

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-101
Revised 10-1-78

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SANTA FE	
FILE	
U.S.G.S.	
LAND OFFICE	
OPERATOR	

5A. Indicate Type of Lease
STATE ☐ FEDERAL ☒

5. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL ☒ DEEPEN ☐ PLUG BACK ☐		7. Unit Agreement Name
b. Type of Well OIL WELL ☐ GAS WELL ☒ OTHER ☐ SINGLE ZONE ☒ MULTIPLE ZONE ☐		8. Name of Lessee Pirene
2. Name of Operator Jerome P. McHugh		9. Well No. #1
3. Address of Operator P O Box 208, Farmington, NM 87401		10. Field and Pool, or Wildcat South Blanco P.C.
4. Location of Well UNIT LETTER <u>J</u> LOCATED <u>1850'</u> FEET FROM THE <u>South</u> LINE <u>1850'</u> FEET FROM THE <u>East</u> LINE OF SEC. <u>35</u> TWP. <u>24N</u> R. <u>1W</u> NMPM		12. County Rio Arriba
15. Proposed Depth 2900'		19A. Formation Pictured Cliffs
21A. Kind & Status Plug. Bond		20. Rotary or C.T. Rotary
21B. Drilling Contractor James Drilling Co.		22. Approx. Date Work will start ASAP
21. Elevations (Show whether D.F., K.I., etc.) 7275' GL		

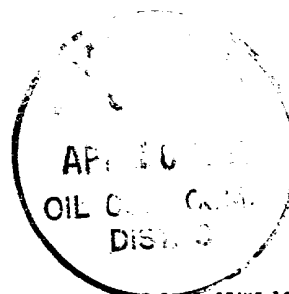
23.

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12-1/2"	8-5/8"	24#	90'	60 sx	Surface
6-1/4"	4-1/2"	9.5#	2900'	200 sx	Surface

Plan to drill with mud to test P.C. formation. If productive, will run 4 1/2" casing to TD, selectively perforate, frac, clean out after frac, run tubing, and put well on production. Plan to use hydraulic BOP, bag type. Wellhead equipment will be 1000# psi W.P., non-flanged.

GAS NOT DEDICATED

APPROVAL VALID
FOR 6 mo UNLESS
DRILLING COMMENCED,EXPIRES 10-10-81

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PREVIOUS PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

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

Signed Jerome P. McHugh Jerome P. McHugh Jr. Title Agent Date 4-8-81

(This space for State Use)

APPROVED BY Frank J. Day TITLE SUPERVISOR DISTRICT # 3 DATE APR 10 1981

CONDITIONS OF APPROVAL, IF ANY:

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form C-102
Revised 10-1-78

All distances must be from the outer boundaries of the Section.

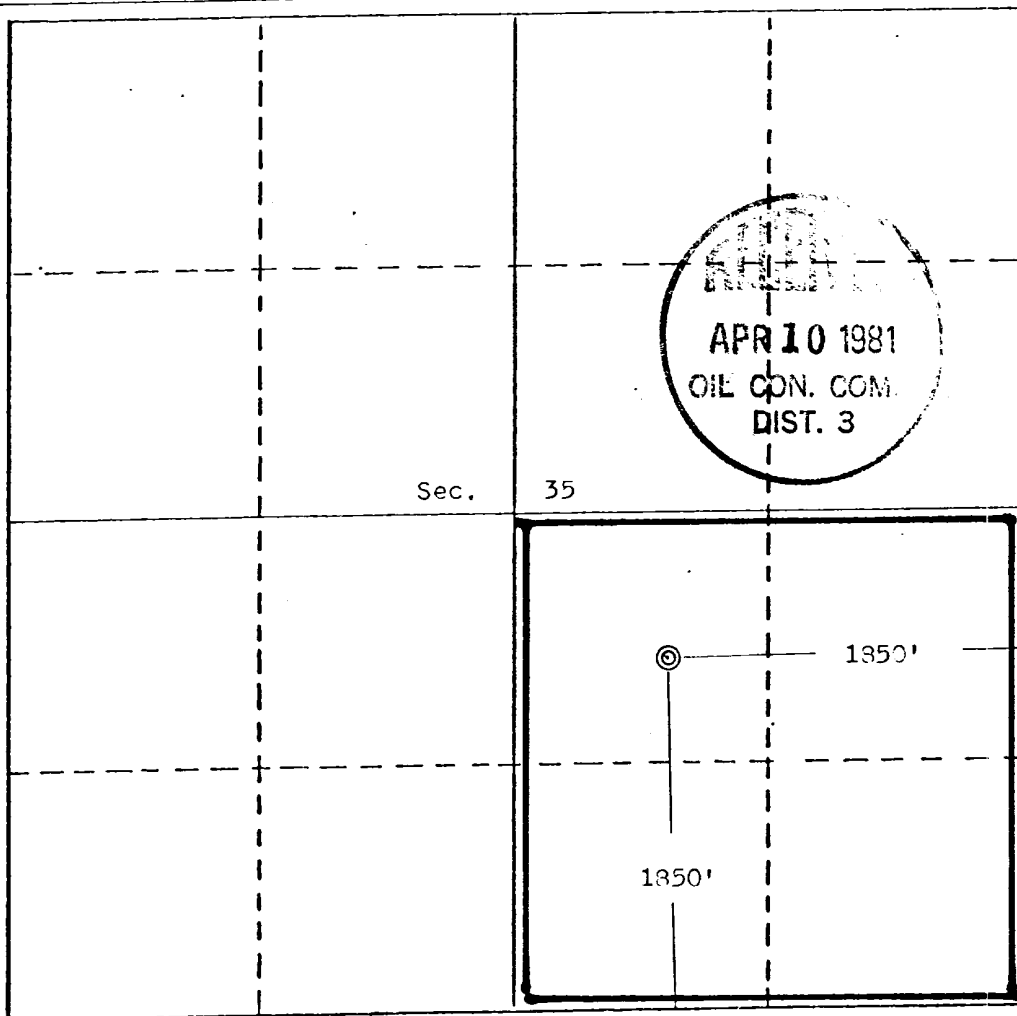
Operator Jerome P. McHugh		Lease Pirene		Well No. 1
Unit Letter J	Section 35	Township 24 North	Range 1 West	County Rio Arriba
Actual Footage Location of Well:				
1850	feet from the	South	line and	1850
				feet from the
				East
				line
Ground Level Elev. 7275	Producing Formation Pictured Cliffs		Pool South Blanco P.C.	Dedicated Acreage: 160
				Acre

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. 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 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 interests, has been approved by the Division.



CERTIFICATION

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

Name

Jerome P. McHugh Jr.

Position

Agent

Company

Dugan Production Corp.

Date

4-8-81

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

Date Surveyed

April 3, 1981

Registered Professional Engineer
and/or Land Surveyor

Edgar L. Risenhoover
Certificate No. 5979

Edgar L. Risenhoover, L.S.

OPERATIONS PLAN

OPERATOR: JEROME P. McHUGH
WELL NAME: Pirene #1
FIELD: S. Blanco P.C.
LOCATION: 1850' FSL - 1850' FEL, Sec 35 T24N R1W, Rio Arriba County, NM
ELEVATION: 7275' GL

EXPECTED FORMATION TOPS:	Ojo Alamo	2427'	Point Lookout	
	Kirtland	2565'	Mancos	
	Fruitland	2615'	Gallup	
	Pictured Cliffs	2730'	Greenhorn	
	Lewis		Graneros	
	Cliff House		Dakota	
	Menefee		Total Depth	2900'

LOGGING PROGRAM: IES & CDL logs
SAMPLES: Catch samples from 2550' to TD.

CASING PROGRAM

<u>Hole Size</u>	<u>Depth</u>	<u>Csg Size, Wt, Grade, & Condition</u>	<u>Cementing Program</u>
12-1/2"	90'	8-5/8" 24# J-55 A	60 sx
6-1/4"	2900'	4-1/2" 9.5# J-55 A	200 sx

WELLHEAD EQUIPMENT 1000# psi W.P., non-flanged

Office	325-1821
Tom Dugan	325-5694
Jim Jacobs	325-8353
Sherman Dugan	327-4287
Bill Donovan	325-5692
Jerome McHugh Jr.	325-6978

DAILY REPORT

- 7-2-81 Move in and rig up MTK Inc. Rig #2. Pick up workstring of tubing. T.I.H. to 2588' G.L. Rig down.
- 7-3-81 Rig up Western Co. and spot 250 gals 7½% HCL from 2588' to 2215' GL. Move in and rig up MTK Inc. Rig #2. P.O.O.H. w/ tbg. Rig up Jetronics Inc. and run GR-CCL log from 2600' to 1600' GL.

Perforate Pictured Cliffs Formation using 3-1/8" hollow carrier gun at 2526', 28, 30, 32, 43, 45, 47, 52, 54, 56, 58 for a total of 11 holes. Rig up Western Co. and foam fracture the Pictured Cliff Formation using 70% N₂ foam as follows:

7,500 gals foam pad
10,000 gals foam w/ 1#/gal 20-40 sand
20,000 gals foam w/ 2#/gal 20-40 sand
1,710 gals foam flush

Total sand: 50,000# 20-40 mesh

Total fluid: 39,210 gals foam (280 bbls H₂O, 72 gals
Adafoam, 354,000 scf N₂)

Treating Pressures: Max ±2300 psi, Min ±2100 psi, Ave ±2200 psi
Ave Injection Rate ±30

Well opened to atmosphere at 7:15 p.m.

- 7-4-81 Shut well in @ 11:30 AM. Well making approx. 60 MCF/ day and slugging water.
- 7-5-81 Shut down - Sunday
- 7-6-81 Pick up production string of tbg. Tag sand @ 2563' GL. Ran 79 jts. of 1-1/4" 2.4#, V-SS, 10Rd EUE tbg. T.E. at 2553.62' set at 2552' GL. Well gassing very lightly. Rig up swab tools and make 3 swab runs. Well gassing lightly after each run. Does not appear to be making water. Making approx. 50 MCF/ day of gas. Rig down.
- 7-21-81 Move in and rig up MTK Inc. Rig #2. Load hole w/ 36 bbls. of water. P.O.O.H.w/ tbg. Rig up Jetronics Inc. and perforate the Nacimiento Formation using a 3-1/8" hollow carrier gun at 1874, 75, 76, 77, 78 and 79 for a total of 6 holes. Well flowed back approx. 15 mins. after perforating. Well making approx. 750 MCF/day w/ heavy mist of water after two hours. Shut in over night.
- 7-22-81 Well dead at 7:00 a.m. T.I.H. w/ packer and tbg. Ran 1 Baker type "A" packer w/ bull plug on bottom, 2-3/8" perforated nipple, 60 jts. of 1½" 2.4# V-55 10 Rd EUE tubing and one 2-3/8" 4.7# 8 Rd EUE nipple. T.E. 1922.45' Packer set at 1925' RKB w/ 9000# tension. Install well head and rig up swab tools.