

N.M. Oil Cons. DIV-Dist. 2  
1301 W. Grand Avenue  
Artesia, NM 88210

Form 3160-3  
(April 2004)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED  
OMB No. 1004-0137  
Expires March 31, 2007

5. Lease Serial No.  
~~NM-36190~~ 36195

6. If Indian, Allottee or Tribe Name

1a. Type of work: ☒ DRILL ☐ REENTER

1b. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone

2. Name of Operator  
McKay Oil Corporation

3a. Address PO Box 2014  
Roswell, NM 88202-2014

3b. Phone No. (include area code)  
505-623-4735

4. Location of Well (Report location clearly and in accordance with any State requirements \*)  
At surface 2130' FSL 660' FWL  
At proposed prod. zone

7. If Unit or CA Agreement, Name and No.

8. Lease Name and Well No.  
Remmele B Federal 5

9. API Well No.  
30-005-63173

10. Field and Pool, or Exploratory  
W. Pecos ABO Slope

11. Sec, T R. M. or Blk. and Survey or Area  
Unit k, Sec. 25, T6S, R22E

14. Distance in miles and direction from nearest town or post office\*  
Approximately 25 miles

12. County or Parish  
Chaves

13. State  
NM

15. Distance from proposed\*  
location to nearest  
property or lease line, ft.  
(Also to nearest drig unit line, if any)

16. No. of acres in lease  
1800.00

17. Spacing Unit dedicated to this well  
160'

18. Distance from proposed location\*  
to nearest well, drilling, completed,  
applied for, on this lease, ft.

19. Proposed Depth  
4300'

20. BLM/BIA Bond No. on file

21. Elevations (Show whether DF, KDB, RT, GL, etc.)  
4181'

22. Approximate date work will start\*  
01/01/2006

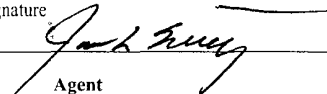
23. Estimated duration  
7-10 days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form

1. Well plat certified by a registered surveyor
2. A Drilling Plan
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office)

4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification ROSWELL CONTROLLED WATER BASIN
6. Such other site specific information and/or plans as may be required by the authorized officer

25. Signature  
  
Agent

Name (Printed/Typed)  
James L. Schultz

Date  
12/12/2007

Approved by (Signature)  
**APD CANCELLED**

Name (Printed/Typed)

Date

Title  
Assistant Field Manager,  
Lands And Minerals

Office  
ROSWELL FIELD OFFICE

APPROVED FOR 2 YEARS

Application approval 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  
Conditions of approval, if any, are attached

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person 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

\*(Instructions on page 2)

APPROVAL SUBJECT TO  
GENERAL REQUIREMENTS AND  
SPECIAL STIPULATIONS ATTACHED

## State of New Mexico

## DISTRICT I

1225 N. FRENCH DR., HOBBS, NM 88240

Energy, Minerals and Natural Resources Department

Form C-102

## DISTRICT II

1301 W. GRAND AVENUE, ARTESIA, NM 88210

## OIL CONSERVATION DIVISION

1220 SOUTH ST. FRANCIS DR.

Santa Fe, New Mexico 87505

Revised October 12, 2005  
Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

## DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

## DISTRICT IV

1220 S. ST. FRANCIS DR., SANTA FE, NM 87505

## WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code	Pool Name
Property Code	Property Name REMMELE "B" FEDERAL	Well Number 5
OGRID No.	Operator Name MCKAY OIL CORPORATION	Elevation 4186'

## Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	25	6-S	22-E		2130	SOUTH	660	WEST	CHAVES

## Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joint or Infill	Consolidation Code	Order No.						
160									

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

<p>SEE DETAIL</p> <p>660'</p> <p>2130'</p> <p>4178.5'</p> <p>4184.5'</p> <p>600'</p> <p>4181.1'</p> <p>4181.8'</p>	<p>GEODETIC COORDINATES NAD 27 NME</p> <p>Y=1006052.4 N X=394729.2 E</p> <p>LAT.=33.765074° N LONG.=104.679720° W</p>	<p><b>OPERATOR CERTIFICATION</b></p> <p>I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p><i>James L. Schultz</i> 12/12/07 Signature Date James L. Schultz Printed Name</p>
	<p><b>SURVEYOR CERTIFICATION</b></p> <p>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 belief.</p> <p>NOVEMBER 09 2007 DATE SURVEYED SIGNATURE &amp; SEAL OF PROFESSIONAL SURVEYOR RONALD J. EIDSON 12/24/07 3239</p> <p>Certificate No. GARY EIDSON 12641 RONALD J. EIDSON 3239</p>	

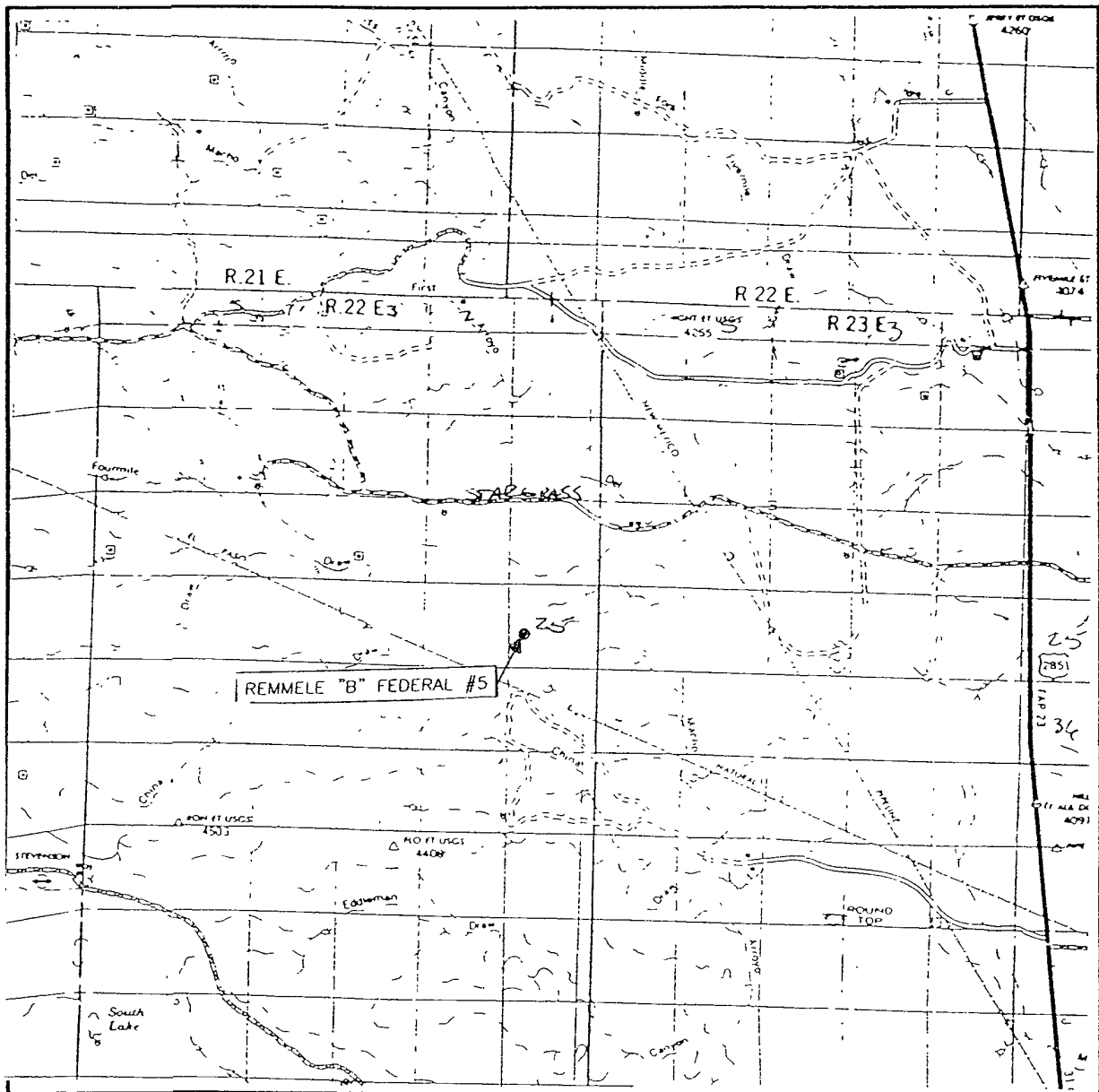
**PERTINENT INFORMATION**

FOR  
MCKAY OIL CORPORATION  
REMMELE B FEDERAL 5  
2130' FSL & 660' FWL Sec. 25, T6S, R22E

Chaves County, New Mexico

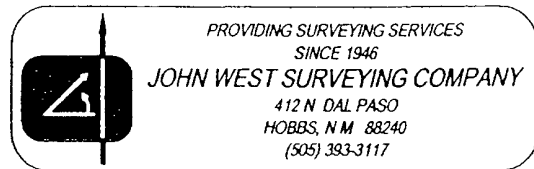
<u>LOCATED:</u>	25 air miles Northwest of Roswell, NM.
<u>LEASE NUMBER:</u>	NM 36190
<u>LEASE ISSUED:</u>	8/8/1978
<u>RECORD LESSEE:</u>	McKay Petroleum Corporation
<u>BOND COVERAGE:</u>	Operator's \$25,000 Statewide
<u>AUTHORITY TO OPERATE:</u>	Assignment of Operating Rights
<u>ACRES IN LEASE:</u>	1800.00
<u>SURFACE OWNERSHIP:</u>	Federal
<u>OWNER:</u>	USA-BLM
<u>POOL RULES:</u>	General Statewide Rules
<u>EXHIBITS:</u>	A. Road and Well Map B. Contour Map C. Rig Layout D. BOP Diagram E. Lease Map

# VICINITY MAP

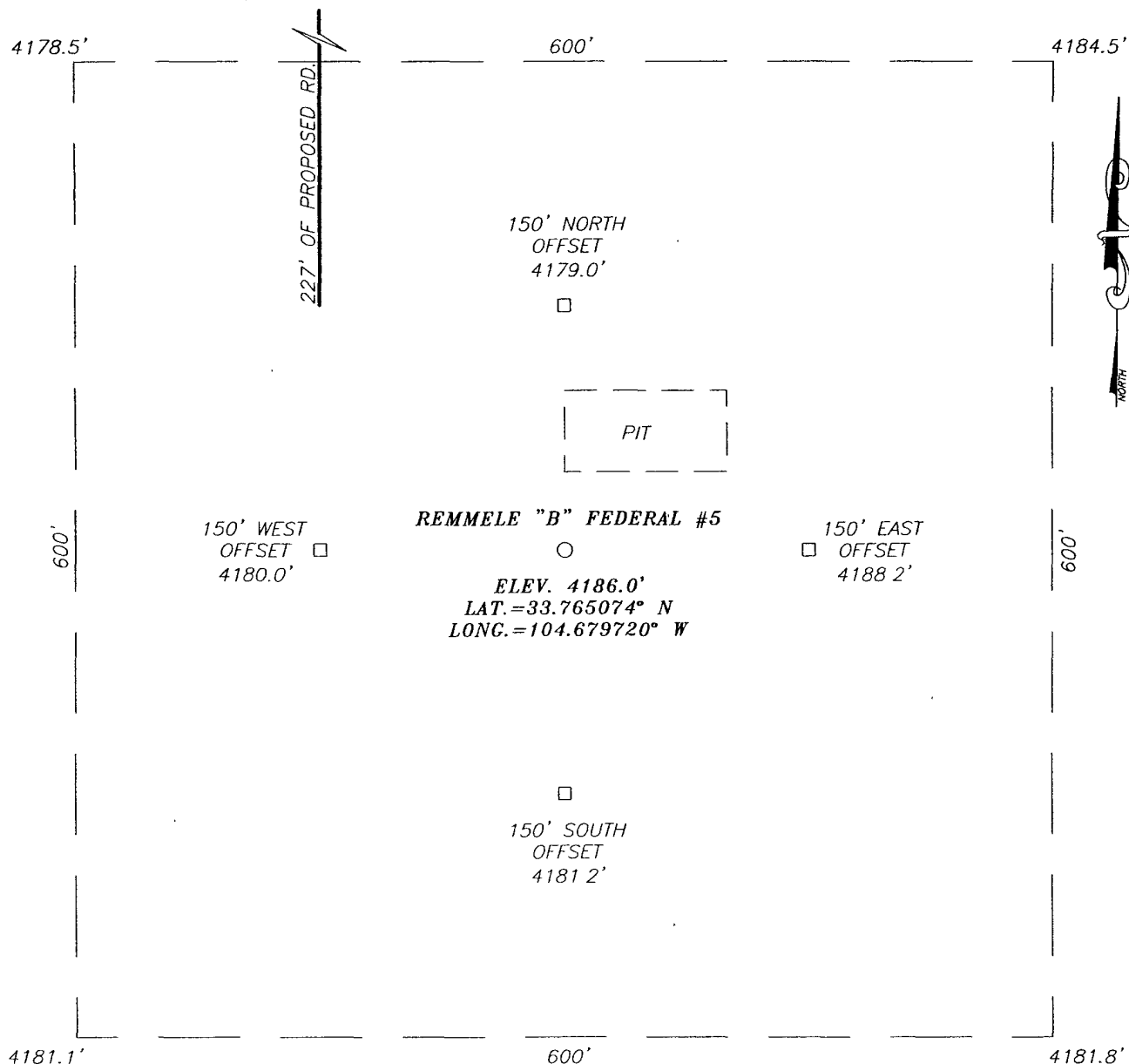


SCALE: 1" = 2 MILES

SEC. 25 TWP. 6-S RGE 22-E  
 SURVEY N.M.P.M.  
 COUNTY CHAVES STATE NEW MEXICO  
 DESCRIPTION 2130' FSL & 660' FWL  
 ELEVATION 4186'  
 OPERATOR MCKAY OIL CORPORATION  
 LEASE REMMELE "B" FEDERAL

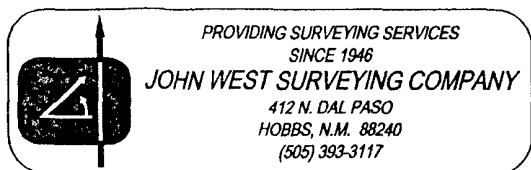
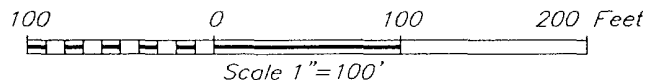


**SECTION 25, TOWNSHIP 6 SOUTH, RANGE 22 EAST, N.M.P.M.,**  
**CHAVES COUNTY, NEW MEXICO**



**DIRECTIONS TO LOCATION**

FROM THE INTERSECTION OF U.S. HWY. #285 AND CO RD. #40 (STARGRASS RD.), GO WEST ON CO. RD. #40 APPROX. 3.3 MILES. BEND LEFT AND GO SOUTHWEST APPROX. 1.1 MILES. TURN LEFT AND GO SOUTH APPROX. 0.7 MILES. TURN RIGHT AND GO WEST APPROX. 0.4 MILES. BEND LEFT AND GO SOUTHWEST APPROX. 0.45 MILES. STAY LEFT AT FORK AND GO SOUTH APPROX. 0.5 MILES. TURN RIGHT AND GO WEST APPROX. 0.2 MILES. THIS LOCATION IS APPROX. 385 FEET SOUTH.

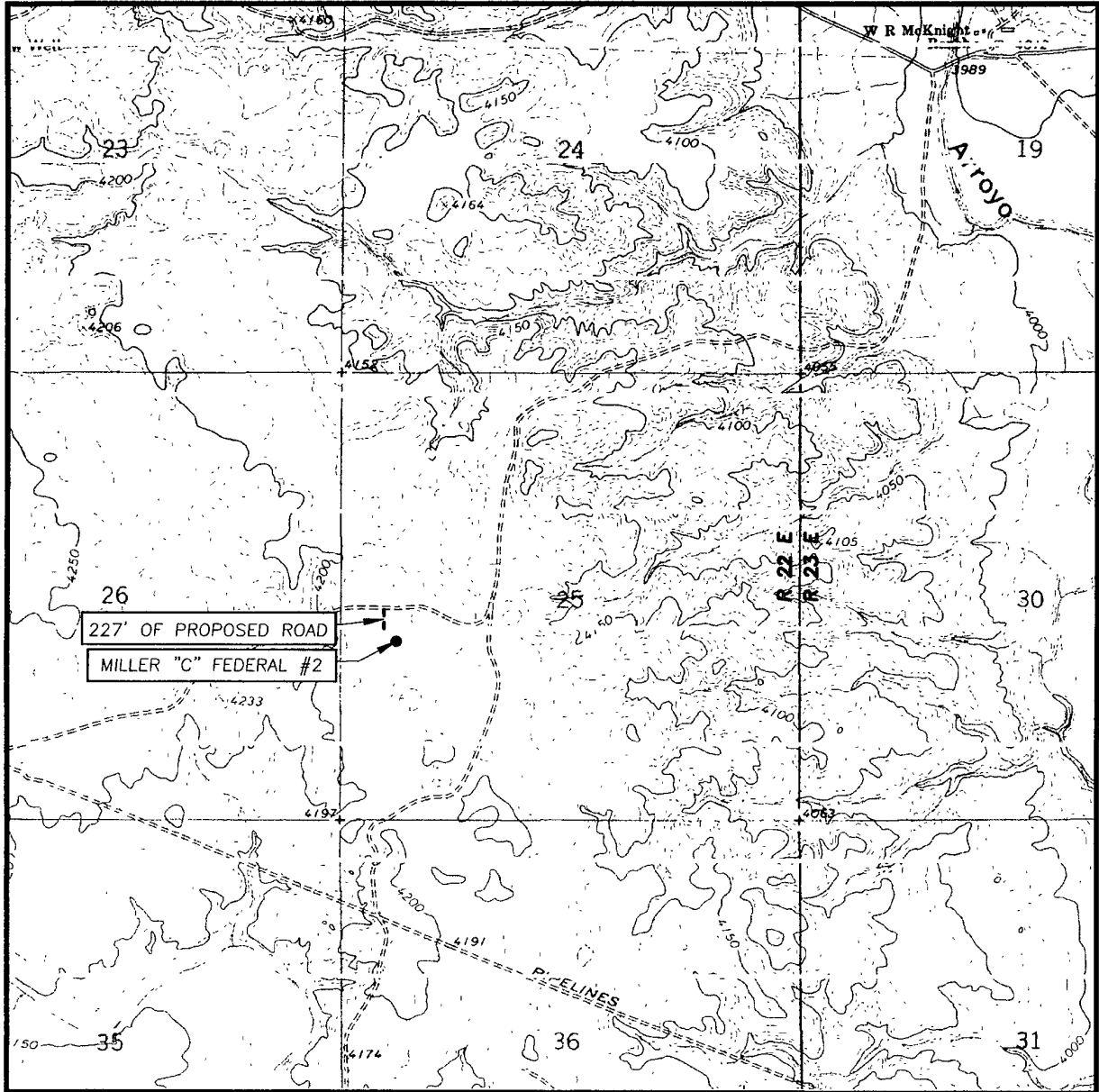


**MCKAY OIL CORPORATION**

REMMELE "B" FEDERAL #5 WELL  
 LOCATED 2130 FEET FROM THE SOUTH LINE  
 AND 660 FEET FROM THE WEST LINE OF SECTION 25,  
 TOWNSHIP 6 SOUTH, RANGE 22 EAST, N.M.P.M.,  
 CHAVES COUNTY, NEW MEXICO.

Survey Date: 11/09/07	Sheet 1 of 1 Sheets
W.O. Number: 07.11.1583	Dr By: AR
Date: 11/21/07	Disk: 07111583
	Rev 1: N/A
	Scale: 1"=100'

# LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL:  
MESA SW, N.M. - 10'

SEC. 25 TWP. 6-S RGE. 22-E

SURVEY N.M.P.M.

COUNTY CHAVES STATE NEW MEXICO

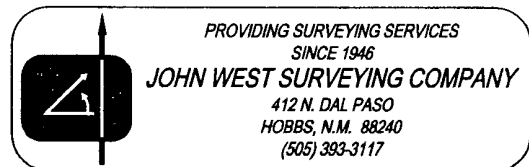
DESCRIPTION 2130' FSL & 660' FWL

ELEVATION 4186'

OPERATOR MCKAY OIL CORPORATION

LEASE REMMELE "B" FEDERAL

U.S.G.S. TOPOGRAPHIC MAP  
MESA SW, N.M.



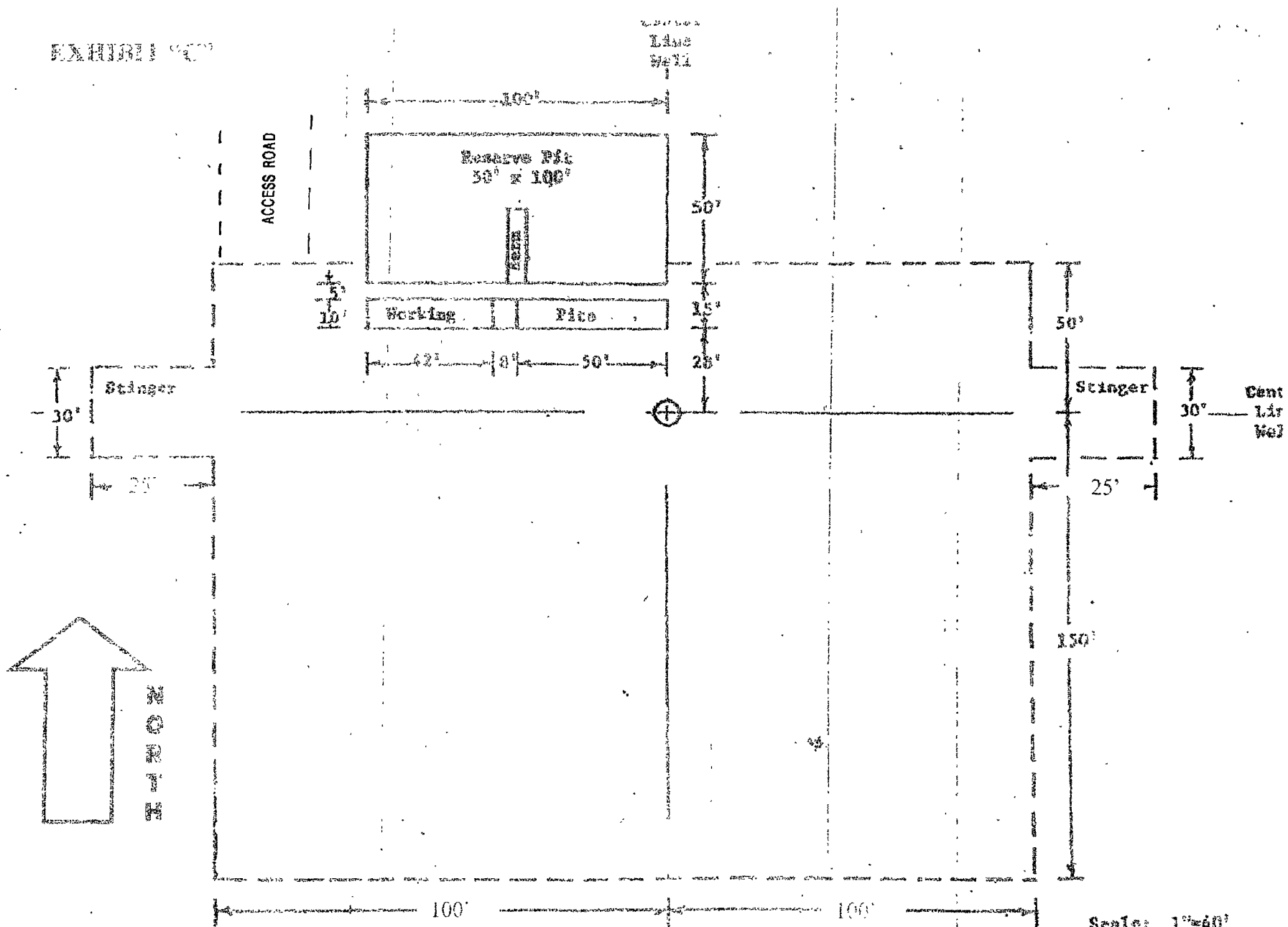
PROVIDING SURVEYING SERVICES  
SINCE 1946

**JOHN WEST SURVEYING COMPANY**

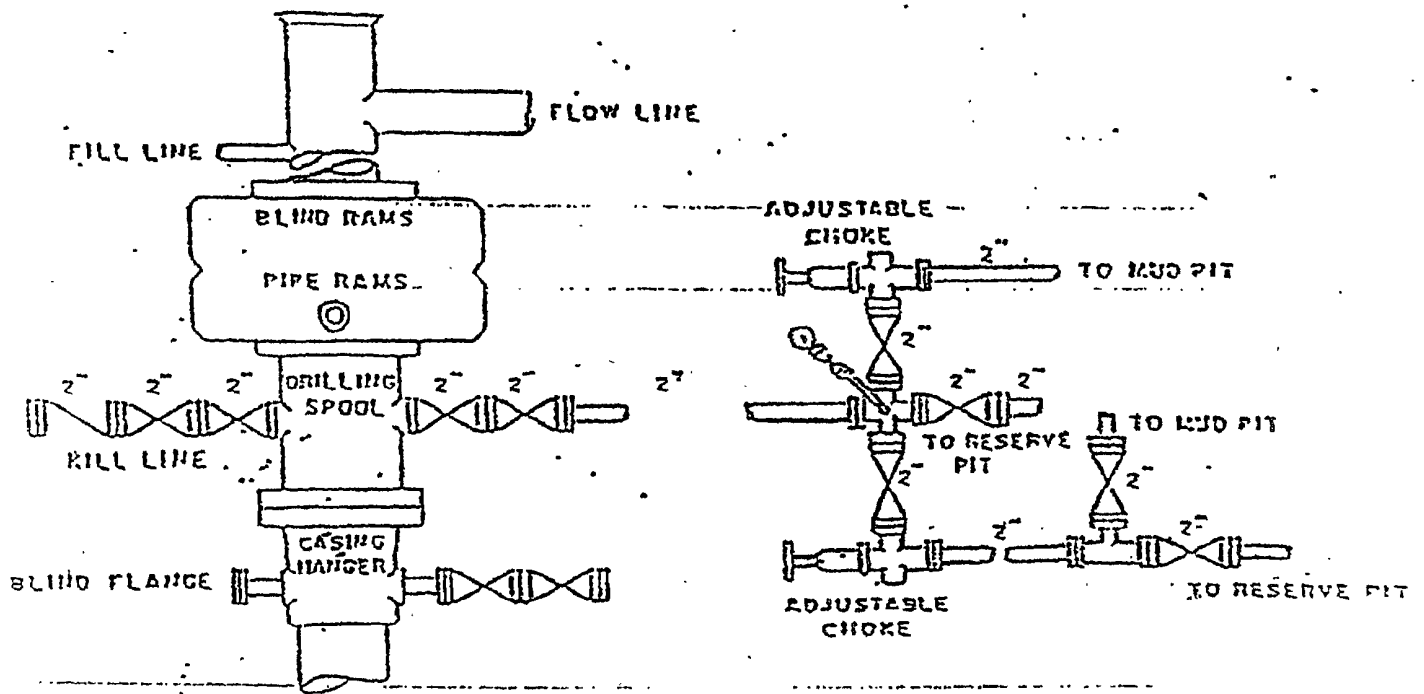
412 N. DAL PASO  
HOBBS, N.M. 88240  
(505) 393-3117

EXHIBIT 1

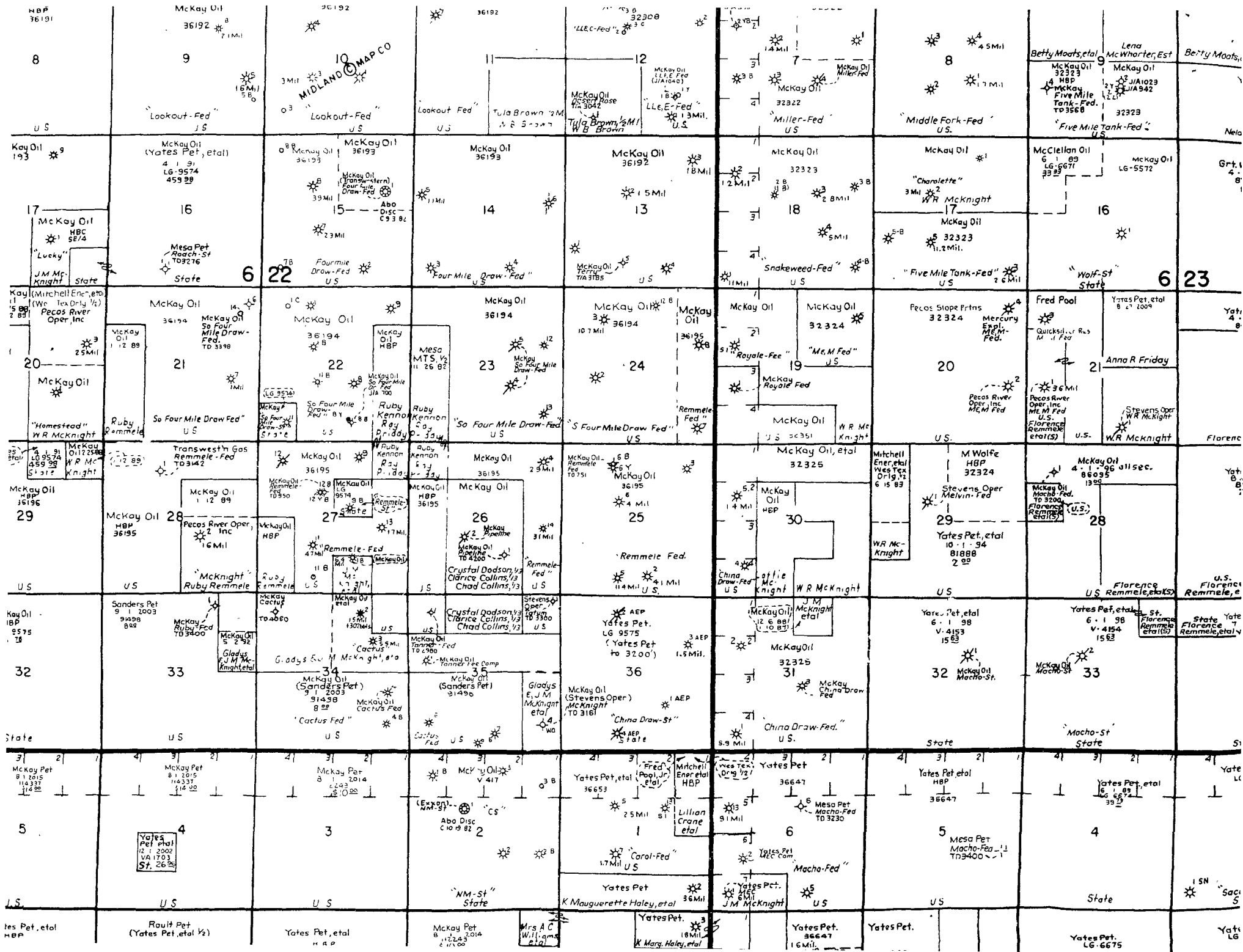
Line  
No. 11



# EXHIBIT "D"







## SUPPLEMENTAL DRILLING DATA

MCKAY OIL CORPORATION  
REMMELE B FEDERAL 5  
2130' FSL & 660' FWL Sec. 25, T6S, R22E

Chaves County, New Mexico

The following items supplement Form 3160-3 in accordance with instruction contained in Onshore Oil and Gas Order No. 1:

1. SURFACE FORMATION: San Andres

2. ESTIMATED TOPS OF GEOLOGICAL MARKERS:

Yeso - 891'  
Tubb - 2387'  
Abo - 2615'

3. ESTIMATED DEPTHS TO WATER, OIL OR GAS FORMATIONS:

Fresh Water - In surface formation above 600'  
Gas - In Abo Formation below 2615'

4. PROPOSED CASING PROGRAM:

12-1/4" hole	8-5/8" X-42	24#	950' + WITNESS
7-7/8" hole	5-1/2" J-55	15.5#	TD

5. PROPOSED CEMENTING PROGRAM:

Surface to 950'	class "C" - 350 sxs cemented and circulated to surface.
Production Casing	class "C" - 300 sxs cemented with adequate cover.

6. PROPOSED DRILLING PROGRAM:

McKay Oil Corporation proposes to drill and test the ABO formation. Approximately 950' of surface casing will be set and cemented to surface. 5-1/2" production casing will be set and cemented with adequate cover, perforated and stimulated as needed for production.

7. PRESSURE CONTROL EQUIPMENT: Blowout preventer will consist of 2 ram, 2M system. A sketch of the BOP is attached to Pertinent Information.
8. CIRCULATION MEDIUM: Mud Drilling
9. AUXILIARY EQUIPMENT: Full-opening drill string safety valve fit for the drill string in use, will be kept on the rig floor at all times.
10. TESTING, LOGGING AND CORING PROGRAM:
  - Samples: Catch samples from surface to TD.
  - DST's: None.
  - Logging: GR-CNL, Dual Lateral MSFL from surface to TD.
  - Coring: None.
11. ABNORMAL PRESSURES, TEMPERATURES OR HYDROGEN SULFIDE: None anticipated.
12. ANTICIPATED STARTING DATE: On or before January 20, 2008  
Drilling should be completed within 10 days. Completion operations (perforations and stimulation) will follow drilling operations.

## MULTI-POINT SURFACE USE AND OPERATIONS PLAN

MCKAY OIL CORPORATION  
REMMELE B FEDERAL 5  
2130' FSL & 660' FWL Sec. 25, T6S, R22E

Chaves County, New Mexico

NM 36190

This plan is submitted with the application for permit to drill the above described well. The purpose of the plan is to describe the location of the proposed well, the proposed construction activities and operations plan, the magnitude of necessary surface disturbance involved, and the procedures to be followed in rehabilitating the surface after completion of the operation so that a complete appraisal can be made of the environmental effects associated with the operation.

### 1. EXISTING ROADS:

A. Exhibit "A" is a portion of a road map showing the location of the proposed well is staked. The well is approximately 25 miles north of Roswell, NM.

B. Directions: from the intersection for U.S. Highway #285 and County Road #40 (Stargrass Road) go west of County Road #40 approximately 3.3 miles. Bend left and go southwest approximately 1.1 miles. Turn left and go south approximately 0.7 miles. Turn right and go west approximately 0.4 miles. Bend left and go southwest approximately 0.45 miles. Stay left at fork and go south approximately 0.5 miles. Turn right and go west approximately 0.2 miles. The location is approximately 385 feet south.

### 2. PLANNED ACCESS ROAD:

A. Length and Width: 227' long and 20' wide.

B. Surface Materials: Sand, gravel and caliche where needed.

C. Turnouts: None

D. Maximum Grade: No more than 3%.

E. Drain Design: Road will have drainage ditches on both sides and a crowned top, with culverts and/or low water crossings as necessary.

F. Culverts: None.

G. Cuts and Fill: None.

H. Gates, Cattle guards: None needed. Already in place.

I. Top Soil: Very little.

3. LOCATION OF EXISTING WELLS:

A. A map indicating the location of adjacent wells is attached.

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:

A: See Exhibit "A" for location of existing lease wells. If the well is commercial, production facilities and tank battery will be constructed.

B. Cuts and Fills: Less than 5' of cut and fill will be required for the pad size of 250' x 250'. (See Exhibit "D")

C. Top Soil: Any topsoil which can sustain plant vegetation will be bladed and piled for future rehabilitation.

5. LOCATION AND TYPE OF WATER SUPPLY:

A. Water will be purchased from a commercial source and trucked to the location over existing and proposed access roads.

6. SOURCE OF CONSTRUCTION MATERIALS:

A. Closest Pit to the location.

7. METHODS OF HANDLING WASTE DISPOSAL:

A. Drill cuttings will be disposed of in the drilling pits.

B. Drilling fluids will be allowed to evaporate in the drilling pits until the pits are dry.

C. Water produced during test will be disposed of in the drilling pits. Oil produced during tests will be stored in test tanks until sold.

D. Current laws and regulations pertaining to the disposal of human waste will be complied with.

E. Trash, waste paper, garbage, and junk will be placed in portable receptacles and hauled from the location upon completion of drilling and completion operations.

F. All trash and debris will be removed from the well site within 30 days after finishing drilling and/or completion operations.

8. ANCILLARY FACILITIES:

A. None necessary.

9. WELL SITE LAYOUT:

A. Exhibit "C" indicates the relation location and dimensions of the well pad, mud pits, reserve pit and major rig equipment.

B. The location slopes very slightly to the east and southeast.

C. The reserve pit will be lined with plastic to prevent loss of water.

10. PLANS FOR RESTORATION OF THE SURFACE:

A. After completion of drilling and/or completion operations, all equipment and other material not needed for operations will be removed. Pits will be filled and the location cleaned of all trash and junk to leave the well site in an aesthetically pleasing conditions as possible.

B. Any unguarded pits containing fluids will be fenced until they are filled.

C. If the well is non-productive or abandoned, the disturbed area will be rehabilitated using the preserved soil mentioned in 2.I. and 4.C.

11. OTHER INFORMATION:

A. Topography: The topography is a gradual slope to the south-east in the vicinity of the access road and south in the vicinity of the drill pad. Regional slope is east toward the Arroyo del Macho, which is northeast of the location.

B. Soil: Sandy loam with limestone outcropping.

C. Flora and Fauna: The flora consists of typical desert vegetation, such as yucca, cactus and various grasses. Fauna consists of desert wildlife such as coyotes, rodents, snakes, deer and antelope.

D. Ponds and Streams: Arroyo del Macho northeast of the proposed location.

E. Residences and other Structures: The David Corn Ranch (old W.R. McKnight Ranch) is approximately 1-1/4 miles to the northeast.

F. Archaeological, Historical and Other Cultural Sites: An archaeological report from Archeological Survey Consultants from Roswell, NM will be filed under separate cover.

G. Land Use: Grazing.


H. Surface Ownership: USA-BLM.

12. OPERATOR'S REPRESENTATIVE:

Jim Robinson  
Roswell, New Mexico  
(505) 623-4735 (O)  
(505) 626-8579 (C)

13. CERTIFICATION:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exists; that the statements made in this plan are, to the best of my knowledge true and correct; that the work associated with the operations proposed herein will be performed by MCKAY OIL CORPORATION and its sub-contractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to provisions of 18 USC 1001 for the filing of a false statement.

  
\_\_\_\_\_  
SIGNATURE

12-13-07  
\_\_\_\_\_  
DATE

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

Form C-144  
June 1, 2004

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

For drilling and production facilities, submit to appropriate NMOCD District Office.  
For downstream facilities, submit to Santa Fe office

**Pit or Below-Grade Tank Registration or Closure**

Is pit or below-grade tank covered by a "general plan"? Yes ☒ No ☐ Submitted 4/16/04  
Type of action: Registration of a pit or below-grade tank ☒ Closure of a pit or below-grade tank ☐

Operator: MCKAY OIL CORPORATION Telephone: 505-623-4735 e-mail address: april@mckayoil.com

Address: PO Box 2014 Roswell, NM 88202-2014

Facility or well name: Remmele B Federal 5 API #: \_\_\_\_\_ U/L or Qtr/Qtr L Sec 25 T6S R22E

County: CHAVES Latitude \_\_\_\_\_ Longitude \_\_\_\_\_ NAD: 1927 ☐ 1983 ☐ Surface Owner Federal ☒ State ☐ Private ☐ Indian ☐

**Pit**

Type: Drilling ☒ Production ☐ Disposal ☐

Workover ☐ Emergency ☐

Lined ☒ Unlined ☐

Liner type: Synthetic ☒ Thickness 12 mil Clay ☐

Pit Volume \_\_\_\_\_ bbl

**Below-grade tank**

Volume \_\_\_\_\_ bbl Type of fluid \_\_\_\_\_

Construction material \_\_\_\_\_

Double-walled, with leak detection? Yes ☐ If not, explain why not. \_\_\_\_\_

Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)

Less than 50 feet

(20 points)

50 feet or more, but less than 100 feet

(10 points)

**100 feet or more**

**( 0 points)**

Wellhead protection area (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources )

Yes

(20 points)

**No**

**( 0 points)**

Distance to surface water. (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses )

Less than 200 feet

(20 points)

200 feet or more, but less than 1000 feet

(10 points)

**1000 feet or more**

**( 0 points)**

**Ranking Score (Total Points)**

0

If this is a pit closure: (1) attach a diagram of the facility showing the pit's relationship to other equipment and tanks (2) Indicate disposal location (check the onsite box if you are burying in place) onsite ☒ offsite ☐ If offsite, name of facility \_\_\_\_\_ (3) Attach a general description of remedial action taken including remediation start date and end date (4) Groundwater encountered No ☐ Yes ☐ If yes, show depth below ground surface \_\_\_\_\_ ft and attach sample results (5) Attach soil sample results and a diagram of sample locations and excavations

Additional Comments

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☒, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Date 12/7/2005

Printed Name/Title James L. Schultz, Agent

Signature [Signature]

Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Approval

Printed Name/Title \_\_\_\_\_

Signature \_\_\_\_\_

Date \_\_\_\_\_



**Southwest Petroleum  
Land Services, LLC**

100 N Pennsylvania  
Roswell, NM 88203  
(505) 622-6713  
(505) 622-9282 fax

December 12, 2007

Oil Conservation Division  
Bryan Arrant  
1301 W. Grand Avenue  
Artesia, NM

Re: H2S Contingency Plan- Remmele B Federal 5

Bryan,

Please see attached Contingency Plan-H2S for the Remmele B Federal 5 located in Sec 25, T6S, R22E 2130' FSL & 660' FWL in Chaves County. Should you need any further information, please contact me at 505-626-6879.

Sincerely,



Jim Schultz  
Agent for McKay Oil Corporation

MCKAY OIL CORPORATION  
PO BOX 2014  
ROSWELL, NM 88202-2014  
505-623-4735

HYDROGEN SULFIDE (H<sub>2</sub>S) CONTINGENCY PLAN FOR THE  
REMMELE B FEDERAL 5  
LOCATED IN UNIT L OF SEC 25, T6S, R22E IN  
CHAVES COUNTY, NEW MEXICO

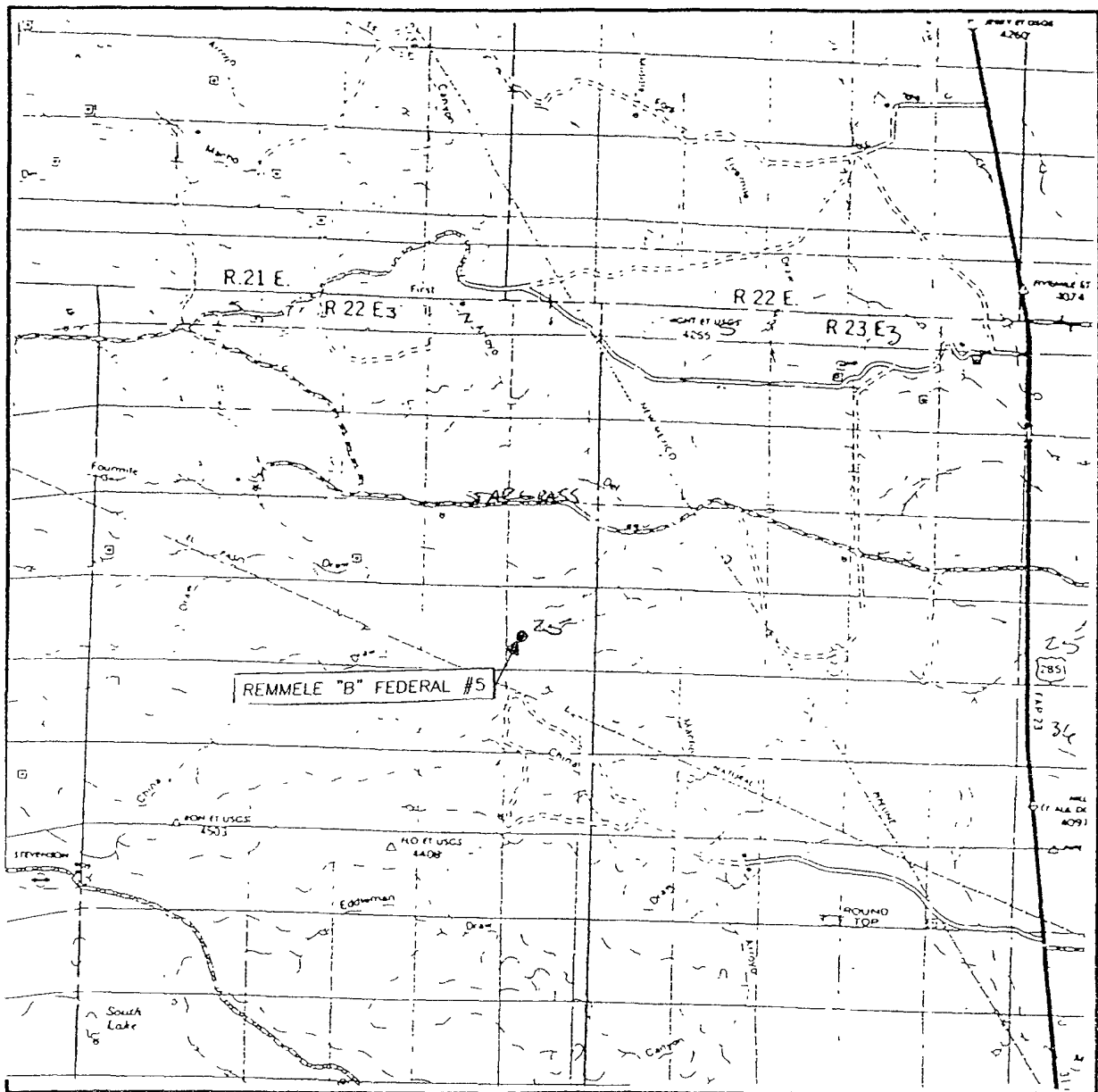
NO HYDROGEN SULFIDE OR OTHER HAZARDOUS GASES OR FLUIDS HAVE  
BEEN ENCOUNTERED, REPORTED OR KNOWN TO EXIST AT THIS DEPTH IN  
THIS AREA.

## **REMMELE B FEDERAL 5**

This is an open drilling Site. H2S monitoring equipment and emergency response equipment will be used within 500' of zones known to contain H2S, including warning signs, wind indicators and H2S monitor. Pumpers carry (MICROPACKS) H2S pocket testers at all times. Pulling units have an H2S indicator that puts off light and alarm on any indication of H2S being present.

MAPS – SEE ATTACHED

# VICINITY MAP



SCALE 1" = 2 MILES

SEC 25 TWP 6-S RGE. 22-E

SURVEY N.M.P.M.


COUNTY CHAVES STATE NEW MEXICO

DESCRIPTION 2130' FSL & 660' FWL

ELEVATION 4186'

OPERATOR MCKAY OIL CORPORATION

LEASE REMMELE "B" FEDERAL

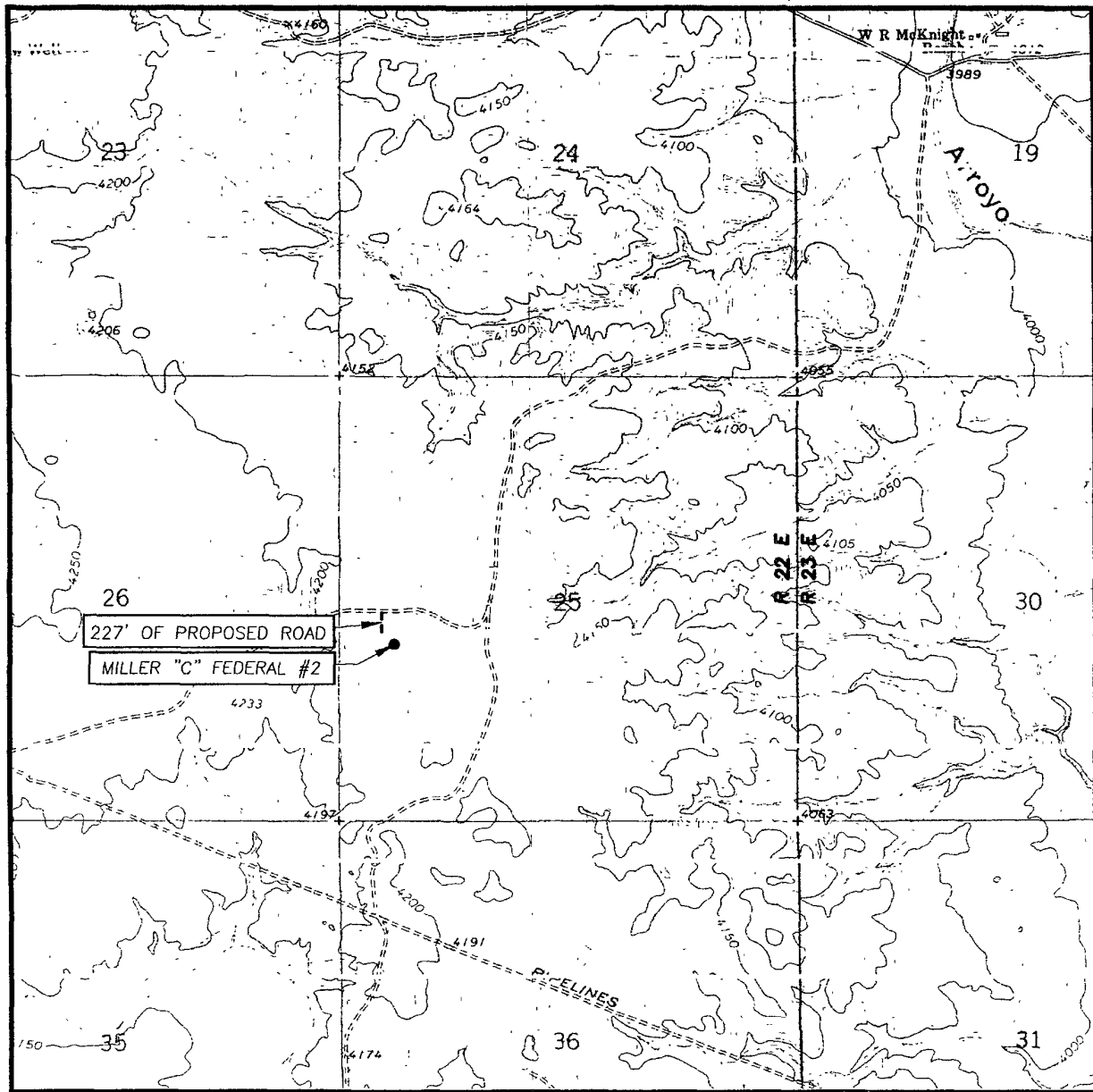


PROVIDING SURVEYING SERVICES  
SINCE 1946

**JOHN WEST SURVEYING COMPANY**

412 N. DAL PASO  
HOBBS, N.M. 88240  
(505) 393-3117

# LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL:  
MESA SW, N.M. - 10'

SEC. 25 TWP. 6-S RGE. 22-E

SURVEY N.M.P.M.

COUNTY CHAVES STATE NEW MEXICO

DESCRIPTION 2130' FSL & 660' FWL

ELEVATION 4186'

OPERATOR MCKAY OIL CORPORATION

LEASE REMMELE "B" FEDERAL

U.S.G.S. TOPOGRAPHIC MAP  
MESA SW, N.M.



PROVIDING SURVEYING SERVICES  
SINCE 1946  
**JOHN WEST SURVEYING COMPANY**  
412 N. DAL PASO  
HOBBS, N.M. 88240  
(505) 393-3117

## EMERGENCY PROCEDURES

In the case of a release of gas containing H<sub>2</sub>S, the first responder must isolate the area and prevent entry by other persons into the 100 ppm ROE. Additionally the first responder must evacuate any public spaces encompassed by the 100 ppm ROE. First responder must take care not to injure themselves during this operation. Company and or local officials must be contacted to aid in this operation. Evacuation of the public should be beyond the 100 ppm ROE.

All responders must have training in the detection of H<sub>2</sub>S measures for protection against the gas, equipment used for protection and emergency response. Additionally, responders must be equipped with H<sub>2</sub>S monitors and air packs in order to control the release. Use the "buddy system" to ensure no injuries occur during the response.

## IGNITION OF GAS SOURCE

Should control of the well be considered lost and ignition considered, take care to protect against exposure of sulfur Dioxide (SO<sub>2</sub>). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever there is an ignition of the gas.

## CHARACTERISTICS OF H<sub>2</sub>S & SO<sub>2</sub>

COMMON NAME	CHEMICAL FORMULA	SPECIFIC GRAVITY	THRESHOLD LIMIT	HAZARDOUS LIMIT	LETHAL CONCENTRATION
HYDROGEN SULFIDE	H <sub>2</sub> S	1.189 AIR=1	10 PPM <sub>4</sub>	100 PPM/HR	600 PPM
SULFUR DIOXIDE	SO <sub>2</sub>	2.21 AIR=1	2 PPM	N/A	1000 PPM

## CONTACTING AUTHORITIES

McKay Oil Corporation personnel must liaison with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. be prepared with all information available. The following call list of essential and potential responders must be in coordination with the State of New Mexico's Hazardous Materials Emergency Response Plan (HMER).

## MCKAY OIL CORPORATION CALL LIST

CHAVES COUNTY (505)	OFFICE	CELL PHONE	HOME PHONE
JIM ROBINSON	625-1154	626-8579	624-1093
ROY MCKAY	623-4735	626-8571	623-4735

### CHAVES COUNTY (505) ROSWELL

STATE POLICE	622-7200
CITY POLICE	911 or 624-6770
SHERIFF'S OFFICE	624-6500
AMBULANCE	911
FIRE DEPARTMENT	624-6800
LEPC (Local Emergency Planning Committee)	Teresa Barncastle 624-6770 ext 129
NMOCD	748-1283
ENMMC (Hospital)	622-8170