### N.M. Oil Cons. DIV-Dist. 2 1301 W. Grand Avenue

RECEIVED MAY 2 6 2004

Artesia, NM 88210

BEB:ARTESIA

F -3 orm 3160 (September 2001)	,			OMB N	APPROVED No. 1004-0136 January 31, 20	04	
UNITED STATES  DEPARTMENT OF THE  BUREAU OF LAND MAN	INTERIOR			5. Lease Serial No. NM 91498			
APPLICATION FOR PERMIT TO		ITER		6. If Indian, Alloted	e or Tribe Na	me	
la. Type of work: DRILL REENT	ER			7 If Unit or CA Agr	reement, Nam	e and No.	
lb. Type of Well: Oil Well Gas Well Other	Single Zone	Multip	le Zone	8. Lease Name and	Well No.	ctusi	Fed Coms
2. Name of Operator MCKAY OIL CORPORATION				9. API Well No.	005	-63	- 3663
3a. Address P.O. BOX 2014, ROSWELL, NM 88202-2014	3b. Phone No. (include 505-623-4735	area code)		10. Field and Pool, or W. PECOS A			-
Location of Well (Report location clearly and in accordance with an At surface 660' FSL & 2310' FEL  At proposed prod. zone	ny State requirements.*)			11. Sec., T. R. M. or I			
4. Distance in miles and direction from nearest town or post office*  APPROXIMATELY 25 MILES				12. County or Parish CHAVES	1:	3. State	— м
is Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No. of acres in lea	se	17. Spacir	ng Unit dedicated to this	well		
3. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.  APPROX 900'	19. Proposed Depth 3400'		20. BLM/	BIA Bond No. on file			<del></del>
Elevations (Show whether DF, KDB, RT, GL, etc.) 4153'	22. Approximate date 04/15/		t*	23. Estimated duration 7-10 DAYS	on		
	24. Attachments						
ne following, completed in accordance with the requirements of Onsho  Well plat certified by a registered surveyor.  A Drilling Plan.  A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office).	Lands, the 5. Ope 6. Su	nd to cover the n 20 above). erator certification	e operation	uis form: ons unless covered by automation and/or plans a	_		•
5. Signature  Up 100 - Market  tle	Name (Printed)	Typed) D. MCKAY			Date 02/01/	2004	
V.P.	,						
pproved by (Signature) /S/LARRY D. BRAY	Name (Printed)	Typed) /SAL	ARRY	O. Bray	MAY	25	2004
tte Assistant Field Manager, Lands And Minerals		SWELL					
pplication approval does Activation ancertify that the applicant which induct operations thereon and a fine falls on differentially and the second and the s	ls legal or equitable title	to those right	s in the sub	oject lease which would	entitle the app	licant to	
itle 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a cates any false, fictitious or fraudulent statements or representations as			illfully to n	nake to any department	or agency of	the Unite	<del>===</del> d

APPROVED FOR 1 YEAR

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED

NS L- S074

\*(Instructions on page 2)



### NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON

Joanna Prukop
Cabinet Secretary
Acting Director
Oil Conservation Division

1 June 2004

McKay Oil Corporation P. O. Box 2014 Roswell, New Mexico 88202

RE:

Pit Permit - Cactus Fed. Com # 7

660'FSL & 2310'FEL

Unit O SEC-35 T-6S R-22E

The Oil Conservation Division of Artesia is in receipt of your application for permit to drill. Construction of a pit(s) for the purpose of drilling is approved under your current "General Plan" with the following provisions:

- 1. Construction and closing of pit(s) must meet the criteria of Rule 19.15.2.50 and the Pit Guidelines.
- 2. The pit is not located in any watercourse, lakebed, sinkhole, playa lake, or wetland.
- 3. Notice is to be given to the OCD prior to construction of the pit(s).
- 4. Pit(s) must meet all requirements of approved plan.
- 5. Liner must be a minimum of 12 mil. woven.
- 6. Depth to groundwater may cause the pit's contents and the liner to be removed and disposed of in a manner approved by the Division.
- 7. Pit encapsulations must meet all specific criteria including, but not limited to:
  - A. Site evaluation
  - B. Liner thickness and type must meet requirements as per guidelines.
  - C. Amount of and type of cover
  - D. Drill cuttings will be sampled as per guidelines. Notify OCD 48 hours prior to any sampling event
  - E. In the event that the integrity of the pit lining is breached in a manner such that soil contamination would result, the contents of the pit will have to be disposed of in an approved OCD facility.
- 8. The Division may attach additional conditions to any permit upon a finding that such conditions are necessary to prevent the contamination of fresh water, or to protect public health or the environment. (19.15.2.50.C.3.G.1.)

If I can be of any further assistance, please feel free to call (505) 748-1283 ext. 109.

Sincerely,

Van Barton

ROY L. MCKAY, PRESIDENT

MAILING ADDRESS: P.O. Box 2014 Roswell, N.M. 88202 • TELEPHONE 505 / 623 - 4735 STREET ADDRESS: ONE MCKAY PLACE ROSWELL, N.M. 88201 • FAX No. 505 / 624 - 2202

OIL & GAS

June 2, 2004

Oil Conservation Division Bryan Arrant 1301 W. Grand Avenue Artesia, NM 88210

RE: Glorieta

Mr. Arrant:

McKay Oil Corporation has been drilling in T6S, R22E in Chaves County. We are in compliance with Rule #106 in covering the Glorieta. The past 2 wells have had casing run and cemented passed 1000 foot. We are going to continue drilling in this area and will stay in compliance with Rule #106 as we continue to drill. Should you have any questions, please do not hesitate to call 505-623-4735.

Sincerely,

April McKay

RECEIVED

JUN 0 3 2004

OSD-ARTESIA

DISTRICT I 1625' N. French Dr., Hobbs, NM 88240 State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102
Revised August 15, 2000
Submit to Appropriate District Office
State Lease - 4 Copies

Pool Name

State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT II 811 South First, Artesia, NM 88210

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV 1220 S. St. Francis Dr., Santa Fe, NM 87506

API Number

#### OIL CONSERVATION DIVISION

1220 South St. Francis Dr. Santa Fe, New Mexico 87505

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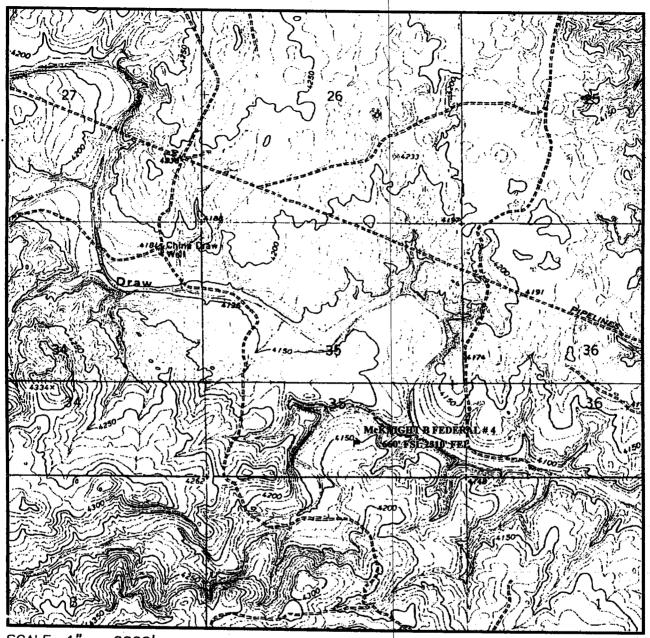
AMENDED REPORT

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

Pool Code

					1	Ĭ			
Property C	ode	McKNI	GHT B	FEDERAL	Property Nam	е		Well Num	nber
OGRID No	•	McKA	OIL CO	ORPORA	Operator Nam	e		Elevation 4153	
		·			Surface Loca	ation			
O lot No.	Section 35	Township 6 S	Range 22 E	Lot Idn	Feet from the 660	North/South line SOUTH	Feet from the 2310	East/West line EAST	County CHAVE
		l	Rottom	Hole Lo	cation If Diffe	rent From Su	rface	<u></u>	.1
L or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
					ř			·	
Dedicated Acres	<u> </u>		nsolidation		der No.				
NO ALLO	WABLE V	OR A 1	SSIGNED NON-STAN	TO THIS	COMPLETION UNIT HAS BEEN	APPROVED BY	RESTS HAVE BI	EEN CONSOLID	ATED
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					1		SURVEY	OR CERTIFICA	TION
							I hereby certif	y that the well locat	ion shown
							on this plat w	as plotted from field	notes of
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				4	2	310'		POFESSIONIN	fer
	•			4,099	2	310'		No. TOOD P. WAGENER	MMPS # 9:

### LOCATION VERIFICATION MAP



SCALE: 1'' = 2000'

SEC. 35 TWP. 6 S RGE. 22 E

SURVEY\_\_\_N.M.P.M.

COUNTY\_ CHAVES

DESCRIPTION 660' FSL & 2310' FEL

ELEVATION 4153

OPERATOR McKAY OIL CORPORATION

LEASE McKNIGHT B FEDERAL # 4

U.S.G.S. TOPOGRAPHIC MAP

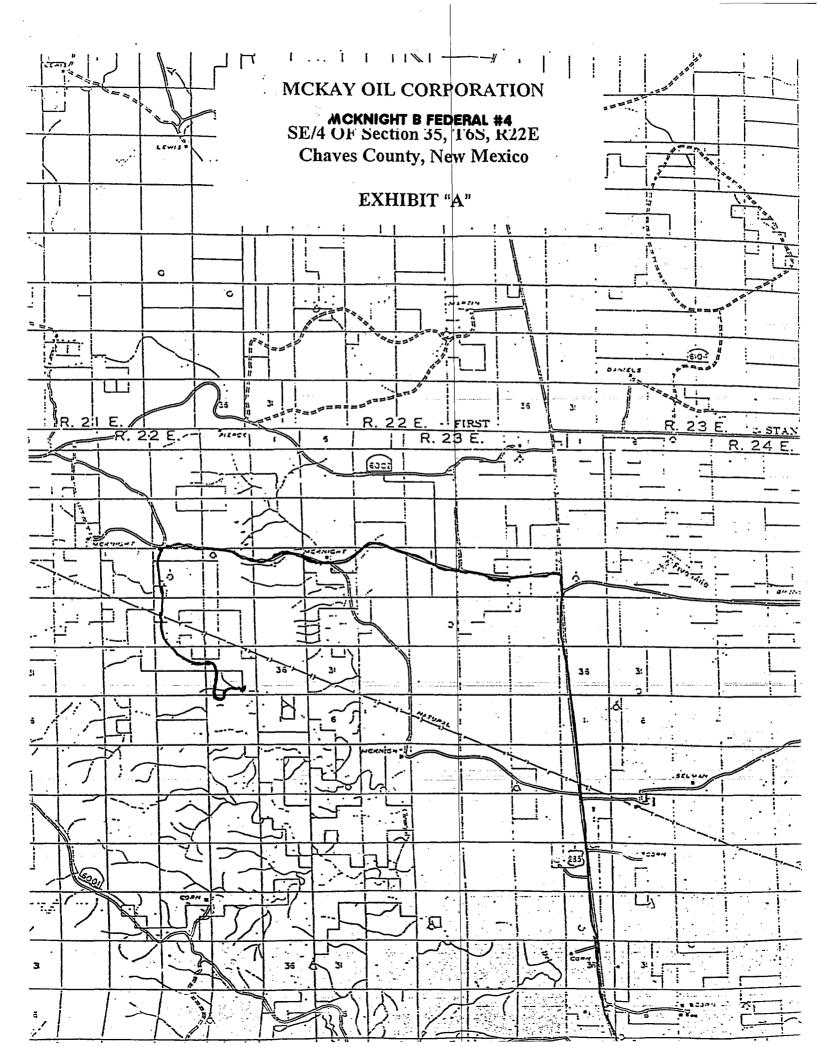
MESA SW. NW &

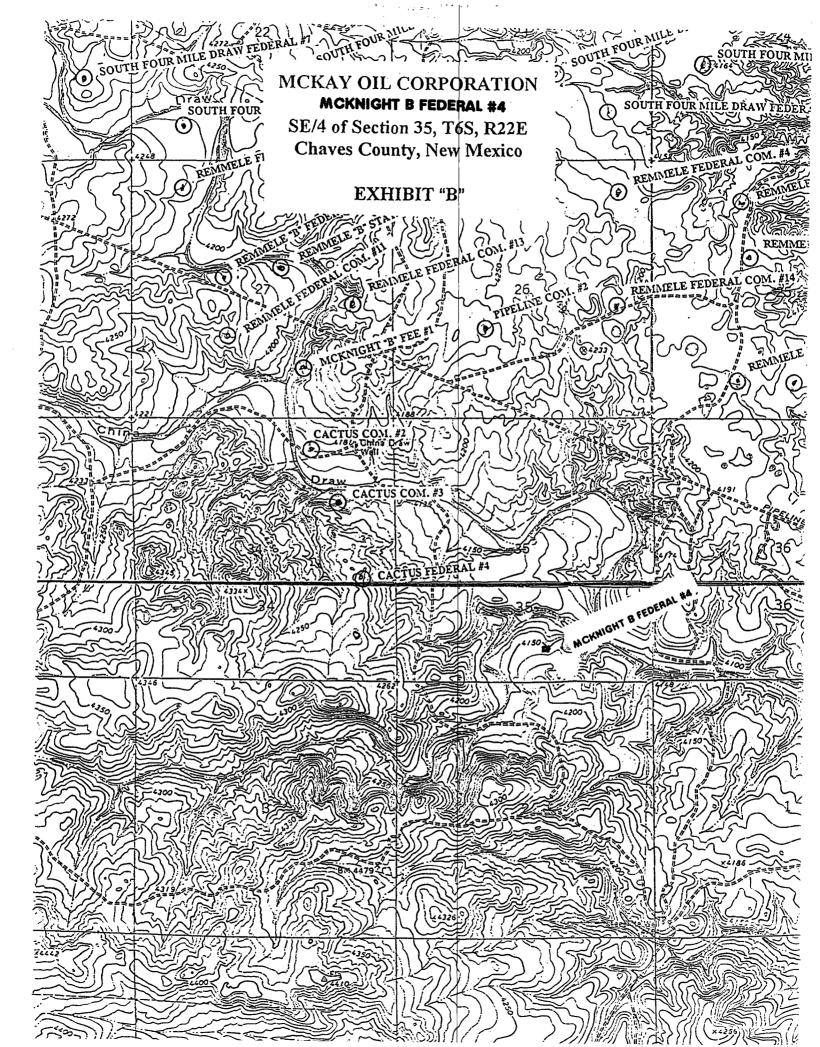
ROCK HOUSE CANYON, NM

CONTOUR INTERVAL: 10'

WAGENER **E**ENGINEERING

1410 N. MISSOURI AVE. ROSWELL, N. M. 88201 (505) 623-8382

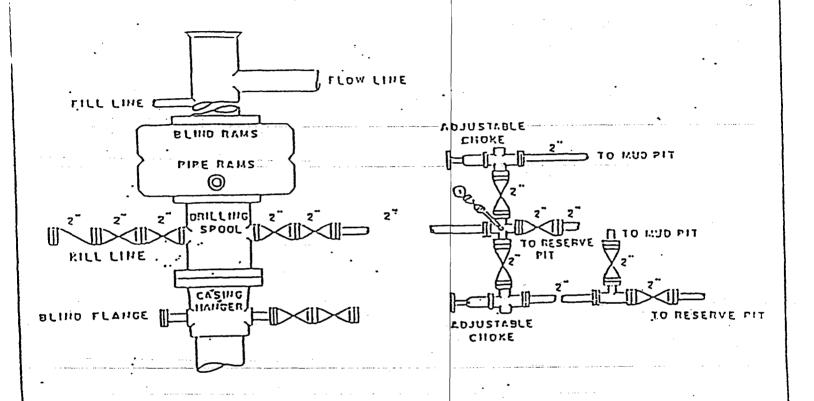


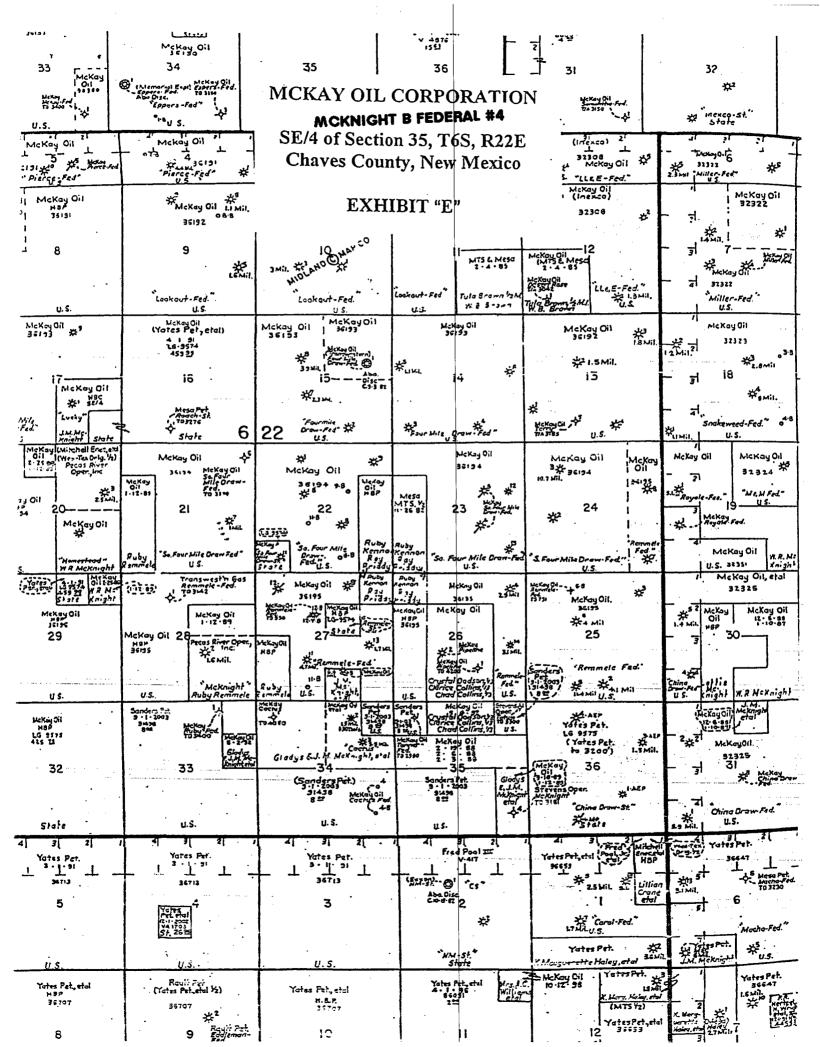


### MCKAY OIL CORPORATION C. MCKNIGHT B FEDERAL #4

SE/4 of Section 35, T6S, R22E Chaves County, New Mexico

#### EXHIBIT "D"





#### PERTINENT INFORMATION

FOR

# MCKAY OIL CORPORATION MCKNIGHT B FEDERAL #4 660' FSL & 2310' FEL Sec. 35, T6S, R22E Chaves County, New Mexico

LOCATED:	25 air miles Northwest of Roswell, NM.
LEASE NUMBER:	NM-91498
LEASE ISSUED:	September 1, 1993
RECORD LESSEE:	McKay Petroleum Corporation
BOND COVERAGE:	Operator's \$25,000 Statewide
AUTHORITY TO OPERATE:	Assignment of Operating Rights
ACRES IN LEASE:	1,240.00 acres, more or less
SURFACE OWNERSHIP:	Federal
<u>OWNER</u> :	USA-BLM
POOL RULES:	General Statewide Rules
EXHIBITS:	A. Road and Well Map

B. Contour Map

C. Rig Layout
D. BOP Diagram

#### SUPPLEMENTAL DRILLING DATA

## MCKAY OIL CORPORATION MCKNIGHT B FEDERAL #4 660' FSL & 2310' FEL Sec. 35, 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 - 876'

Tubb - 2372'

Abo - 2600'

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

Fresh Water - In surface formation above 600'

Gas - In Abo Formation below 2600'

4. PROPOSED CASING PROGRAM:

12-1/4" hole

8-5/8" X-42

24#

950'+

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.

#### SUPPLEMENTAL DRILLING DATA

## MCKAY OIL CORPORATION MCKNIGHT B FEDERAL #4 660' FSL & 2310' FEL Sec. 35, T6S, R22E Chaves County, New Mexico

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

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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.
- 8. **CIRCULATION MEDIUM**: Air Drilling
- 9. <u>AUXILIARY EQUIPMENT</u>: 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. <u>ABNORMAL PRESSURES, TEMPERATURES OR HYDROGEN SULFIDE</u>: None anticipated.
- 12. ANTICIPATED STARTING DATE: On or before May 1, 2004
  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 MCKNIGHT B FEDERAL #4 660' FSL & 2310' FEL Sec. 35, T6S, R22E Chaves County, New Mexico

#### NM 91498

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 21 miles north of Roswell, NM.
- B. <u>Directions</u>: Heading North out of Roswell, New Mexico on U.S. 285 for approximately 21 miles and turn left on county road just before mile marker 137 (Cottonwood Road). Go approximately 2.0 miles, then turn north for approximately 1/4 mile to the lease road, turn west for approximately 1/2 mile, then turn south 1/4 mile to the location.

#### 2. PLANNED ACCESS ROAD:

- A. Length and Width: 1/4 mile long and 20' wide.
- B. Surface Materials: Sand, gravel and caliche where needed.
- C. Turnouts: None
- D. Maximum Grade: No more than 3%.
- E. <u>Drain Design</u>: 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, Cattleguards: 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. <u>Cuts and Fills</u>: Less than 10' of cut and fill will be required for the pad size of 400' x 400'. (See Exhibit "F")
- C. <u>Top Soil</u>: Any top soil 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. <u>Topography</u>: The topography is a gradual slope to the south in the vicinity of the access road and south-southwest in the vicinity of the drill pad. Regional slope is south-southwest toward the Arroyo del Macho, which is south-southwest of the location.
- B. Soil: Sandy loam with limestone outcropping.

- C. <u>Flora and Fauna</u>: The flora consists of typical desert vegetation, such as yucca, cactus and various grasses. Fauna consists of desert wildlife such as coyotes, rodents, snakes, dear and antelope.
- D. <u>Ponds and Streams</u>: Arroyo del Macho south-southwest of the proposed location.
- E. Residences and other Structures: The David Corn ranch house (old W.R. McKnight Ranch) is approximately 1 mile to the south-southwest.
- F. <u>Archaeological</u>, <u>Historical and Other Cultural Sites</u>: An Archaeologist from Roswell, NM will be contracted to check and approve this site and access road.
- G. Land Use: Grazing.
- H. Surface Ownership: USA-BLM.

#### 12. OPERATOR'S REPRESENTATIVE:

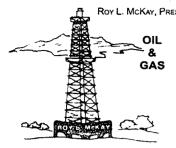
Humberto Perez Roswell, New Mexico (505) 623-4735 (O) (505) 626-8580 (C)

#### 13. <u>CERTIFICATION</u>:

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 he 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 subcontractors 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.

DATE





MAILING ADDRESS: P.O. Box 2014 Roswell, N.M. 88202 • Telephone 505 / 623 - 4735 STREET ADDRESS: ONE McKay Place Roswell, N.M. 88201 • Fax No. 505 / 624 - 2202

February 12, 2004

Oil Conservation Division Bryan Arrant 1301 W. Grand Avenue Artesia, NM 88211

Re: H2S Contingency Plan-McKnight B Federal #4

Bryan,

Please see attached Contingency Plan-H2S for the McKnight B Federal #4 located in Sec 35, T6S, R22E 660' FSL & 2310' FEL in Chaves County. Should you need any further information, please contact me at 505-623-4735.

Sincerely,

Que Mocho

April McKay
Vice President

#### MCKAY OIL CORPORATION P.O. BOX 2014 ROSWELL, NM 88202-2014 505-623-4735

## HYDROGEN SULFIDE (H2S) CONTINGENCY PLAN FOR THE MCKNIGHT B FEDERAL #4 LOCATED IN SEC 35, 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.

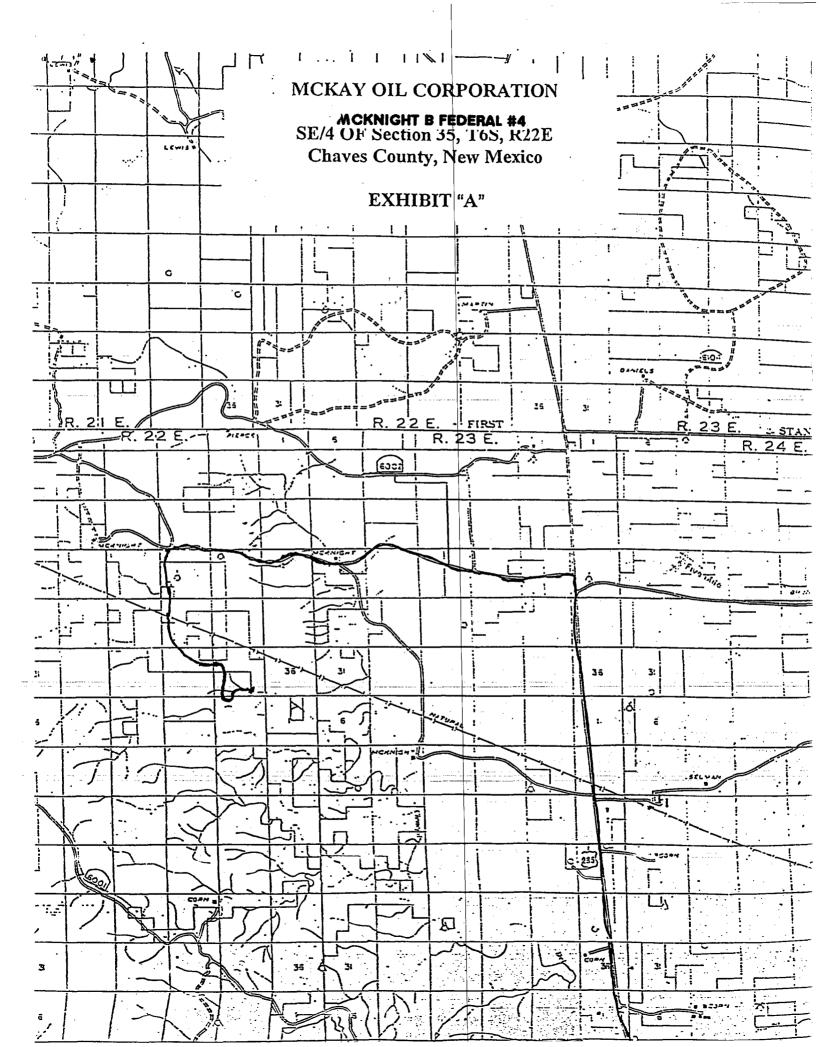
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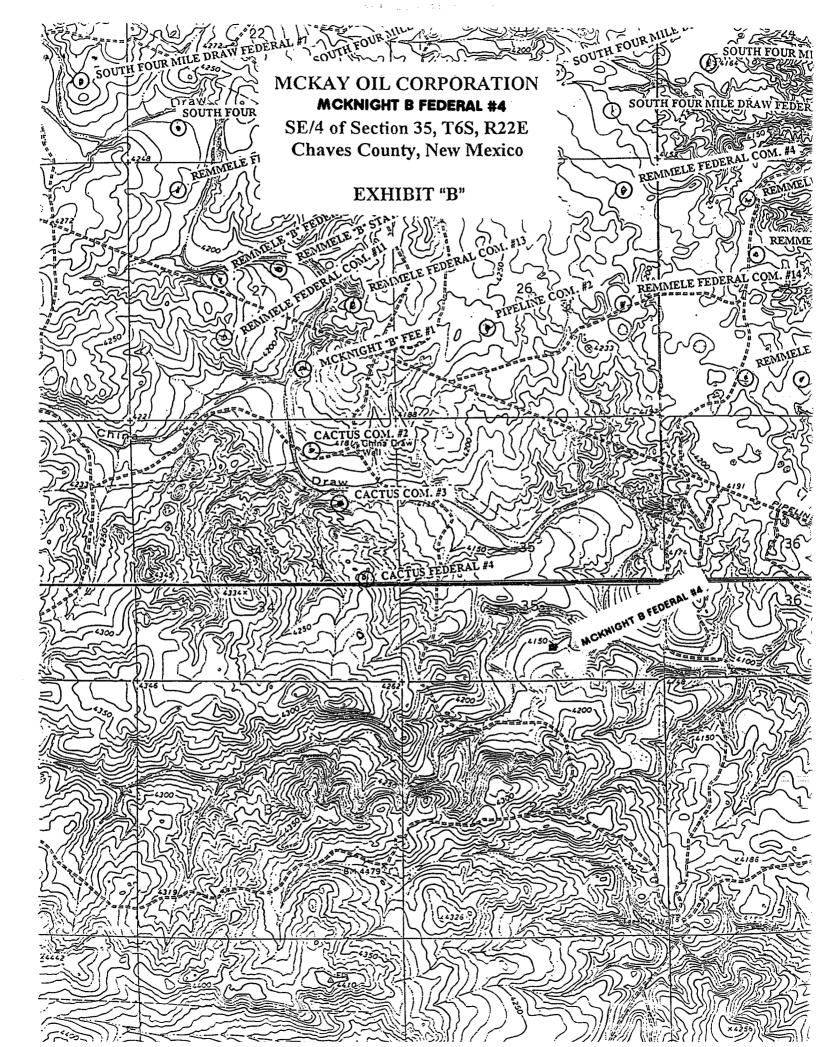
#### MCKNIGHT B FEDERAL #4

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 has an H2S indicator that puts off light and alarm of any indication of H2S being present.

MAPS-SEE ATTACHED

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#### **EMERGENCY PROCEDURES**

In the case of a release of gas containing H2S, 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 the 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 H2S measures for protection against the gas, equipment used for protection and emergency response. Additionally, responders must be equipped with H2S monitors and air packs on 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 (SO2). 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 H2S & SO2**

COMMON NAME	CHEMICAL FORMULA	SPECIFIC GRAVITY		HAZARDOUS LIMIT	LETHAL CONCENTRATION
HYDROGEN SULFIDE	H2S	1.189 AIR =1	10 PPM4	100 PPM/HR	600 PPM
 SULFUR DIOXIDE	SO2	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	<b>HOME PHONE</b>
<b>HUMBERTO PEREZ</b>	625-1154	626-8580	627-1985
JIM ROBINSON	625-1154	626-8579	624-1093
APRIL MCKAY	623-4735	626-8575	625-2848

#### 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