| Form 3160-3 (July 1992) | | | | I. OGRIÐ MO. | - · · · | ~ | | | |
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| Form 3160-3 (July 1992) Ray Westall | | | STA PROP | PERTY NO. | 18647 | ्र २३ म | | | |
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| 5. TYPE OF WELL OIL | GAS | | | SINGLE | MULTIPLE | | S. FARM OR LEASE NAME. W | | |
| WELL X | WELL | OTHER | | ZONE X | ZONE | П | Gunsmoke I | | |
| 2. NAME OF OPERATOR | | <u></u> | | · | | | 9. API WELL NO. | | |
| Ray Westall | | | | | ····· | | | | |
| 3. ADDRESS AND TELEPHONE P.O. Box 4, Loco Hills, NN | 3. ADDRESS AND TELEPHONE NO. 10. FIELD AND POOL, OR WILDCAT P.O. Box 4, Loco Hills, NM 88255 505-677-2370 Creat Horse Delaware | | | | | | | | |
| 4. LOCATION OF WELL (REPOR | | | CORDANCE WITH | | MENTS) | | Crazy Horse 11. SEC., T., R., M., OR BLK | Delaware | |
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| 15. DISTANCE FROM PROPOSI | ED | | | 16. NO. OF ACRES IN | LEASE | 17. NO | . OF ACRES ASSIGNED | | |
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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 .



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District I PO Box 1980, Hobbs, NM 38241-1980 District II PO Drawer DD, Artenia, NM 38211-0719 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV PO Box 2083, Santa Fe, NM 87504-2083 State of New Mexico Energy, Minerais & Natural Resources Department

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Form C-102 Revised February 10, 1994 Instructions on back Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

AMENDED REPORT

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| L | 18862 Ray Westall, Operator | | | | | | 3615 | |
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APPLICATION FOR DRILLING

Ray Westall Gunsmoke Federal #2 660' FNL & 1980' FEL Section 24 Township 19 South, Range 32 East Lea 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. Geological surface formation:

Quaternary.

2. Estimated tops of geologic markers are as follows:

| Yates | 3470 |
|--------------|------|
| Delaware | 5800 |
| Bone Springs | 7650 |

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

Water Quaternary: 0-180'

Oil and Gas Delaware: 5800-7550'

 Casing program: All casing will be new

| Hole Size | Interval | Casing |
|-----------|-----------|-----------------------|
| 17 1/2" | 0-500' | 13 3/8" 48# H-40 ST&C |
| 11" | 500-2950' | 8 5/8" 32# J-55 ST&C |
| 7 7/8" | 2950-TD | 5 1/2" 17# J-55 ST&C |



Cement Program:

- 13 3/8" Cemented to surface with 350 sxs "C" with 2% CaCl + 1/4 lb/sk Cellophane Flakes.
- 8 5/8" Cemented to surface with 500 sxs "C" with 5 lb/sk NaCl + 1/4 lb/sk Cellophane Flakes + 2% CaCl.
- 5 1/2" Cemented to tie back to 8 5/8" casing 1st stage with 700 sxs "H" 2% CaCl, 2nd stage 500 sxs "C" lite 2% CaCl. With DV Tool @ 6500'.
- 5. Pressure Control Equipment:

The blowout preventor equipment (BOP) whown in Exhibit #1 will consist of a 3M system double ram type (3000 psi WP) preventor. The BOP will be installed on the 13 3/8" surface casing and utilized continuously until total depth is reached. Prior to drilling out the casing shoe, the BOP will be function tested.

6. Mud Program:

| Depth | Туре | Weight | Viscosity |
|----------|-------------|--------|-----------|
| 0-500' | Fresh Water | 8.4 | 31-33 |
| 500-2950 | Brine Water | 10.0 | 30 |
| 2950-TD | Cut Brine | 8.8 | 29-30 |

7. Auxiliary Equipment:

A kelly cock will be in the drill string at all times.

8. Logging Program:

No drillstem tests are planned.

DLL-Gr., Caliper TD to Intermediate casing,

CNL/FDC-Gr. and Caliper TD to Intermediate casing

CNL/GR TD to surface.



9. Abnormal Pressures, Temperatures and Potential Hazards:

No abnormal pressures or temperatures are anticipated. Estimated BHP is 3500#, Estimated BHT is 116.F. An H2S Drilling Operations Plan is included. No major loss circulation intervals have been encountered in adjacent wells.

10. Anticipated starting date:

As soon as possible.

Duration:

12 days drilling 15 days completion



MULTI-POINT SURFACE USE AND OPERATIONS PLAN

RAY WESTALL GUNSMOKE FEDERAL #2

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 can be made of the environmental effect associated with the operation.

- Existing Roads. Exhibit A is a portion of a county road map showing the roads in the vicinity of the proposed location.
- 2. Planned Access Road. Approximately 1650'of Access road is needed starting on the Gunsmoke Federal #3 Location and going North.

Directions:

Proceed west from Loco Hills to state road 529. Go east approximately 7 miles, turn south on county road 126 for 09 miles, turn east on caliche road 5.0 miles, South 1 mile, west 1/2 mile, south to Gunsmoke Fed. #4. West to Gunsmoke #3, the new road will start and go north 1650' to location.

- 3. Location of Existing Wells. Exhibit B is a topo map showing the existing wells and staked locations.
- 4. Location of Existing/or proposed Facilities: If productive a 3" SDR 7 poly line will be laid along existing ROW the battery located on the Gunsmoke Federal No.1 location. A 4 phase power line and poles will be routed along the existing ROW parallelling 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 hauled in from an approved caliche pit.
- 7. Methods of Handling Waste Disposal.
 - Drill cuttings will be disposed of in the reserv Α.
 - Β. Drilling fluids will be allowed to evaporate in reserve pits until the pits are dry.
 - С. Produced water during operations will be stored reserve pits until dry.
 - Oil produced during operations will be stored in D. until sold.
 - Ê. Current laws and regulations pertaining to the disposal of human waste will be complied with.
 - Trash, waste paper, garbage and junk will be sto a wire cage preventing blowing or scattering by F. wind. After drilling and completion all waste w removed to an approved site.
- 8. Ancillary Facilities None required.
- 9. Wellsite Layout. Exhibit C shows the relative location and dimens the well pad, the reserve pits, a 400' X 400' ar been staked and flagged.
- 10. Plans For Restoration of The Surface.
 - Α. After finishing drilling and completion operatio equipment and other material not needed for furt operations will be removed. The location will b cleaned of all trash and junk to leave the wells as aesthetically pleasing a condition as possibl Unguarded pits, if any containing fluids will be
 - Β. until they have been filled.
 - С. If the proposed well is non-productive, all rehabilitation and or vegetation requirements of BLM and USGS will be complied with and will be accomplished as expeditiously as possible. All will be filled and leveled within 90 days after abandonment.



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- 11. Other Information:
 - A. Topography: The land surface in the vicinity of the wellsite is sandy loam soil.
 - 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 it's subcontractors in conformity with this plan and the terms and conditions under which is approved.

Randall

















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To include derrick 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:

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- 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.
- H. Well testing:
 - a. There will be no DST's on this well.





- Safe Briefing areas with caution signs and protective breathing equipment tin. To feet from wellhead, I designates primary area

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