

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1. TYPE OF WORK
a. TYPE OF WELL
OIL WELL ☒ GAS WELL ☐ OTHER ☐
b. TYPE OF WELL
DEEPEN ☒ PLUG BACK ☐
2. NAME OF OPERATOR
PURVIS OIL CORP.
3. ADDRESS OF OPERATOR
960 One First City Center, 6 N 500 W Texas,
P.O. Box 11006, Midland TX 79702
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
At surface
1980' FWL & 1980' ESL (Unit K)
At proposed prod. zone
Same
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
Four (4) miles North of Crossroads, NM
15. DISTANCE FROM PROPOSED*
LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest dril. unit lide, if any)
660' FLL
660' FUL
16. NO. OF ACRES IN LEASE
481.41
17. NO. OF ACRES ASSIGNED
TO THIS WELL
40 acres
18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.
2960'
19. PROPOSED DEPTH
9900'
20. ROTARY OR CABLE TOOL
Rotary
21. ELEVATIONS (Show whether DF, RT, GR, etc.)
4164.6 GR
22. APPROX. DATE WORK WILL START*
November 15, 1993

PROPOSED CASING AND CEMENTING PROGRAM

HOLE SIZE	CASING SIZE	WEIGHT/FOOT	GRADE	THREAD TYPE	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	13-3/8"	48	H-40	ST&C	375'	375 CIRCULATE
11"	8-5/8"	24 & 32	J-55	ST&C	±4000'	500 sx
7-7/8"	5-1/2"	15.5 & 17.0	K-55	LT&C	±9850'	500 sx-SBE Steps.

PURVIS OIL CORP. proposes to drill and test the Bough "C" formation and other possible intermediate pay zones. Approximately 375' of 13-2/8" surface casing will be set and cemented to surface. After drilling to approximately 4000', 8-5/8" intermediate casing will be set and cemented with 500 sacks. Thereafter, if commercial pay(s) is encountered it is anticipated 5-1/2" production casing will be set at TD and cemented with sufficient volumes to adequately cover all pay sections.

MUD PROGRAM: Surface - 375': Fresh water native spud mud.
375 - 4000': Cut brine native mud w/LCM as needed.
4000 - 9800': Cut brine system with mud up anticipated @ ±7500' to control hole conditions. From 9200'-TD, anticipate having salt gel starch system with required hold controlling quantities through logging operations at TD.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, 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.

21. PURVIS OIL CORP.

SIGNED J. H. PURVIS

TITLE President

DATE 8-13-93

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

AREA MANAGER

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

Submit to Appropriate
District Office
State Lease - 4 copies
Fee Lease - 3 copies

State of New Mexico
Bureau of Minerals and Natural Resources

Form C-102
Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

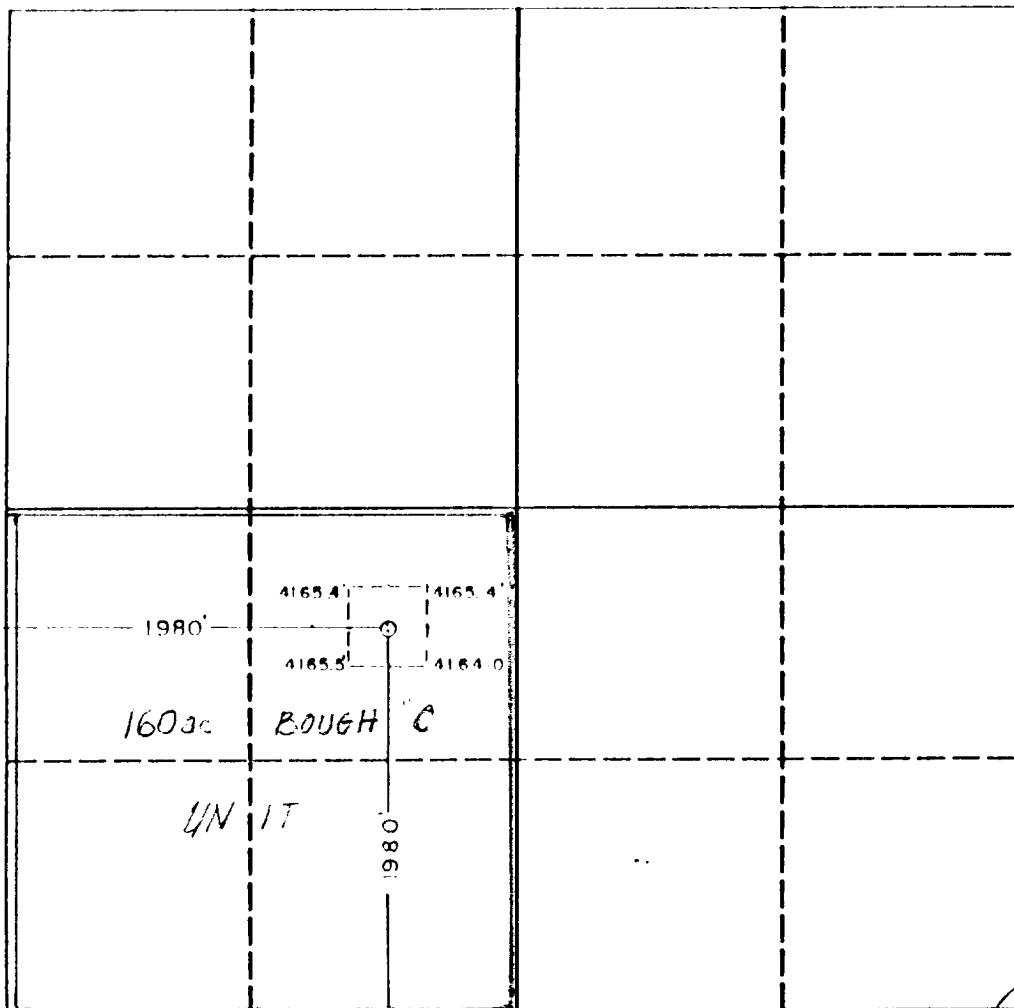
All Distances must be from the outer boundaries of the section

Operator PURVIS OIL CORP.			Lease FED. "3-K"		Well No. 2
Unit Letter K	Section 3	Township 9 SOUTH	Range 35 EAST	County LEA	

Actual Footage Location of Well:

1980 feet from the SOUTH line and 1980 feet from the WEST line	Ground level Elev. 4164.6	Producing Formation Abo/Bough "C" (Salvage)	Pool Milnesand Abo/Vada Penn	Dedicated Acreage: 40 1/6 Acres
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- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- 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.?
☐ Yes ☐ No If answer is "yes" type of consolidation _____
If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary).
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 is true and complete to the best of my knowledge and belief.

J. H. Purvis
Signature

J. H. PURVIS

Printed Name
PRESIDENT

Position
PURVIS OIL CORP.

Company
11/30/90

Date

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

John W. West
Date
11/30/90

Signature & Seal of
Professional Surveyor

John W. West
Certificate No. JOHN W. WEST, 676
RONALD J. EIDSON, 3239

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State of New Mexico
Geology, Minerals and Natural Resources Dept.

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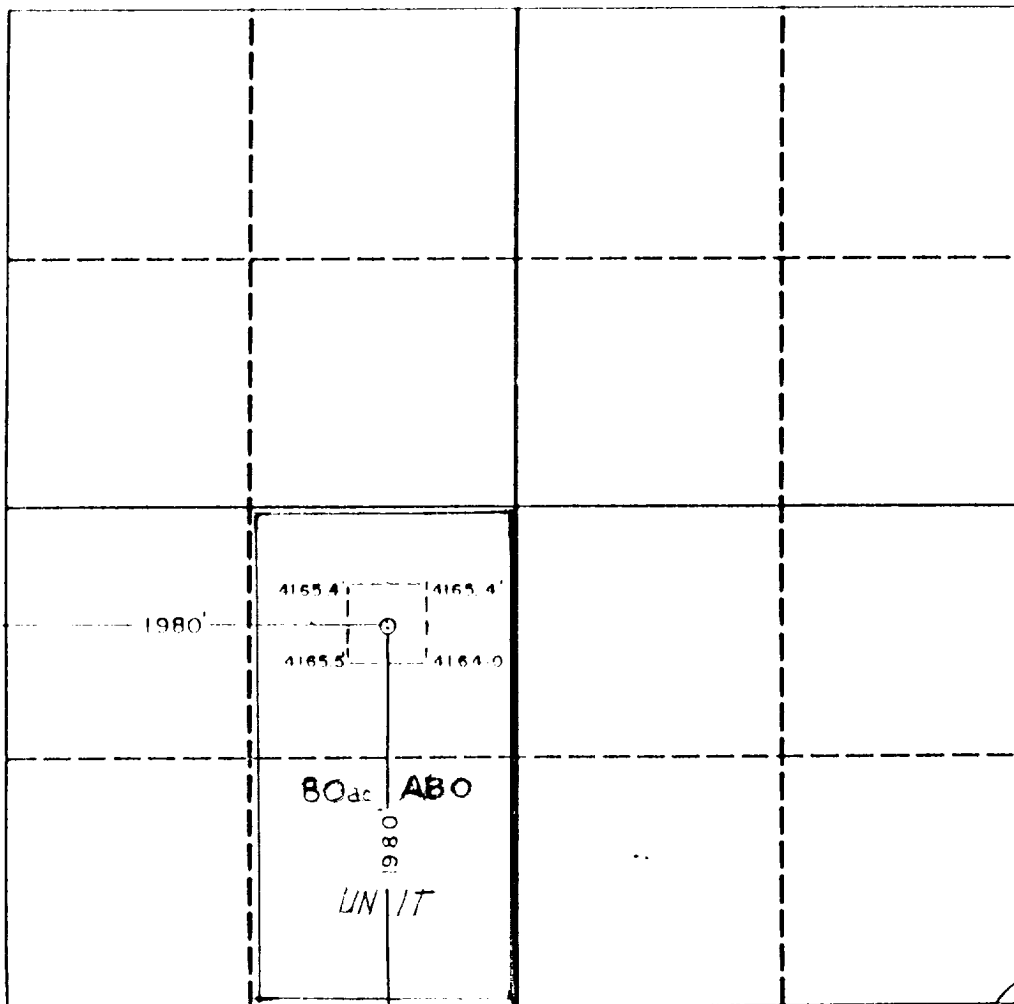
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Ground level Elev. 4164.6	Producing Formation Abo/Bough "C" (Salvage)	Pool Milnesand Abo/Vada Penn	Dedicated Acreage: 40.80 Acres

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John W. West
Date
11-27-90

Signature & Seal of
Professional Surveyor

John W. West
Certificate No. **JOHN W. WEST, 676**
RONALD J. EIDSON, 3239

DRILLING PROGRAM

OPERATOR: Purvis Oil Corp.
WELL: Federal "3-K" #2
FIELD: Milnesand Abo/Vada Penn
CATEGORY: Field Well
STATE: New Mexico
COUNTY: Lea
LOCATION: 1980' FWL & 1980' FSL, Section 3, T-9-S, R-35-E
OBJECTIVE FORMATION(S): Upper Abo, Bough "C"
ELEVATION (G.L.): 4164.6'

1. Geologic Surface Formation: Permian

2. Estimated Formation Tops:

Red Beds	1240'
Yates	2750'
San Andres	4000'
Glorietta	5450'
Tubb	6930'
Abo	7600'
Bough "C"	9880'

Possible Drilling Problems: None anticipated.

Estimated Time to Drill and Evaluate: 30 days

Hole Size:	0 - 375'	17-1/2"
	375 - 4000'	11"
	4000 - 9850'	7-7/8"

3. Estimated depth at which water, oil or gas is expected to be encountered.

Water:	None
Oil:	8920 and 9800'
Gas:	None

4. Casing Program:

Conductor Casing:	None
Surface Casing:	0 - 375', 13-3/8", 48#
Intermediate Casing:	0 - 4000', 8-5/8", 24 & 32#
Production Casing:	0 - 9800', 5-1/2", 15.5 & 17#, J-55, LT&C

Liner: None

Accessory Equipment:

Surface Casing:	Guide shoe & centralizers
Intermediate Casing:	Float shoe, float collar & centralizers
Production Casing:	Float shoe, float collar & centralizers

Cement Program:

Conductor Casing:	None
Surface Casing:	375 sx (100% excess)
Intermediate Casing:	500 sx (75% excess)
Production Casing:	(based on caliper log)

Cement with 350 sacks Class "H" 50/50 Poz
+ 150 sacks Class "H" Neat

Slurry Weight	15.1 ppg (Neat)
Slurry Yield	1.07 cf/sx (Neat)
Water Ratio	4.4 gal/sx

5. BOP and Accessory equipment:

375' - TD: 1-11" 3000 psi blind rams
1-11' 3000 psi pipe rams
1-11' 3000 psi choke manifold

BOP's, manifold, all lines and valves to be tested to low pressure (approximately 200 psi) and 2000 psi at the time they are nipped up and every 14 days thereafter.

Wellhead Equipment:

13-3/8" SOW X 11" 2000 psi casinghead
11" 2000 psi x 7-1/16" 2000 psi tubing head
7-1/6" x 2-3/8" 2000 psi tubing head adapter
2-3/8" 2000 psi upper tree

Note: Starting head should be installed at a height such that the valves of the tubing head will be at ground level.

6. Mud Program:

Specifications:

Mud Weight (ppg):	8.5
Viscosity (Sec/qt):	35
Water Loss:	NC
System Type:	SW Gel

Casing Tests:

Test 13-3/8" surface casing to 500 psi before drilling plug.
Test 8-5/8" intermediate casing to 1000 psi before drilling plug.
Test 5-1/2" casing to 1000 psi before drilling out or perforating.

Casing Seat Tests: None

Deviation Specifications: Not to exceed 6 degrees at TD

7. Auxiliary Equipment: None

8. Logging and Testing Program:

Electric Logs, Cement Bond Log, Gamma Ray,
and Casing Collar Locator

DST's:

Possible Abo zone @ approximately 8900'

Mud Logging:

None

9. Potential Hazards

Abnormal Pressures: None

Abnormal Temperatures: None

Hydrogen Sulfide Gas: None

Lost Circulation: None

10. Anticipated Starting Date: ~~January 30, 1991~~

11-15-93

