



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

RECEIVED

Box 1397, Roswell, New Mexico - 88201

SEP 14 '87

O. C. D.
ARTESIA, OFFICE

IN REPLY
REFER TO:

17-00246

2102.41 (000)

SEP 10 1987

Mr. Jockell
Box 4
Rock Hills, WY 82255

Dear Sir:

Your application for Permit to Drill the Trigg Federal No. 5 well in the
BLSMA, Sec. 37, T. 18 S., R. 30 E., Eddy County, New Mexico, lease 17-00246,
to a depth of 3000 feet to test the Grayburg formation in the oil-potash area,
is hereby approved as amended by stipulations attached to the application.

One copy of the application is returned herewith. Please notify the Bureau of
Land Management office checked on the attached special stipulation, in
sufficient time for a representative to witness all essential operations.

Approval of this application does not warrant or certify that the applicant
has a legal or equitable title to those rights in the subject lease which
would entitle the applicant to conduct operations thereon.

Sincerely,

Orig. Sgd. David E. Mari

FOR

Francis R. Cherry, Jr.
District Manager

Enclosure

cc:

✓ HOCOD - Artesia - 2

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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

Box 4 Loco Hills, NM 88255

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

At surface

990' FSL & 1650' FWL

At proposed prod. zone

same

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

7 miles southwest of Loco Hills, NM

15. DISTANCE FROM PROPOSED*

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

990'

16. NO. OF ACRES IN LEASE

320

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.

660'

19. PROPOSED DEPTH

3600'

20. ROTARY OR CABLE TOOLS

Rotary

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

3438 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#	500'	Circulate
12 1/4"	8 5/8"	24#	1700'	Circulate
7 7/8"	5 1/2"	17#	3600'	Prod. circulate

We propose to drill and test the Grayburg and intermediate formations. Approximately 500' 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

4-20-87

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

30-015-25807

5. LEASE DESIGNATION AND SERIAL NO.

NM-06245

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

9. WELL NO.

5

10. FIELD AND POOL, OR WILDCAT

Shugart V-52-Q-04

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

35-18S-30E

12. COUNTY OR PARISH

Eddy

13. STATE

N.M.

POST 10#1
9-18-87
NGW LOC & API

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

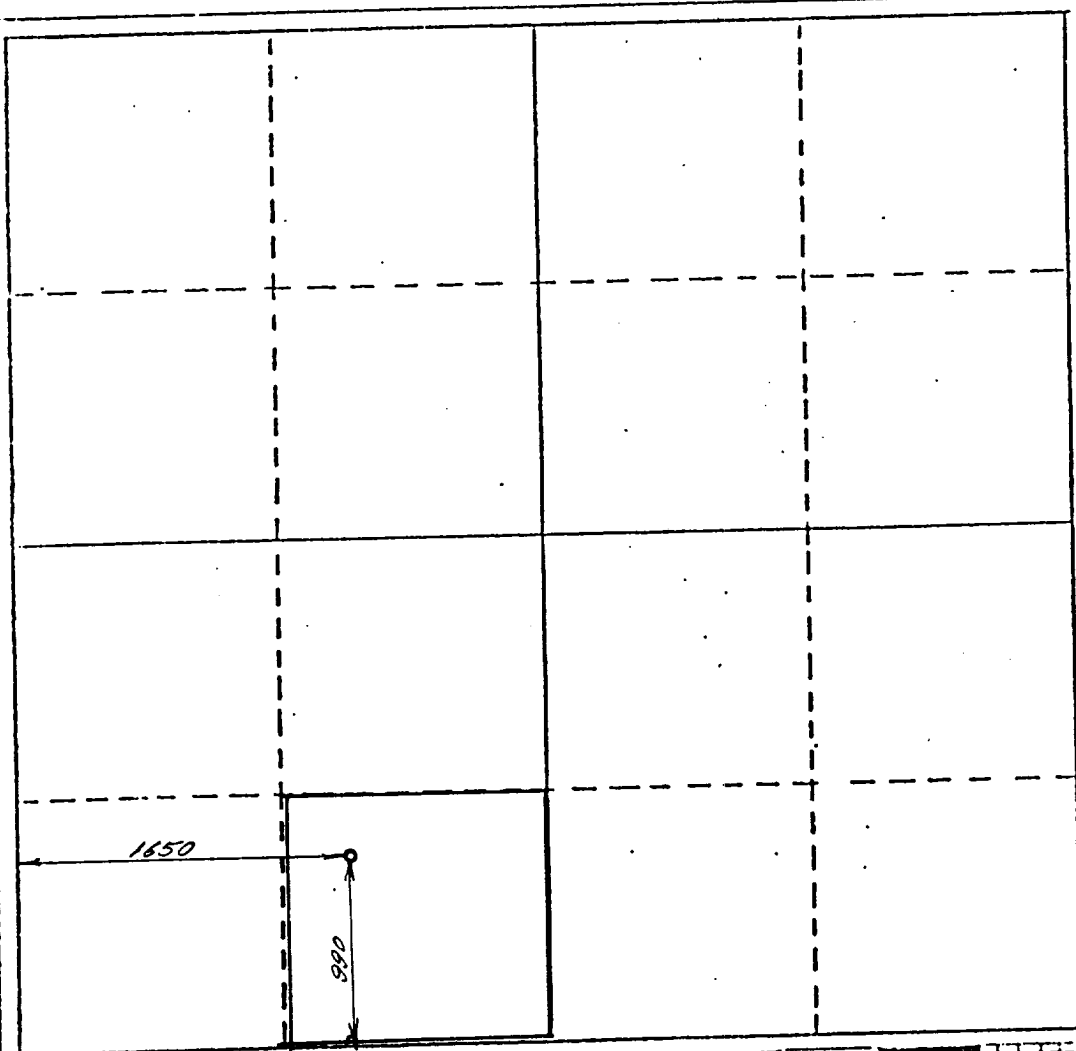
Operator Ray Westall		Lease Trigg Federal		Well No. 5
Unit Letter N	Section 35	Township 18 South	Range 30 East	County Eddy
Actual Footage Location of Well: 990 feet from the South line and 1650 feet from the West line				
Ground Level Elev. 3438	Producing Formation Grayburg	Pool Shugart Yates 7 RVS-Q-G	Dedicated Acreage: 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 _____

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.

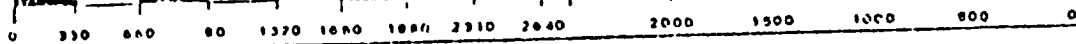
Name **Ray Westall**
Position **Operator**
Company **Ray Westall Operator**
Date **April 8, 1987**

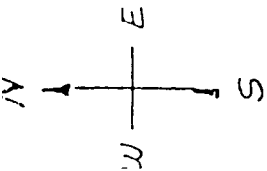
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

April 2, 1986
Date Surveyed
P.R. Patton
Registered Professional Engineer
and/or Land Surveyor

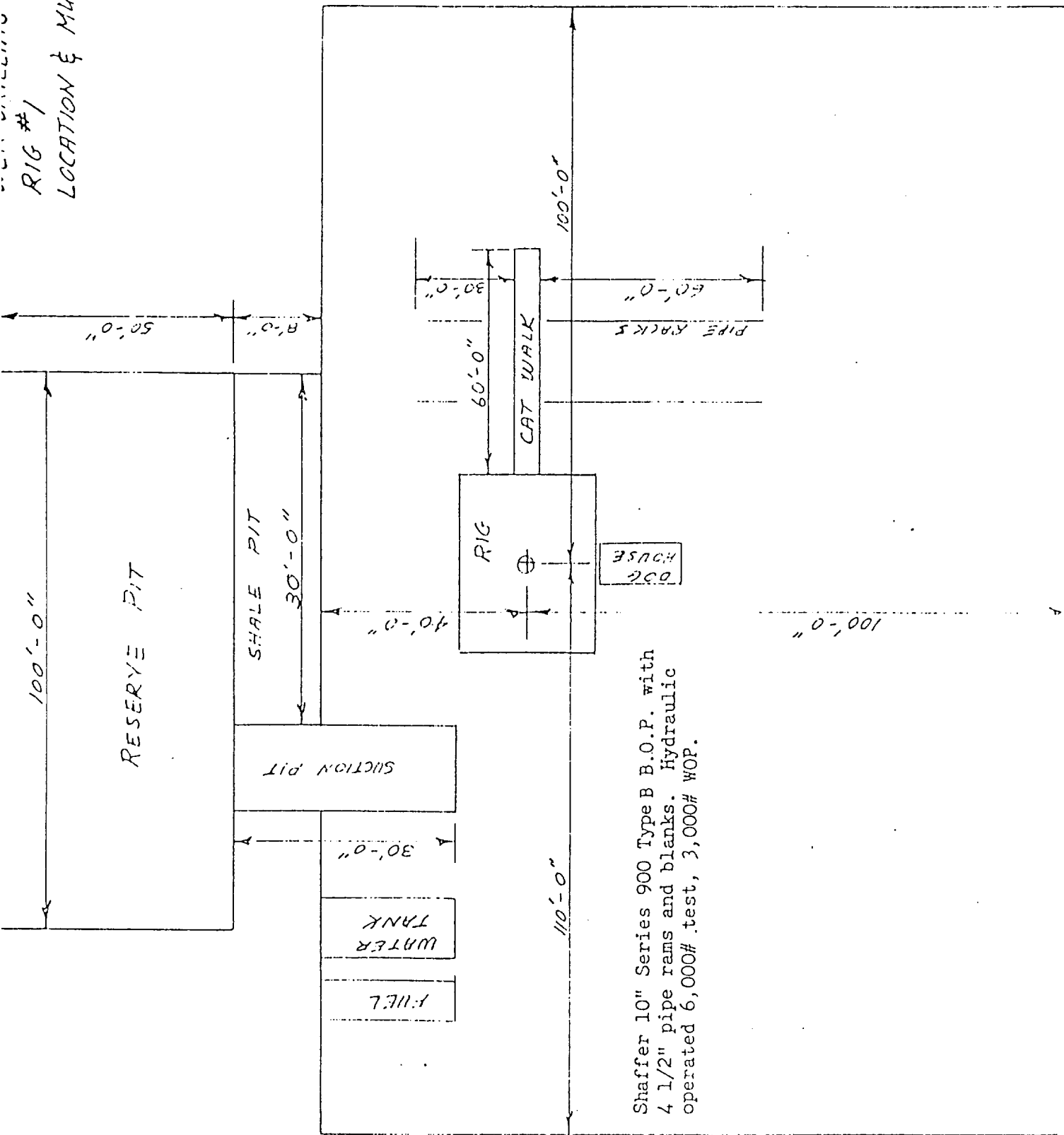
8112

Certificate No.

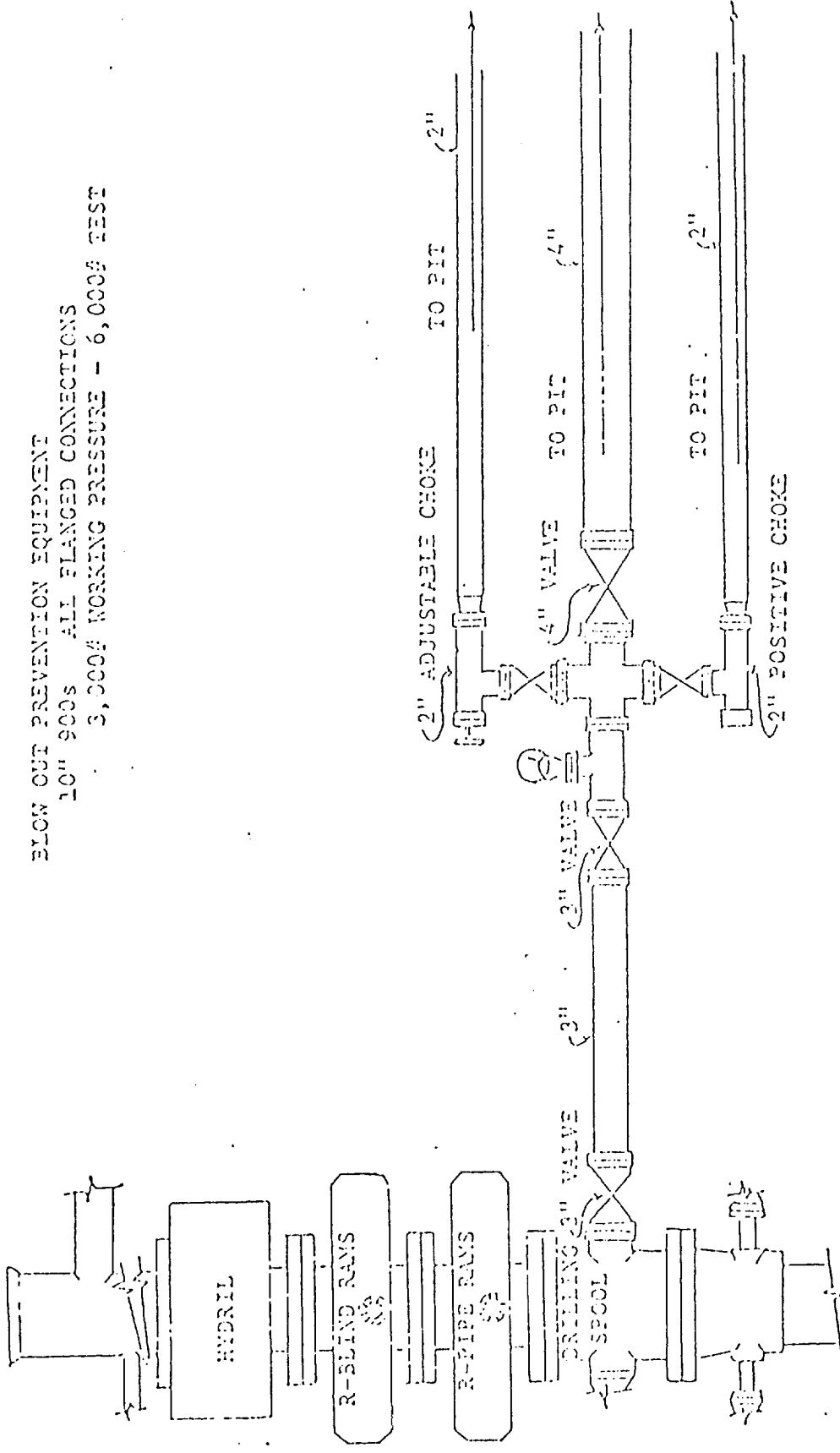




RIG #1
LOCATION & MUD PIT SPECS.



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.



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

Ray Westall

APPLICATION FOR DRILLING

Ray Westall
Trigg Federal #5
1980 FSL 2310 FWL, Sec 35, T 18S R 30E

In conjunction with Form 9-331C, Application for Permit to Drill subject well, 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	3850
3. The estimated depths at which anticipated water, oil & gas formations are expected to be encountered:

Water	180
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Oil & gas zones listed above in item #2.
4. Proposed Casing Program: See 9-331C
5. Pressure Control Equipment: See 9-331C and Exhibit E.
6. Mud Program: Mud up 100 to 150' before TD and circulate 2 hours after TD and pull out laying down and running casing.
7. Auxiliary Equipment: N/A
8. Testing, Logging and Coring Program: (E) logs, CNL/FDC, DLL.
9. No abnormal pressures or temperatures are anticipated.
10. Anticipated Starting Date: As soon as possible.



Map showing the location of the Ray Westall Trig Federal Well No. 5 and access road. T18S, R30E, Section 35, Centre, NW/4SE/4SW/4 [990 FSL, 1650 FWL], Eddy County, New Mexico. Squares show locations of well pads; solid line shows location of access road. U.S.G.S. 7.5 minute series, HACKBERRY LAKE, NEW MEXICO, 1985. ASC project 87-115.

DESIGNATION OF OPERATOR

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

DISTRICT LAND OFFICE:

SERIAL No.: NM-06245

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):

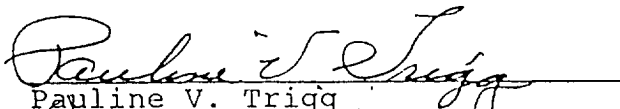
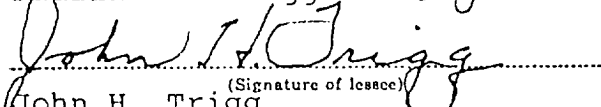
Township 18 South, Range 30 East, N.M.P.M.

Section 35: E $\frac{1}{2}$ NW $\frac{1}{4}$, SW $\frac{1}{4}$ NW $\frac{1}{4}$ and SW $\frac{1}{4}$ for
depths from the surface down to 4,500 feet
below the surface. Lea County, New Mexico.

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.


Pauline V. Trigg

John H. Trigg
(Signature of lessee)

May 3, 1985
(Date)

201 East Hobbs, Roswell, NM 88201
(Address)

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 well. The purpose of this plan is to describe the location of the proposed well, 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 site is located approximately $\frac{1}{2}$ mile north of main road.

DIRECTIONS.

1. Proceed east from Loco Hills to county road 222 go South approximately 7 miles, turn west 2 miles location on north side of road.

2. PLANNED ACCESS ROAD.

- A. Approximately 300 feet of road will have to be built from the main

3. LOCATION OF EXISTING WELLS.

- A. There are no existing wells on this 40 acres.

4. LOCATION OF EXISTING/OR PROPOSED FACILITIES.

- A. There are no producing facilities on the shallow lease at the present time.
- B. 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, electricity will be used to provide the necessary power. No power will be required if the well is productive gas. Electric lines will have to be installed from east side of location.

5. LOCATION AND TYPE OF WATER SUPPLY.

- A. It is planned to drill the proposed well with a fresh water system. The water will be obtained from commercial sources and will be hauled to the location by truck.

6. SOURCE OF CONSTRUCTION MATERIALS.

- A. The location and road will be scraped out to caliche.

7. METHODS OF HANDLING WASTE DISPOSAL.

- A. Drill cuttings will be disposed of in the reserve pit.
- B. Drilling fluids will be allowed to evaporate in the reserve pits until the pits are dry.
- C. Produced water during testing - drill 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 inches 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.

8. ANCILLARY FACILITIES.

- A. None required.

9. WELLSITE LAYOUT.

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

10. PLANS FOR RESTORATION OF THE SURFACE.

- A. After finishing drilling and/or completion operations, all equipment and other material not needed for further operations will be removed. The location will be cleaned of all trash and junk to leave the wellsite in as aesthetically pleasing a condition as possible.
- B. Unguarded pits, if any, containing fluids will be fenced until they have been filled.
- C. If the proposed well is non-productive, all rehabilitation and/or vegetation requirements of the BLM and USGS will be complied with and will be accomplished as expeditiously as possible. All pits will be filled level within 90 days after abandonment.

11. OTHER INFORMATION.

- A. Topography: The land surface in the vicinity of the wellsite is in sand dunes. The immediate area of the wellsite is discussed above in paragraph 9B.
- B. Flora and Fauna: The vegetation cover consists of prairie grass, prairie flowers, reasewood and miscellaneous desert growth. No wildlife was observed, but the wildlife in the area probably includes those typical of semi-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 vicinity of the proposed well.
- E. Surface Ownership: The wellsite is on federal surface.
- F. There is no evidence of any archeological, historical or cultural sites in the area.

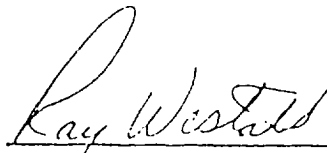
12. OPERATOR'S REPRESENTATIVE.

- A. The field representative responsible for assuring compliance with the approved surface use plan is:

Ray Westall
P. O. Box 4
Loco Hills, NM 88255
(505) 677-3113 Office
677-3201 Home

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 it's subcontractors in conformity with this plan and the terms and conditions under which it is approved.



Ray Westall, Operator

ARCHAEOLOGICAL SURVEY of the RAY WESTALL
TRIG FEDERAL WELL No. 5 & ACCESS ROAD R/W
T18S, R30E, SECTION 35, CENTRE, NW/4SE/4SW/4
[990 FSL, 1650 FWL], EDDY COUNTY, NEW MEXICO

FEDERAL LAND SURFACE (U.S.G.S. 7.5', HACKBERRY LAKE, N. M., 1985)

ASC Report 87-115

by James V. Sciscenti, Project Archaeologist

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

PERMIT NO.: 18-2920-84-B

April 3, 1987

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 the
Department of the Interior
Bureau of Land Management
Roswell District, New Mexico

ASC PERMIT NO.: 18-2920-84-B
ASC Job No.: 87-115 [Ray West-
tall TRIG FEDERAL WELL NO. 5
& Access Road R/W]

1. ABSTRACT: intensive archaeological survey, on **federal land surface**, of the Ray Westall TRIG FEDERAL WELL NO. 5 (400 ft. sq., 3.7 acres) and access road R/W (930 ft. long & 50 ft. wide, 1.07 acres). A total **federal land surface** of **4.77 acres** was inspected for cultural remains.

Archaeological survey did not reveal any cultural resources. Therefore, archaeological **CLEARANCE** for the TRIG FEDERAL WELL NO. 5 and access road is **RECOMMENDED**.

2. WELL PAD LOCATION: T18S, R30E, Section 35, Centre, NW/4SE/4 SW/4 [990 FSL, 1650 FWL]. Eddy County, New Mexico. **ACCESS ROAD R/W:** T18S, R30E, Section 35, NW/4SE/4SW/4; SW/4NE/4SW/4; SE/4NE/4SW/4. Eddy County, New Mexico.

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

LAND STATUS: BLM, Roswell District/Carlsbad Resource Area, N.M.

3. PROJECT DESCRIPTION: well pad, 400 ft. sq., 3.7 acres; access road R/W, 930 ft. long X 50 ft. wide, 1.07 acres. A total **federal land surface** of **4.77 acres** was inspected for cultural resources.

TOPOGRAPHY: the proposed TRIG FEDERAL WELL NO. 5 and access road R/W are situated northeast of the Nimenim Ridge escarpment, to the south/southeast of a large NE/SW trending, enclosed sunken basin (ca. 1000 ft. NW), which collects runoff from Nimenim Ridge and the Loco Hills, ca. 1.75 miles to the west. The ridge topography, which consists of shallow Potter-Simona soils (Potter gravelly loam and Simona gravelly fine loam) overlaying indurated caliche, has surface exposures of weathered caliche along the ridge margins. Simona-Bippus complex soils occur in the enclosed sunken basin, with mixed soils, caliche, limestone, & sandstone float at the interface of the basin & ridge topography. The terrain within the southern part of the well pad, is at a gradient of no less than 3 degrees, EW; much of the southeast quadrant of the well pad is on the talus and escarpment of the 35 ft. high ridge. Relatively steep, headward eroding, arroyos occur in the southern & eastern part of the well pad, and a minor number of shallow washes cross-cut the access road R/W.

VEGETATION: three-awn, buffalo grass, snakeweed, creosote bush, mesquite, rare javalina bush, prickly pear.

4. EXAMINATION PROCEDURE: parallel and zig-zag transects. Ca. 6.5 manhours on ground. **VISIBILITY:** ground, ca. 75%; weather, partial overcast.

5. FINDINGS: BLM records do not indicate the prior recording of archaeological sites within Section 35 (T18S, R30E).

Archaeological survey of the proposed Ray Westall Trig Federal Well No. 5 and access road R/W did **not** reveal any cultural resources.

6. RECOMMENDATIONS: In light of the absence of cultural resources, archaeological **CLEARANCE** for the Ray Westall TRIG FEDERAL WELL No. 5 and access road, on **federal land surface**, is **RECOMMENDED**.

Date of Examination: April 2, 1987.

Project Archaeologist: J. J. Scurto

Principal Investigator: D. M. Griffiths