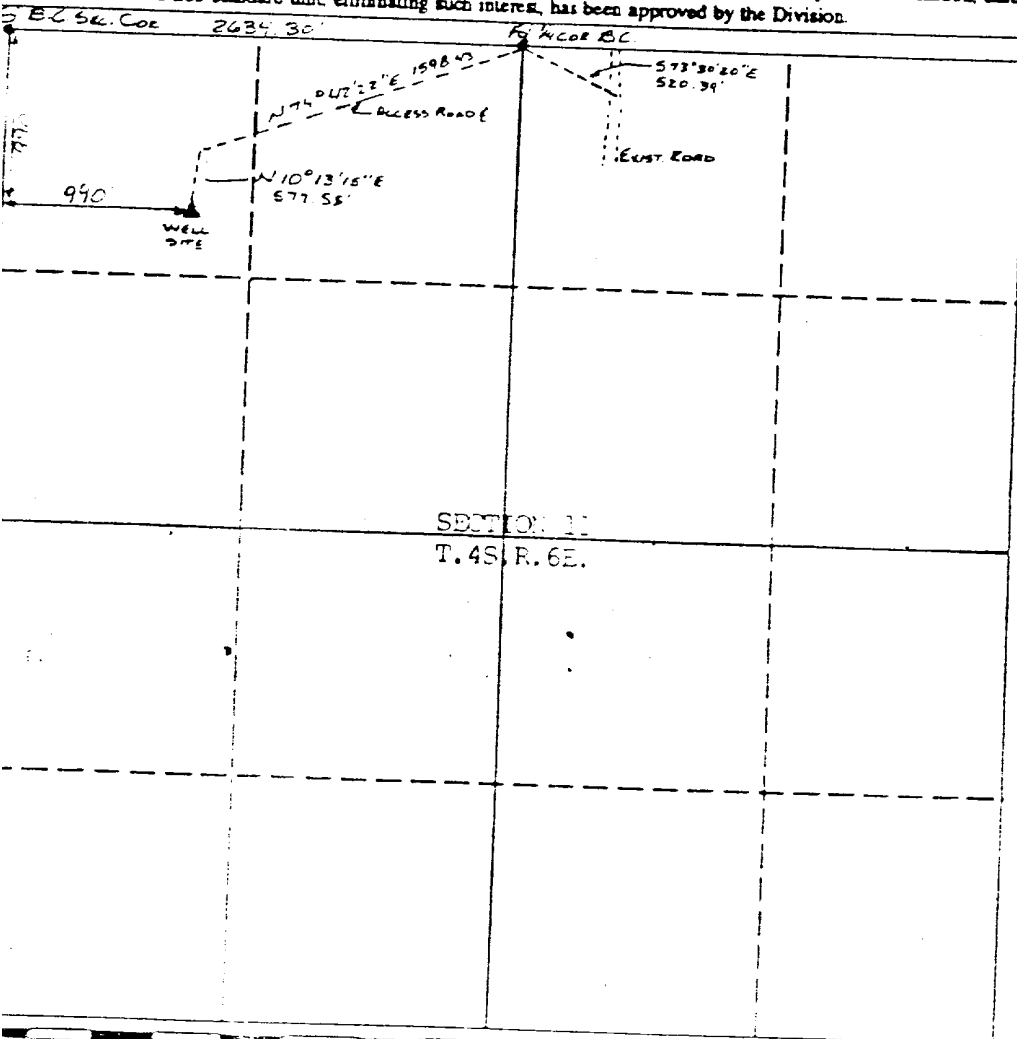
All Distances must be from the outer boundaries of the section.

Operator <b>MOUNTAIN STATES PETROLEUM CORP.</b>			Lease <b>Fed. # NM-83477</b>		Well No. <b>1</b>
Unit Letter <b>CD</b>	Section <b>11</b>	Township <b>4 South</b>	Range <b>6 East</b>	County <b>Socorro, NM</b>	
Actual Footage Location of Well: <b>990</b> feet from the <b>Sec. 11 North</b> line and <b>990</b> feet from the <b>Sec. 11 West</b> line					
Ground level Elev. <b>6006.8</b>		Producing Formation <b>N/A</b>	Pool <b>N/A</b>	Dedicated Acreage: <b>N/A</b> Acres	

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated to the well, have the interest 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 interest, has been approved by the Division.



### OPERATOR CERTIFICATION

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

Signature

*Roger P. Slayton*

Printed Name

Roger P. Slayton

Position

President

Company

Mountain States Petroleum

Date

8/16/91

### SURVEYOR CERTIFICATION

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 are true and correct to the best of my knowledge and belief.

Date Survey

*Raymond Lee Dennis*

Signature

Professional

4115

Professional Engineer

Professional Engineer

Professional Engineer

Professional Engineer

Professional Engineer

Professional Engineer

Professional Engineer

Professional Engineer

Professional Engineer

Professional Engineer

Professional Engineer

Professional Engineer

Professional Engineer

Professional Engineer

Professional Engineer

Professional Engineer

Professional Engineer

EXHIBIT "C"

PERTINENT INFORMATION

For

MOUNTAIN STATES PETROLEUM CORPORATION  
HATTIE LACY #1  
990' FWL, 990' FNL Sec. 11-4S-6E  
Socorro County, NM

LOCATION: 8 Air miles NE of Bingham, NM  
FEDERAL LEASE NUMBER: NM-83477  
LEASE ISSUED: May 1, 1990  
ACRES IN LEASE: 7,024 acres  
RECORD LESSEE: Doug J. Schutz  
BOND COVERAGE: Operators, State Wide Pool  
AUTHORITY TO OPERATE: Operating Agreement  
SURFACE OWNERSHIP: Private - Ken Lacy, Capitan, NM

BUREAU OF LAND MGT  
ROSWELL RESOURCE  
AREA

JUL 29 3 14 PM '91

RECEIVED

EXHIBIT "D"

SUPPLEMENTAL DRILLING DATA

For

MOUNTAIN STATES PETROLEUM CORPORATION  
HATTIE LACY #1  
990' FWL, 990' FNL, Sec. 11-4S-6E  
Socorro County, NM

The following items supplement Form 3160-3 in accordance with instructions contained in Onshore Oil and Gas Order No. 1:

1. ESTIMATED TOPS OF GEOLOGIC MARKERS:

Abo	800'
Penn	1600'
Strawn	2800'
Granite	3200'

RECEIVED  
JUL 29 3 14 PM '91  
BUREAU OF LAND MANAGEMENT  
ROSWELL RESOURCE  
AREA

2. ESTIMATED DEPTH TO WATER: 80' - 100' and 190' - 220'

3. PROPOSED CASING PROGRAM:

8-5/8" Casing - <sup>380</sup>~~300~~' of <sup>28</sup>~~24~~#, H-40, ST&C  
4-1/2" Casing - 3000' of 9.5#, K-55, ST&C

~~The surface and production casing strings will be tested to 1000 psi.~~

4. PRESSURE CONTROL EQUIPMENT: Pressure control equipment will include a 2000# WP blowout preventer stack, with Series 900 blind and pipe rams. The BOP stack will include a kill line and choke manifold tested to 1000 psi. BOP hydraulic controls will be operated at lease daily. A diagrammatic sketch of the BOP stack is attached as Exhibit "F".

~~A request for pressure test Variance is attached.~~ *not applied*

5. CIRCULATING MEDIUM: Fresh water mud conditioned for control of weight, viscosity and water loss.

6. AUXILIARY EQUIPMENT: A full-opening safety valve, to fit the drill string in use, will be kept on the rig floor at all times.

7. TESTING, LOGGING AND CORING PROGRAM:

<u>Samples:</u>	Samples will be caught at 10' intervals below 800'.
<u>DST and Cores:</u>	At discretion of well site geologist.
<u>Logging:</u>	Neutron - Density Log (Surface to TD)

8. ABNORMAL PRESSURES, TEMPERATURES OR HYDROGEN SULFIDE:

None anticipated. Bottom-hole pressure anticipated to be less than 1000#.

9. ANTICIPATED STARTING DATE: Drilling will commence as soon as possible after approval is obtained. Drilling and completion operations will last about 30 days.

RECEIVED

JUL 29 3 14 PM '91

BURIA  
ROSWELL RESOURCE  
AREA

EXHIBIT "E"

MULTI-POINT SURFACE USE AND OPERATIONS PLAN

FOR

Mountain States Petroleum Corporation  
HATTIE LACY #1  
990' FWL, 990' FNL Sec. 11-4S-6E  
Socorro County, NM

NM-83477

This plan is submitted with the Application for Permit to Drill the above described well. The purpose of the plan is to describe the location of the proposed well, the proposed construction activities and operations plan, the minor surface disturbance involved, and the procedures to be followed after completion of the operation so that a complete appraisal can be made of the environmental effects associated with the operation.

1. EXISTING ROADS:

- A. Exhibit "A" is a copy of a reduced size USGS topo map (Wyre Peak, NM) of the proposed well as staked. The well is approximately 8 air miles northeast of Bingham, New Mexico.

2. PLANNED ACCESS ROAD:

- A. Presently used roads go within 1/4 mile or less of well site.
- B. Surfacing Material: Any new road will be constructed of material-in-place, caliche is outcropping in this area.
- C. Maximum Grade: Less than 1%
- D. Turnouts: Since the road is essentially flat, no traffic turnouts are necessary. No gates, cattle guards will be needed.

3. LOCATION OF EXISTING WELLS: None

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES: If the well is productive, production, storage and measurement facilities will be constructed on the wellpad.

5. LOCATION AND TYPE OF WATER SUPPLY: Water for drilling operations will be furnished by Rancher, Ken Lacy.

6. SOURCE OF CONSTRUCTION MATERIALS: None planned

RECEIVED  
JUL 29 3 14 PM '91  
BUREAU OF LAND MANAGEMENT  
ROSWELL FIELD OFFICE  
AREA

7. METHODS OF HANDLING WASTE DISPOSAL:

- A. Drill cuttings will be disposed of in the drilling pits.
- B. Drilling fluids will be allowed to evaporate in the drilling pits until the pits are dry.
- C. Water produced during test will be disposed of in the drilling pits.
- D. Current laws and regulations pertaining to the disposal of human waste will be complied with.
- E. Trash, waste paper, garbage and junk will be buried in a separate trash pit and covered with a minimum of 24 inches of soil. All waste material will be contained to prevent scattering by the wind. The trash pit will be located adjacent to the mud pit.
- F. All trash and debris will be buried or removed from the wellsite within 30 days after finishing drilling and/or completion operations.

8. ANCILLARY FACILITIES: None necessary.

9. WELL SITE LAYOUT:

- A. The wellsite and 400' x 400' area have been surveyed and flagged. Tentative location of the mud pit has been flagged.
- B. Dimensions and relative location of the drill pad, pit and equipment are shown on Exhibit "F".
- C. Top soil for rehabilitation will be stock-piled on the north and west sides of the location.

10. PLANS FOR RESTORATION OF THE SURFACE:

- A. After completion of drilling and/or completion operations, all equipment and other material not needed for operations will be removed. Pits will be filled and the location cleaned of all trash and junk to leave the wellsite in an aesthetically pleasing condition as possible. The surface casing, 300', and hole will be given to Ken Lacy for future use as a stock well, as will the road to the well.
- B. Any unguarded pits containing fluids will be fenced until they are filled.
- C. If the well is non-productive, the disturbed area will be rehabilitated to Mr. Lacy's requirements.

11. OTHER INFORMATION:

- A. Topography: The regional terrain is a rolling alluvial hill sloping to the west. The access road is essentially level. The drillsite slopes south.

RECEIVED

JUL 29 3 14 PM '91

STILL SOURCE AREA

- B. SOIL: The soil at the wellsite is sandy clay loam with associated gravels and some caliche.
- C. Flora and Fauna: Flora consists of range grasses with some yucca and mesquite. No wild life was observed. Fauna probably includes reptiles, rodents and various birds.
- D. Ponds and streams: There are no ponds nor streams near the wellsite.
- E. Residences and Other Structures: There are no occupied dwellings within 2 miles.
- F. Archaeological, Historical and Other Cultural Sites: Archaeology Survey Consultants of Roswell, N.M., has made a survey of the proposed new road and wellsite. They have recommended that construction work be approved.
- G. Land Use: The vicinity surrounding the wellsite is semi-arid rangeland, used primarily for grazing.
- H. Surface Ownership: Ken Lacy, Capitan, New Mexico.
- I. This drillsite lies within the White Sands Missile Range Extension Area. We will contact the Range Schedule Department prior to starting our work.
12. OPERATOR'S REPRESENTATIVE:

Representative responsible for assuring compliance with the approved Surface Use Plan: Roger Slayton  
Post Office Box 1936  
Roswell, New Mexico, 88201  
(505) 623-7184

13. CERTIFICATION:

I hereby certify, that I, or person under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge true and correct; that the work associated with the operations proposed herein will be performed by Mountain States Petroleum Corporation and its sub-contractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

7-29-91  
Date:

Roger P. Slayton  
for  
Mountain States Petroleum Corp.

RECEIVED  
JUL 29 3 14 PM '91  
BUREAU OF LAND MGT  
ROSWELL RESOURCE  
AREA



EXHIBIT "F"

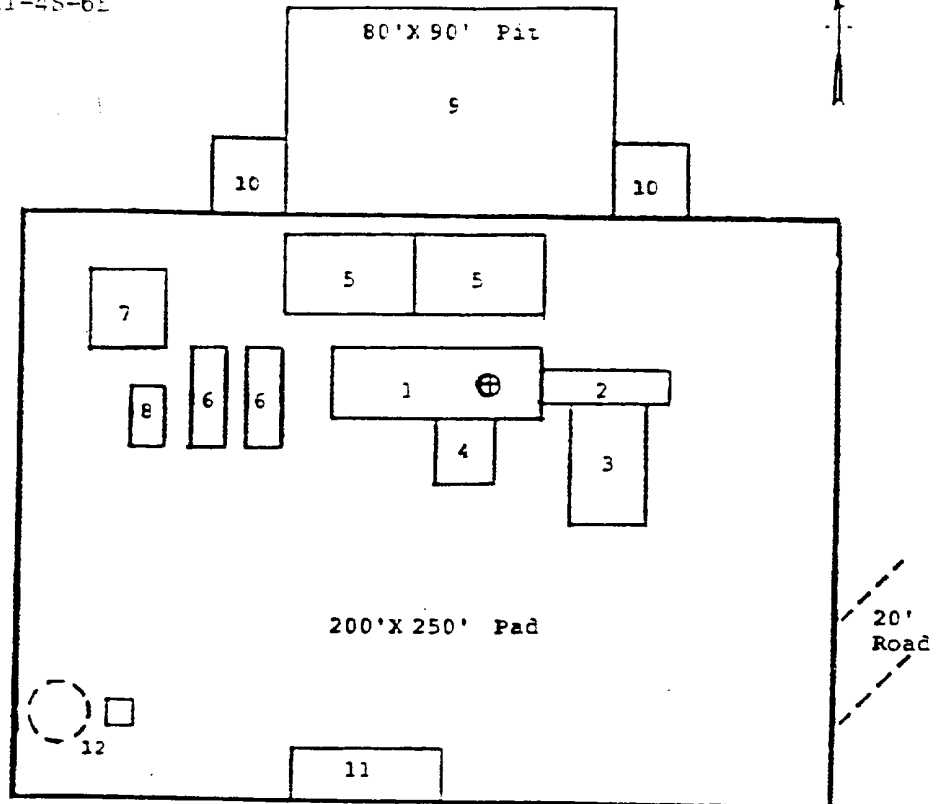
FOI

Mountain States Petroleum Corp.

Hattie Lacy #1

990' FWL & 990' FNL, Sec. 11-4S-6E

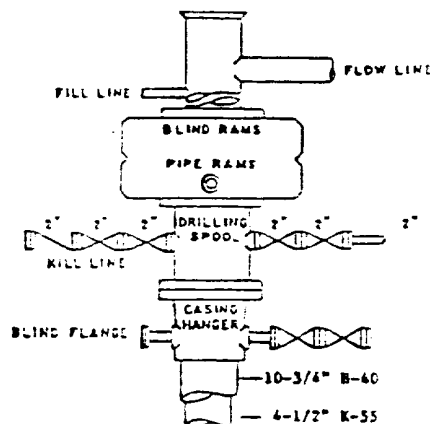
Socorro Co., NM



RIG LAYOUT

- |                 |                           |
|-----------------|---------------------------|
| 1. Substructure | 7. Water Tank             |
| 2. Catwalk      | 8. Light Plant            |
| 3. Pipe Rack    | 9. Reserve Pit            |
| 4. Doghouse     | 10. Trash Pit             |
| 5. Mud Pits     | 11. Trailer House         |
| 6. Mud Pumps    | 12. Production Facilities |

BOF DIAGRAM  
2000 Working Pressure  
Rams Operated Daily



RECEIVED  
JUL 29 3 15 PM '91  
BUREAU OF LAND MANAGEMENT  
ROSWELL RESOURCE  
AREA

NM Oil Cons. Commission

Drawer 80

Artesia, NM 88401

UNITED STATES

DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPPLICATE

**CONFIDENTIAL**

Replaces August 31, 1988

LEASE DESIGNATION AND SERIAL

NM 83477

6 IF INDIAN, ALLOTTEE OR TRIBE NAME

## SUNDRY NOTICES AND REPORTS ON WELLS

(1) Use this form for proposals to drill or to deepen or plug back to a different reservoir  
(2) Use this form for proposals to drill or to deepen or plug back to a different reservoir

92 DE 2 8 51

OCT 7 1991

GIL WELL ☐ GAS WELL ☐ OTHER ☐

2. NAME OF OPERATOR

Mountain States Petroleum Corp.

3. ADDRESS OF OPERATOR

P. O. Box 1936 Roswell, N M 88202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.  
See also space 17 below)  
At surface

990' FWL 990' FNL

Sec. 11-4S-6E

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, CR, etc.)

6006.8

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Hattie Lacy

9. WELL NO.

#1

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR BLK. AND  
SURVEY OR AREA

Sec. 11-4S-6E

12. COUNTY OR PARISH

Socorro

13. STATE

NM

18

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

## NOTICE OF INTENTION TO

TEST WATER SHUT-OFF

PULL OR ALTER CASING

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON\*

REPAIR WELL

CHANGE PLANS

(Other)

## SUBSEQUENT REPORT OF:

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING

ABANDONMENT\*

(Other) Run surface casing

(NOTE: Report results of multiple completion on Well  
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED WORK COMPLETELY. (Check appropriate box.) (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

9-10-91 Spudded well at 1:30 P.M. Drilling 12 1/4" hole.

9-12-91 Run 8-5/8" 28# casing to 380'.

9-13-91 Dowell pumped 200 sxs Class C cement.

Cement circulated and was witnessed by B.L.M Representative, Vic Coats.

RECEIVED  
OCT 7 1 31 PM '91  
BUREAU OF LAND MANAGEMENT  
ROSOWELL RESERVE AREA

18. I hereby certify that the foregoing is true and correct

SIGNED

ROGER P. Slate

TITLE

President

DATE

10-01-91

(This space for Federal or State office use)

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

ACCEPTED FOR RECORD  
DATE PETER W. CHESTER  
OCT 9 1991  
BUREAU OF LAND MANAGEMENT  
ROSOWELL RESERVE AREA

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE  
DRAWER DD

Printed Edition of Form 1160  
Issued August 31, 1981  
LEASE DESIGNATION AND SERIAL NO.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen a well. Use APPLICATION FOR PERMIT TO DRILL for such proposals.)

Division NM 88210

NM 83477  
6 IF INDIAN, ALLOTTEE OR TRIBE NAME

1. NAME OF WELL ☐ OIL WELL ☒ GAS WELL ☐ OTHER Strat Test

7. UNIT AGREEMENT NAME

2. NAME OF OPERATOR Mountain States Petroleum Corp.

8. FARM OR LEASE NAME  
Hattie Lacy

3. ADDRESS OF OPERATOR  
P. O. Box 1936 Roswell, N M 88202

9. WELL NO.  
#1

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)  
At surface

10. FIELD AND POOL, OR WILDCAT

Wildcat

990' FWL 990' FNL Sec. 11-4S-6E

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec. 11-4S-6E

14. PERMIT NO.

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

6006.8

12. COUNTY OR PARISH Socorro  
13. STATE NM

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREAT

MULTIPLE COMPLETE

FRACTURE TREATMENT

ALTERING CASING

SHOOT OR ACIDIZE

ABANDON\*

SHOOTING OR ACIDIZING

ABANDONMENT\*

REPAIR WELL

CHANGE PLANS

(Other)

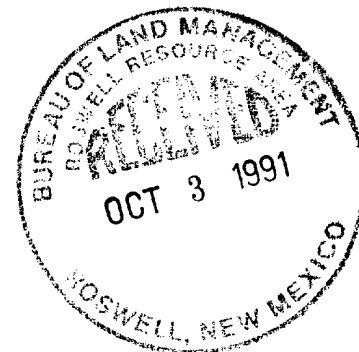
(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

9-26-91 Dowell pumped 35 sxs cement down 7-7/8" hole through the drill pipe. Zone plugged was 3065' - 2935'. 130' plug.

9-27-91 Dowell pumped 35 sxs cement down 7-7/8" hole through the drill pipe. Zone plugged was surface pipe casing shoe at 380'. Bumped plug at 350'.

Job witnessed by Stan Mayo of the B.L.M.



18. I hereby certify that the foregoing is true and correct

SIGNED Peter W. Chester TITLE President

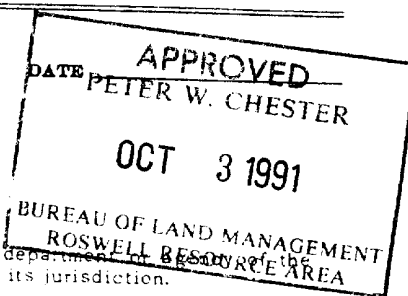
DATE 10/03/91

(This space for Federal or State office use)

APPROVED BY  
CONDITIONS OF APPROVAL, IF ANY:

TITLE  
Approved as to plugging of the well bore.  
Liability under bond is retained until  
surface restoration is completed.

\*See Instructions on Reverse Side



Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

0 1000 2000 3000 4000 5000 6000 7000 FEET  
0 1 2 3 4 5 KILOMETER


CONTOUR INTERVAL 20 FEET  
NATIONAL GEODETIC VERTICAL DATUM OF 1929

ROAD CLASSIFICATION

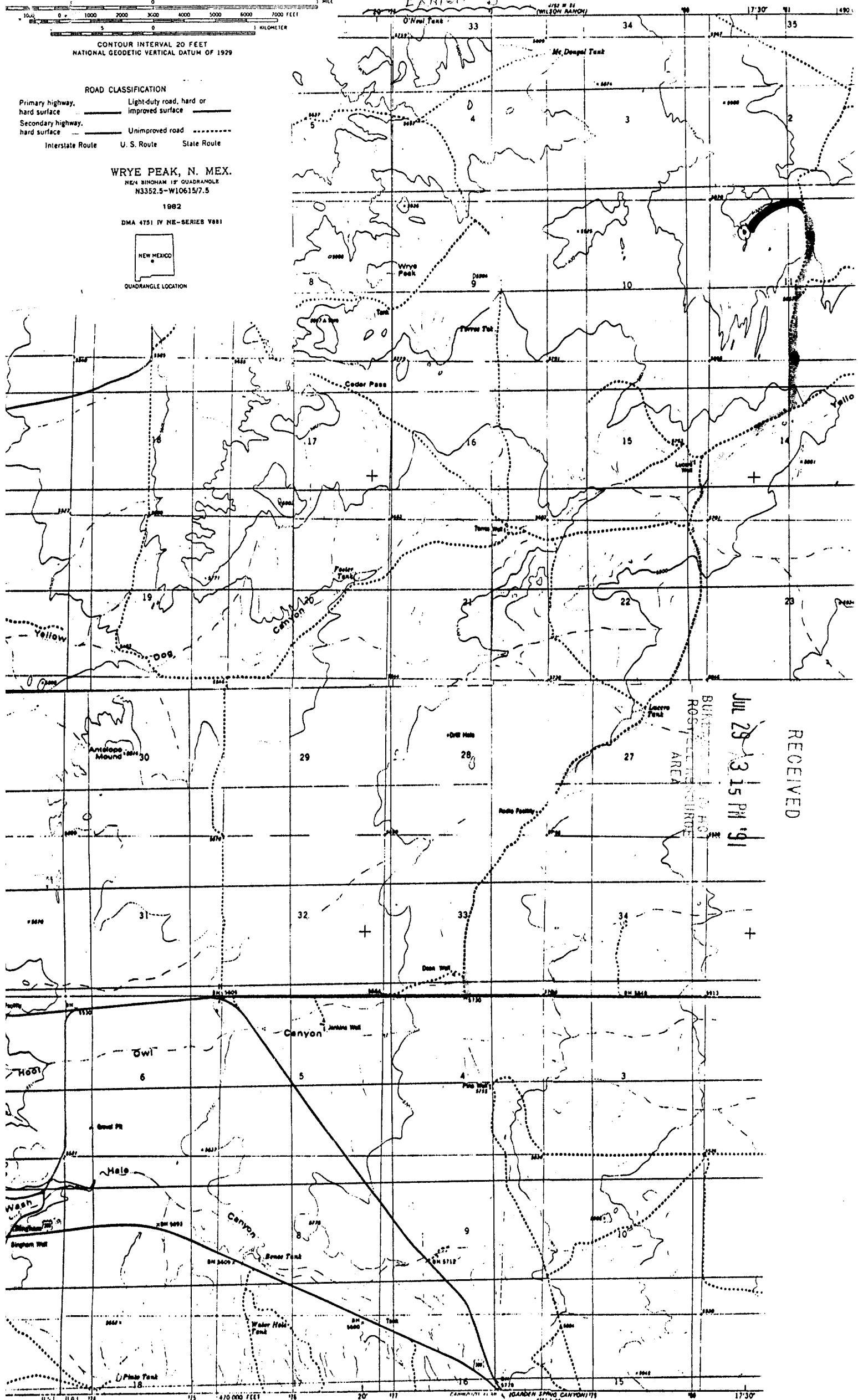
Primary highway, hard surface	Light-duty road, hard or improved surface
Secondary highway, hard surface	Unimproved road
Interstate Route	U. S. Route
	State Route

WRYE PEAK, N. MEX.  
NE 1/4 BINGHAM 1° QUADRANGLE  
N3352.5-W106157.5

1982  
DMA 4751 IV NE-SERIES V881



QUADRANGLE LOCATION



RECEIVED  
JUL 29 13 15 PM '91  
BUREAU OF LAND MANAGEMENT  
ROSELAND RESOURCE AREA