N. M. Oil Conv. Division

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TYPE OF WELL OIL WELL X	GAS WELL OTHER		ZONE X	MULTIPLE ZONE	8. FARM OR LEASE NAME, SANTA F	WELL NO. E FEDERAL #11	
AME OF OPERATOR	18852		THE AU OF LAND N	IGMT. E AREA	9. APLWELL NO. 30 -015	- 3/630	
DDRESS AND TELEPHONE	NO. NM 88255 (506)677-237	n			10. FIELD AND POOL, OR W	/ILDCAT ADURA BEND DELAWAF	
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T SURFACE	2 (60 -2310 FNL 8.1	650' FEL	r e		AND SURVEY OR AREA SEC. 35	T-22-S R-28-E	
AT PROPOSED PROD. ZONE	SAME		OUNTED ARTES		12 COUNTY OR PARISH EDDY	13. STATE NEW MEXICO	
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PROPERTY OR LEASE LINE	ξ, FT.						
(Also to nearest drig. unit ili	ne, if any)	1650'	360		40		
DISTANCE FROM PROPOSE	ED LOCATION		19. PROPOSED DEPTH	20. F	OTARY OR CABLE TOOLS		
TO NEAREST WELL DRILLI	ING, COMPLETED,	100	6400'		RT		
OR APPLIED FOR, ON THIS		420	6400	l	APPROX. DATE WORK WIL	LL START	
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		PROPOSED CASI	NG AND CEMENTING PRO	GRAM			
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TITLE 18 U.S.C. SECTION 1001, MAKES IT A CRIME FOR ANY PERSONS KNOWINGLY AND WILLFULLY TO MAKE TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES ANY FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS OR REPRESENTATIONS AS TO ANY MATTER WITHIN ITS JURISDICTION

/S/LARRY D Shay

APPROVED BY

District I PO Box 1980, Hobbs, NM \$8241-1980 District [] PO Drawer DD, Artesia, NM \$5211-0719

State of New Mexico Energy, Minerals & Nathers Resources Department

Form C-102 Revised February 10, 1994 Instructions on back e

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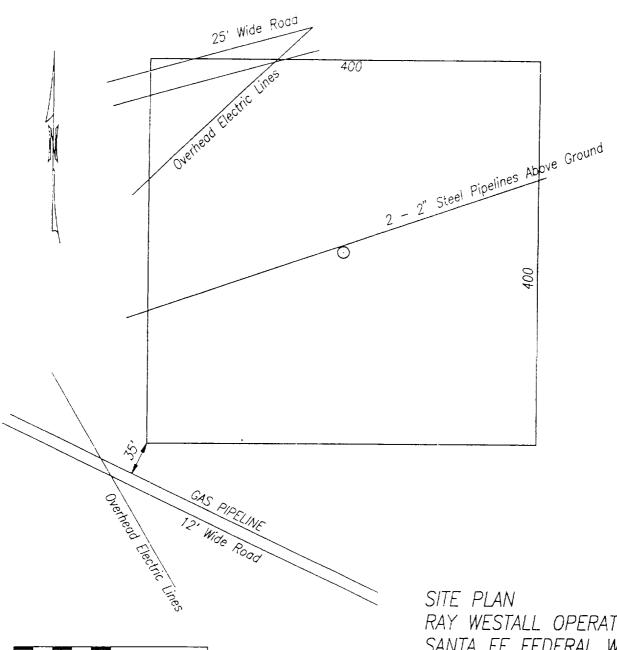
OIL CONSERVATION DIVISION

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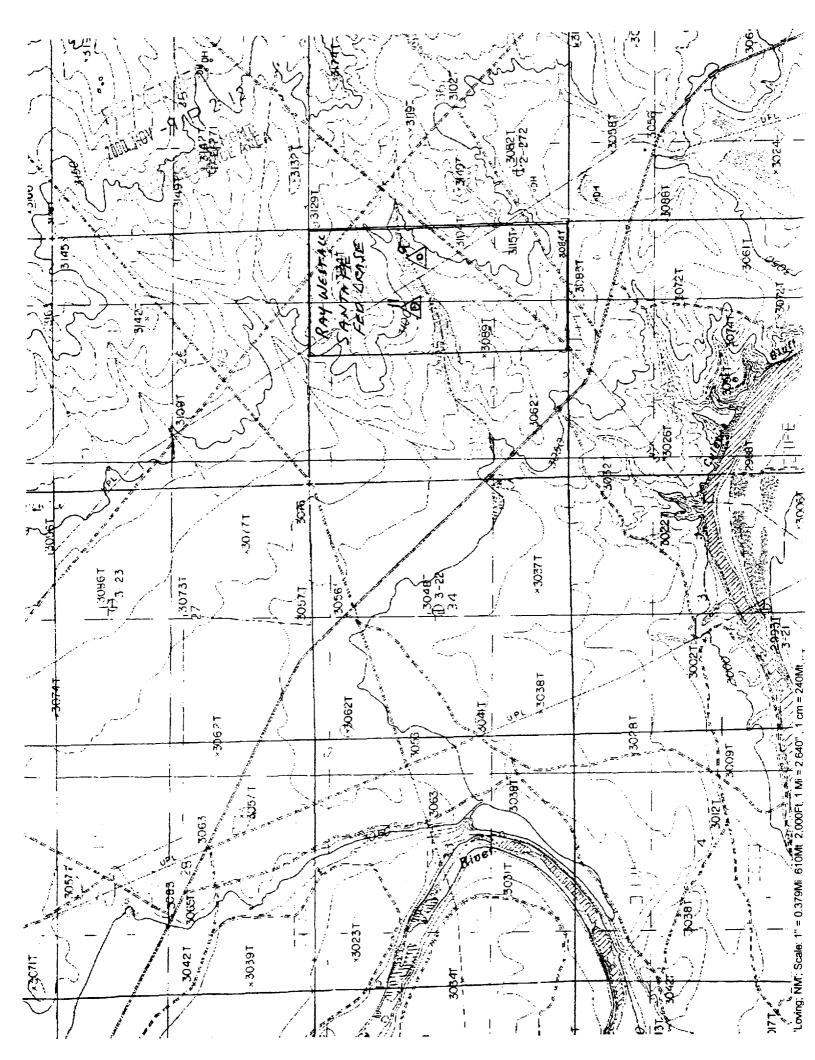
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SITE PLAN
RAY WESTALL OPERATING
SANTA FE FEDERAL WELL No. 11
2160 FNL 1650 FEL
SEC. 35, T22S, R28E
EDDY Co., NM



APPLICATION FOR DRILLING

Ray Westall
Santa Fe Federal No. 11
2310' FNL & 1650' FEL
Section 35
Township 22 South, Range 28 East
Eddy County, New Mexico

In conjunction with Form 3160-3, Application for Permit to Drill, 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:

Bell Canyon 2800' Cherry Canyon 3750' Brushy Canyon 4800' Bone Springs 6325

3. The estimated depths at which anticipated water, oil & gas formations are expected to be encountered:

Water 0-180' Oil & Gas Zones 2800-6325

- 4. Proposed casing program: See 3160-3
- 5. Pressure Control Equipment:

A 900s BOP will be installed on the 8 5/8" casing and tested prior to drill out.

Mud Program:

Fresh water in surface hole. Brine in production hole.

- 7. Auxiliary Equipment: None
- 8. Logging Program: CNL/FDC/GR, DLL.
- 9. No abnormal pressures or temperatures are anticipated. Estimated BHP is 3100#, Estimated BHT is 125 F.
- 10. Anticipated Starting date: 01/01/01

Duration: 12 Days drilling

5 Days completion

MULTI-POINT SURFACE USE AND OPERATIONS PLAN

RAY WESTALL SANTA FE FEDERAL NO. 11

This plan is submitted with form 3160-3, 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 cam 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.

2. Planned Access Road.

Approximately 120' of new road will be constructed north of existing pipeline road.

3. Location of Existing Wells.

Exhibit B is a topo map showing the existing wells.

4. Location of existing/or proposed facilities:

If productive a 3" SDR 7 poly line will be laid along existing ROW to the battery located on the Santa Fe Federal #1 location. A 4 phase power line and poles will be routed along the existing ROW paralleling the road.

5. Location and Type of Water Supply.

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

6. Source of Construction Materials.

The location and road will be from pit excavation and or will be hauled in from an approved caliche pit.

- 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 operations will be stored in reserve pits until dry.
 - D. Oil produced during operations 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 stored in a wire cage preventing blowing or scattering by the wind. After drilling and completion all waste will be removed to an approved site.

8. Ancillary Facilities

None required.

9. Wellsite Layout.

Exhibit C shows the relative location and dimensions of the well pad, the reserve pit, a 400' X 400' area has been staked and flagged.

10. Plans For Restoration of The Surface.

- A. After finishing drilling and 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 and leveled within 90 days after abandonment.

11. Other Information:

- A. Topography: The land surface in the vicinity of the Wellsite is sandy loam with caliche hills and outcrops.
- B. Flora and Fauna: the vegetation cover consists of prairie grass, greasewood and miscellaneous desert growth. No wildlife was observed, but 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 is federal.
- F. Evidence of archeological sites has been reported and previously filed by Archaeological Survey Consultants.

12. Operator's Representative:

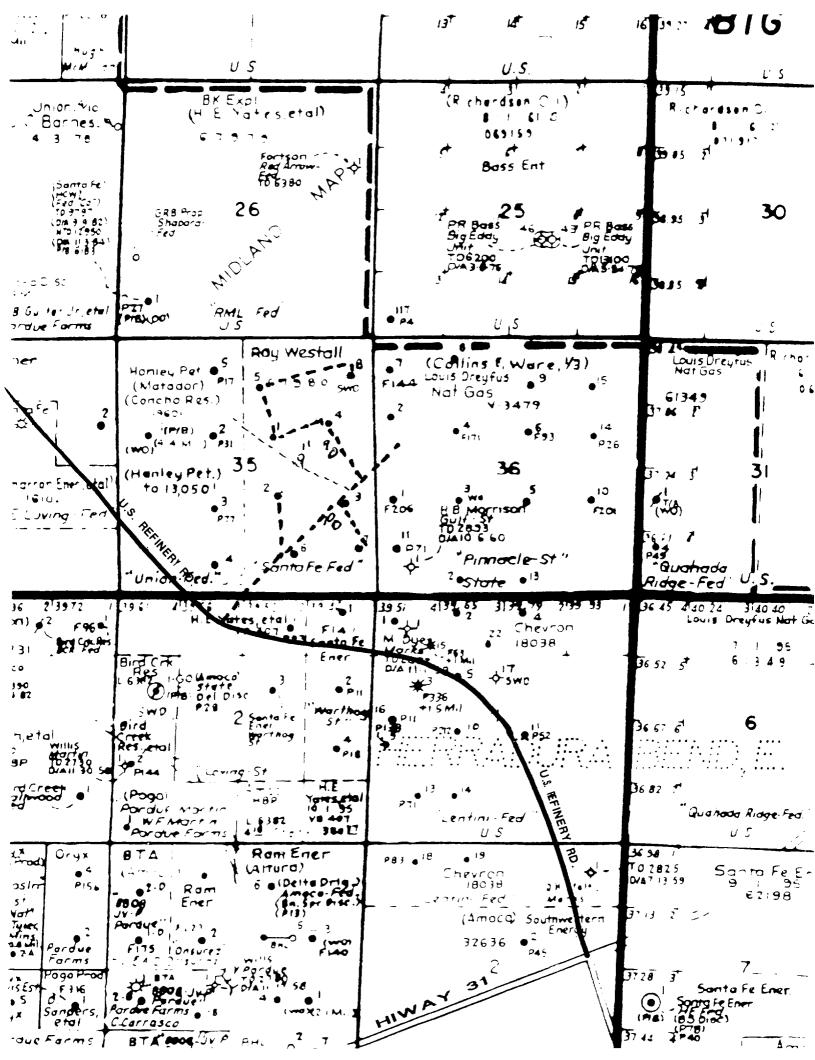
Ray Westall P.O. Box 4 Loco Hills, NM 88255 (505) 677-2370

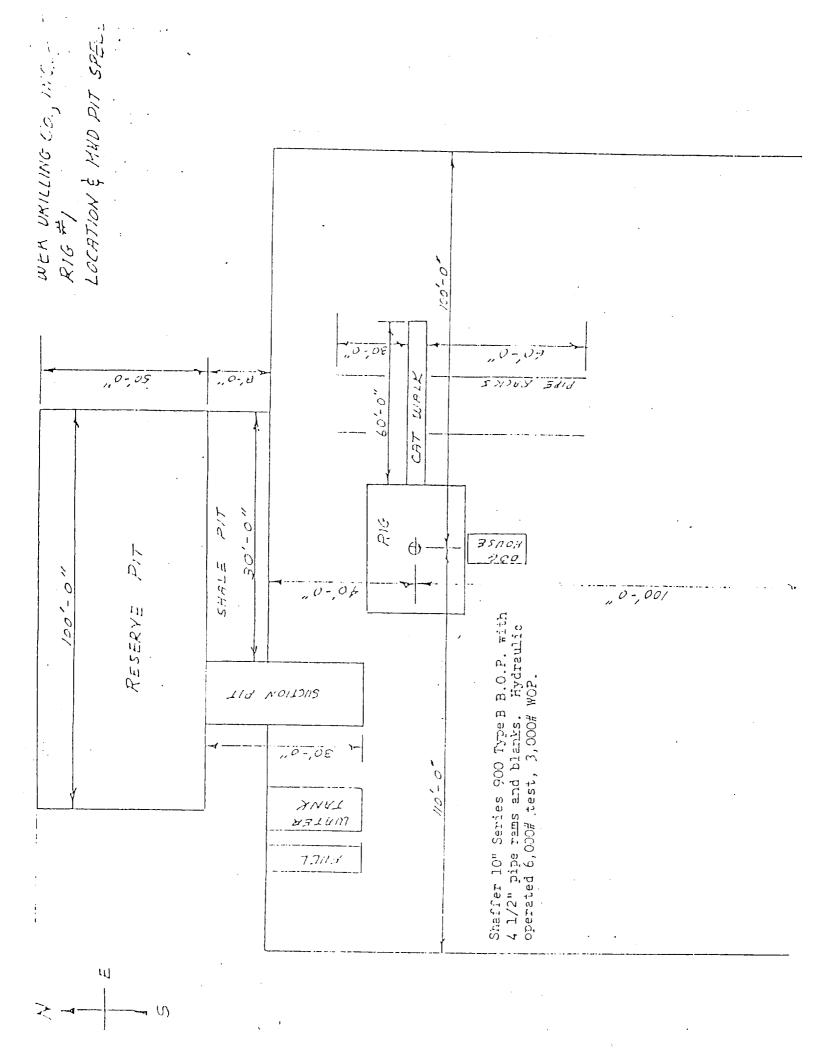
13. Certification:

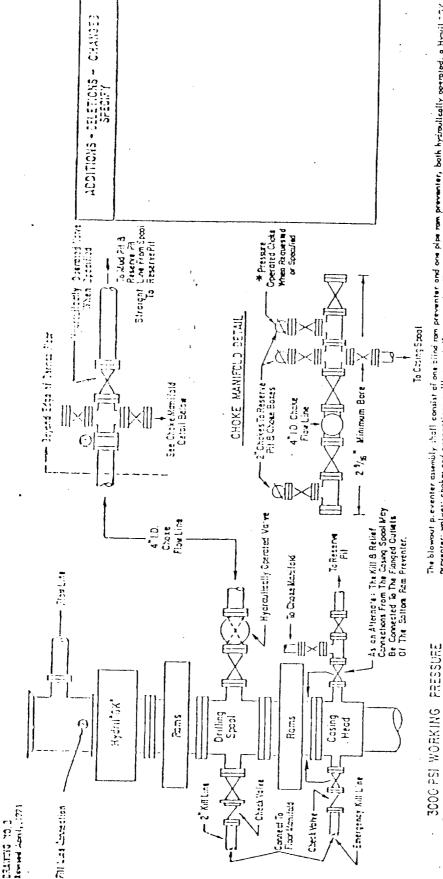
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route, that I am familiar with the conditions which presently exist; that the statements made in this plan are to the best of my knowledge true and correct; and that the work associated with the operation proposed herein will be performed by the operator and its' subcontractors in conformity with this plan and the terms and conditions under witch is approved

Randall L. Harris

Geologist







pipe. Casing and twing rows to fit the preventers on to be ovailable as needed. If correct in size, the flanged culists of the ram preventer may The blowout preventer assembly shall consist of one blind ran preventer and one plac ran preventer, both hyppulically operated, a Hysis 155 preventer; volves; chakes and connections as Harrased. If a topesed drill string is used, a non preventer must be provided for each size of assist be used for connecting to the 4-inch 1.D. choke flow the and kill line, except when old or gos drilling. The abstracture height shall be sufficient to install a rotating blowout preventer.

BLOWOUT PREVENTER HOOK-UP

Minimum operating equipment for the preventers and implemitedly operated valves hall be as follows: (1) Multiple pumps, driven by a cardinum ou source of power, coppie of fluid charging the total accomulator volume from the altragen precharge presure to its raied presure within

minutes. Also, the purps are to be connecred to the hydroulic operating system which is to be a closed system. (2) Accommission with occumulated must be sufficient to close all the pressure-postated devices simultaneously within recovary the remaining accumulator pressure wall be not less than 1000 851 with the remaining accumulator finial volume at least persent of the original. (3) When solves or estitional source of power, remained and equivalent, is to be evaluate to operate the observe a precionge of nitrogen of not less than 750 PSI and connected to as to receive the aforential edition of fluid contested fluid value at some time stored in the perior, or there shall be additional pumps operated by security power and equal in personnance repossibilities.

The clasing monifold and remote closing monifold shall have a separate control for each pressure-operated device. Controls are to be loveled, with control handles indicating open and clased positions. A persone and regulator must be provided for operating the Hydrill preventer. When requested, a second pressure reducer shall be ovaliable to limit operating fluid pressures to nampervenent.

The choire manifold, chaire flow line, and choire lines are to be supported by metal stanct and adequately anchored. The choire flow line and chaire that it be countrated as straight as possible and without thore bench. Easy and sole occess it to be maintained to the choke monifold. All volves are to be selected for operation in the presence of oil, par, and drilling fouls. The choice flow line values connected to the drilling social and all ram type preventers must be equipped with stem extension, universal joints if needed, and wheels which are be extend beyond the ciga of the derrick aubstructure. All other valves are to be equipped with handles.

* To include deritck floor mounted controls.

RAY WESTALL OPERATING

HYDROGEN SULFIDE DRILLING PLAN

1. HYDROGEN SULFIDE TRAINING

All personnel that are connected with the drilling or completion of a well within a known H2S area will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well:

- A. The hazards and characteristics of hydrogen sulfide.
- B. The proper use of personal protective equipment and life support systems.
- C. The proper use of H2S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.

There will be an initial training session just prior to encountering a known or probable H2S zone (within 3 days) and weekly H2S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H2S Drilling Plan. This plan shall be available at the well site. All personnel will be required to carry documentation that they have received the proper training.

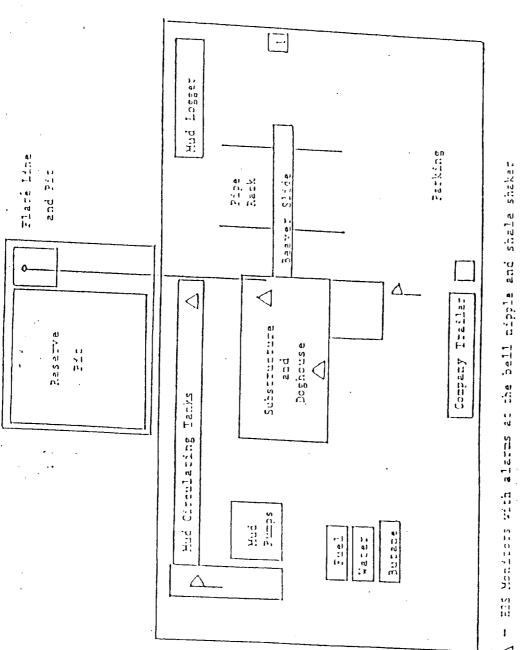
2. H2S SAFETY EQUIPMENT AND SYSTEMS

All H2S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonably expected to contain H2S.

A. Well Control Equipment:

- a. Choke manifold with a minimum of one remote choke.
- b. Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit.

- B. Protective equipment for essential personnel:
 - a. Mark II Surviveair 30 minute units located in the dog house and at briefing areas, as indicated on well site diagram.
- C. H2S detection and monitoring equipment:
 - a. Two portable monitors positioned on location for best coverage and response. These units have warning lights and sirens when high levels of H2S is detected.
- D. Visual warning systems:
 - a. Wind direction indicators as shown on well site diagram.
 - b. Caution/Danger signs shall be posted on roads providing direct access to location.
- E. Mud program:
 - a. There is no known high pressure in this drilling area or known high concentrations of H2S that would necessitate any special drilling fluids.
- F. Metallurgy:
 - a. All drill stings, casings, tubing, wellhead, blowout preventers, drilling spool, kill lines, choke manifold and lines and valves shall be suitable for H2S service.
- G. Communication:
 - a. Radio communications in company vehicles including cellular telephone and 2-way radio.
- II. Well testing:
 - a. There will be no DST's on this well.



Safe Professor grazs with ceution signs and profescive breathing equipment - Wind Direction Indicators