Hydrogen Sulfide Drilling Operations Plan

Mewbourne Oil Company

Federal "V" #5H 330' FNL & 1980' FWL (SL) Sec 8-T20S-R28E

Eddy County, New Mexico

30-015-38374

1. General Requirements

Rule 118 does not apply to this well because MOC has researched this area and no high concentrations of H2S were found. MOC will have on location and working all H2S safety equipment before drilling out from surface casing for purposes of safety and insurance requirements.

2. Hydrogen Sulfide Training

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will have received training from a qualified instructor in the following areas prior to entering the drilling pad area of the well:

- 1. The hazards and characteristics of hydrogen sulfide gas.
- 2. The proper use of personal protective equipment and life support systems.
- 3. The proper use of hydrogen sulfide detectors, alarms, warning systems, briefing areas, evacuation procedures.
- 4. The proper techniques for first aid and rescue operations.

Additionally, supervisory personnel will be trained in the following areas:

- The effects of hydrogen sulfide on metal components. If high tensile tubular systems are utilized, supervisory personnel will be trained in their special maintenance requirements.
- 2 Corrective action and shut in procedures, blowout prevention, and well control procedures while drilling a well.
- The contents of the Hydrogen Sulfide Drilling Operations Plan.

There will be an initial training session prior to encountering a know hydrogen sulfide source. The initial training session shall include a review of the site specific Hydrogen Sulfide Drilling Operations Plan.

3. Hydrogen Sulfide Safety Equipment and Systems

All hydrogen sulfide safety equipment and systems will be installed, tested, and operational prior to drilling below the intermediate casing.

1. Well Control Equipment

- A. Flare line with automatic igniter or continuous ignition source.
- B. Choke manifold with minimum of one adjustable choke.
- C. Blowout preventers equipped with blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit
- D. Auxiliary equipment including annular type blowout preventer.

2. Protective Equipment for Essential Personnel

Thirty minute self contained work unit located at briefing area as indicated on wellsite diagram.

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3. Hydrogen Sulfide Protection and Monitoring Equipment

Two portable hydrogen sulfide monitors positioned on location for optimum coverage and detection. The units shall have audible sirens to notify personnel when hydrogen sulfide levels exceed 20 PPM.

4. Visual Warning Systems

- A. Wind direction indicators as indicated on the wellsite diagram.
- B. Caution signs shall be posted on roads providing access to location. Signs shall be painted a high visibility color with lettering of sufficient size to be readable at reasonable distances from potentially contaminated areas.

4. Mud Program

The mud program has been designed to minimize the amount of hydrogen sulfide entrained in the mud system. Proper mud weight, safe drilling practices, and the use of hydrogen sulfide scavengers will minimize hazards while drilling the well.

5. Metallurgy

All tubular systems, wellheads, blowout preventers, drilling spools, kill lines, choke manifolds, and valves shall be suitable for service in a hydrogen sulfide environment when chemically treated.

6. Communications

State & County Officials phone numbers are posted on rig floor and supervisors trailer. Communications in company vehicles and toolpushers are either two way radios or cellular phones.

7. Well Testing

Drill stem testing is not an anticipated requirement for evaluation of this well. A drill stem test is required, it will be conducted with a minimum number of personnel in the immediate vicinity. The test will be conducted during daylight hours only.

8. Emergency Phone Numbers

Eddy County Sheriff's Office	911 or 575-887-7551
Ambulance Service	911 or 575-885-2111
Carlsbad Fire Dept	911 or 575-885-2111
Closest Medical Facility - Columbia Medic	al Center of Carlshad 575-492-5000

Mewbourne Oil Company	Hobbs District Office	575-393-5905	
	Fax	575-397-6252	
	2 nd Fax	575-393-7259	
District Manager	Micky Young	575-390-0999	
Drilling Superintendent	Frosty Lathan	575-390-4103	
Engineer	Charles Martin	575-441-2081	
Drilling Foreman	Wesley Noseff	575-441-0729	
Drilling Foreman	George Smith	575-390-4365	

MULTI-POINT SURFACE USE AND OPERATIONS PLAN MEWBOURNE OIL COMPANY

Federal "V" #5H 330' FNL & 1980' FWL Sec 8-T20S-R28E Eddy County, New Mexico

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 the surface disturbance involved, and the procedures to be followed in restoring the surface so that a complete appraisal can be made of the environmental impact associated with the proposed operations.

1. Existing Roads:

- A. Exhibit #3 is a road map showing the location of the proposed well. Existing roads are highlighted in black. Exhibits #3-#3C are maps showing the location of the proposed well and access road. Existing and proposed roads are highlighted.
- B. Directions to location: From Carlsbad on CR206 (Illinois Camp), north 8 miles to CR237 (Angel Ranch Rd). Turn right (east) 1.3 miles to lease road. Turn left (northeast) 0.3 miles then north 0.3 miles to new lease road. Turn left (west) 0.1 mile to location.
- C. Existing roads will be maintained in a condition the same as or better than before operations begin.

2. Proposed Access Road:

- A 720' feet of new road construction will be needed.
- B. The maximum width of the driving surface will be 14 feet. The road will be crowned and ditched with a 2% slope from the tip of the crown to the edge of the driving surface. The ditches will be 1 foot deep with 3:1 slopes. The road will be surfaced with 6" of rolled and compacted caliche.
- C. Mewbourne Oil Co. will cooperate with other operators in the maintenance of lease roads.

3. Location of Existing Wells:

There are producing wells within the immediate vicinity of the well site. Exhibit #4 shows the proposed well and existing wells within a one mile radius.

4. Location of Existing and/or Proposed Facilities:

- A. There are no production facilities on this lease at the present time.
- B. In the event that the well is productive, production facilities will be built on the east side of the well pad.
- C. All production vessels left on location will be painted to conform to BLM painting stipulations within 180 days of installation.

5. Location and Type of Water Supply

The well will be drilled with a combination of fresh water and brine water based mud systems. The water will be obtained from commercial suppliers in the area and/or hauled to the location by transport trucks over existing and proposed roads as indicated in Exhibit #3.

6. Source of Construction Materials

All material required for construction of the drill pad and access roads will be obtained from private, state, or federal pits. The construction contractor will be solely responsible for securing construction materials required for this operation and paying any royalties that may be required on those materials.

7. Methods of Handling Waste Disposal:

- Drill cuttings not retained for evaluation purposed will be hauled to CRI permit# NM-010006.
- B. Water produced during operations will be hauled to an off-site permitted SWD in the area.
- C. If any liquid hydrocarbons are produced during operations, those liquids will be stored in suitable tanks until sold.
- D. Sewage and gray water will be safely contained on-site, and then waste will be disposed at an approved off-site facility.
- E. All trash, junk, and other waste materials will be stored in proper containers to prevent dispersal and will be removed to an appropriate facility within one week of cessation of drilling and completion activities.

8. Ancillary Facilities

There are no ancillary facilities within the immediate vicinity of the proposed well site.

9. Well Site Layout

- A diagram of the drill pad is shown in Exhibit #5. Dimensions of the pad and location of major rig components are shown.
- B. The pad dimension of 280' x 320' has been staked and flagged.
- C. An archaeological survey is in the process of being conducted on the proposed location pad.

10. Plans for Restoration of Surface

- A. Within 90 days of cessation of drilling and completion operations, all equipment not necessary for production operations will be removed. The location will be cleaned of all trash and junk to assure the well site is left as aesthetically pleasing as reasonably possible.
- B. Interim reclamation:
 - i. All areas not needed for production operations will be reclaimed.
 - ii. Caliche will be removed, the land will be recontoured, the top soil from stockpile will be spread over these areas.
 - iii. The disturbed area will be restored by re-seeding during the proper growing season.
 - iv. Any additional caliche required for production facilities will be obtained from the area shown in exhibit #6 as interim reclamation.

MULTI-POINT SURFACE USE AND OPERATIONS PLAN MEWBOURNE OIL COMPANY Federal "V" #5H Page 3

C. Final Reclamation:

- i. Upon cessation of the proposed operations, if the well is abandoned, all equipment and trash will be removed and taken to a proper facility.
- ii. The location and road surfacing material will be removed and used to patch area lease roads. The entire location will be restored to the original contour as much as reasonable possible. The top soil used for interim reclamation will be spread over the entire location. All restoration work will be completed within 180 days of cessation of activities.

11. Frac Pit:

A frac pit will be constructed east of the edge of the well pad as shown on exhibit 7. The exterior dimensions of the pit will be approx 130' by 330'. No portion of the pit will be outside the arch survey area. The interior dimensions will be approx 100' by 300' by 10' deep as shown in exhibit 7. Working volume is approx 40,000 bbls. This pit will be lined and filled with fresh water purchased from a commercial source. Topsoil excavated during construction of the pit will be stockpiled inside the north berm of the pit.

12. Surface Ownership:

The surface is owned by BLM

13. Other Information:

- A. Topography: Refer to the archaeological report for a detailed description of flora, fauna, soil characteristics, dwellings, and historical or cultural sites.
- B. The primary use of the surface at the location is for grazing of livestock.

14. Operator's Representative:

A. Through APD approval, drilling, completion and production operations:

N.M. Young, District Manager Mewbourne Oil Company PO Box 5270 Hobbs, NM 88241 575-393-5905

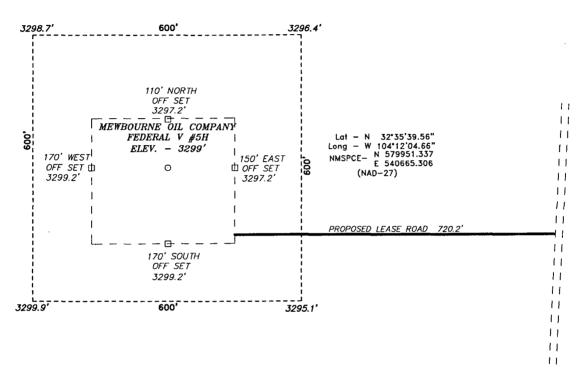
Mewbourne Oil Company

PO Box 5270 Hobbs, NM 88241 (575) 393-5905

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of State and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

Executed this, 2010.
Name: NM Young
Signature: Michelle Wight for Mickey Young
Position Title: <u>Hobbs District Manager</u>
Address: PO Box 5270, Hobbs NM 88241
Telephone: <u>575-393-5905</u>
E-mail: myoung@mewbourne.com

8, TOWNSHIP 20 SOUTH, RANGE 28 EAST, N.M.P.M., SECTION EDDY COUNTY. NEW MEXICO.



NOTE: POINTS FOR FRAC PIT WERE STAKED IN THE FIELD BY MEWBOURNE OIL COMPANY.

> ONLY DRAFTING WAS DONE BASIN SURVEYS.

> > Exhibit 3

400 FEET 200 0 200 SCALE: 1" = 200'

Directions to Location:

FROM JUNCTION OF ILLINOIS CAMP AND ANGEL RANCH, GO EAST 1.3 MILES TO LEASE ROAD, ON LEASE ROAD GO NORTHEAST 0.3 MILES THENCE NORTH 0.3 MILES TO PROPOSED LEASE ROAD.

BASIN SURVEYS P.O. BOX 1786 - HOBBS, NEW MEXICO

W.O. Number: 22932 Drawn By: J. SMALL Date: 08-09-2010 Disk: JMS 22932

Survey Date: 08-07-2010 Sheet

Sheets

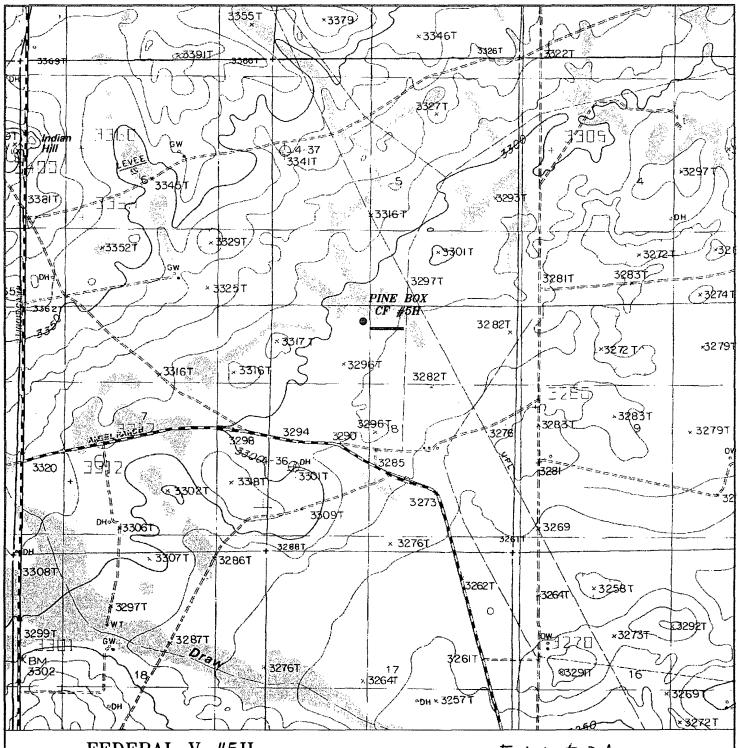
REF: FEDERAL V #5H / WELL PAD TOPO

THE FEDERAL V #5H LOCATED 330'

MEWBOURNE OIL COMPANY

FROM THE NORTH LINE AND 1980' FROM THE WEST LINE OF SECTION 8, TOWNSHIP 20 SOUTH, RANGE 28 EAST,

N.M.P.M., EDDY COUNTY, NEW MEXICO.



FEDERAL V #5H

Located 330' FNL and 1980' FWL

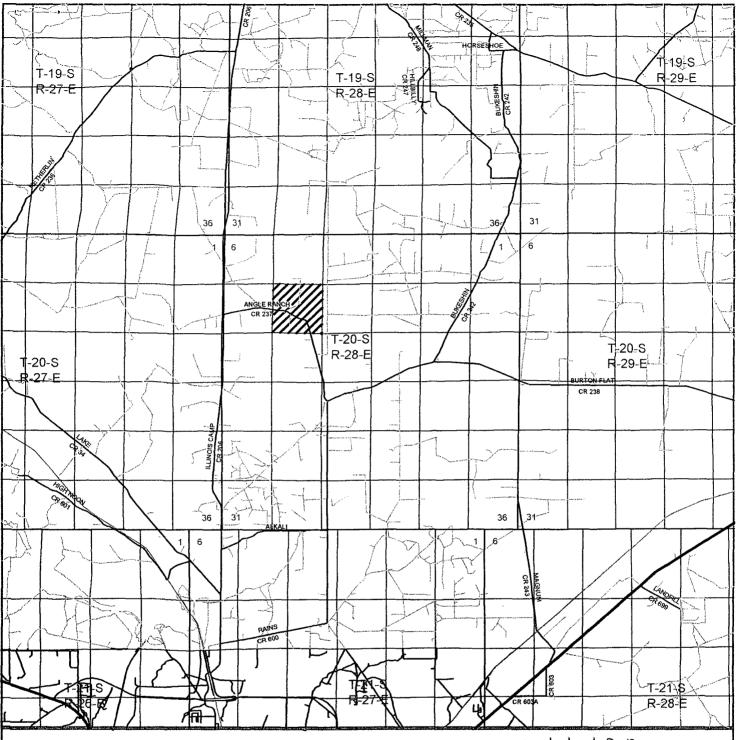
Section 8, Township 20 South, Range 28 East, N.M.P.M., Eddy County, New Mexico.



P.O. Box 1786 1120 N. West County Rd. Hobbs, New Mexico 88241 (575) 393-7316 - Office (575) 392-2206 - Fax basinsurveys.com

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	Scale: 1" = 2000'	Secondary Second
	Date: 08-09-2010	Name and Address of the Owner, where

MEWBOURNE OIL COMPANY



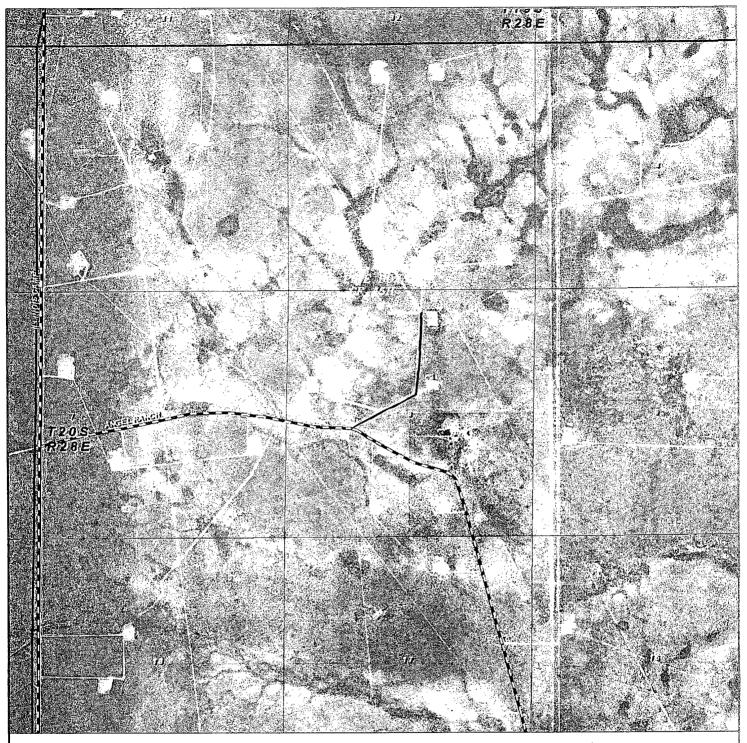
FEDERAL V #5H Exhibit 3 B Located 330' FNL and 1980' FWL Section 8, Township 20 South, Range 28 East, N.M.P.M., Eddy County, New Mexico.



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Date: 08-09-	-2010		

MEWBOURNE OIL COMPANY



FEDERAL V #5H

Located 330' FNL and 1980' FWL

Section 8, Township 20 South, Range 28 East,

N.M.P.M., Eddy County, New Mexico.



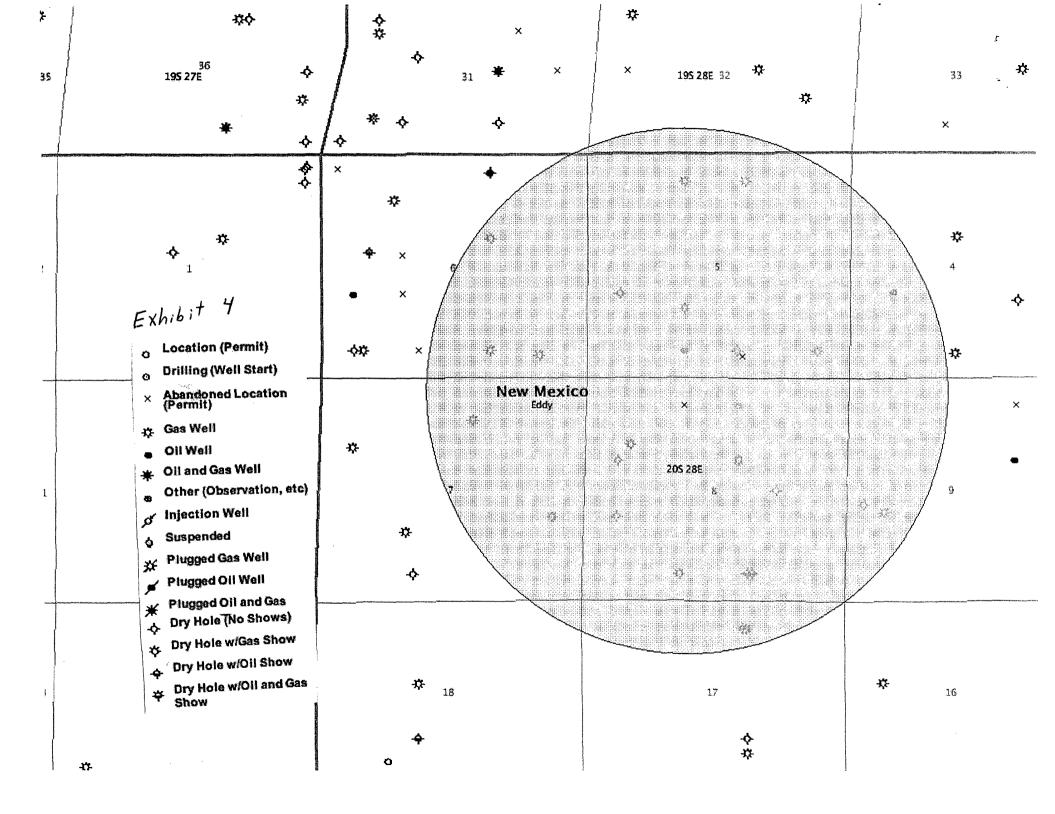
P.O. Box 1786 1120 N. West County Rd. Hobbs, New Mexico 88241 (375) 393-7316 - Office (575) 392-2206 - Fch basinsurveys.com W.O. Number: JMS 22932

Scale: 1' = 2000

YELLOW TINT — USA LAND BLUE TINT — STATE LAND NATURAL COLOR — FEE LAND



MEWBOURNE OIL COMPANY



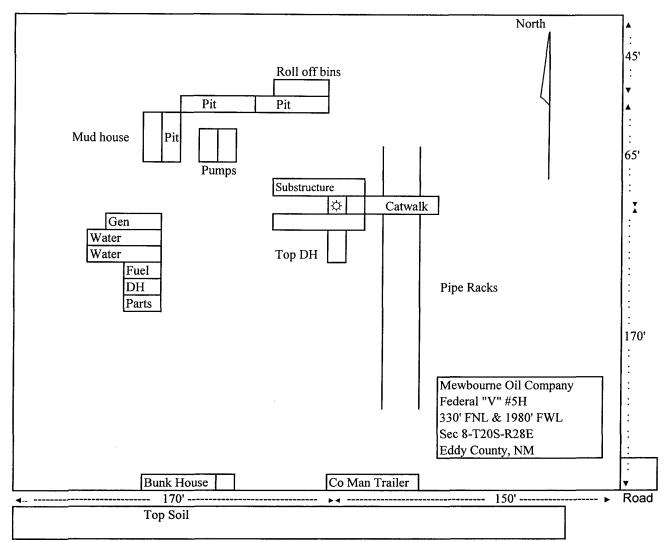


Exhibit 5

