

Form 3160-3
(July 1992)

RECEIVED

UNITED STATES
DEPARTMENT OF THE INTERIOR

Aug 19 2 10 PM '94 BUREAU OF LAND MANAGEMENT

RECEIVED

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK ROSWELL RESOURCEDRILL ☒DEEPEN ☐

OCT 03 '94

b. TYPE OF WELL

OIL
WELL ☐GAS
WELL ☒

OTHER

SINGLE
ZONE ☐MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

YATES PETROLEUM CORPORATION

ARTESIA, OFFICE

3. ADDRESS AND TELEPHONE NO.

105 South Fourth Street, Artesia, New Mexico 88210

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface

Unit Letter I; 2310' FSL and 990' FEL

At proposed prod. zone

Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

36 miles northeast of Roswell, New Mexico

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

16. NO. OF ACRES IN LEASE

520

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH

4250'

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

3689' GR

17. NO. OF ACRES ASSIGNED
TO THIS WELL

160

20. ROTARY OR CABLE TOOLS

Rotary

22. APPROX. DATE WORK WILL START*

ASAP

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
14.75"	9.625" J-55	36#	900' 925'	700 sacks
* 8.75"	7.0" J-55	23#	1500'	250 sacks
7.875"	4.5" J-55	10.5#	TD	350 sacks

Yates Petroleum Corporation proposes to drill and test the Abo and intermediate formations. Approximately 900' of surface casing will be set and cement circulated to the surface. (* If lost circulation is encountered, 7" casing will be set to approximately 1500'. Hole size will be reduced to 6.125".) If commercial, production casing will be run and cemented with adequate cover, perforated and stimulated as needed for production.

MUD PROGRAM: Spud to 900' with FW Gel/LCM; 900' to 3500' with cut brine; 3500' to TD with SW Gel/Starch.

BOPE PROGRAM: BOPE will be installed on the 9.625' casing and tested daily for operational.

GAS NOT DEDICATED.

PLEASE BE ADVISED THAT THERE WILL BE NO EXCAVATION
OF FEDERALLY OWNED MINERAL MATERIAL FOR CONSTRUCTION
OF THE ACCESS ROAD OR PAD WITHOUT PAYMENT
IN ADVANCE.

Post ID-1
10-14-94
Mudhoe & BPE

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone 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.

SIGNED

Clifton R. May

TITLE

Permit Agent

DATE

8/19/94

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

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:

APPROVED BY

John A. Spain

TITLE

Acting A.M.

DATE

9-30-94

*See Instructions On Reverse Side

District I
PO Box 1980, Hobbs, NM 88241-1980

District U

PO Drawer DD, Artesia, NM 88211-0719

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form C-102

Revised February 10, 1994

Instructions on back

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

* API Number 30-005-63025		* Pool Code 82730	* Pool Name PECOS SLOPE ABO
* Property Code	* Property Name SAVAGE "NJ" FEDERAL		* Well Number 5
* OGRID No.	* Operator Name YATES PETROLEUM CORPORATION		* Elevation 3689

¹⁰ Surface Location

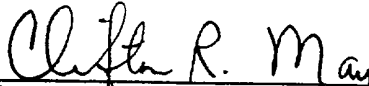
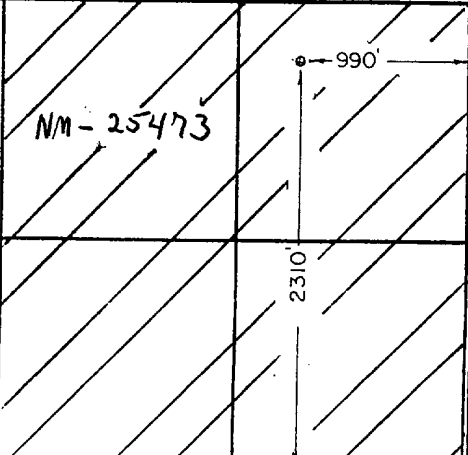
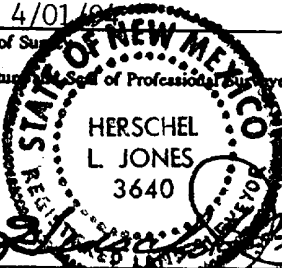

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	19	6 S	26E		2310	South	990	East	Chaves

¹¹ 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
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12 Dedicated Acres 160	13 Joint or Infill	14 Consolidation Code	15 Order No.
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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

16				17 OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</i> <div> Signature CLIFTON R. MAY Printed Name Permit Agent Title August 19, 1994 Date</div>
		<div></div>		18 SURVEYOR CERTIFICATION <i>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.</i> 4/01/94 Date of Survey <div> Signature of Professional Surveyor  Certificate Number 3640</div>

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 BUREAU OF LAND MANAGEMENT
 ROBERTS RESOURCE AREA

YATES PETROLEUM CORPORATION
 Savage "NI" Federal #5
 2310' FSL and 990' FEL
 Sec. 19-T6S-R26E
 Chaves County, New Mexico

1. The estimated tops of geologic markers are as follows:

San Andres	795'
Glorieta	1608'
Tubb	2883'
Abo	3678'
TD	4250'

2. The estimated depths at which anticipated water, oil or gas formations are expected to be encountered:

Water:	225'-300'
Oil or Gas:	3678'

3. Pressure Control Equipment: BOPE will be installed on the 9 5/8" casing and rated for 2000# BOP systems will be consistent with API RP 53. Pressure tests will be conducted before drilling out from under all casing strings which are set and cemented in place. Blowout preventor controls will be installed prior to drilling the surface plug and will remain in use until the well is completed or abandoned. Preventors will be inspected and operated at least daily to ensure good mechanical working order, and this inspection recorded on the daily drilling report. See Exhibit B.

Auxiliary Equipment:

- A. Auxiliary Equipment: Kelly cock, pit level indicators, flow sensor equipment, and a sub with full opening valve to fit the drill pipe and collars will be available on the rig floor in the open position at all times for use when kelly is not in use.

4. THE PROPOSED CASING AND CEMENTING PROGRAM:

- A. Casing Program: (All New)

<u>Hole Size</u>	<u>Casing Size</u>	<u>Wt./Ft</u>	<u>Grade</u>	<u>Thread</u>	<u>Coupling</u>	<u>Interval</u>	<u>Length</u>
14.75"	9.625"	36#	J55	8RD	ST&C	0- ^{925'} 900'	^{925'} 900'
*8.750"	7.0"	23#	J55	8RD	ST&C	0-1500'	1500'
7.875"	4.5"	10.5#	J55	8RD	ST&C	0-TD	4250'

1. Minimum Casing Design Factors: Collapse 1.125, Burst 1.0, Tensile Strength 1.80
- * 2. 8 5/8" casing to be set if lost circulation is encountered. If lost circulation is not encountered, the hole will be reduced to 7 7/8" at 1450'.
3. Yates Petroleum Corporation requests that a variance be granted in requiring the casing to be tested to 1500 PSI to testing the casing to 1000 PSI. The rig pumps will be used to test the casing. Rig pumps used in this area cannot safely test above 1000 PSI. We would have to go to the greater expense of hiring an independent service to do the testing. Also, the maximum shut-in bottom hole pressure is 1100 PSI. Pressure at the surface is much less. Most of the time the Abo formation requires treatment before it flows.

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ROSWELL, NEW MEXICO

B. CEMENTING PROGRAM:

Surface casing: Cement with 450 sx. pacesetter Lite "C" + 10#/sx Gilsonite x 1/4#/sx Celloseal + 3% CaCL₂ (yield 1.98, wt. 12.46). Tail in with 250 sx Class "C" + 2% CACL₂ (yield 1.33, wt. 13.0).

Intermediate Casing: I ran will cement with 250 sx class "C" + 2% CACL₂ (yield 1.33, wt. 13). Tie back to 9 5/8" casing.

Production Casing: Cement with 350 sx. "C" with 8# Silica Lite (yield 1.6 wt 14).

5. Mud Program and Auxiliary Equipment:

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss</u>
Spud to 900'	FwGel/LCM	8.4-9.6	32-38	N/C
900' to 3500'	Cut Brine	9.9	28	N/C
3500' to TD	SW Gel/Starch	9.3	32-40	<10cc

Sufficient mud material(s) to maintain mud properties, control lost circulation and contain a blow out will be available at the well site during drilling operations. Mud will be checked hourly by rig personnel.

6. EVALUATION PROGRAM:

Samples: 10' samples out from surface casing.

Logging: CNL/LDT TD to csg.; w/CNL/GR to surface.; DLL w/rxo - TD to casing.

Coring: None

DST's: Any tests will be based on the recommendation of the well site geologist as warranted by breaks and shows.

7. Abnormal Conditions, Bottom hole pressure and potential hazards:

Anticipated BHP:

From: 0	To: 900	Anticipated Max. BHP:	400 PSI
From: 900	To: TD	Anticipated Max. BHP:	1100 PSI

Abnormal Pressures Anticipated: None

Lost Circulation zones anticipated: None

H₂S Zones Anticipated: None

Maximum Bottom Hole Temperature: 110 F

8. ANTICIPATED STARTING DATE:

Plans are to drill this well as soon as possible after receiving approval. It should take approximately 15 days to drill the well with completion taking another 15 days.

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BUREAU OF LAND MANAGEMENT
ROSWELL RESOURCE AREA

MULTI-POINT SURFACE USE AND OPERATIONS PLAN

Yates Petroleum Corporation

Savage "NI" Federal #5

2310' FSL and 990' FEL

Sec. 19-T6S-R26E

Chaves 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 rehabilitating the surface after completion of the operations, so that a complete appraisal can be made of the environmental effect associated with the operations.

1. EXISTING ROADS:

Exhibit A is a portion of the BLM map showing the well and roads in the vicinity of the proposed location. The proposed wellsite is located approximately 36 miles northeast of Roswell New Mexico and the access route to the location is indicated in red and green on Exhibit A.

DIRECTIONS:

Go north of Roswell on Hwy. 285 for approximately 26.5 miles to Cottonwood Road. Turn east and follow road approximately 14 miles to Roosevelt Road. Turn east on Roosevelt and go approximately .6 of a mile and turn right (east). Go approximately .5 of a mile and turn left (NE) and go approximately .6 of a mile to road past Savage "NI" Federal #3 well. Turn left (NW) and go to the Savage "NI" Federal #2 well pad. Continue off the NW corner of pad for approximately .5 of a mile on new access to the SE corner of pad.

2. PLANNED ACCESS ROAD:

- A. The proposed new access will be approximately .5 of a mile in length from the point of origin to the southeast corner of the drilling pad. The road will lie in a(n) north and east direction.
- B. The new road will be 14 feet in width (driving surface) and will be adequately drained to control runoff and soil erosion.
- C. The new road will be bladed with drainage on both sides. No traffic turnout will be built.
- D. The route of the road is visible.
- E. Existing roads will be maintained in the same or better condition.

3. LOCATION OF EXISTING WELL

- A. There is drilling activity within a one-mile radius of the wellsite.
- B. Exhibit D shows existing wells within a one-mile radius of the proposed wellsite.

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4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

- A. There are production facilities on this lease at the present time.
- B. In the event that the well is productive, the necessary production facilities will be installed on the drilling pad. If the well is productive oil, a gas or diesel self-contained unit will be used to provide the necessary power. No power will be required if the well is productive of gas.

5. LOCATION AND TYPE OF WATER SUPPLY:

- A. It is planned to drill the proposed well with a fresh water system. The water will be obtained from commercial sources and will be hauled to the location by truck over the existing and proposed roads shown in Exhibit A. Probable source is Corn Water Station in Section 12, Township 6 South, Range 25 East.

6. SOURCE OF CONSTRUCTION MATERIALS:

A local dirt contractor will be contracted to build this location. They will be responsible for getting the proper permits and will furnish surfacing material from a source of their choosing. Probable source is a private pit in Section 30, Township 6 South, Range 26 East.

7. METHODS OF HANDLING WASTE DISPOSAL:

- A. Drill cuttings will be disposed of in the reserve pits.
- B. Drilling fluids will be allowed to evaporate in the reserve pits until the pits are dry.
- C. Water produced during operations will be collected in tanks until hauled to an approved disposal system, or separate disposal application will be submitted.
- D. Oil produced during operations will be stored in tanks until sold.
- E. Current laws and regulations pertaining to the disposal of human waste will be complied with.
- F. All trash, junk, and other waste materials will be contained in trash cages or bins to prevent scattering and will be removed and deposited in an approved sanitary land fill. Burial on site is not approved.

8. ANCILLARY FACILITIES: NONE

9. WELLSITE LAYOUT:

- A. Exhibit C shows the relative location and dimensions of the well pad, the reserve pits, the location of the drilling equipment, rig orientation and access road approach.
- B. The reserve pits will be plastic lined.
- C. A 400' x 400' area has been staked and flagged.

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U.S. DEPARTMENT OF THE INTERIOR

10. PLANS FOR RESTORATION

- A. After finishing drilling and/or completion operations, all equipment and other material not needed for further operations will be removed. The location will be cleaned of all trash and junk to leave the wellsite in as aesthetically pleasing a condition as possible.
- B. Unguarded pits, if any, containing fluids will be fenced until they have dried and been leveled.
- C. If the proposed well is non-productive, all rehabilitation and/or vegetation requirements of the Bureau of Land Management will be complied with and will be accomplished as expeditiously as possible. All pits will be filled level after they have evaporated and dried.

11. SURFACE OWNERSHIP: Federal Surface.

12. OTHER INFORMATION:

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

13. OPERATOR'S REPRESENTATIVE

A. Through A.P.D. Approval:

Clifton R. May, Permit Agent
Yates Petroleum Corporation
105 South Fourth Street
Artesia, New Mexico 88210
Phone (505) 748-1471

B. Through Drilling Operations,
Completions and Production:

Mike Slater, Operations Manager
Yates Petroleum Corporation
105 South Fourth Street
Artesia, New Mexico 88210
Phone (505) 748-1471

14. 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 exist; that the statements made in this plan are to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein, will be performed by Yates Petroleum Corporation and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

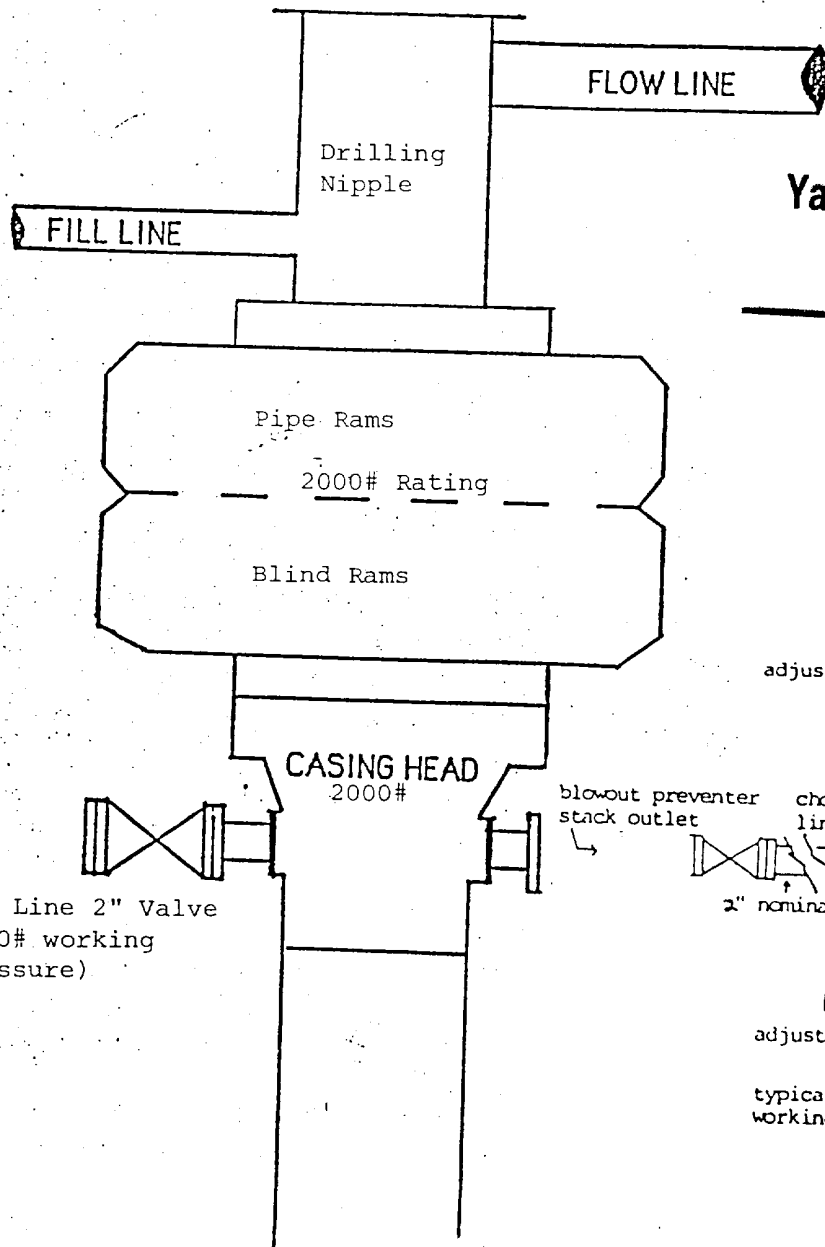
8/19/94


Permit Agent

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BUREAU OF LAND MANAGEMENT
ROCKY MOUNTAIN DISTRICT OFFICE

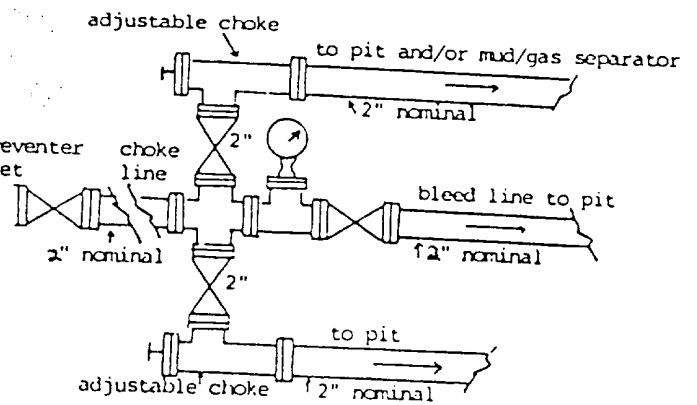
YATES PETROLEUM CORPORATION



Yates Petroleum Corporation
105 SOUTH 4th STREET
ARTESIA, NEW MEXICO 88210

SAVAGE "NI" FEDERAL #5
2310' FSL and 990' FEL
Sec. 19-T6S-R26E
Chaves County, New Mexico

EXHIBIT B

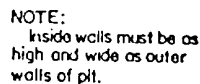


typical choke manifold assembly for 2000# rated working pressure service-surface installation

**BLOWOUT PREVENTER
2M SYSTEM**

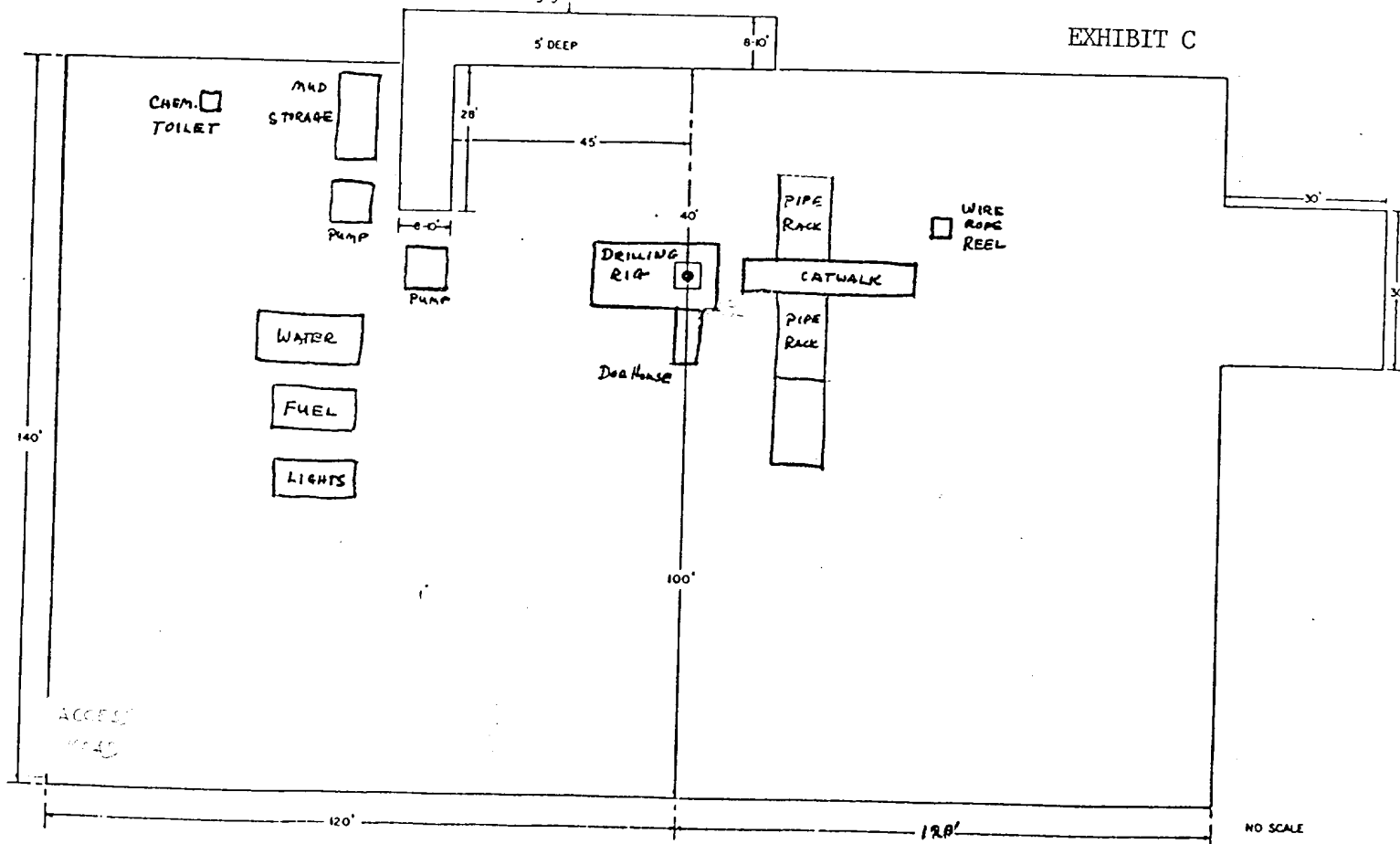
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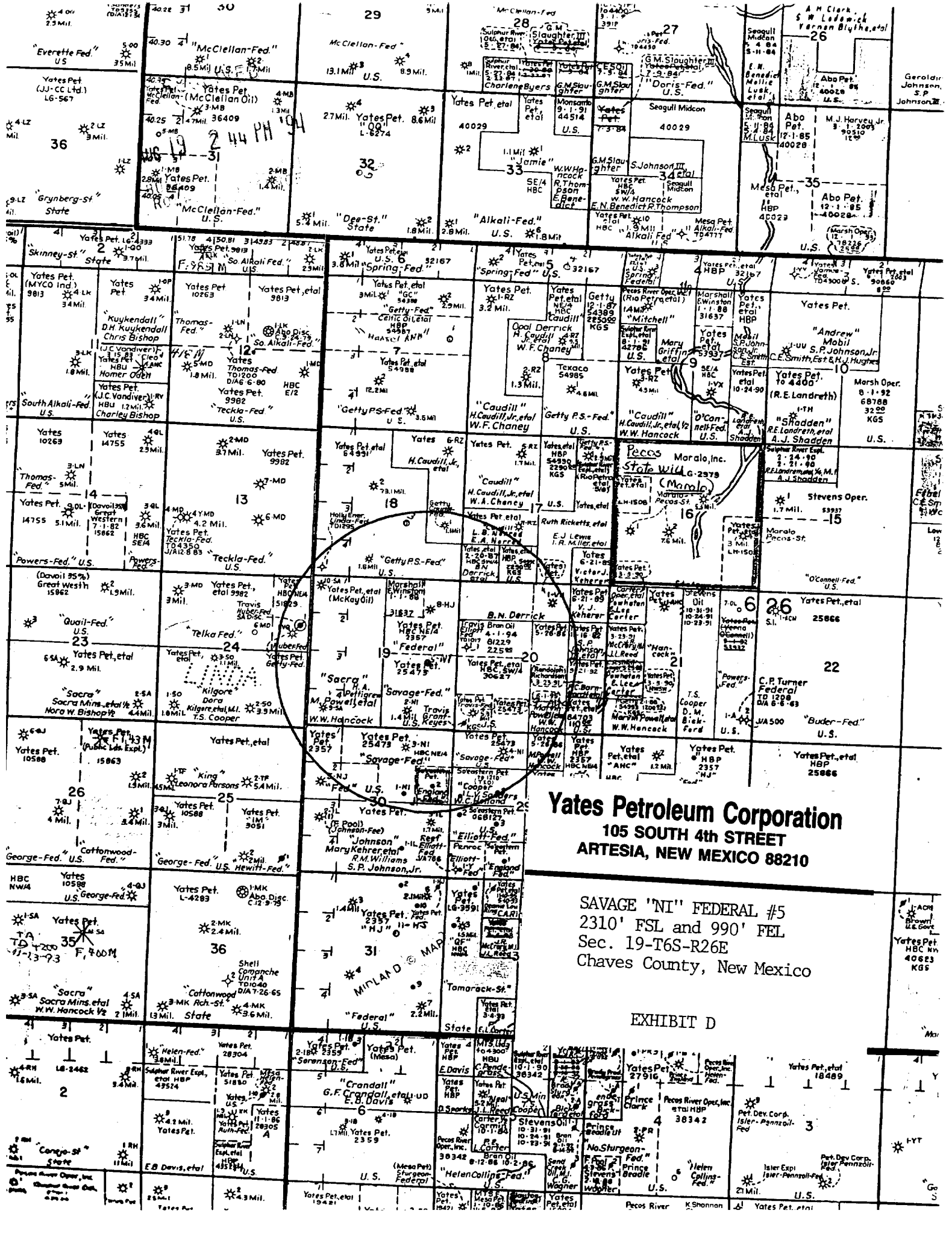
BUFILE 100-361101
ROSENBERG, ALBERT
AREA



Yates Petroleum Corporation
105 SOUTH 4th STREET
ARTESIA, NEW MEXICO 88210

Savage "NI" Federal #5
2310' FSL and 990' FEL
Sec. 19-T6S-R26E
Chaves County, New Mexico





Yates Petroleum Corporation
105 SOUTH 4th STREET
ARTESIA, NEW MEXICO 88210

SAVAGE 'NI' FEDERAL #5
2310' FSL and 990' FEL
Sec. 19-T6S-R26E
Chaves County, New Mexico

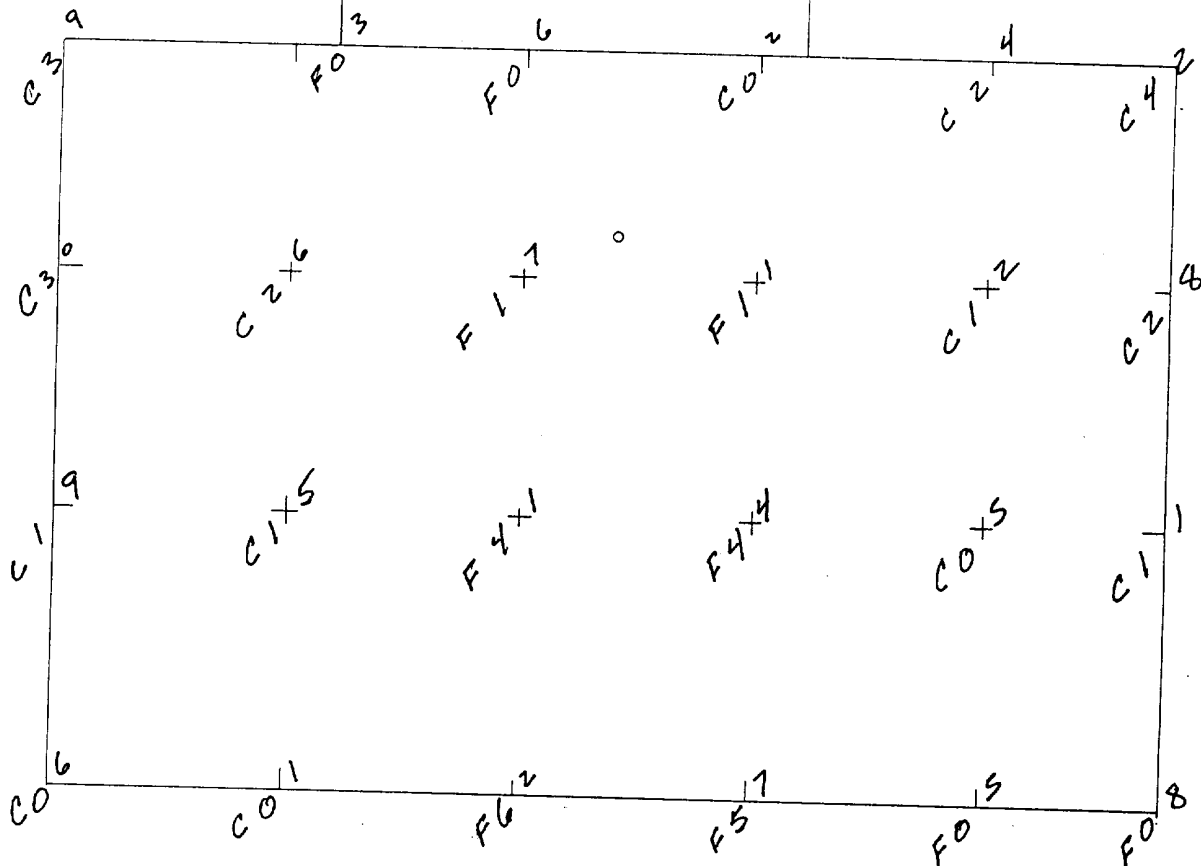
EXHIBIT D

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JOB No.

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BUREAU OF LAND MANAGEMENT
ROSWELL DISTRICT OFFICE
AREA



THE PREPARATION OF THIS PLAT AND THE PERFORMANCE OF THE SURVEY UPON WHICH IT IS BASED WERE DONE UNDER MY DIRECTION AND THE PLAT ACCURATELY DEPICTS THE RESULTS OF SAID SURVEY AND MEETS THE REQUIREMENTS OF THE STANDARDS FOR LAND SURVEYS IN NEW MEXICO AS ADOPTED BY THE NEW MEXICO STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS.

YATES PETROLEUM CORPORATION

CUT & FILL
SAVAGE "N1" FEDERAL #5
2310/S & 990/E
Sec.19-6S-26E
Chaves County

P.O. Box 996

Lovington, New Mexico 88260

SCALE: " = '

DRAWN BY:

DATE: 8/05/94

SHEET OF

HERSCHEL L. JONES

R.L.S. No. 3640

