



# United States Department of the Interior

BUREAU OF LAND MANAGEMENT  
ROSWELL DISTRICT OFFICE  
P.O. BOX 1397  
ROSWELL, NEW MEXICO 88201



C/31

NM-06245  
3162.41 (065)

RECEIVED

APR 05 1988

APR 07 '88

Ray Westall  
P. O. Box 4  
Loco Hills, NM 88255

O. C. D.  
ARTESIA OFFICE

Dear Sir:

Your application for permit to drill the Trigg Federal No. 7 in the SW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 35, T. 18 S., R. 30 E., Eddy County, New Mexico, lease NM-06245, to a depth of 4500 feet to test the Yates, Queen, Grayburg, and San Andres formations 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 cementing operations.

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

Sincerely,

Orig. Sgd. Francis R. Cherry, Jr.

Francis R. Cherry, Jr.  
District Manager

1 Enclosure

cc:  
NMOCD-Artesia - 2 ✓  
NM (067) - 2  
NM (065) - 1

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

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

At proposed prod. zone  
990 FSL & 990 FWL

## 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'

## 18. DISTANCE FROM PROPOSED LOCATION\*

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

660'

## 16. NO. OF ACRES IN LEASE

320

## 19. PROPOSED DEPTH

4500

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

40

## 20. ROTARY OR CABLE TOOLS

Rotary

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

3420

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

## 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#	4500'	400 sx.

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, bring cement back into intermediate.

Post 10#1  
NL&API  
4-8-88

RECEIVED  
29 10:45 AM '88  
BUREAU OF LAND MANAGEMENT  
DEPARTMENT OF THE INTERIOR

RECEIVED

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

TITLE

Operator

DATE

2/26/88

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

## OIL CONSERVATION DIVISION

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088

SANTA FE, NEW MEXICO 371

Form C-102  
Revised 10-1-79

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

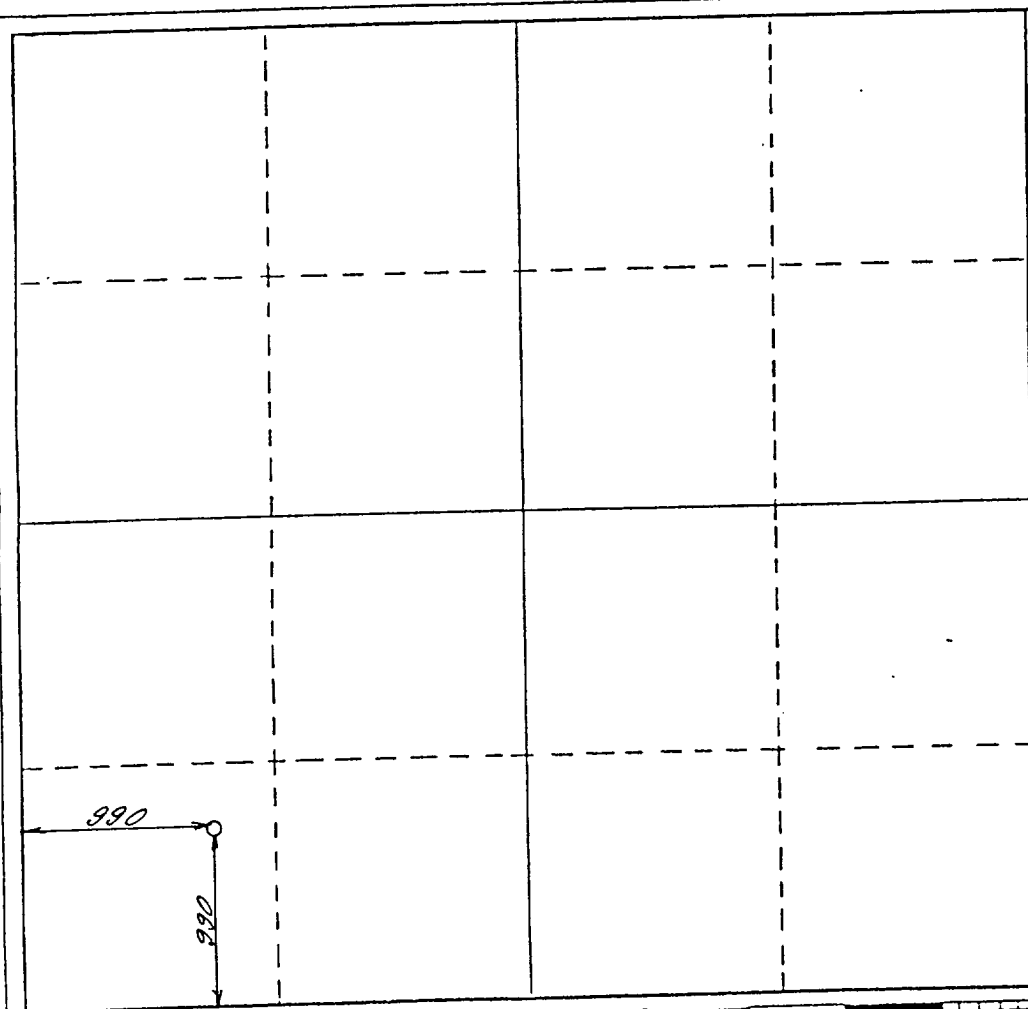
Operator Ray Westall			Lease Trigg Federal			Well No. 7		
Unit Letter M	Section 35	Township 18 South	Range 30 East	County Eddy				
Actual Footage Location of Well: 990 feet from the South line and 990 feet from the West line								
Ground Level Elev. 3420	Producing Formation Y, BN, Gb, SA		Pool Shugart Y-SR-Q-G		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

Position

Company

Date

2-26-1988

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.

11 February 1988

Date Surveyed

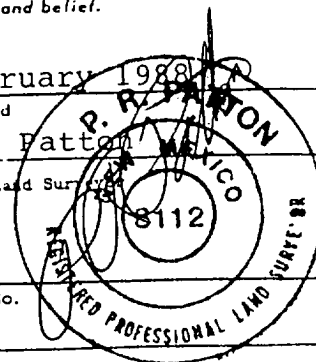
P. R. Patton

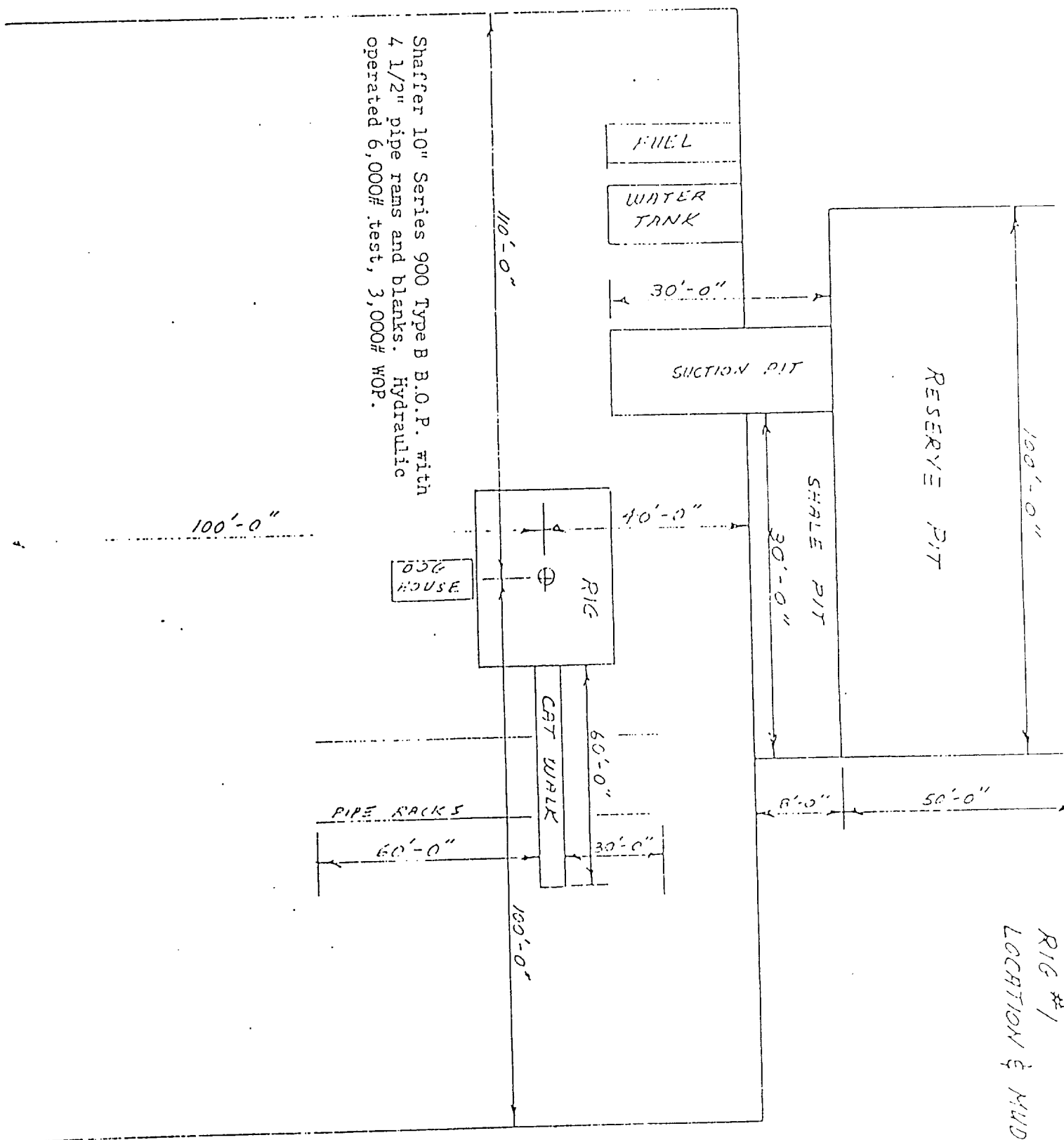
Registered Land Surveyor

8112

8112

Certificate No.

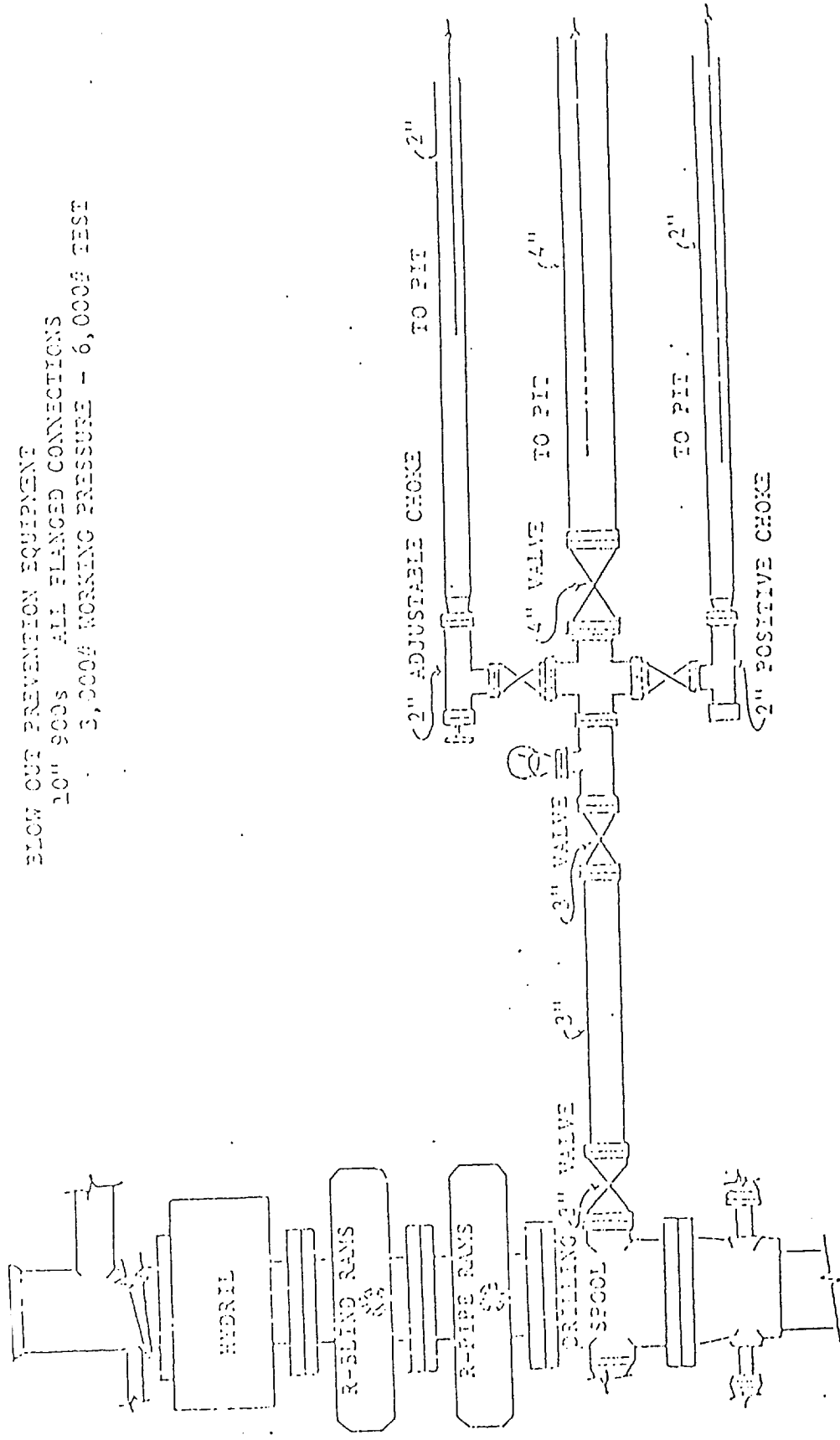




Shaffer 10" Series 900 Type B B.O.P. with  
4 1/2" pipe rams and blanks. Hydraulic  
operated 6,000# test, 3,000# WOP.

RIG #1  
LOCATION & MUD PIT SPECS.

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



ATTACHMENT TO FORM C-101

## 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):

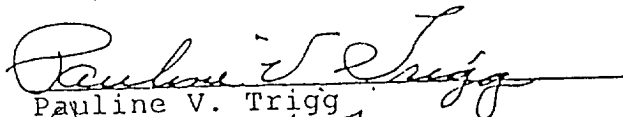
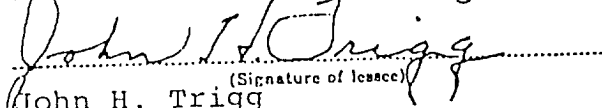
Township 18 South, Range 30 East, N.M.P.M.

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)

# Ray Westall

## APPLICATION FOR DRILLING

Ray Westall  
Trigg Federal #7

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
-------	-----

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.

P. O. BOX 4 / LOCO HILLS, NEW MEXICO 88255 / PHONE (505) 677-3113

## 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 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.

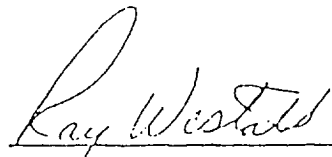
12. OPERATOR'S REPRESENTATIVE.

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

Ray Westall  
P. O. Box 4  
Loco Hills, NM 80255  
(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 CONSULTANTS  
P.O. Box D  
Roswell, New Mexico 88201  
505-623-5012

Trig Fed. Well # 7 &  
2 access road R's/W

ASC Job 88-14

Date: 2/16/1988

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

Dear Ray:

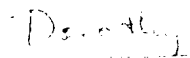
Enclosed please find ASC Report 88-14, covering the archaeological survey, on federal land surface, of the Trig Federal Well No. 7 & 2 access road R's/W. The survey was requested by your agent, P.R. Patton, in compliance with relevant federal regulations.

Since no archaeological materials were found, we have recommended archaeological clearance for the Trig Federal Well No. 7 and 2 access road R's/W. Copies of the report have been distributed as per the list on the title page, and you need not concern yourself with distribution to those agencies.

**Also enclosed** please find ASC **Invoice** 88-14, for performance of the survey.

We are pleased to have been of service with this project, and hope to assist you in the future. Should you have questions concerning the project, please contact our office.

Sincerely,



D. M. Griffiths  
Principal Investigator

enclosure: **invoice** (1); report (1)

cc: ASC File 88-14 (1)

ARCHAEOLOGICAL SURVEY of the RAY WESTALL  
TRIG FEDERAL WELL NO. 7 & 2 ACCESS ROAD R's/W  
T18S, R30E, SECTION 35, CENTRE, NE/4SW/4SW/4  
[990 FSL, 990 FWL], EDDY COUNTY, NEW MEXICO

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

ASC Report 88-14

by James V. Sciscenti, Project Archaeologist

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

PERMIT NO.: 18-2920-88-C

February 16, 1988

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.: 18-2920-88-C  
ASC Job No.: 88-14 [Ray West-  
tall Trig Federal Well No. 7  
& 2 Access Road R's/W]

**1. ABSTRACT:** intensive archaeological survey, on **federal land surface**, of the Ray Westall Trig Federal Well No. 7 (400 ft. sq., 3.67 acres) and 2 access road R's/W (totalling 532 ft. long & 100 ft. wide, 1.22 acres). A total **federal land surface of 4.89 acres** was inspected for cultural remains.

Archaeological survey did **not** reveal any cultural resources. Therefore, archaeological **CLEARANCE** for the Trig Federal Well No. 7 and 2 access road R's/W is **RECOMMENDED**.

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

**3. PROJECT DESCRIPTION:** well pad (400 ft. sq., 3.67 acres) and 2 access road R's/W (totalling 532 ft. long & 100 ft. wide, 1.22 acres). A total **federal land surface of 4.89 acres** was inspected for cultural remains.

**TOPOGRAPHY:** the proposed Trig Federal Well No. 7 and 2 access road R's/W are situated ca. 700 ft. northwest of the Nimenim Ridge escarpment, on the south/southeastern edge of a large NE/SW trending, enclosed sunken basin, which collects runoff from Nimenim Ridge and the Loco Hills, ca. 1.75 miles to the northwest. Relatively shallow, headward eroding, arroyos occur in the well pad and 2 access road R's/W. **Soils:** Simona-Bippus complex soils occur in the area, with mixed soils, caliche, limestone, & sandstone float. **Permanent Water:** Pecos River, ca. 21 miles west. **Potential Water:** The well pad and 2 access road R's/W are within the boundaries of a large enclosed sunken basin, the deepest point of which is ca. 1300 ft. north. Walters Lake is ca. 1.75 miles north. **Elevation:** between 3416 ft. & 3428 ft. msl. **Slope:** between 0.82 degrees and 1.74 degrees. **Aspect:** Northwest.

**VEGETATION:** Grassland Formation, scrub-grass scrub disclimax community.

**4. EXAMINATION PROCEDURE:** straight and zig-zag transects, spaced no greater than 10 metres apart. Ca. 1.0 manhours on ground. Well centre/corners & access road centrelines staked by client.

**VISIBILITY:** ground, ca. 65%; weather, sunny.

**5. FINDINGS:** BLM records (Kayser, 2/04/88) do not indicate the prior recording of archaeological sites within Section 35 (T18S, R30E).

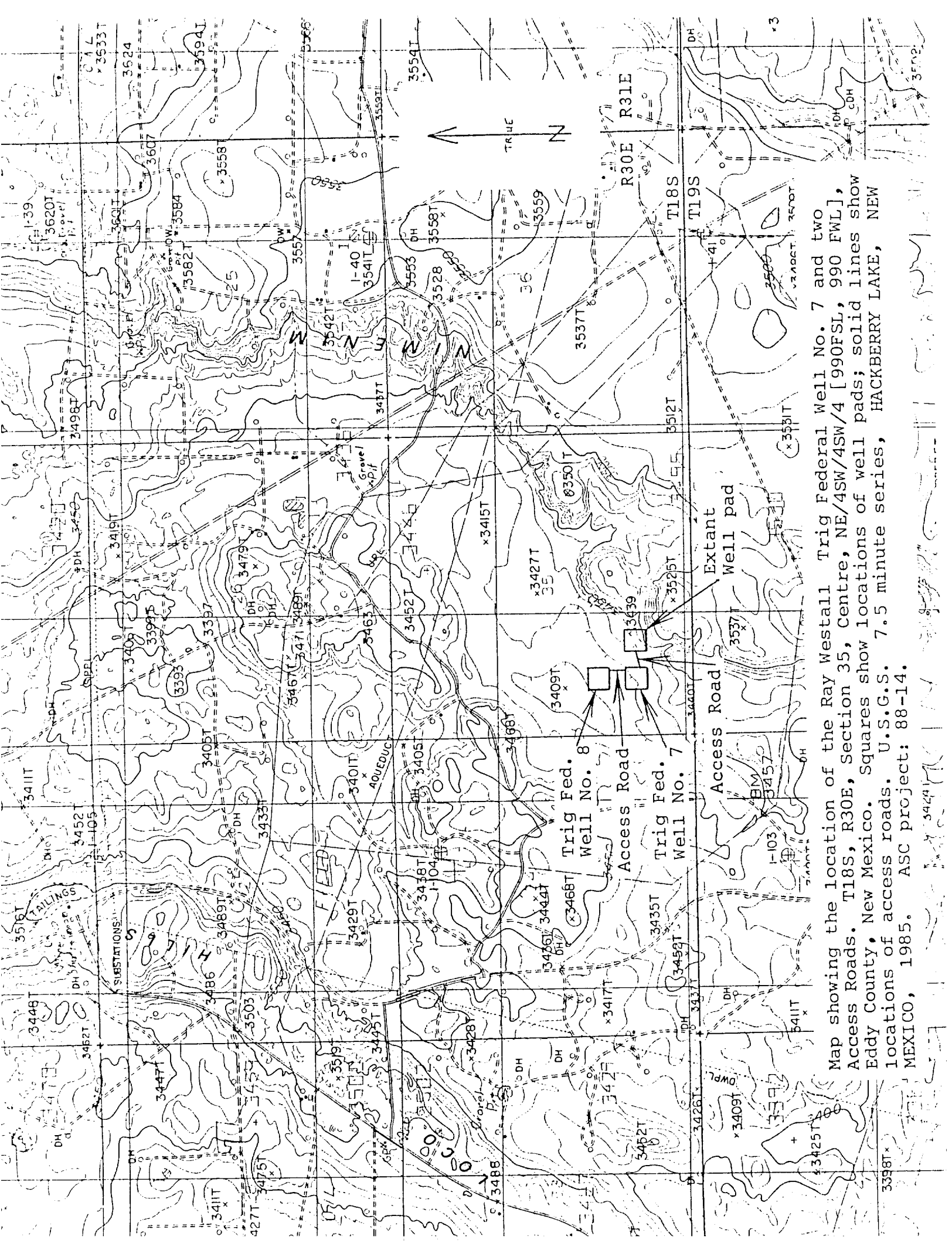
Archaeological survey of the proposed Ray Westall Trig Federal Well No. 7 and 2 access road R's/W did **not** reveal any cultural resources.

**6. RECOMMENDATIONS:** In light of the absence of cultural resources, archaeological **CLEARANCE** for the Ray Westall Trig Federal Well No. 7 and 2 access road R's/W, on **federal land surface**, is **RECOMMENDED**.

Date of Examination: February 12, 1988.

Project Archaeologist: 

Principal Investigator: 



Map showing the location of the Ray Westall Trig Federal Well No. 7 and two Access Roads, T18S, R30E, Section 35, Centre, NE/4SW/4 [990FSL, 990 FWL], Eddy County, New Mexico. Squares show locations of well pads; solid lines show locations of access roads. U.S.G.S. 7.5 minute series, HACKBERRY LAKE, NEW MEXICO, 1985. ASC project: 88-14.