

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYDraper DD  
Artesia, NM 88210  
(Other instructions on  
reverse side)

20-015-25689

5. LEASE DESIGNATION AND SERIAL NO.

NM-27278

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Featherstone Federal

9. WELL NO.

4

10. FIELD AND POOL, OR WILDCAT

N Benson 216  
X And Shugart - SR-0-611. SEC., T., R., M., OR BLE  
AND SURVEY OR AREA

26-18S-30E

12. COUNTY OR PARISH

13. STATE

Eddy

NM

## 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

Ray Westall

## 3. ADDRESS OF OPERATOR

P.O. Box 4 Loco Hills, New Mexico 88255

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

At surface

990' FNL &amp; 1650' FWL

At proposed prod. zone same

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

14 miles south of Loco Hills, NM

## 15. DISTANCE FROM PROPOSED\*

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

1980'

## 16. NO. OF ACRES IN LEASE

160

## 17. NO. OF ACRES ASSIGNED

TO THIS WELL

40

## 18. DISTANCE FROM PROPOSED LOCATION\*

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

1320'

## 19. PROPOSED DEPTH

3600'

## 20. ROTARY OR CABLE TOOLS

Rotary

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

3996 GR

## 22. APPROX. DATE WORK WILL START\*

ASAP

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | QUANTITY OF CEMENT |
|--------------|----------------|-----------------|---------------|--------------------|
| 17 1/2"      | 13 3/8"        | 48#             | 575'          | Circulate          |
| 12 3/4"      | 8 5/8"         | 24#             | 1700'         | "                  |
| 7 7/8"       | 5 1/2"         | 17#             | 3600'         | Production         |

We propose to drill and test the Grayburg and intermediate formations. Approximately 575' of 13 3/8" casing will be set at top of salt and circulated. Fresh water will be used to drill the surface and brine water will be used to drill the production hole. 5 1/2" production casing will be run, circulated and perforated for production.

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

Ray Westall

TITLE

Operator

DATE

9-18-86

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

APPROVAL SUBJECT TO  
GENERAL REQUIREMENTS AND  
SPECIAL STIPULATIONS  
ATTACHED

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

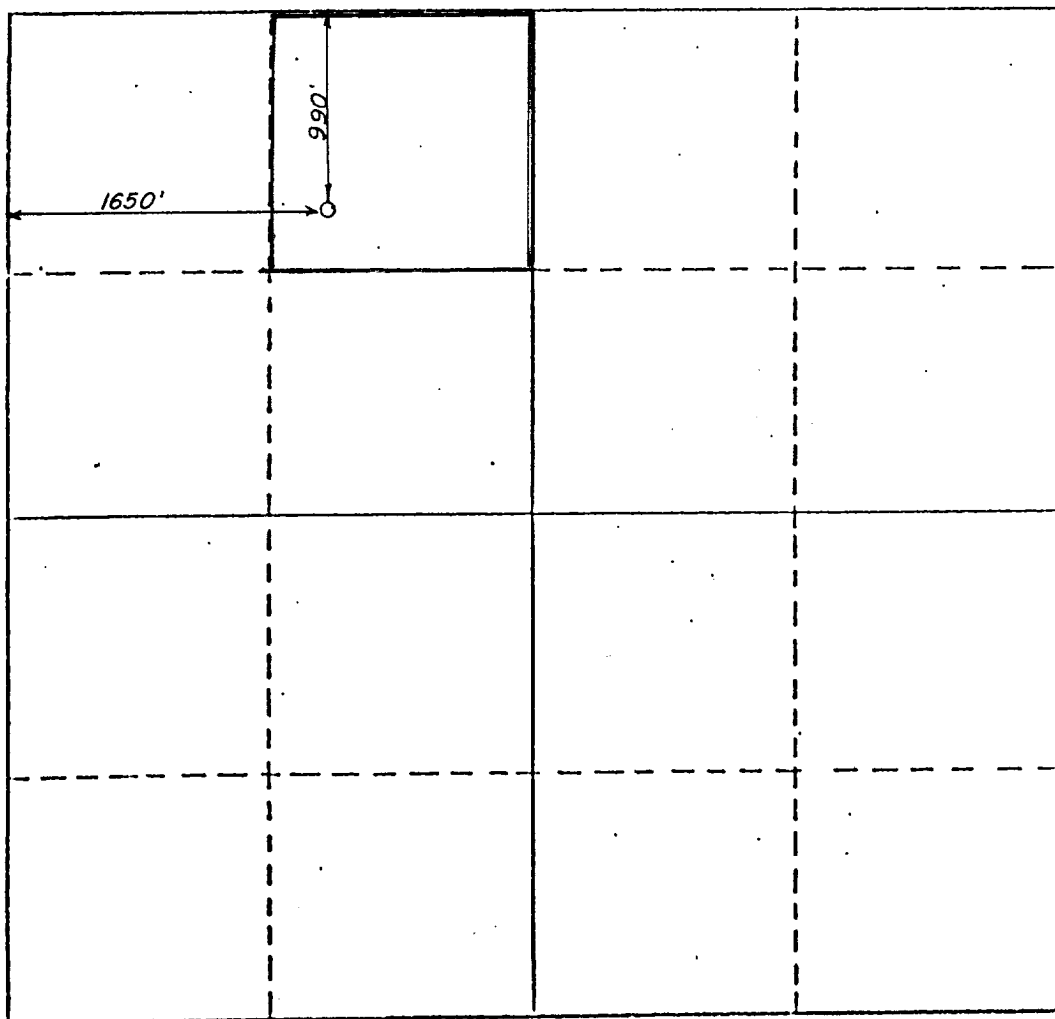
|   |                                    |  |                                |                |  |
|---|------------------------------------|--|--------------------------------|----------------|--|
| Operator<br>Ray Westall ✓   |                                    | Lease<br>Featherstone Federal                        |                                | Well No.<br>4  |  |
| Unit Letter<br>C  | Section<br>26                      | Township<br>18 South                                 | Range<br>30 East               | County<br>Eddy |  |
| Actual Footage Location of Well:<br>990 feet from the North line and 1650 feet from the West line |                                    |  |                                |                |  |
| Ground Level Elev.<br>3996  | Producing Formation<br>4-TR-Q-G-SA | Pool<br>N. Benson 8/6<br><del>Shugart 7-5R-Q-G</del> | Dedicated Acreage:<br>40 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.

Name

Ray Westall

Position

Company

Date

9/15/86

I hereby certify that the well location shown on this plot 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.

Sept 4, 1986

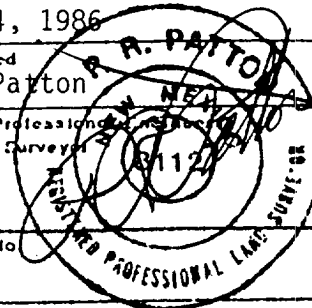
Date Surveyed

P.R. Patton

Registered Professional Surveyor and/or Land Surveyor

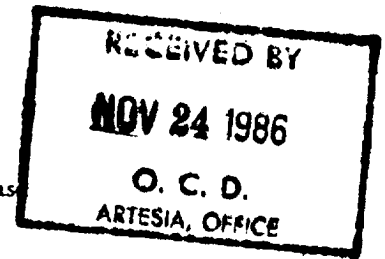
8112

Certificate No.



0 330 660 990 1320 1650 1980 2310 2640 2970 3300 3630 3960 4290 4620 4950 5280 5610 5940 6270 6600

## DESIGNATION OF OPERATOR



The undersigned is, on the records of the Bureau of Land Management, holder of lease

DISTRICT LAND OFFICE: Santa Fe, New Mexico  
SERIAL No.: NM 27278

and hereby designates

NAME: Ray Westall  
ADDRESS: P.O. Box 4  
Loco Hills, New Mexico 88255

as his operator and local agent, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the supervisor or his representative may serve written or oral instructions in securing compliance with the Operating Regulations with respect to (describe acreage to which this designation is applicable):

Township 18 South, Range 30 East, N.M.P.M.

Section 26: NW/4  
Section 27: NW/4 NE/4  
Eddy County, New Mexico,  
from the surface of the ground to a depth of 4000  
feet below surface.

It is understood that this designation of operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Operating Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated operator, the lessee will make full and prompt compliance with all regulations, lease terms, or orders of the Secretary of the Interior or his representative.

The lessee agrees promptly to notify the supervisor of any change in the designated operator.

FEATHERSTONE DEVELOPMENT  
CORPORATION

By: 

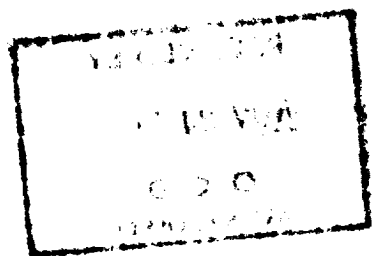
(Signature of lessee)  
Olen F. Featherstone II, President

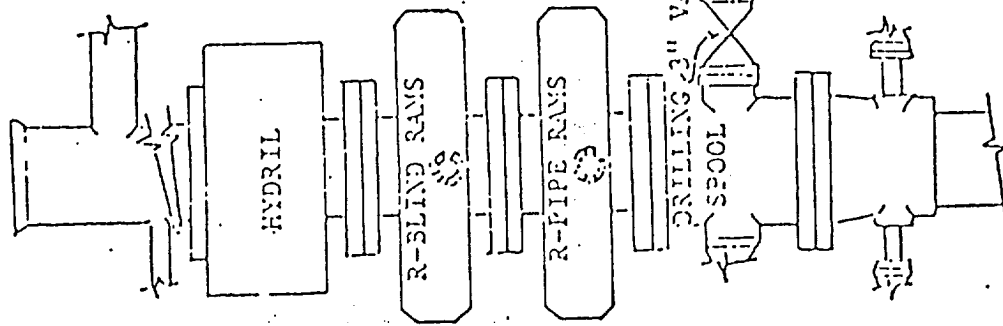
1717 West Second St.

(Address)  
Roswell, New Mexico 88201

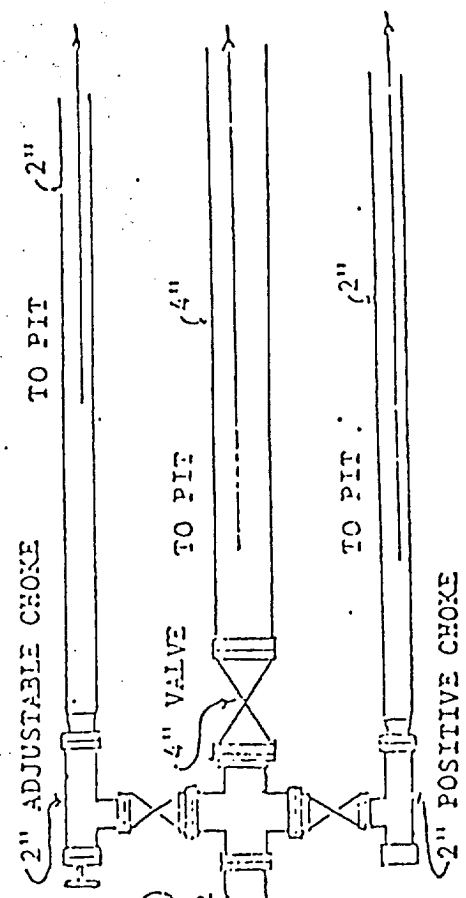
8/28/85

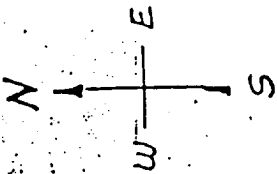
(Date)



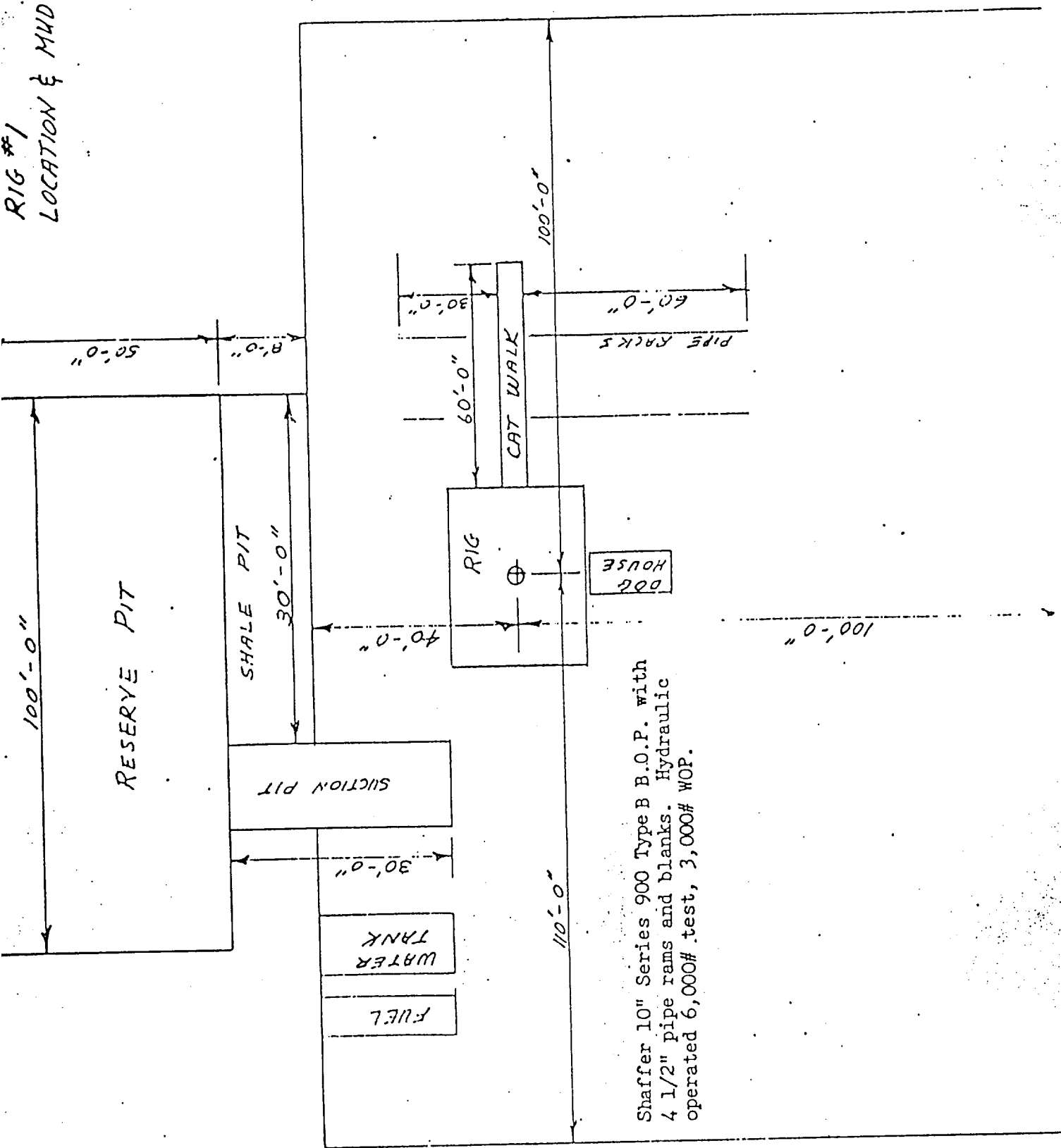


BLOW OUT PREVENTION EQUIPMENT  
 10" 900s ALL FLANGED CONNECTIONS  
 3,000# WORKING PRESSURE - 6,000# TEST





RIG #1  
LOCATION & MUD PIT SPECS



Shaffer 10" Series 900 Type B B.O.P. with  
4 1/2" pipe rams and blanks. Hydraulic  
operated 6,000# test, 3,000# WOP.

APPLICATION FOR DRILLING

RAY WESTALL

In conjunction with the form 9-331C application for permit to drill subject wells, Ray Westall submits the following ten items of pertinent information in accordance with BLM requirements.

1. The Geological surface formation is quaternary.
2. The estimated tops of geologic markers are as follows:  
Yates: 2050'  
7 Rivers: 2500'  
Queen: 3050'  
Grayburg: 3500'  
San Andres: 3800'
3. The estimated depths in which anticipated water, oil and gas formations are expected to be encountered:  
Water 180 feet  
Oil & Gas listed above.
4. Proposed Casing Program: See for 9-331C.
5. Pressure Control Equipment: See Form 9-331C and Exhibit
6. Mud Program: Mud up at 100' before TD and circulate 2 hours after TD and pull drill pipe laying down run logs and casing.
7. Auxiliary Equipment: N/A
8. Testing, Logging and Coring Program: Logging open hole, running gamma/ray and cement bond log.
9. No abnormal pressures or temperatures are anticipated.
10. Anticipated Starting Date: ASAP

## MULTI-POINT SURFACE USE AND OPERATIONS PLAN

RAY WESTALL

This plan is submitted with Form 9-331C, Application for Permit to Drill, covering the above described wells. The purposed wells, the proposed construction activities and operations plan, the magnitude of surface disturbance involved, and the procedures to be followed in rehabilitating the surface after completion of the operations so that a complete appraisal can be made of the environmental effect associated with the operation.

### 1. Existing Roads.

Exhibit A is a portion of a USGS topographic map showing the wells and roads in the vicinity of the proposed location. The proposed well sites are located on the topo map.

### 2. DIRECTIONS:

Proceed East of Loco Hills to county road 222 go South approximately 7 miles, turn west 3 miles on paved road and turn North to location.

### 3. PLANNED ACCESS ROAD:

Approximately 300 feet of road will have to be built from the main road to this location.

### 4. LOCATION OF EXISTING WELLS:

There are no existing wells on this 40 acres.

### 5. LOCATION OF EXISTING/OR PROPOSED FACILITIES:

There are no producing facilities on the shallow lease at the present time. In the event that the well is productive, the necessary production facilities will be installed on the drilling pad. If the well is productive oil well, electricity will be used to provide the necessary power. No power will be required if the well is productive gas well. Electric lines will have to be installed to the location.

### 6. LOCATION AND TYPE OF WATER SUPPLY:

It is planned to drill the proposed well with fresh water to the bottom of the surface and brine water to TD. Water will be obtained from commercial sources by truck.

### 7. SOURCE OF CONSTRUCTION MATERIALS:

Calache will be hauled from approved pits in area. Unless we can obtain enough calache from the reserve pits.



8. METHODS OF HANDLING WASTE DISPOSAL:

- A. Drill cuttings will be disposed of in the reserve pits.
- B. Drilling fluids will be allowed to evaporate in the reserve pits until the pits are dry.
- C. Produced water during testing in reserve pits.
- D. Oil produced during operation will be stored in tanks until sold.
- E. Current laws and regulations pertaining to the disposal of human waste will be complied with.
- F. Trash, waste paper, garbage and junk will be buried in a separate trash pit and covered with a minimum of 24" of dirt. All waste material will be contained to prevent scattering by the wind.
- G. All trash and debris will be buried or removed from the wellsite within 30 days after finishing drilling and/or completion of operations.

9. ANNCILLARY FACILITIES. None required.

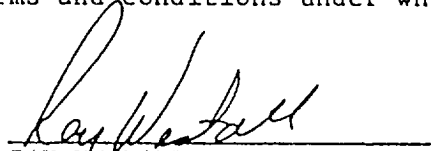
10. WELLSITE LAYOUT.

- A. Exhibit C shows the relative location and dimentions of the well pad, the reserve pits, etc.
- B. A 400' X 400' area has been staked and flagged.

11. OTHER INFORMATION:

- A. Topography: The land surface in the vicinity of the wellsite is sand dunes. The immediate area of the wellsite is discussed in paragraphy 9B.
- B. Flora and Fauna: The vegetation cover consists of prairie grass, prairie flowers, greaswood and miscellaneous desert growth. No wildlife was observed, but the wildlife in the area probably includes the typical of sevi-arid desert land. The area is used for cattle grazing.
- C. There are no ponds, lakes or rivers in the area.
- D. There are no inhabited dwellings in the vacinity of the proposed well.
- E. Surface Ownership: The wellsite is on federal surface.
- F. There is no evidence of any archaeological, historical or cultural sites in the area.

12. OPERATOR'S REPRESENTATIVE: The field representative responsible for assuring compliance with the approved surface use plan is Ray Westall P.O. Box 4, Loco Hills, New Mexico 88255. Phone (505)677-3113.
13. CERTIFICATION: I hereby certify that I, or persons 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; and that the work associated with the operations proposed herein will be performed by Ray Westall and its subcontractors in conformity with this plan and the terms and conditions under which it is approved.



RAY WESTALL

BOX 4

LOCO HILLS, NEW MEXICO 88255  
(505) 677-3113

ARCHAEOLOGICAL SURVEY of the RAY WESTALL  
FEATHERSTONE FEDERAL WELL No. 4 and ACCESS ROAD  
T18S, R30E, SECTION 26, CENTRE, SW1/4NE1/4NW1/4  
[990 FNL, 1650 FWL], EDDY COUNTY, NEW MEXICO

ASC Report 86-60

by James V. Sciscenti, Project Archaeologist  
and Dorothy M. Griffiths, Principal Investigator

ARCHAEOLOGICAL SURVEY CONSULTANTS  
P.O.Box D, Roswell, New Mexico 88202  
[505] 623-5012

PERMIT No.: 18-2920-84-B

September 6, 1986

Prepared for:

Ray Westall  
P.O.Box 4  
Loco Hills, New Mexico 88255  
Attention: Ray Westall

Distribution:

✓ Ray Westall (1)  
BLM - Carlsbad Resource Area (2)  
New Mexico SHPO (1)  
Sciscenti (1)

## ARCHAEOLOGICAL SURVEY CONSULTANTS

## CULTURAL RESOURCES EXAMINATION

on lands administered by  
Department of the Interior  
Bureau of Land Management  
Roswell District, New Mexico

ASC PERMIT NO.: 18-2920-84-B  
ASC Job No.: 86-60 (Ray Westall  
Featherstone Fed. Well No. 4 &  
Access Road R/W), T18S, R30E

1. ABSTRACT: intensive archaeological survey of the Ray Westall Featherstone Federal Well No. 4 (400 ft. sq., 3.7 acres) and access road R/W (500 ft. long X 50 ft. wide, 0.6 acres); a total of 4.3 acres, on federal land surface, was inspected for cultural resources. Since archaeological survey did not reveal any cultural resources, archaeological CLEARANCE for the well pad and access road is RECOMMENDED.

2. WELL LOCATION: T18S, R30E, Section 26, Centre, SW $\frac{1}{4}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$  (990 FNL, 1650 FWL), Eddy County, New Mexico. ACCESS ROAD R/W: T18S, R30E, Section 26, SW $\frac{1}{4}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$  & NW $\frac{1}{4}$ SE $\frac{1}{4}$ NW $\frac{1}{4}$ . Eddy County, New Mexico. LAND STATUS: federal land surface.

U.S.G.S. 7.5 minute series, HACKBERRY LAKE, NEW MEXICO, 1985.

3. PROJECT DESCRIPTION: well pad, 400 ft. sq., 3.7 acres; access road R/W, 500 ft. long X 50 ft. wide, 0.6 acres [access road follows an extant two-track, caliche, road). A total of 4.3 acres, on federal land surface, was inspected for cultural resources.

TOPOGRAPHY: situated at an elevation of 3996 ft., msl, on the south and southeast slope of a high, NE/SW trending dune ridge system, within an area of Kermit-Berino fine sands. The terrain, characterized by deep sands, post-Archaic overlaying an Archaic sand deposit exposed upslope in several deflation basins, drains towards a large enclosed sunken basin some 400 ft. south of the well pad. The SW, NW, & part of the NE quadrants of the well pad are on sloping dune ridge terrain, with deep, large, deflation basins. The well centre and the SE quadrant are relatively free of deflation basins. VEGETATION: oakbrush, 3-awn, buckwheat, burr-grass, sagebrush, wild barley, yucca. GROUND VISIBILITY: ca. 100% in deflation areas; 45% elsewhere.

4. EXAMINATION PROCEDURE: inspection of all deflation basins; zig-zag transects elsewhere. Ca. 2 manhours on ground.

5. FINDINGS: consultation with BLM records shows the recording of a relatively widespread, post-Archaic, site with scattered burnt caliche, ceramics, ground stone, and lithic debitage in the SE $\frac{1}{4}$  of Section 26. A second site, ASC # 90, has been recorded ca.  $\frac{1}{2}$  mile south of the proposed Featherstone Fed. Well # 3; the assemblage at ASC # 90 is post-Archaic as well. Both sites are associated with active to semi-active dunes.

Archaeological survey of the Featherstone Federal Well No. 4 & access road R/W did not reveal any cultural resources.

6. RECOMMENDATIONS: archaeological CLEARANCE for the well pad & access road is RECOMMENDED.

Date of Examination: September 4, 1986

Project Archaeologist: J. J. Susante

Principal Investigator: D. M. Griffiths

