



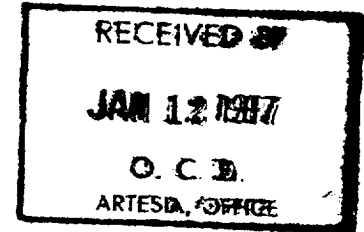
United States Department of the Interior
BUREAU OF LAND MANAGEMENT

Box 1397, Roswell, New Mexico - 88201

IN REPLY
REFER TO:

2247.41 (001)

JAN 9 1987



Ray Mastall
P. O. Box 4
Leco Hills, NM 88155

Re: Notification:

Your application for permit to drill well No. 4 (Trigo Federal) in the SE 1/4, Sec. 16, T. 12 S., R. 30 E., Eddy County, New Mexico, Lease NM-06248, to a depth of 2,100 feet to test the Grayburg formation in the oil-potential 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 and consenting operations.

Sincerely,

(ORIG. SGD.) JOE G. LARA

FOR Francis E. Cherry, Jr.
District Manager

Enclosure

cc:

1 NMCGD - 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

2. NAME OF OPERATOR

Ray Westall

3. ADDRESS OF OPERATOR

Box 4 Loco Hills, NM 88248

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

At surface

1225 FSL 2450 FWL

1210

2600

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'

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

3800'

17. NO. OF ACRES ASSIGNED
TO THIS WELL

40

20. ROTARY OR CABLE TOOLS

Rotary

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

3480 GR 3463

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#	425'	Circulate
12 1/4"	8 5/8"	24#	1700'	Circulate
7 7/8"	5 1/2"	17#	3800'	Production CIRCULATE

We propose to drill and test the Grayburg and intermediate formations. Approximately 425' 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.

Posted ID-1
NL, API
1-16-87

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

11-18-86

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

Subject to
Like Approval
by StateAPPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS
ATTACHED

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form C-102
Revised 10-1-78

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

Operator Ray Westall ✓			Lease Trigg Federal			Well No. 4		
Unit Letter N	Section 35	Township 18 South	Range 30 East	County Eddy				
Actual Footage Location of Well: 1210 feet from the South line and 2600 feet from the West line								
Ground Level Elev. 3463	Producing Formation Grayburg		Pool Und. 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.

RECEIVED BY

JAN 12 1987

O.C.D.
ARTESIA, OFFICE

CERTIFICATION

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

Name
Ray WestallPosition
OperatorCompany
Ray Westall OperatorDate
December 16, 1986

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.

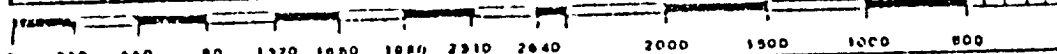
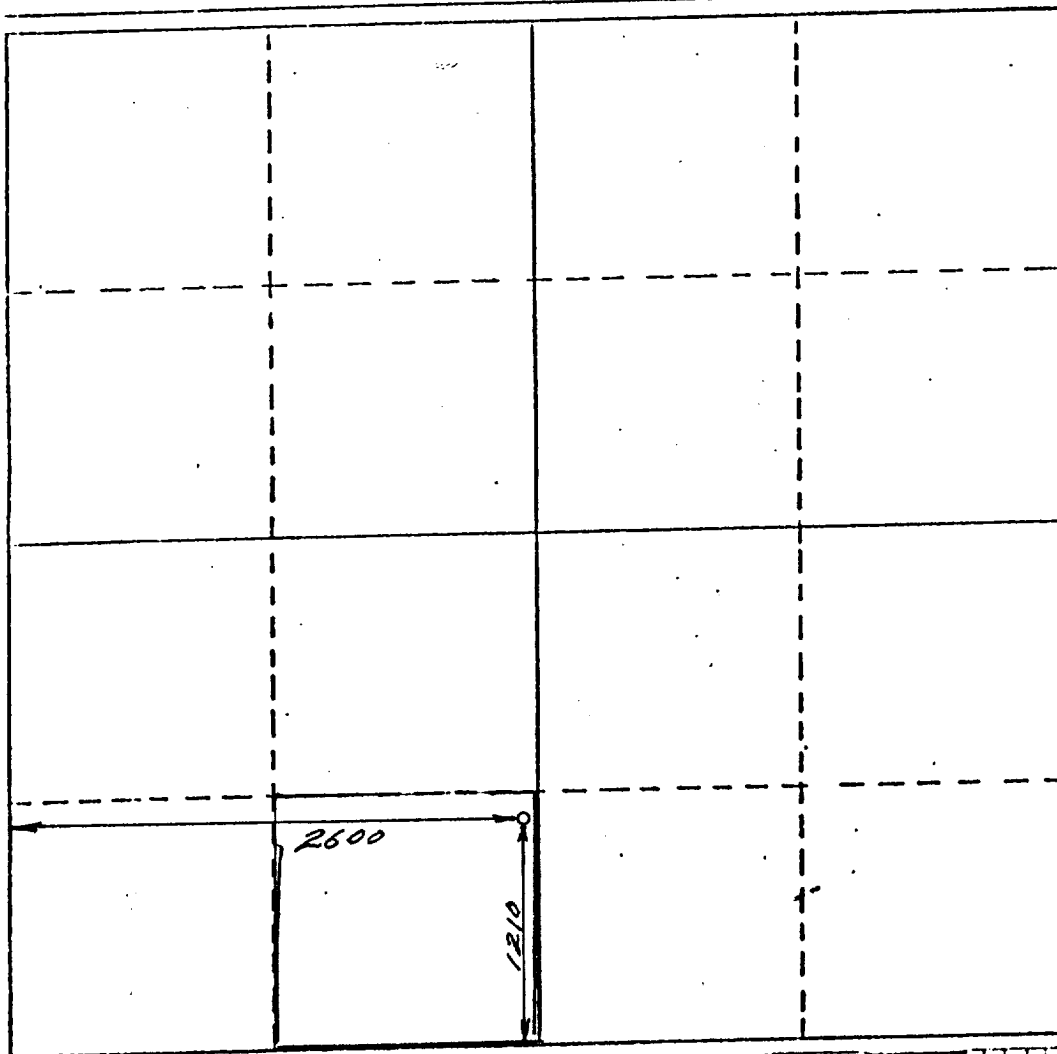
13 December 1986

Date Surveyed

P. R. Patton
Registered Professional Land Surveyor
and/or Land Surveyor

8112

Certificate No.



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):

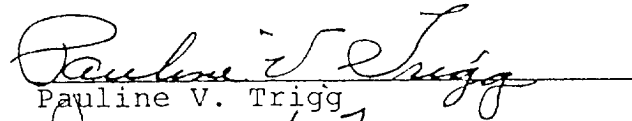
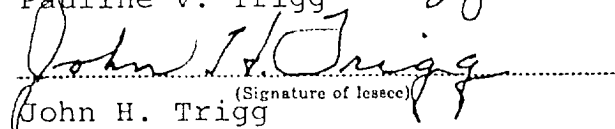
Township 18 South, Range 30 East, N.M.P.M.

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.

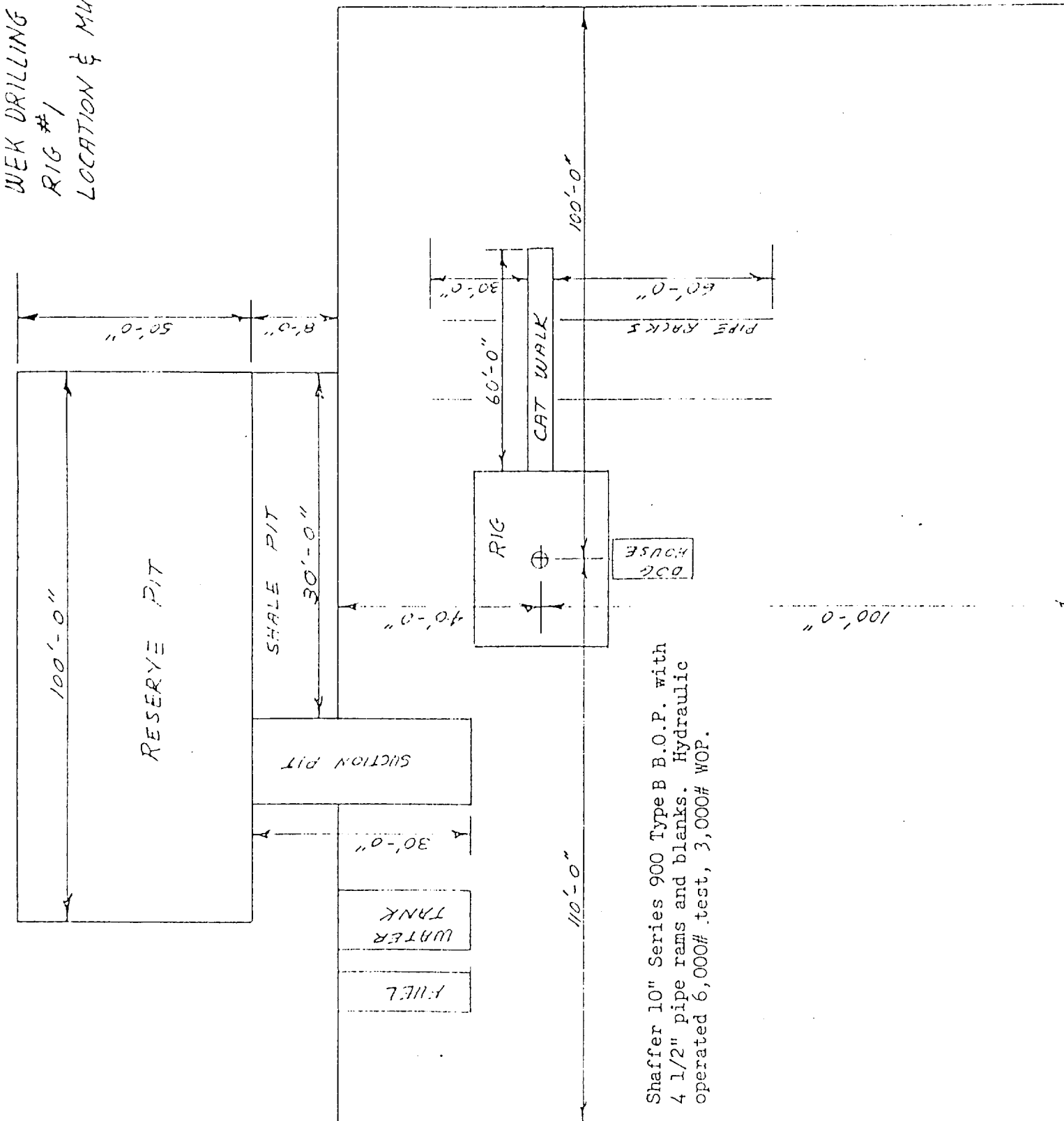
The lessee agrees promptly to notify the supervisor of any change in the designated operator.


Pauline V. Trigg

John H. Trigg (Signature of lessee)

May 3, 1985
(Date)

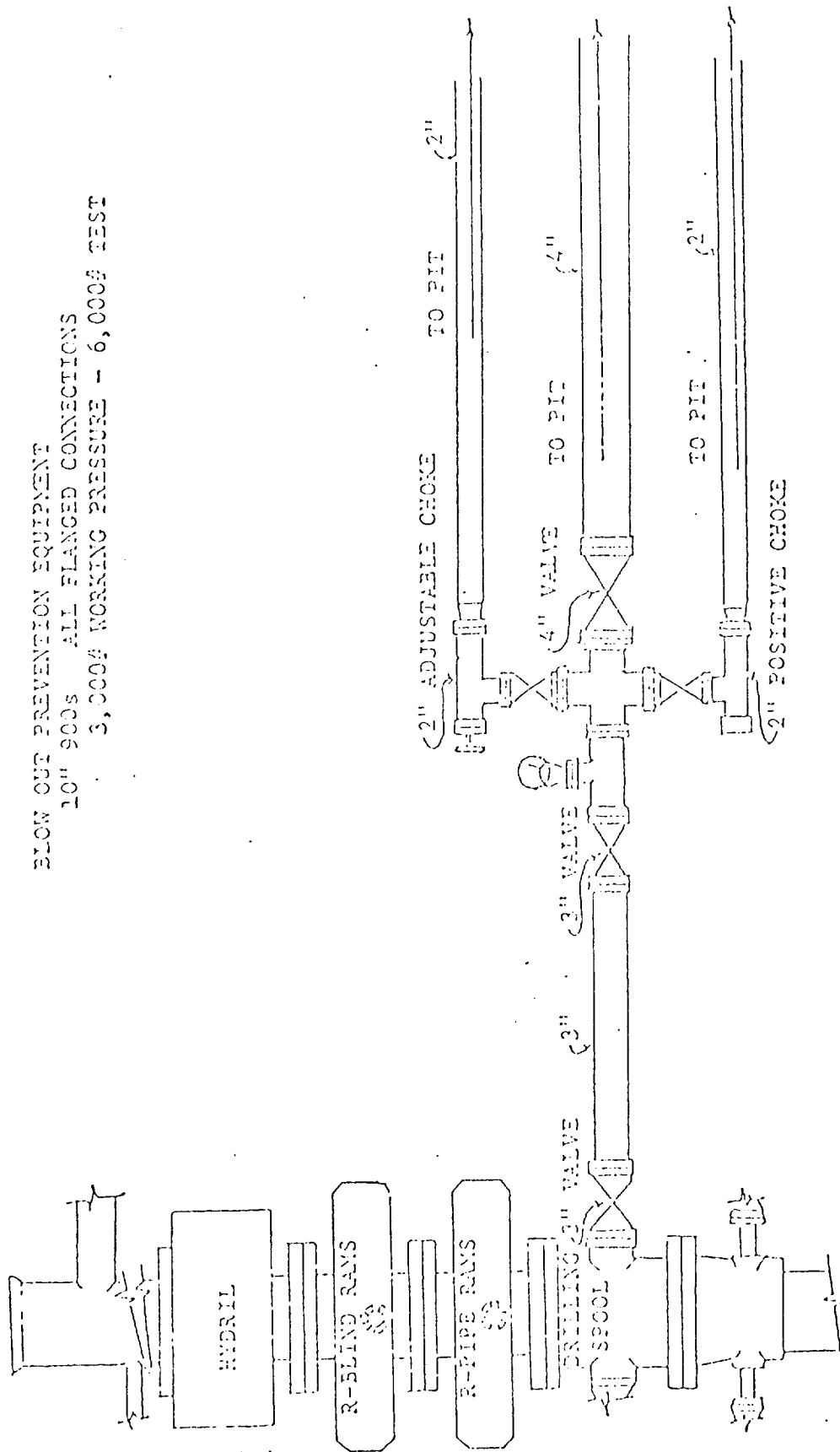
201 East Hobbs, Roswell, NM 88201
(Address)

WEK DRILLING CO., INC.
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

ATTACHMENT TO FORM C-101

Ray Westall

APPLICATION FOR DRILLING

Ray Westall
Trigg Federal #1
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
-------	-----

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.

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 wellsite 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.

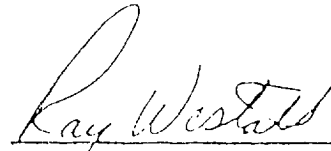
12. OPERATOR'S REPRESENTATIVE.

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

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

A handwritten signature in cursive script, reading "Ray Westall", is written over a horizontal line.

Ray Westall, Operator

ARCHAEOLOGICAL SURVEY of the RAY WESTALL
TRIG FEDERAL WELL NO. 4 RELOCATION & ACCESS ROAD R/W
FEDERAL LAND SURFACE
T18S, R30E, SECTION 35, NE/4NE/4SE/4SW/4
[1225 FSL, 2450 FWL], EDDY COUNTY, NEW MEXICO

ASC Report 86-74

by James V. Sciscenti, Principal Investigator

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

PERMIT NO.: 18-2920-84-B

November 12, 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 the
Department of the Interior
Bureau of Land Management
Roswell District, New Mexico

ASC PERMIT NO.: 18-2920-84-B
ASC Job No.: 86-74 [Ray Westall TRIG FEDERAL WELL NO. 4
RELOCATION & Access Road R/W

1. **ABSTRACT:** **intensive** archaeological survey, on **federal land surface**, of the Ray Westall TRIG FEDERAL WELL NO. 4 RELOCATION (340 ft. sq., 2.7 acres) and access road R/W (360 ft. long & 50 ft. wide, 0.41 acres). A total **federal land surface** of **3.11 acres** was inspected for cultural remains.

Archaeological survey did not reveal any cultural resources. Therefore, archaeological **CLEARANCE** for the TRIG FEDERAL WELL NO. 4 RELOCATION and access road is **RECOMMENDED**.

2. **WELL PAD LOCATION:** T18S, R30E, Section 35, NE/4SE/4SW/4; NW/4SW/4SE/4; SE/4NE/4SW/4; SW/4NW/4SE/4 (1225 FSL, 2450 FWL), Eddy County, New Mexico. **ACCESS ROAD R/W:** T18S, R30E, Section 35, NW/4SW/4SE/4. Eddy County, New Mexico.

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

3. **PROJECT DESCRIPTION:** well pad, 340 ft. sq., 2.7 acres; access road R/W, 360 ft. long X 50 ft. wide, 0.41 acres. A total **federal land surface** of **3.11 acres** was inspected for cultural resources.

TOPOGRAPHY: the proposed TRIG FEDERAL WELL NO. 4 RELOCATION and access road R/W are situated on Nimenim Ridge to the north and east of a major W/NW trending draw/canyon. 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. A minor amount of wind-blown sand deposits occur on a saddle to the southeast of the well pad, in the area traversed by the access road. Caliche float is common throughout much of the well pad area.

The terrain within the western, and northwestern part of the well pad, drains towards an enclosed sunken basin, ca. 1200 ft. to the northwest. Relatively steep, headward eroding, arroyos occur at the Nimenim Ridge escarpment. The southeast and northeast quadrants of the well pad, and the access road, slope to the southeast into a shallow draw, which trends east/northeast towards a major draw/canyon cutting the Nimenim Ridge escarpment.

3. PROJECT DESCRIPTION:

VEGETATION: creosote bush, catclaw, prickly pear, javalina bush, & snakeweed dominant on the Nimenim Ridge. A shallow deposit of sand in a saddle, and a northeast sloping area on Nimenim Ridge support thick stands of mesquite, buckwheat, croton, & three-awn. The canyon/draw area supports catclaw, creosote, rare grasses, and snakeweed. GROUND VISIBILITY: ca. 75%.

4. EXAMINATION PROCEDURE: parallel and zig-zag transects. Ca. 3.5 manhours on ground.

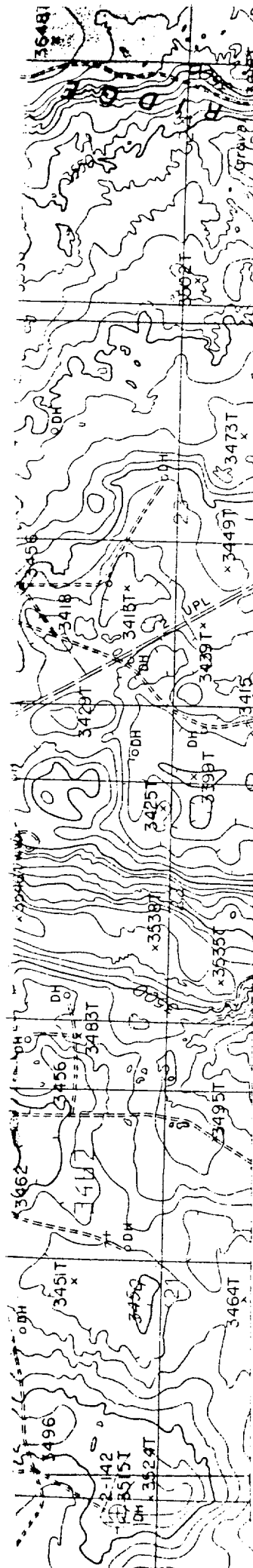
5. FINDINGS: BLM records do not indicate the prior recording of archaeological sites within Section 35 (T18S, R30E). Two Isolated Finds have been recorded to the north of the proposed Trig Federal Well No. 4. (see ASC Report 85-68, & 85-139, on file).

Archaeological survey of the proposed Ray Westall Trig Federal Well No. 4 Relocation 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 NNO. 4 RELOCATION and access road, on **federal land surface**, is RECOMMENDED.

Date of Examination: November 11, 1986.

Principal Investigator: J.V. Scurati



Map showing the location of the Ray Westall Trig Federal Well No. 4 Relocation and Access Road, T18S, R30E, Section 35, NE1/4NE1/4SW1/4 [1225 FSL, 2450 FWL], Eddy County, New Mexico. Black square shows location of relocated well pad; solid line shows location of access road. U.S.G.S. 7.5 minute series, HACKBERRY LAKE, NEW MEXICO, 1985.

