Form 3160-3 (November 1983) NN Oil Cons. Commission

Form approved. Budget Bureau No. 1004-0136 Expires August 31, 1985
5. LEASE DESIGNATION AND SERIAL NO.
NM-78341
6. IF INDIAN, ALLOTTER OR TRIBE NAME
7. UNIT AGREEMENT NAME
S. FARM OR LEASE NAME
Rugged Federal
9. WELL NO.
1
10 FIFTH AND DOOR OF THE

Drawer DD SUBMIT IN TRIPLY
UNITED STATES Artesia, Motor Theorems on reverse side) (formerly 9-331C) DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT** APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK 1a. TYPE OF WORK DRILL X DEEPEN 📋 PLUG BACK b. TYPE OF WELL MULTIPLE ___ WELL X WELL 2. NAME OF OPERATOR McKay Oil Corporation APR 3 0 1991 3. ADDRESS OF OPERATOR P.O. Box 2014, Roswell, New Mexico 88202 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements, OFFICE W. Pecos Slope Abo 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 1,770'FWL-660'FNL At proposed prod. zone SEC. 23, T-5S, R-21E Same
14. Distance in Miles and direction from nearest town or post office. 12. COUNTY OR PARISH | 13. STATE 32 air mile from Roswell,
15. DISTANCE FROM PROPUSED*
LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
6601 Chaves NM 16. NO. OF ACRES IN LEASE 17. NO. OF ACRES ASSIGNED TO THIS WELL. 660' 2,240.0 160 (Also to nearest drig, unit line, if any) 18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT. 19. PROPOSED DEPTH 20. ROTARY OR CABLE TOOLS 3,400' Rotary 21. ELEVATIONS (Show whether DF, RT, GR, etc.) 22. APPROX. DATE WORK WILL START* 4,340' GR ASAP $\overline{23}$. PROPOSED CASING AND CEMENTING PROGRAM SIZE OF HOLE SIZE OF CASING WEIGHT PER FOOT SETTING DEPTH QUANTITY OF CEMENT 571 C 900 9 7/8" 7" 23# J-55 700 850 cf cement circ. _1/4" Sufficient to isolate all 9.5# J-55 water, oil and gas.

We propose to drill and test the Abo formation. Approximately 700' of surface casing will be set and cemented to surface. If commercial, 4 1/2" production casing will be run and cemented with adequate cover, perforated and stimulated as needed for production.

AIR DRILL FROM SURFACE TO TD.

Blowout preventer stack will consist of at least a rotary Head with BOP PROGRAM: stripper rubber and 4" blewy line with control valve.

Gas is not dedicated.

Post ID-1 5-10-91 Mew Loc + API

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposed is to deepen or plug back, give data on present productive sone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any. 24.

PERMIT NO.	 		APPROVAL DATE	APR 2 5 1991
(This space for Federal or Sta	ate office use)	TITLE	Agent	DATE 4-7-91

APPROVAL OF THIS APPLICATION DOES NOT WARRANT OR CERTIFY THAT THE APPLICANT HOLDS LEGAL OR EQUITABLE

PLEASE BE ADVISED THAT THERE WILL BE NO EXCAVATION OF FEDERALLY OWNED MINERAL MATERIAL FOR CONSTRUC-TITLE TO THOSE RIGHTS IN . . Z SUBJECT LEASE WHIRE INTERIOR PROPERTY SINCE ROAD OR PAU WITHOUT PAYMENT ENTITLE THE ARPISEAND 1907 MAINE PLANCE OF THE CONTROL OF THE CONTRO

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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

DISTRICT_II F.O. Drawer DD, Artesia, NM 88210

<u>MSTRICT I</u> F.O. Box 1980, Hobbs, NM 88240

7410

WELL LOCATION AND ACREAGE DEDICATION PLAT

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फुल्बाल					Lease				Well No.	
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							eof (both as to wor	king intere	st and royalty).	
3. If mo	ore than one le	ase of differe	nt ownership is o	ledicated to th	e well, have t	he interest of a	ll owners been con	solidated by	y communitization,	
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PERTINENT INFORMATION

For

MCKAY OIL CORPORATION
Rugged Federal #1
NE/4NW/4 of Sec. 23, T-5S, R-21E
Chaves County, New Mexico

LOCATED:

32 air miles Northwest

of Roswell, N.M.

LEASE NUMBER:

NM-78341

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:

2,240.0 acres, more or less

SURFACE OWNERSHIP:

Federal

OWNER:

USA-BLM

POOL RULES:

General Statewide Rules

EXHIBITS:

A. Road and Well Map B. Contour Map

C. Rig Layout

D. BOP Diagram

E. Lease Map

F. Location Topography

SUPPLEMENTAL DRILLING DATA

MCKAY OIL CORPORATION
Rugged Federal #1
NE/4NW/4 of Sec. 23, T-5S, R-21E
Chaves County, New Mexico

NM-78341

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 - 672'
Tubb - 2374'
Abo - 3074'

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

 Fresh Water In surface formation above 600'

 Gas In Abo formation below 3074'
- 4. PROPOSED CASING PROGRAM: See Form 9-331C
- 5. PRESSURE CONTROL EQUIPMENT: 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 1500#WP valve.

 A sketch of the BOP is attached.
- 6. <u>CIRCULATING MEDIUM</u>: Air Drilling
- 7. <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.

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. <u>ABNORMAL PRESSURES, TEMPERATURES OR HYDROGEN SULFIDE:</u>
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 Rugged Federal #1 NE/4NW/4 Sec. 23-5S-21E Chaves County, N.M.

NM-78341

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 32 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 southwest for 3/4 miles to location.

2. PLANNED ACCESS ROAD:

- A. Length and Width: 3.0 miles long and 14' wide.
- B. <u>Surfacing Materials</u>: Sand, gravel and caliche where needed.
- C. <u>Turnouts</u>: three
- D. <u>Maximum Grade</u>: 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>: cattleguard located at fence crossing in SE/4SE/4NE/4 of sec. 24, 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 very slightly 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. <u>Topography</u>: The topography is a gradual slope

to the southwest in the vicinity of the access road and southwest in the vicinity of the drill pad. Regional slope is south toward the Arroyo Del Macho which is approximately 2 miles 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>: Macho Draw is about 2.0 miles south of the proposed location.
- E. Residences and other Structures: The old Pierce ranch house is approximately 3 1/2 miles south 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:

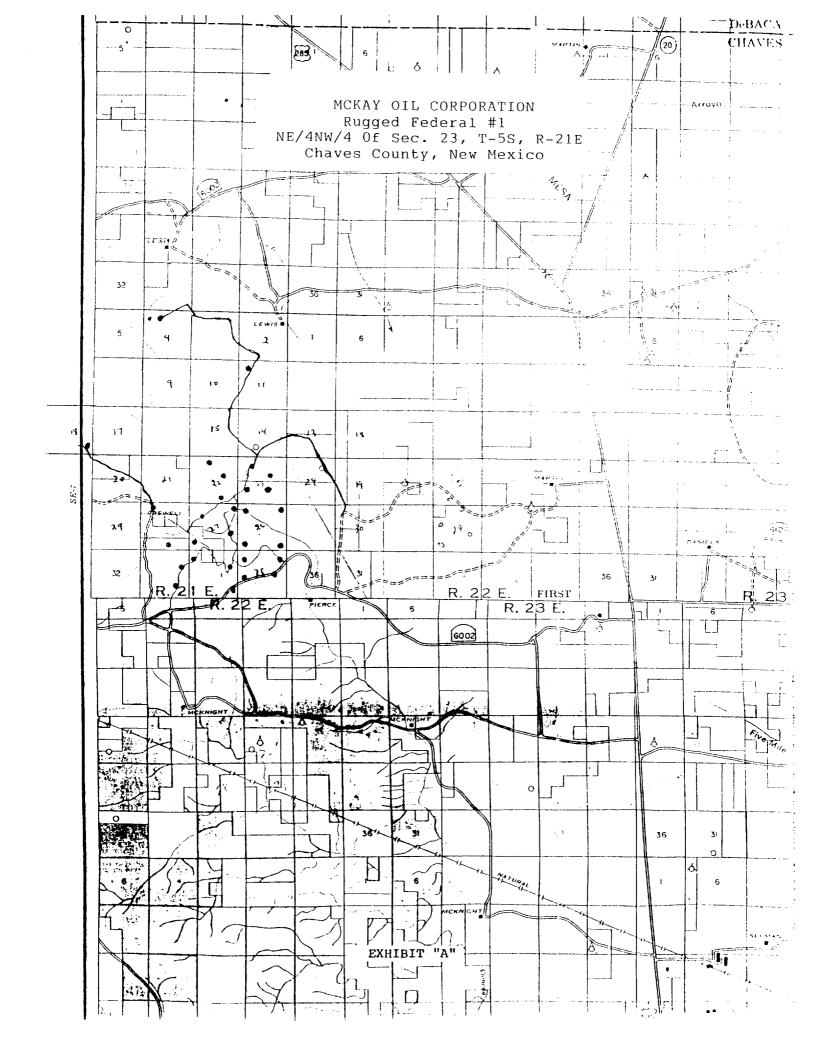
Gary Richburg Roswell, New Mexico (505) 623-4735

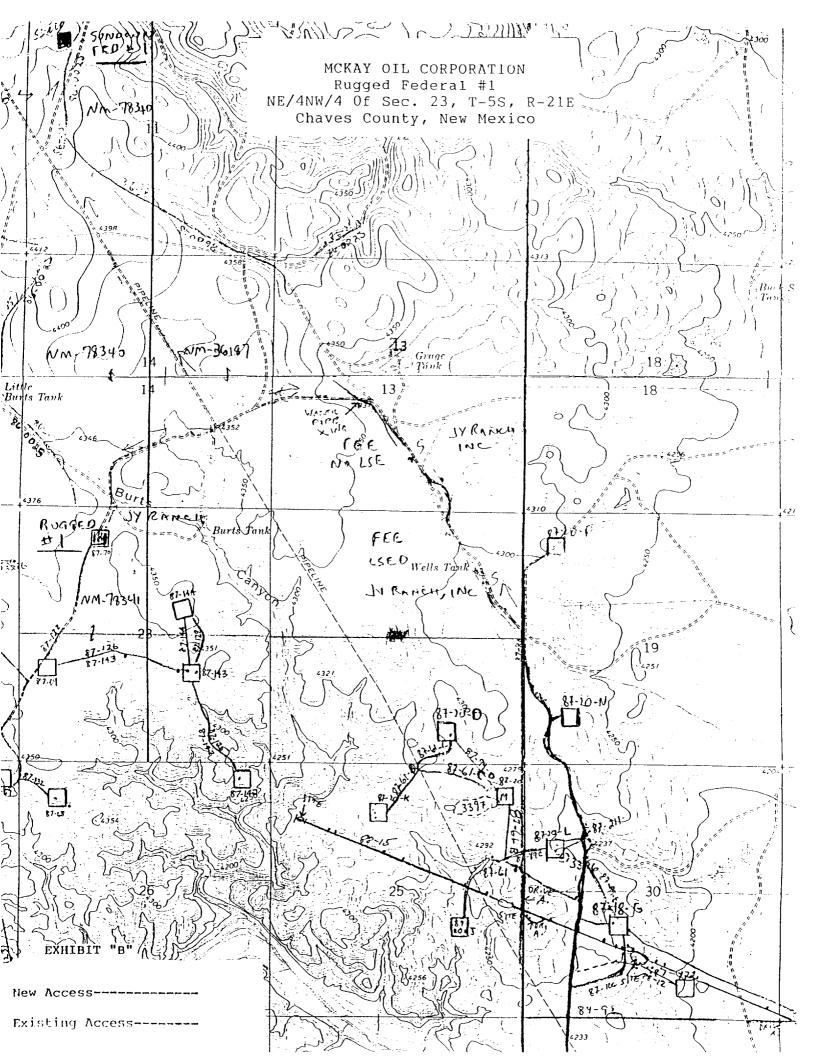
13. CERTIFICATION:

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

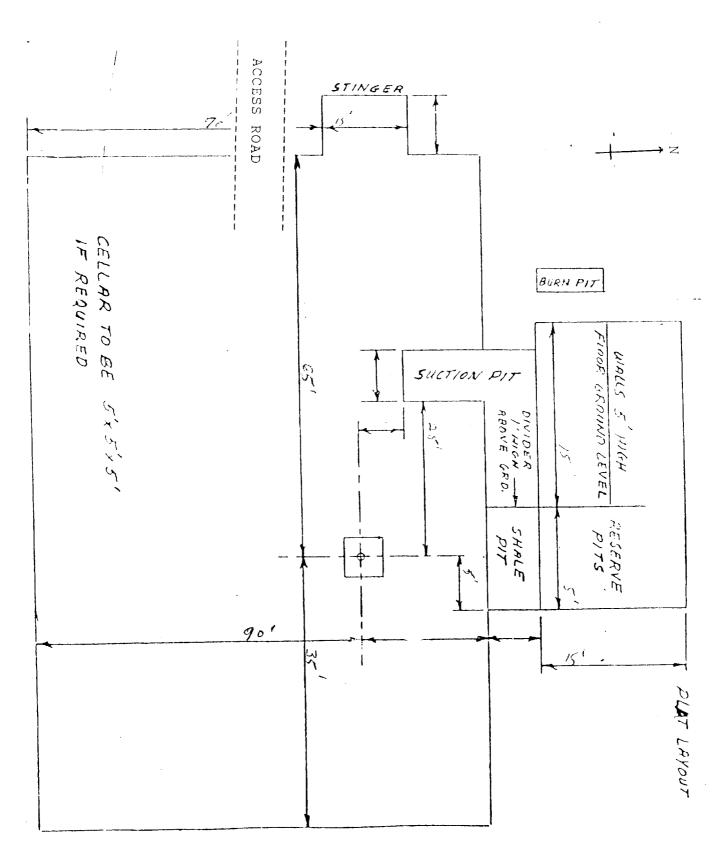
associated with the operations proposed herein will be performed by McKAY OIL CORPORATION and its sub-contractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to provisions of 18 USC 1001 for the filing of a false statement.

4-7-51	XJ Si //
DATE:	6.7





MCKAY OIL CORPORATION Rugged Federal #1 NE/4NW/4 Of Sec. 23, T-5S, R-21E Chaves County, New Mexico



SUPPLEMENTAL DRILLING DATA

MCKAY OIL CORPORATION
Rugged Federal #1
NE/4NW/4 of Sec. 23, T-5S, R-21E
Chaves County, New Mexico

NM-78341

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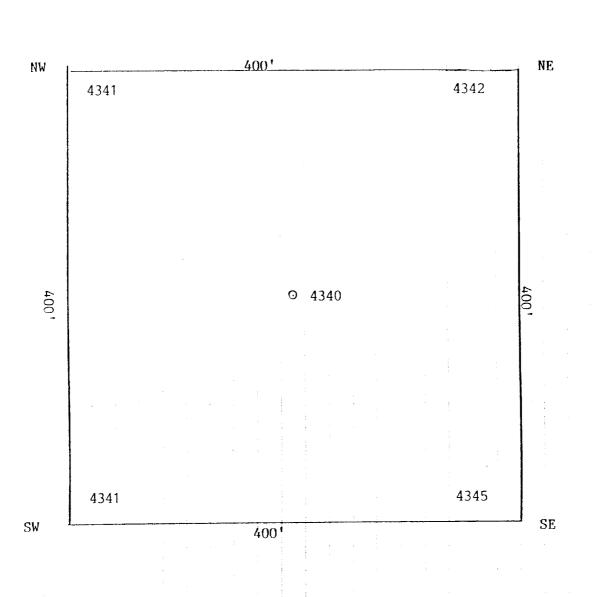
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- 7. AUXILIARY EQUIPMENT: Full-opening drill string safety valve fit for the drill string in use, will be kept on the rig floor at all times.

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JOHN D. JAQUESS CONSULTING ENGINEERS

P.O. Box 2565 ROSWELL, NEW MEXICO 88201 (505) 622-8866

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RUGGED FEDERAL #1
1700 FWL, 660 FNL
SECTION 23, T.5S., R.21E.
CHAVES COUNTY, NEW MEXICO