Form 3160-3 (November 1983) (formerly 9-331C)

NM Oil Cons. Commission Drawer DD SUBMIT IN TO TCAT
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reverse side) Artesia.

TCATE

0-005-6284	8
Budget Bureau No. 1004-0136 Expires August 31, 1985	

**UNITED STATES** DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT					NM-78339	AND BERIAL NO.	
APPLICATION	6. IF INDIAN, ALLOTTE	S OR TRIBE NAME					
la. TYPE OF WORK DRIL	L [X]	DEEPEN []	PLUG BAG	CK 🗆	7. UNIT AGREEMENT I	AME	
b. TYPE OF WELL							
WELL WE	LL X OTHER		SINGLE X MULTIP		8. FARM OR LEASE NA		
McKay (	1991	Theresa F	ederal				
ADDRESS OF OPERATOR					1		
P.O. Bo	ox 2014, Roswel	1, New Mexico	88202 O. C. I	ERICE	10. FIELD AND POOL,		
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990'F At proposed prod. zone	WL-990'FNL	ut S			AND SURVEY OR A	REA	
same		/M .>			Sec. 4, T	2-5S, $R-21H$	
4. DISTANCE IN MILES AN	ND DIRECTION FROM NEAF	REST TOWN OR POST OF	FICE*		12. COUNTY OR PARISE	13. STATE	
34 ai	r miles from				Chaves	NM	
DISTANCE FROM PROPOS LOCATION TO NEAREST PROPERTY OR LEASE LII (Also to nearest drlg.	NE, FT.	990'	1,923.32		FACRES ASSIGNED IS WELL		
8. DISTANCE FROM PROPOS TO NEAREST WELL, DRI	SED LOCATION®	19.	PROPOSED DEPTH		T OR CABLE TOOLS		
OR APPLIED FOR, ON THIS	LEASE, FT.	none	3,400	Ro	Rotary		
1. ELEVATIONS (Show wheth	•				ASAP	BK WILL START*	
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SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	<u>-</u>	QUANTITY OF CEME	NT	
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6 1/4"	4 1/2"	9.5# J-55	TD	Sufficient to isolate all			
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(This space for Federa	al or State office use)						
PERMIT NO.			APPROVAL DATE				
APPROVED BYS	/Homer Meyer, Actin	g TITLE	Area Manager		DATE APR	2 5 1991	
CONDITIONS OF APPROVA	L, IF ANY :						

APPROVAL OF THIS APPLICATION DOES NOT WARRANT OR PLEASE BE ADVISED THAT THERE WILL BE NO EXCAVATION CERTIFY THAT THE APPLICANT HOLDS LEGAL OR EQUITABLE OF FEDERALLY OWNED MINERAL MATERIAL FOR CONSTRUC-TITLE TO THOSE RIGHTS IN THE SUBJECT LEASE WISIGHIMIGHTONS ON RENETS; SITE ACCES. RUAD OR PAD WITHOUT LEAYMENT United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Parker Williams

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ubmit to Appropriate district Office tate Lease - 4 copies ec Lease - 3 copies

# State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088 Santa Fe, New Mexico 87504-2088

<u>ISTRICT |</u> IO. Box 1980, Hobbs, NM 88240

DISTRICT II 20. Drawer DD, Artesia, NM 88210

WELL LOCATION AND ACREAGE DEDICATION PLAT DISTRICT III All Distances must be from the outer boundaries of the section 000 Rio Brazos Rd., Aztec, NM 87410 Well No. #1 Theresa Federal McKay Oil Corporation Township Section Unit Letter Chaves 5S. 21E. NMPM Actual Footage Location of Well: feet from the North 990 West line 99Ŏ line and feet from the Dedicated Acreage: Pool Producing Formation Ground level Elev. 160 Acres 4419 Pecos Slope Abo W. ABO 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.? If answer is "yes" type of consolidation k No Yes If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division. OPERATOR CERTIFICATION I hereby certify that the information contained herein in true and complete to the best of my knowledge and belief. Signature Printed Name 990  $Sam_{\underline{\phantom{a}}}$ Shackelford Position Agent Company Section 4, T.59., R.21E., N.M.P.M. McKay Oil Corp. 4-7-91 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field hotes of actual surveys made by me or under my supervison, and that the same is true and correct to the best of my knowledge and belief. Date Surveyed 4/2/91 JAQUES, Signature & Scal of Professional Surveyo

500

1000

1500

2000

1980 2310 2640

1320

990

330

660

1650

## PERTINENT INFORMATION

For

MCKAY OIL CORPORATION
Theresa Federal #1
NW/4NW/4 of Sec. 4, T-5S, R-21E
Chaves County, New Mexico

LOCATED:

35 air miles Northwest

of Roswell, N.M.

LEASE NUMBER:

NM-78339

LEASE ISSUED

May 1, 1981

RECORD LESSEE:

McKay Oil Corporation

McKay Children,s Trust

**BOND COVERAGE:** 

Lessee's \$25,000 Statewide

**AUTHORITY TO OPERATE:** 

Designation of Operator

ACRES IN LEASE:

1,923.32 acres, more or less

SURFACE OWNERSHIP:

Federal

**OWNER:** 

USA-BLM

POOL RULES:

General Statewide Rules

EXHIBITS:

A. Road and Well MapB. Contour Map

C. Rig Layout
D. BOP Diagram

E. Lease Map

F. Location Topography

# SUPPLEMENTAL DRILLING DATA

MCKAY OIL CORPORATION
Theresa Federal #1
NW/4NW/4 of Sec. 4, T-5S, R-21E
Chaves County, New Mexico

NM-78340

The following items supplement Form 9-331C in accordance with instruction contained in NTL-6.

- 1. SURFACE FORMATION: San Andres
- 2. ESTIMATED TOPS OF GEOLOGICAL MARKERS:

Yeso - 680' Tubb - 2380' Abo - 3080'

- 3. ESTIMATED DEPTHS TO WATER, OIL OR GAS FORMATION:

  Fresh Water In surface formation above 600'

  Gas In Abo formation below 3080'
- 4. PROPOSED CASING PROGRAM: See Form 9-331C
- 5. PRESSURE CONTROL EQUIPMENT: Blowout preventer will consist of a control head 1,500#WP and 3,000# test pressure. Upon availability of air rig the blowout preventer will consist of Rotary Head with a rotating rubber with 2,000#Wp and 4,000# test pressure and a steel Blooey Line with 1,500#WP valve. A sketch of the BOP is attached.
- 6. CIRCULATING MEDIUM:

Fresh water through surface, then Abo water through remainder to TD.

7. 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.

8. 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

9. ABNORMAL PRESSURES, TEMPERATURES OR HYDROGEN SULFIDE: None anticipated.

10. ANTICIPATED STARTING DATE: On or before May 1, 1991
Drilling should be completed within 60 days.
Completion operations (perforations and stimulation)
will follow drilling operations.

# MULTI-POINT SURFACE USE AND OPERATIONS PLAN

McKAY OIL CORPORATION
Theresa Federal #1
NW/4NW/4 Sec. 4-5S-21E
Chaves County, N.M.

NM-78339

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 as staked. The well is approximately 35 miles North of Roswell, N.M.
- B. <u>Directions</u>: Heading North out of Roswell,
  New Mexico on U.S. 285 for approximately 23
  miles and turn left on county road just before
  mile marker 137 (Cottonwood Road). Go approximately 3.0 miles, then turn north for 1 1/4 miles,
  then west to the cattleguard, turn west for 2 3/4
  miles, then turn north in SW/4SW/4 of sec. 31 for 3
  miles, then west for 3/4 miles to TX-NM pipeline,
  then continue along pipeline 3.0 miles, then southwest 3/4 mile to location.

# 2. PLANNED ACCESS ROAD:

- A. Length and Width: 6 3/4 miles long and 14' wide.
- B. <u>Surfacing Materials</u>: Sand, gravel and caliche where needed.
- C. <u>Turnouts</u>: two
- D. Maximum Grade: No more than 3%.
- E. <u>Drainage 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. <u>Gates, Cattleguards</u>: Cattleguards will be installed at fence crossing in SE/4SE/4NE/4 of sec. 24, 5S-21E and NW/4NW/4 of sec. 4, 5S-21E.
- 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. <u>See Exhibit "A"</u> 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 125' x 125'. (see Exhibit "F")
- C. <u>Top Soil</u>: Any top soil which can sustain plant vegatation will be bladed and piled for future rehabilitation.

#### 5. LOCATION AND TYPE AF 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. State Pit located in the SE/4SE/4 Sec. 36-5S-21E.

#### 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 buried in a separate trash pit and covered with a minimum of 24 inches of dirt or desposited in an approved sanitary landfill. All waste material will be contained by a netted container to prevent scattering by the wind. Location of the trash pit is shown on Exhibit "C".
- F. All trash and debris will be buried or 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. <u>Exhiabit "C"</u> indicates the relation location and demensions of the well pad, mud pits, reserve pit and major rig equipment.
- B. The location slopes to the southwest.
- 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 condition 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 distrubed area will be rehabilitated using the preserved soil mentioned in 2. I. and 4. C.

## 11. OTHER INFORMATION:

A. Topography: The topography has a slope to the

southwest in the vicinity of the access road and southwest in the vicinity of the drill pad. Regional slope is southwest toward the Fifteen Mile Arroyo which is approximately 1/2 mile from 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. <u>Ponds or Streams</u>: Fifeteen Mile Arroyo 1/2 mile southwest of the proposed location.
- E. <u>Residences and other Structures</u>: The J. M. Lewis ranch house is approximately 2 1/2 miles east of this location.
- F. Archaeological, Historical and Other Cultural Sites: An Archaeologist from Roswell, NM (A.S.C. Co.) has checked and approved this site and access road.
- G. Land Use: Grazing
- H. <u>Surface Ownership</u>: Federal

## 12. OPERATOR'S REPRESENTATIVE:

Gary Richburg Roswell, New Mexico (505) 623-4735

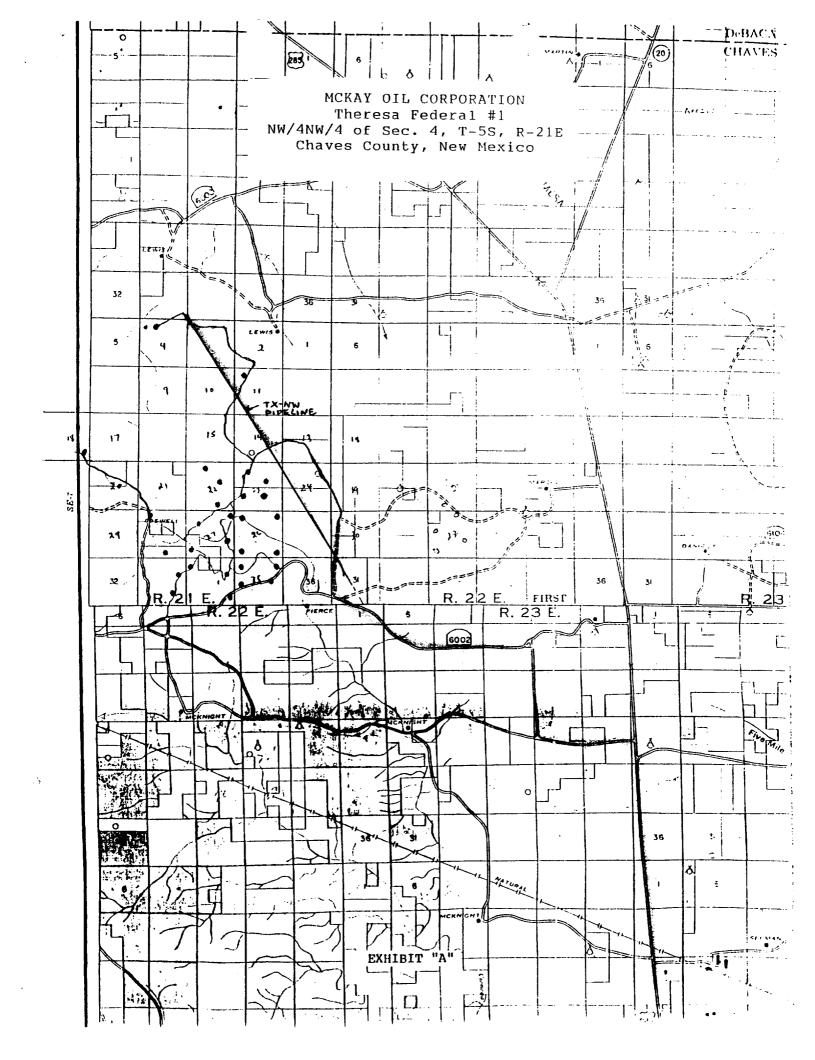
#### 13. CERTIFICATION:

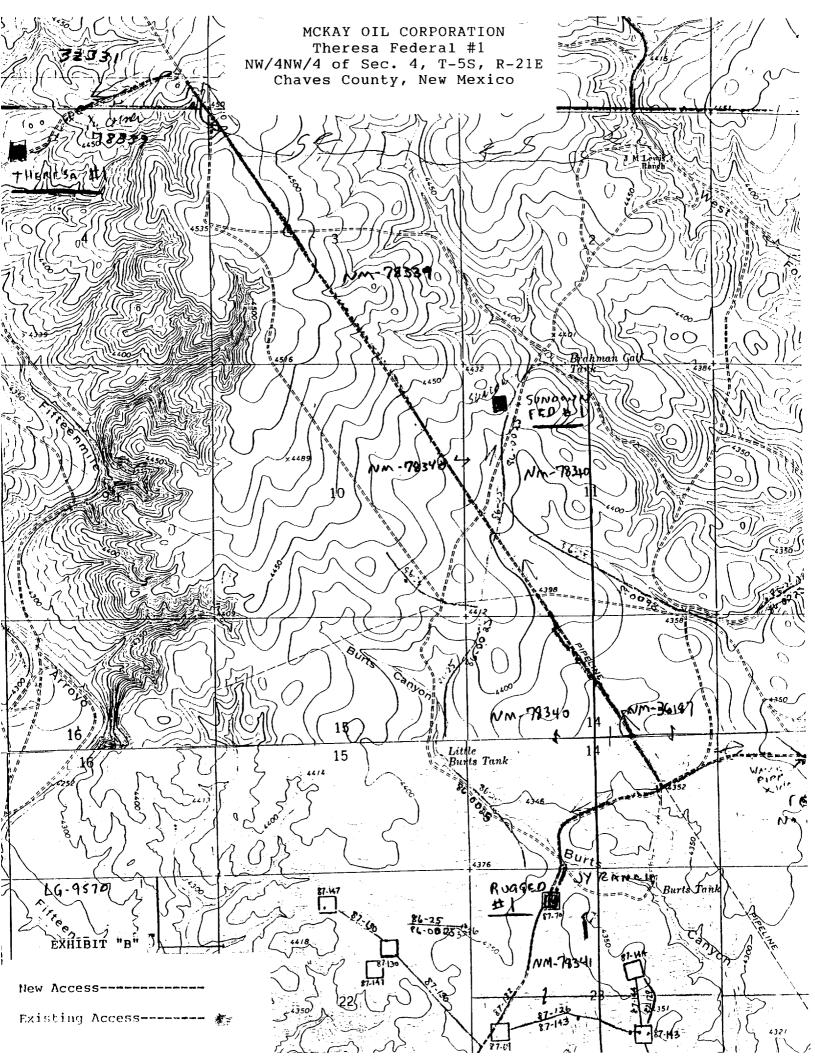
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exists; that the statements made in this plan are, to the best of my knowledge true and correct; that the work

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.

4-7-9

DATE:





MCKAY OIL CORPORATION
Theresa Federal #1
NW/4NW/4 of Sec. 4, T-5S, R-21E
Chaves County, New Mexico

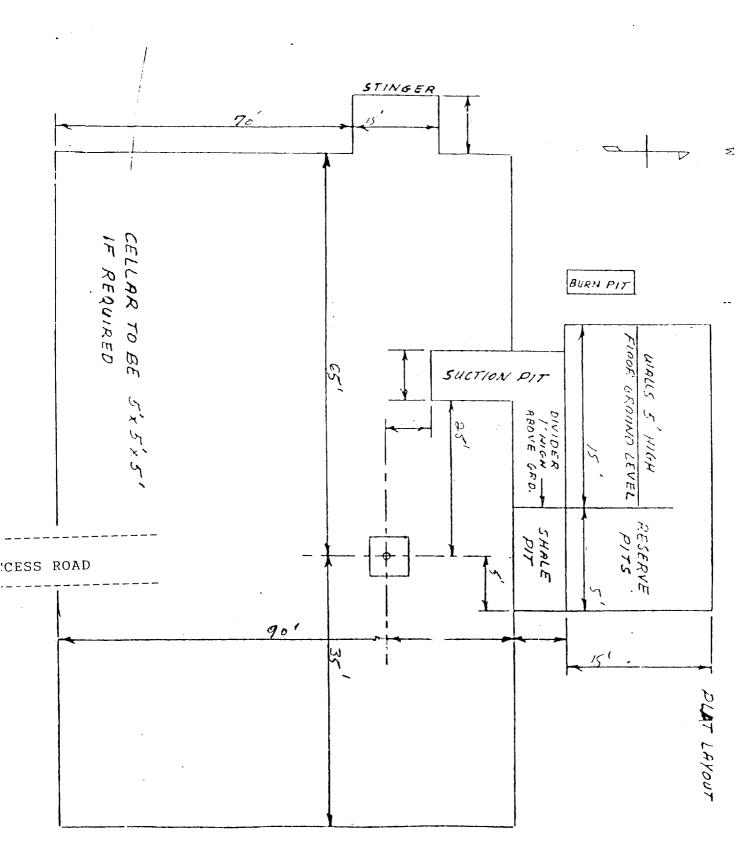
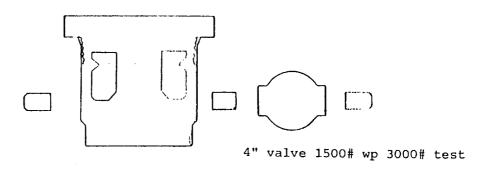


EXHIBIT C

## AIR RIG CONTROL HEAD

# full 10" opening



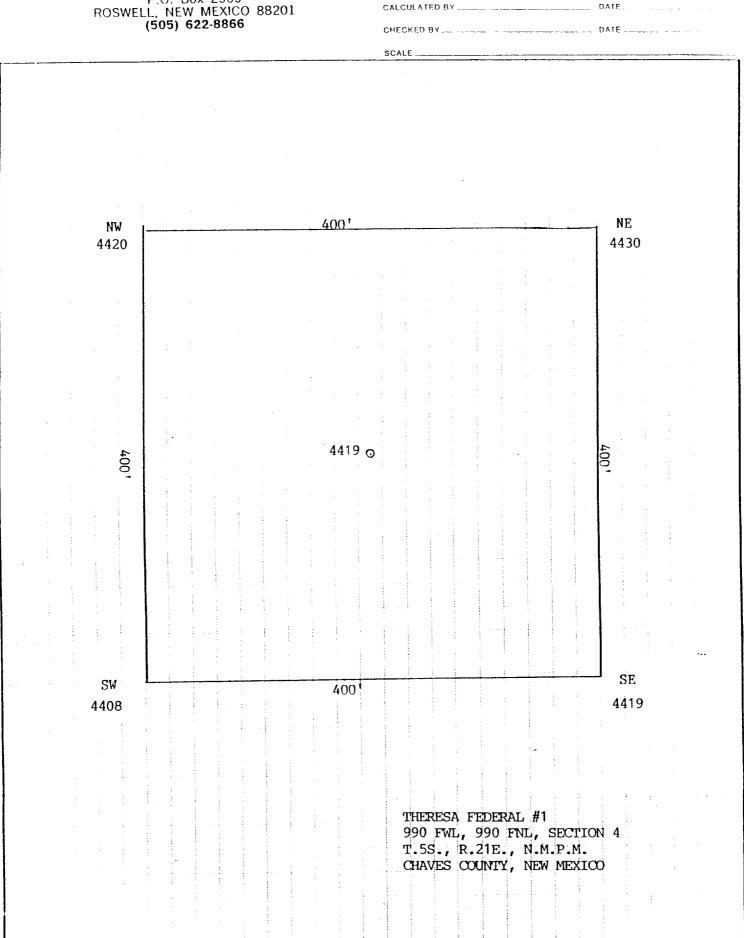
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# JOHN D. JAQUESS CONSULTING ENGINEERS

P.O. Box 2565

JOB 'NS	
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- F. Culverts: None
- G. Cuts and Fill: none
- H. Gates, Cattleguards: Cattleguards will be installed at fence crossing in SE/4SE/4NE/4 of sec. 24, 5S-21E, NW/4NW/4 of sec. 4, 5S-21E and NW/4NE/4 of sec. 10, 5S-21E.
- 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. <u>See Exhibit "A"</u> 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 125' x 125'. (see Exhibit "F")
- C. <u>Top Soil</u>: Any top soil which can sustain plant vegatation will be bladed and piled for future rehabilitation.

## 5. LOCATION AND TYPE AF 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. State Pit located in the SE/4SE/4 Sec. 36-5S-21E.

## 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.
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