

Form 2100-3
(July 1992)

N.M. OIL CONS. COMMISSION
P.O. BOX 1980
HOBBS, NEW MEXICO 88240
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instr. as on
reverse side)

FORM APPROVED
OMB NO. 1004-0136
Expires: February 28, 1995

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK
DRILL ☒ DEEPEN ☐

b. TYPE OF WELL
OIL WELL ☒ GAS WELL ☐ OTHER ☐

2. NAME OF OPERATOR
Enserch Exploration, Inc.

3. ADDRESS AND TELEPHONE NO.
4849 Greenville Ave., #1200
Dallas TX 75206 4186 (505) 623-3150

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
At surface
1980' FWL & 660' FSL
At proposed prod. zone
1980' FWL & 660' FSL Unit N

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
5 miles west of Jal, New Mexico

15. DISTANCE FROM PROPOSED*
LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drig. unit line, if any) 660'

16. NO. OF ACRES IN LEASE
920

17. NO. OF ACRES ASSIGNED
TO THIS WELL
40

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT. 1320'

19. PROPOSED DEPTH
7800'

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
3065'

22. APPROX. DATE WORK WILL START*
On or before 4-1-96
Or upon APD approval

5. LEASE DESIGNATION AND SERIAL NO.
NM-03429

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME WELL NO.
Texaco West Jal "21" #1

9. API WELL NO.
30-025-33348

10. FIELD AND POOL, OR WILDCAT
West Jal Delaware Field

11. SEC., T., R., M., OR BLK.
AND SURVEY OR AREA
Sec. 21, T25S-R36E

12. COUNTY OR PARISH
Lea

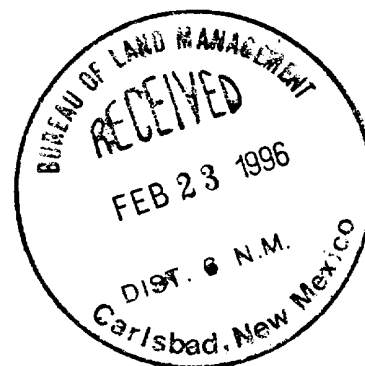
13. STATE
NM

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2	J-55	54.50#	400'	415 sks CIRCULATE
12 1/4	J-55	24.00#	3500'	1280 sks TIE
7 7/8	N-80	17.00#	7800'	485 sks BACK

Please see attached program outline and plan for each phase of operations.

OPER. OGRID NO. 7467
PROPERTY NO. 18745
POOL CODE 33800
EFF. DATE 3/25/96
API NO. 30-025-33348



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 Paul A. Whitehead TITLE Sr. Drilling Engineer DATE 2/13/96
(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 FORIC SCD RICHARD L. MANUS TITLE Assoc. Manager DATE MAR 14 1996

*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes 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.

DRILLING PROGRAM

I Estimated Formation Tops:

<u>FORMATION</u>	<u>DEPTH</u>	<u>SUBSEA</u>
Rustler	1,275'	1,822'
B/Anhydrite	3,374'	-277'
Yates Sand	3,539'	-442'
Capitan	4,090'	-993'
Delaware Mtn.	5,358'	-2,261'
Basal Brushy Canyon	7,422'	-4,325'
Orange Sand	7,510'	-4,413'
Bone Spring	7,658'	-4561'
TD	7,800'	

II Estimated depths at which water, oil, gas, or other mineral bearing formations are expected to be encountered:

<u>SUBSTANCE</u>	<u>DEPTH</u>
Fresh Water	0' - 400'
Oil	7,422' - 7,800'

Fresh water sands will be cased and casing set and cemented to surface as per New Mexico regulations.

Oil in all pay zones will be cased off with casing and liner after well is logged. Cement to cover.

III Operator specifications for pressure control are shown by the attached schematic design of the blow-out preventers and choke manifolds. See attached Exhibit "E" (also sometimes referred to as Figure 5).

IV A. Proposed Casing Program:

<u>CASING</u>	<u>DEPT H</u>	<u>HOLE SIZE</u>	<u>O.D.</u>	<u>WEIG HT</u>	<u>GRAD E</u>
Surface	400'	17 ½"	13 3/8"	54.50#	J-55
Intermediate	3,500'	12 ¼"	8 5/8"	24.00#	J-55
Production	7,800'	7 7/8"	5 ½"	17.00#	N-80

All casing will be inspected, tested and drifted, and certified to BLM specifications and accepted by operator prior to being run in well.

B. Proposed Cement Program:

Surface: 415 sks Class C + 2% CaCl₂ + .25 lb/sk Cello-Seal
14.81 lb/gal; 1.34 ft³/sk

Intermediate: Lead: 1080 sks Pacesetter Lite (C) + 6% Gel + 5 lb/sk Salt + .25 lb/sk Cello-Seal 12.54 lb/gal; 2.01 ft³/sk

Tail: 200 sks Class C 14.8 lb/gal; 1.32 ft³/sk

Production: Lead: 190 sks Pacesetter Lite (C) + 6% Gel + 5 lb/sk Salt + 5 lb/sk Gilsonite 12.41 lb/gal; 2.09 ft³/sk

Tail: 295 sks Class C + .75% CF-14A + .15% + CF-2 + 2% KCI
14.79 lb/gal; 1.34 ft³/sk

V. Proposed Mud Program:

<u>INTERVAL</u>	<u>MUD TYPE</u>	<u>MUD WT.</u>	<u>VISCOSITY</u>	<u>WATER LOSS</u>
0-400'	Spud Mud	8.7-9.0	35-38	N/C
400-2,350'	Fresh Water/ Native Mud	9.5-9.8	32-34	N/C
2,350-3,500'	Brine Water/ Native Mud	10.0-10.2	32-34	N/C
3,500-6,800'	Fresh Water	8.4	26-28	N/C
6,800-7,800'	Fresh Water Mud	8.6-8.8	34-38	10 cc's

VI A. Testing Program:

Potential DSTs: Cherry Canyon
Brushy Canyon

B. Logging Program:

<u>LOG</u>	<u>Interval</u>
DIL-GR	4,000'-TD
LDT-CNL-GR	4,000'-TD
LSS-GR	4,000'-TD

C. Coring Program:

60' conventional core in Brushy Canyon

J. Artesia, NM 88211-0719

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

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT IV
P.O. BOX 2088, SANTA FE, N.M. 87504-2088☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-33348	Pool Code 33800	Pool Name West Jal Delaware
Property Code 18745	Property Name TEXACO-WEST JAL 21	Well Number 1
OGRD No. 7467	Operator Name ENSERCH EXPLORATION, INC.	Elevation 3065

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	21	25 S	36 E		660	SOUTH	1980	WEST	LEA

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.						

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

	OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief. <u>Paul A. Whitehead</u> Signature <u>PAUL A. WHITEHEAD</u> Printed Name <u>SR. DRILLING ENGINEER</u> Title <u>FEB 6, 1996</u> Date	
	SURVEYOR CERTIFICATION 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. February 1, 1996 Date Surveyed Signature & Seal of Professional Surveyor <u>JOHN W. EIDSON</u> Professional Surveyor State of New Mexico Certificate No. <u>3239</u> JOHN W. EIDSON 676 3239 12641	
	Date Surveyed Signature & Seal of Professional Surveyor <u>JOHN W. EIDSON</u> Professional Surveyor State of New Mexico Certificate No. <u>3239</u> JOHN W. EIDSON 676 3239 12641	
	Date Surveyed Signature & Seal of Professional Surveyor <u>JOHN W. EIDSON</u> Professional Surveyor State of New Mexico Certificate No. <u>3239</u> JOHN W. EIDSON 676 3239 12641	

EXHIBIT "E"

