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NEW MEXICO OIL CONSERVATION COMMISSION

Form C-101
Revised 1-1-65

1. Indicate Type of Lease
STATE ☒ LEASE ☐
2. Lease or Gas Lease No.
K-5001

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work		7. Unit Agreement Name	
b. Type of Well DRILL ☐ DEEPEN ☐ PLUG BACK ☒		8. Firm or Lessee Name	
WELL ☒ GAS WELL ☐ OTHER ☐		Pipeline State	
c. Name of Operator		9. Well No.	
Union Oil Company of California		1	
d. Address of Operator		10. Field and Pool, or Wellhead	
P. O. Box 671 - Midland, Texas 79702		Undesign. - Bone Springs	
e. Location of Well		11. County	
UNIT LETTER K LOCATED 1880 FEET FROM THE South		Lea	
1980 FEET FROM THE West		12. Proposed Depth	
LINE OF SEC. 33 TWP. 18-S R. 34-E		9,900' FBID	
13. Proposed Depth		14. To be drilled	
3959.5' GR.		Bone Springs	
21A. First & Second Plug. Depth		21B. Drilling Contractor	
Blanket		22. Approx. Date Work will start	
		Immediately	

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
15"	11-3/4" OD	42#	325'	450 sk	Circul. to surf.
11"	9-5/8" OD	32#	5,256'	650 sk	3,050'
7-7/8"	5-1/2" OD	17# & 20#	13,667'	1000 sk	7,800'

Well was producing from the La Rica Morrow Gas Pool, perforations 13,217.5' to 13,423.5', with a packer set at 12,995'.

Move in and rig up work over unit. Kill well and install 3,000' W.P. manual B.O.P. Set C.I. Bridge Plug at approximately 9,900', dump 20' of cement on top. Perforate 5-1/2" OD Casing from 9,738' to 9,743' with 1 J.S.P.F. Acidize with 2,000 gals. 15% HCL Acid if necessary. If zone is unproductive, or has excessive water production, set C.I. Bridge Plug at approximately 9,700', dump 20' of cement on top. Perforate 5-1/2" OD Casing from 9,496' to 9,506' with 1 J.S.P.F. Acidize with 3,000 gals. 15% HCL Acid if necessary. A possible sand fracture treatment will be determined after testing.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCE. (THIS SPACE IS NOT FOR PROPOSAL PROGRAM, IF ANY.)

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

Signed J.R. Hughes Title District Drilling Superintendent Date May 26, 1978
(This space for state use)

SUPERVISOR DISTRICT 1

MAY 28 1978

APPROVED BY J.R. Hughes TITLE District Drilling Superintendent DATE May 26, 1978

CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
WELL LOCATION AND MORTGAGE DEDICATION PLAT

Supervisor's Office
Bureau of Land Management

Plat No. 1

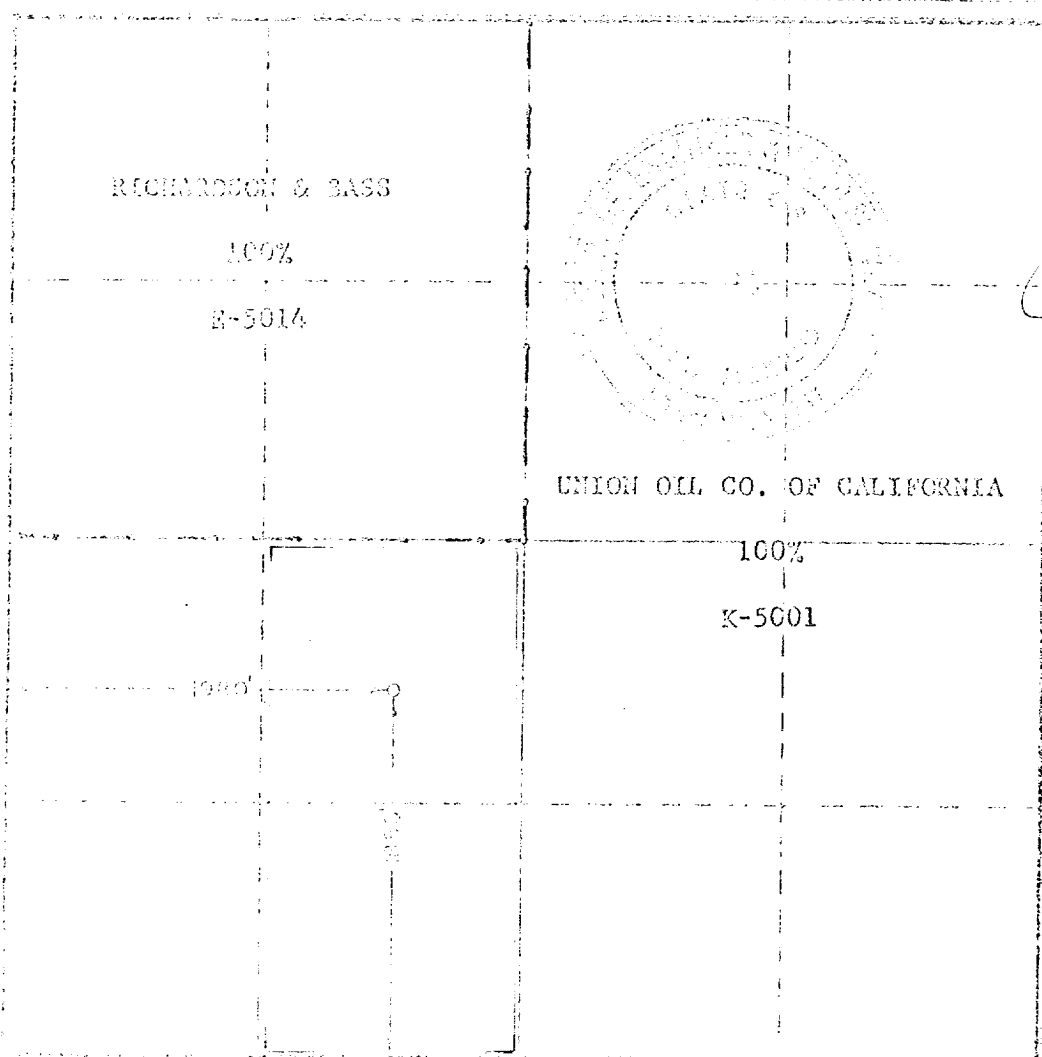
K		35		13 SOUTH		34 EAST		LEA	
1000		SOUTH		1900		WEST		80	
2500.5		Bone Springs		Undesignated - Bone Springs					

- 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 interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☒ No If answer is "yes," type of consolidation _____

If answer to "No," list the owners and trust descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) Leases to be communitized upon completion

No allowance will be assigned to the well until all interests have been consolidated (by communitization, unitization, force-pooling, or other method) until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

[Signature]
District Drilling Supt.
Union Oil Co. of California
May 17, 1973

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 knowledge and belief.

[Signature]
December 11, 1973
Bureau of Land Management
Bureau of Land Management

[Signature]
876

MNB

FORM CR-MID
8-73 (REV 4-74)

UNION OIL COMPANY OF CALIFORNIA
CENTRAL REGION
Midland DISTRICT
CONDITION OF HOLE & PROCEDURE

Dist. Prod. Supt. J. J.
Dist. Engineer J. J.
Dist. Drilg. Supt. J. J.
Dist. Opers. Mgr. J. J.

DATE: February 14, 1978

FIELD La Rica AREA Lovington
LEASE/~~XXXX~~ Pipeline State WELL NO. No. 1
REASON FOR WORK: To abandon Morrow and Recomplete in Bone Springs.

CONDITION OF HOLE:

TOTAL DEPTH: 13,667 ETD or ~~XXXX~~: 13,601 DATUM IS 18.5' ABOVE GL

CASING RECORD:

11-3/4" 42# 8rd ST&C H-40 Set @ 525' cmt'd w/450 sxs.
8-5/8" 32# 8rd ST&C K-55 Set @ 5,284' cmt'd w/650 sxs TOC @ 3,050'.
5-1/2" 17 and 20# 8rd ST&C N-80 and LS-95 Set @ 14,667' cmt'd w/1,000 sxs
TOC @ 7,800' by Temp. Survey.

PERFORATIONS:

13,363 - 369 (14)	Morrow Open	13,294 - 300 (13)	Open Middle Morrow
13,372 - 374 (6)	Morrow Open	13,217 - 218 (4)	Open Middle Morrow
13,383 - 386 (8)	Morrow Open	13,218 - 219 (4)	Open Middle Morrow
13,419 - 423 (10)	Morrow Open		

TUBING DETAIL:

2-7/8" 6.5# N-80 tbg landed in Otis "WB" perm pkr @ 12,995'.

ROD & PUMP DETAIL:

PROCEDURE:

1. MI RU DD unit. Kill Well with Brine Water. Install BOP.
2. POH w/2-7/8" tbg.
3. Set CIBP @ 9,900' on wireline. Dump 20' cmt on top of CIBP.
4. RIH w/retrievable pkr. on 2-7/8" tbg to 9,750' and spot 250 gallons perf. acid 9,750 - 9,650'. Pick up to 9,650 and set pkr. Swab FL to 5,000'.
5. Perforate 5-1/2" csg w/tubing gun @ 9,738 - 9,748 w/1 JSPF (2nd Bone Spring).
6. Swab test. If necessary acidize w/2,000 gallons 15% HCl acid and swab test.
- *7. If zone is wet, POH w/2-7/8" tbg and Ret. pkr. Set CIBP on wireline @ 9,700' and dump 20' cmt on top of CIBP.
8. RIH w/Retr. pkr on 2-7/8" tbg to 9,507' and spot 250 gallons perf acid 9,507 - 9,407'.
9. PU to 9,407' and reverse. Set pkr. Swab fluid level to 5,000'.
10. Perforate 5-1/2" csg w/tubing gun @ 9,496 - 9,506' w/1 JSPF swab test. (Bone Springs "B")
11. If Necessary, acidize w/3,000 gallons 15% HCl and swab test.

PROCEDURE - Continued
PIPELINE STATE WELL NO. 1
La Rica Field
Lea County, New Mexico

12. If Necessary, Sand frac zone - the size of fracturing treatment to be determined later.
13. Swab well in and place on production.

* Note: If 2nd Bone Spring, Interval 9,738 - 9,748', is productive, set a retrievable bridge plug @ 9,700' instead of CIBP. If sand frac is necessary retrieve BP and treat both zones using ball sealers.