

Artesia, NM 88210 UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

30-015-25690

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

Ray Westall

3. ADDRESS OF OPERATOR

P.O. Box 4 Loco Hills, New Mexico

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

At surface

990' FNL & 1980' FEL

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) 1980'18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT. 1320'

16. NO. OF ACRES IN LEASE

160

19. PROPOSED DEPTH

3600'

17. NO. OF ACRES ASSIGNED
TO THIS WELL

40

20. ROTARY OR CABLE TOOLS

Rotary

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

4053 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 1/4"	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 air flow, vertical distance. Give blowout preventer program, if any.

24. SIGNED Ray Westall TITLE Operator

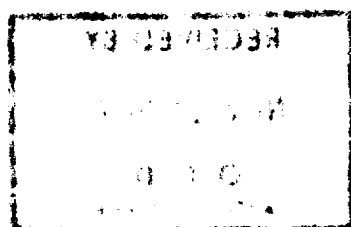
(This space for Federal or State office use)

PERMIT NO. APPROVAL DATE

APPROVED BY TITLE

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 Ray Westall ✓		Lease Featherstone Federal		Well No. 5
Unit Letter B	Section 27	Township 18 South	Range 30 East	County Eddy

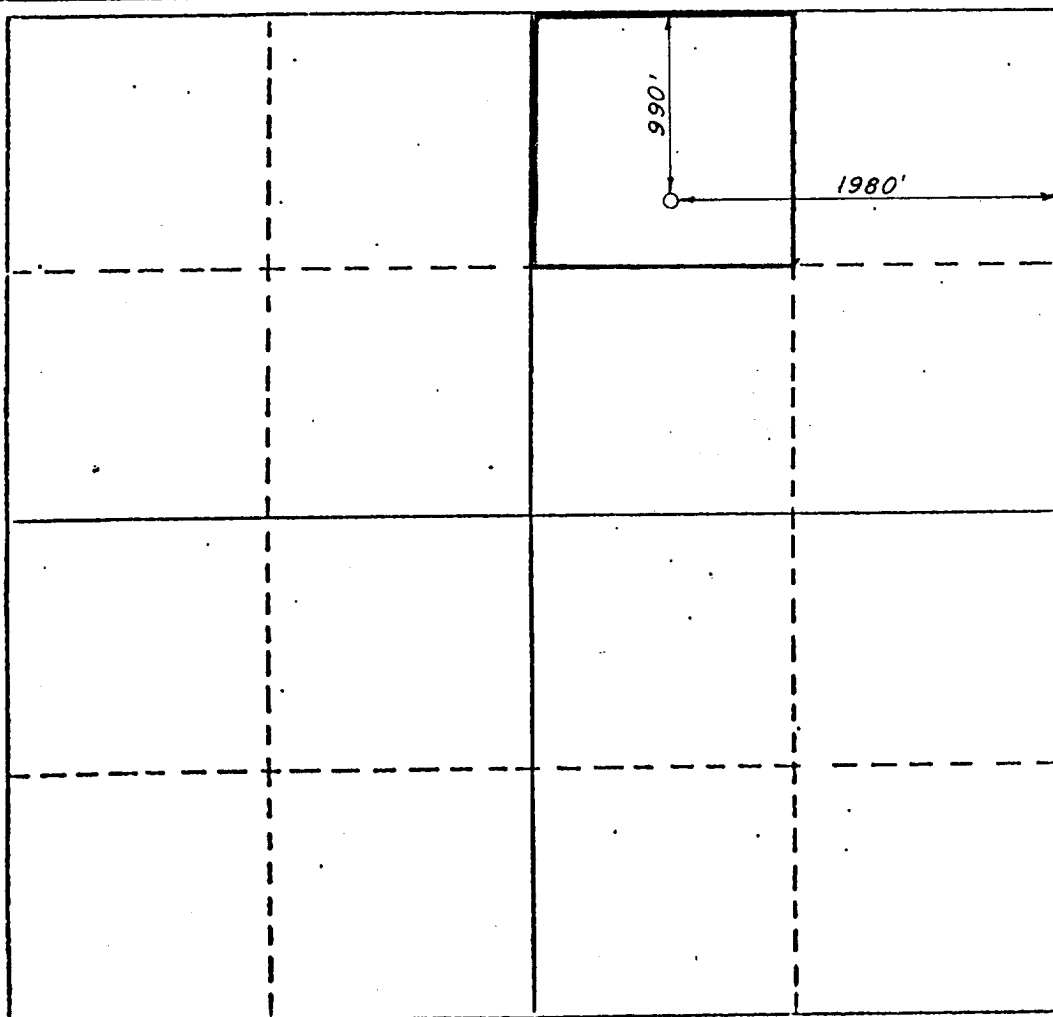
Actual Postage Location of Well:				
990	feet from the	North	line and	1980
				feet from the
				East
				line
Ground Level Elev. 4053	Producing Formation 7R1P/66/SA		Pool N. Benson Q16 Shugart 4-SK Q16	Dedicated Acreage: 40 Acres

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 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.

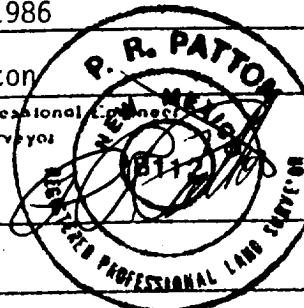
Sept 4, 1986

Date Surveyed
P.R. Patton

Registered Professional Engineer
and/or Land Surveyor

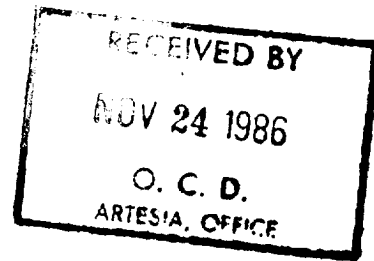
8112

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: 

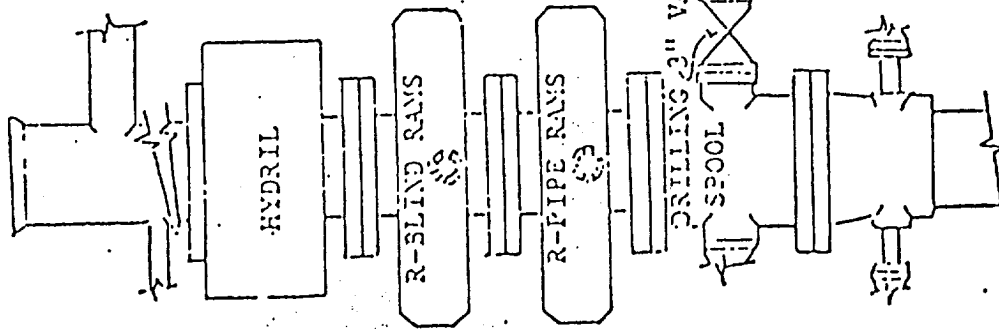
Olen F. Featherstone II, President

1717 West Second St.

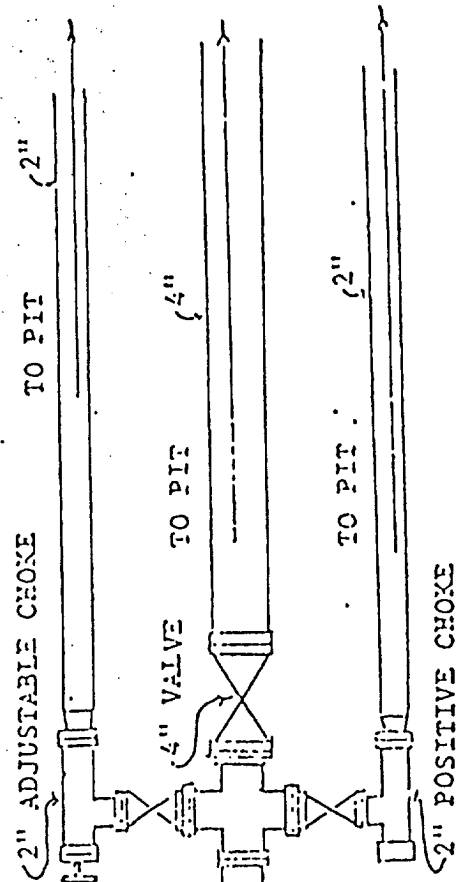
Roswell, New Mexico 88201

8/28/85

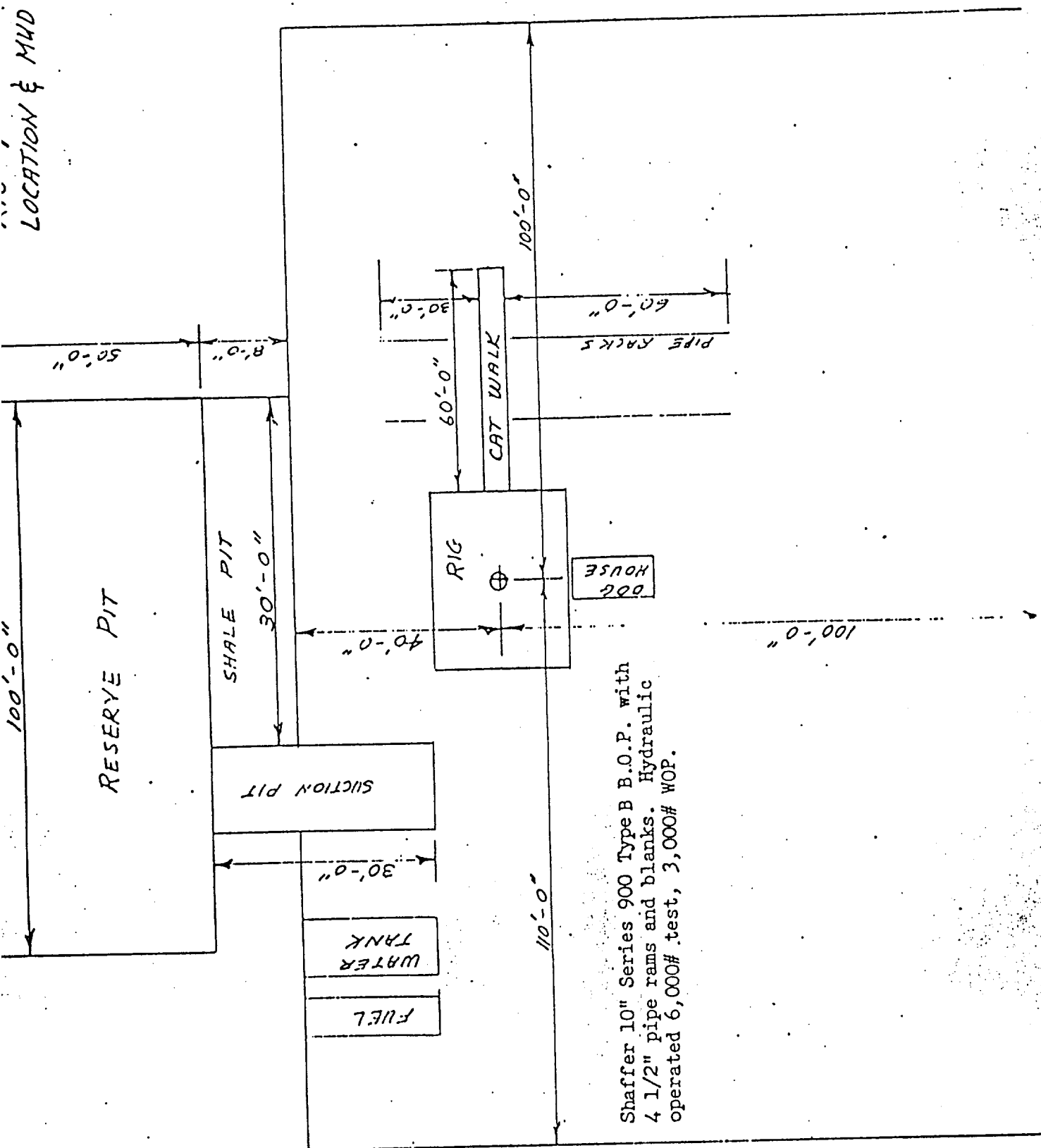
(Date)



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



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.

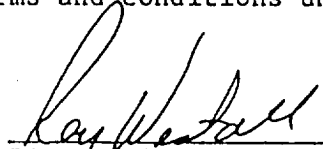
10. WELLSITE LAYOUT.

- 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 wildlive 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. 5 and ACCESS ROAD R/W
T18S, R30E, SECTION 27, CENTRE of the $S\frac{1}{2}$, $NW\frac{1}{4}NE\frac{1}{4}$
[990 FNL, 1980 FEL], EDDY COUNTY, NEW MEXICO

ASC Report 86-61

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

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

PERMIT NO.: 18-2920-84-B

September 7, 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)
Griffiths (1)

ARCHAEOLOGICAL SURVEY CONSULTANTS

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

CULTURAL RESOURCES EXAMINATION

ASC PERMIT NO.: 18-2920-84-B
ASC Job No.: 86-61 (Ray Westall
Featherstone Fed. Well No. 5 &
Access Road R/W, T18S, R30E)

1. ABSTRACT: intensive archaeological survey of the Ray Westall FEATHERSTONE Fed. Well No. 5 (400 ft. sq., 3.7 acres) and access road R/W (400 ft. long X 50 ft. wide, 0.5 acres). A total of 4.2 acres were inspected for cultural resources, all federal land surface.

Archaeological survey revealed the occurrence of 2 Isolated Finds, both outside the limits of the well pad, consisting of scattered burnt caliche cobbles or fragments, and a single fragment from a sandstone, unifacial mano. Neither of the Isolated Finds appears significant past the level of field recording; both I.F.'s are outside of the well pad, in addition, and will not be impacted by construction.

Therefore, archaeological CLEARANCE for the well pad and access road is RECOMMENDED.

2. WELL LOCATION: T18S, R30E, Section 27, Centre of the South $\frac{1}{2}$, NW $\frac{1}{4}$ NE $\frac{1}{4}$ (990 FNL, 1980 FEL), Eddy County, New Mexico. ACCESS ROAD R/W: T18S, R30E, Section 27, SW $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$ & NW $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$; 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, 400 ft. long X 50 ft. wide, 0.5 acres. A total of 4.2 acres, on federal land surface, was inspected for cultural resources.

TOPOGRAPHY: situated at an elevation around 4053 ft., msl, within an area of Kermit-Berino fine sands of considerable depth on the east slope of Loco Hills. A major dune ridge, trending NE/SW, occurs to the west of well pad; the terrain in this area is steep, rising 30 ft. in a distance of 250 ft, a 12% grade. The well pad slopes more gradually, at a 3.75% grade, to the east/northeast, draining towards an enclosed sunken basin ca. 1900 ft. east. A low dune ridge, trending SW/NE, occurs on the south side of the pad; coppice dunes trapped around mesquite occur in the southeast quadrant of the well pad and extend southwards. A limited amount of natural tabular caliche occurs sporadically in the southeast quadrant of the well pad, as well. Elsewhere in the pad, the terrain is undulating to flat, particularly in the northern side of the pad area. The access road, which trends SW, follows rising dune terrain at a slope of 6%. Prominent deflation basins occur on the south side of the pad; along the access road; and to the south of the pad area. VEGETATION: the pad straddles a vegetation interface. Dominant vegetation on the west side of the well pad and to the west consists of oakbrush, 3-awn, croton; snakeweed along with mesquite occurs in the central and northeastern parts of the pad. Mesquite and abundant javalina bush occur in the southeast quadrant of the pad. Other species include burr-grass, yucca. Some oakbrush occurs throughout the pad. GROUND VISIBILITY: ca. 100% in deflation basins; ca. 45% elsewhere.

ARCHAEOLOGICAL SURVEY CONSULTANTS CULTURAL RESOURCES EXAMINATION

4. EXAMINATION PROCEDURE: zig-zag transects, with inspection of all deflation basins. Dog-leash transects in the area of the Isolated Finds. Ca. 3 manhours on ground.
5. FINDINGS: consultation with BLM records shows the recording of a small site (37 m. diam.) ca. 400 ft. SW of the well pad in Sec. 27 ($SW\frac{1}{4}SW\frac{1}{4}NW\frac{1}{4}NE\frac{1}{4}$) by ACA as NM-06-4234. A second site, NMAS 5546, consisting of a burnt caliche scatter with an associated, possible jacal structure, is ca. 500 ft. NW of the proposed FEATHERSTONE Fed. Well # 5. A third site, NMAS 5547, is in the $SE\frac{1}{4}SW\frac{1}{4}NE\frac{1}{4}$ of Sec. 27, some 1200 ft. from the proposed pad; the latter site is a 30 m. diam. ceramic & lithic scatter.

Archaeological survey of the proposed FEATHERSTONE Fed. Well No. 5 and access road R/W revealed the occurrence of 2 Isolated Finds adjacent to the SE corner of the pad, and just outside of the south limits of the well pad. The Finds consist of a low density scatter of burnt caliche & a single sandstone mano fragment. Neither of the Finds appears significant past the level of field recording; the Finds are described below.

I.F. # 1: UTM: Zone 13; 597,765mE; 3,620,820mN.

1 sandstone, unifacial mano fragment (6 X 6.5 X 2.5 cm) & 3 burnt caliche fragments exposed within a shallow deflation area adjacent to a coppice dune. Ca. 20 ft. south are 8 small, fragments of burnt caliche.

I.F. # 2: UTM: Zone 13; 597,780mE; 3,620,820mN.

7 burnt caliche cobble fragments scattered in an exposed deflation area ca. 3 metres in diameter.

6. RECOMMENDATIONS: Since the Isolated Finds are not significant past the level of field recording, and are outside of the well pad, archaeological CLEARANCE for the Ray Westall FEATHERSTONE Fed. Well No. 5 and access road R/W is RECOMMENDED.

Date of Examination: September 4, 1986

Project Archaeologist: D. M. Griffiths.

Principal Investigator: J. V. Sorensen

