

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL ☒ DEEPEN ☐ PLUG BACK ☐

b. TYPE OF WELL  
OIL WELL ☐ GAS WELL ☒ OTHER ☐ SINGLE ZONE ☒ MULTIPLE ZONE ☐

2. NAME OF OPERATOR  
SOUTHLAND ROYALTY COMPANY

3. ADDRESS OF OPERATOR  
P. O. Drawer 570, Farmington, New Mexico

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*  
At surface 1840' FSL & 1490' FWL  
At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
18 miles South of Gobernador

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

17. NO. OF ACRES ASSIGNED  
TO THIS WELL  
w/ 320

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

19. PROPOSED DEPTH  
6169'

20. ROTARY OR CABLE TOOLS  
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
7032' GR

22. APPROX. DATE WORK WILL START\*  
June 1, 1979

5. LEASE DESIGNATION AND SERIAL NO.  
Jicarilla 151

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
Arizona Jicarilla "B"

9. WELL NO.  
#8A

10. FIELD AND POOL, OR WILDCAT  
Blanco Mesaverde

11. SEC., T., R., M., OR BLK.  
AND SURVEY OR AREA  
Section 9, T26N, R5W

12. COUNTY OR PARISH  
Rio Arriba

13. STATE  
New Mexico

## 23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	9-5/8"	36#	200'	130 cu. ft.
8-3/4"	7"	20#	3859'	238 cu. ft.
6-1/4"	4-1/2"	10.50#	3709'-6169'	432 cu. ft.
	2-3/8"	4.7#	6119'	

Surface formation is San Jose.

Top of Ojo Alamo sand is at 2944'.

Top of Pictured Cliffs sand is at 3609'.

Fresh water mud will be used to drill from surface to intermediate depth.

An air system will be used to drill from intermediate depth to total depth.

It is anticipated a GR-Density and a GR-Induction log will be run at total depth.

No abnormal pressures or poisonous gases are anticipated in this well.

It is expected that this well will be drilled before September 1, 1979. This depends on time required for approvals, rig availability and the weather.

Gas is dedicated.

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.

24. SIGNED [Signature] TITLE District Production Mgr. DATE February 22, 1979

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

ok Frank

\*See Instructions On Reverse Side

U. S. GEOLOGICAL SURVEY  
FEB 26 1979

**NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT**

Form C-102  
Supersedes C-128  
Effective 1-1-65

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

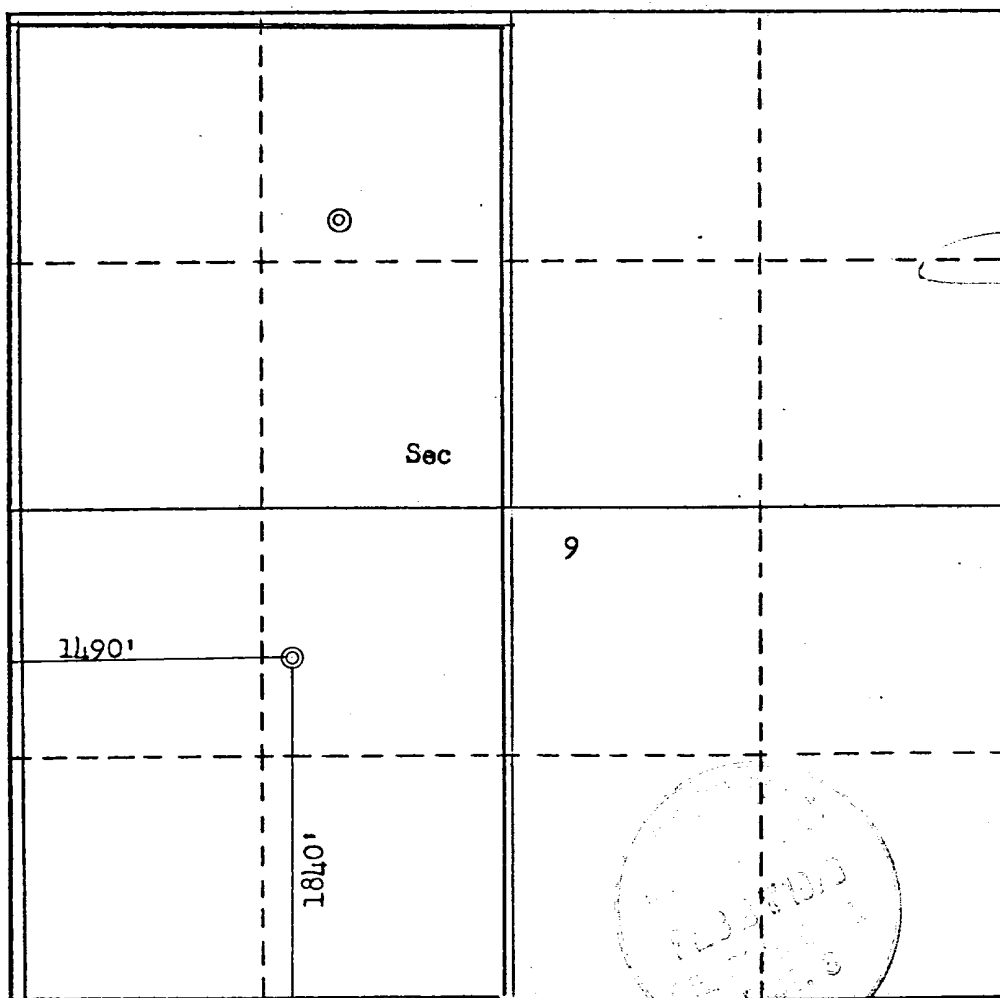
Operator <b>Southland Royalty Co.</b>			Lease <b>Arizona-Jicarilla "B"</b>		Well No. <b>8A</b>
Unit Letter <b>K</b>	Section <b>9</b>	Township <b>26N</b>	Range <b>5W</b>	County <b>Rio Arriba</b>	
Actual Footage Location of Well: <b>1840</b> feet from the <b>South</b> line and <b>1490</b> feet from the <b>West</b> line					
Ground Level Elev. <b>7032</b>	Producing Formation <b>Blanco</b>		Pool <b>Mesaverde</b>	Dedicated Acreage: <b>320</b> Acres	

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 Commission.



**CERTIFICATION**

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

Name \_\_\_\_\_  
 Position  
**District Production Manager**  
 Company  
**Southland Royalty Company**  
 Date  
**February 22, 1979**

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.

Date Surveyed  
**January 24, 1979**  
 Registered Professional Engineer and/or Land Surveyor  
*Fred B. Kerr, Jr.*  
**Fred B. Kerr, Jr.**  
 Certificate No.  
**3950**

330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0

DRILLING SCHEDULE - Arizona Jicarilla B #8A

Location: 1840' FSL & 1490' FWL, Section 9, T26N, R5W, Rio Arriba, New Mexico

Field: Blanco Mesaverde

Elevation: 7032' GR

Geology:

Formation Tops:	Ojo Alamo	2944'	Cliff House	5294'	
	Fruitland	3447'	Point Lookout	5819'	
	Pictured Cliffs	3609'	Total depth	6169'	(Add 50'
	Intermediate TD	3859'			if hole
					gets wet)

Logging Program: GR-Density and GR-Induction at total depth.

Coring Program: None

Natural Gauges: Gauge at last connection above Cliff House, Point Lookout and total depth.  
Gauge any increase in gas flow.

Drilling:

Contractor:

Tool Pusher:

SRC Representative: Ross Lankford

SRC Ans. Service: 325-1841

Dispatch Number: 325-7391

Mud Program: Fresh water mud from surface to Intermediate total depth.  
Air from intermediate to total depth.

Materials:

Casing Program:	Hole Size	Depth	Casing Size	Wt. & Grade
	12-1/4"	200'	9-5/8"	36# K-55
	8-3/4"	3859'	7"	20# K-55
	6-1/4"	3709'-6169'	4-1/2"	10.5# K-55

Float Equipment:

9-5/8" Surface Casing: Pathfinder, type "A", guide shoe.

7" Intermediate Casing: Pathfinder, type "A", guide shoe. Pathfinder self-fill insert float valve. Five (5) Pathfinder rigid centralizers. Run float 2 joints above shoe. Run centralizers every other joint above shoe.

4-1/2" Liner: Pathfinder, type "AP", guide shoe. Pathfinder, type "A", flapper float collar.

Tubing:

Wellhead Equipment: 9 5/8" X 10", 2000# casing head.  
10", 2000# X 6", 2000# tubing head.

Cementing:

9 5/8" surface casing:  $\frac{130}{\text{per sack and } 3\% \text{ CaCl}_2}$  cu. ft.  $\frac{100}{\text{sx Class "B" with } 1/4\# \text{ gel flake}}$  (100% excess).

7" intermediate casing:  $\frac{238}{\text{gel. Mix with } 7.2 \text{ gals water per sack to weigh } 12.85 \text{ ppg. Tail in with } 50 \text{ sacks of Class "B" with } 2\% \text{ CaCl}_2. \text{ If lost circulation occurs, add } 1/4\# \text{ cello flake per sack (50\% excess to cover Ojo Alamo).}}$  cu. ft.  $\frac{120}{\text{sx } 50/50, \text{ Class "B", Poz with } 6\% \text{ gel.}}$

4 1/2" liner:  $\frac{432}{\text{with } 290 \text{ sx of } 50/50, \text{ Class "B", Poz with } 6\% \text{ gel, } 1/4\# \text{ cello flake and } .6\% \text{ Halad } 9. \text{ Mix cement with } 7.2 \text{ gals water per sack to weigh } 12.85 \text{ ppg (70\% excess). If hole gets wet and mist drilling is required, use } 100\% \text{ excess to circulate liner. ( } 350 \text{ sx)}}$  cu. ft. Precede cement with 20 bbls. gelled water. Cement



**Southland Royalty Company**

United States Geological Survey  
P. O. Box 1809  
Durango, Colorado

Attention: Mr. Jerry Long

Dear Sir:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite 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 be performed by Southland Royalty Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

Date: February 22, 1979

Name: 

Title: District Production Manager



**Southland Royalty Company**

February 22, 1979

United States Geological Survey  
P. O. Box 1809  
Durango, Colorado

Attention: Mr. Jerry Long

Dear Sir:

Enclosed please find map showing existing roads and planned access roads to Southland Royalty Company's Arizona Jicarilla "B" #8A well. The location of tank batteries and flow lines will be on location with well. A burn pit will be provided for disposal of trash. Cuttings, drilling fluid and produced fluids will be put into the reserve pit and properly disposed of depending on amount and type of fluids.

Contractor will furnish restroom facilities on location.

There will be no air strips or camps.

Also, enclosed is a location layout showing approximate location of rig, pits, pipe racks and cut required to build this location.

Water supply will be Jicarilla Reservation Water Holes. All water will be transported by truck and stored on location.

The location will be restored according to Bureau of Indian Affairs standards. This work will begin when all related construction is finished.

Mr. Ross Lankford will be Southland Royalty Company's field representative supervising these operations.

Yours truly,

L. O. Van Ryan  
District Production Manager

LOVR/dg



**Southland Royalty Company**

February 22, 1979

United States Geological Survey  
P. O. Box 1809  
Durango, Colorado

Attention: Blowout Preventer Plan

Dear Sir:

All drilling and completion rigs will be equipped with 6" or larger double gate hydraulic blowout preventers and a hydraulic operated closing unit with steel lines.

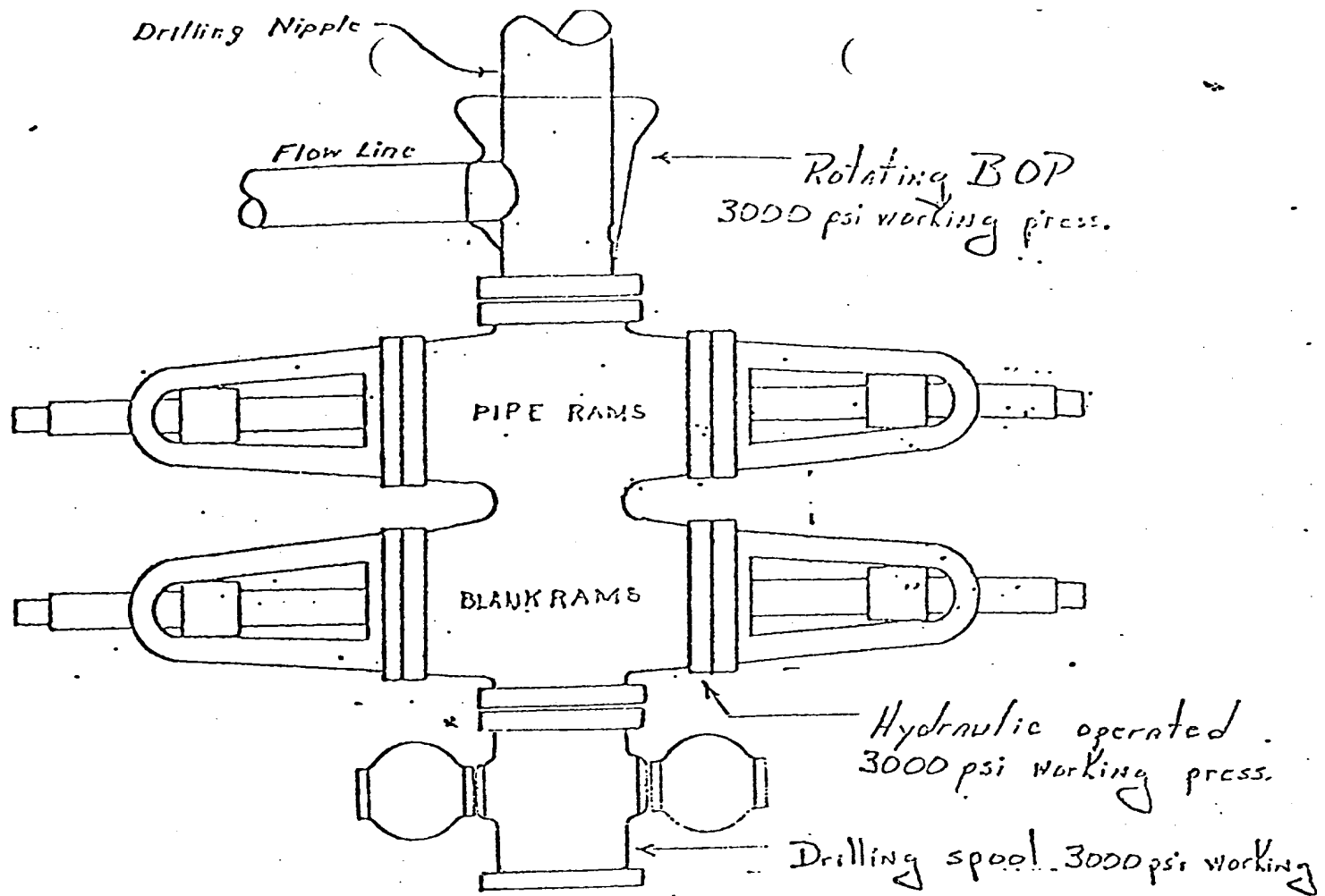
The preventer is 3000# working pressure and 6000# test.

All crews will be thoroughly trained in the operation of this preventer. The preventer will be tested frequently enough to insure proper operation.

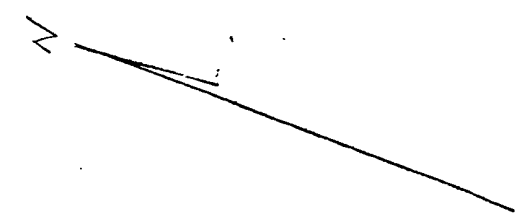
Yours truly,

L. O. Van Ryan  
District Production Manager

LOVR/dg



Preventers and spools are to have  
through bore of 6" - 3000# PSI or larger.

[illegible][illegible]

KERR LAND SURVEYING  
Date: 1-24-79



JICARILLA APACHE INDIAN RESERVATION BOUNDARY



Vicinity Map for  
 SOUTHLAND ROYALTY CO. #8A ARIZONA-JICARILLA "B"  
 1840'FSL 1190'FWL Sec 9-T26N-R5W  
 RIO ARriba COUNTY, NEW MEXICO

- PROPOSED LOCATION      ○
- EXISTING LOCATIONS    ○
- PROPOSED ROADS        - - -
- EXISTING ROADS        ———

A/R

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE\*  
(Other instructions on re-verse side)

Form approved.  
Budget Bureau No. 42-R1424

5. LEASE DESIGNATION AND SERIAL NO.

Jicarilla 151

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Arizona Jicarilla "B"

9. WELL NO.

#8A

10. FIELD AND POOL, OR WILDCAT

Blanco Mesa Verde

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Section 9, T26, R5W

12. COUNTY OR PARISH

Rio Arriba

13. STATE

New Mexico

1. OIL ☐ GAS ☒ WELL ☒ OTHER

2. NAME OF OPERATOR

Southland Royalty Company

3. ADDRESS OF OPERATOR

P. O. Drawer 570, Farmington, New Mexico 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\* See also space 17 below.)  
At surface

1840' FSL & 1490' FWL

14. PERMIT NO.

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

7032' GR

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐

FRACTURE TREAT ☐

SHOOT OR ACIDIZE ☐

REPAIR WELL ☐

(Other)

PULL OR ALTER CASING ☐

MULTIPLE COMPLETE ☐

ABANDON\* ☐

CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐

FRACTURE TREATMENT ☐

SHOOTING OR ACIDIZING ☐

(Other)

Spud and Casing Report

REPAIRING WELL ☐

ALTERING CASING ☐

ABANDONMENT\* ☐

X

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

6-16-79 Spudded 12 1/4" surface hole at 2:00 PM, 6-16-79 and drilled to a TD of 240'. Set 5 joints (216') of 9 5/8", 36#, K-55 casing at 228'. Cemented with 110 sacks of Class "B" with 3% CaCl<sub>2</sub>. Plug down 8:00 PM, 6-16-79. Cement circulated to surface.



18. I hereby certify that the foregoing is true and correct

SIGNED

*CC Pearson*

TITLE District Engineer

DATE 6-19-79

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

6-19-79

\*See Instructions on Reverse Side

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYSUBMIT IN TRIPLICATE\*  
(Other instructions on re-  
verse side)Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

Jicarilla Contract #151

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Arizona Jicarilla "B"

9. WELL NO.

#8A

10. FIELD AND POOL, OR WILDCAT

Blanco Mesa Verde

11. SEC., T., R., M., OR BLK. AND  
SURVEY OR AREA

Section 9, T26N, R5W

12. COUNTY OR PARISH

Rio Arriba

13. STATE

New Mexico

1. OIL ☐ GAS ☒ OTHER  
WELL WELL

2. NAME OF OPERATOR

Southland Royalty Company

3. ADDRESS OF OPERATOR

P. O. Drawer 570, Farmington, NM 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface

1840' FSL &amp; 1490' FWL

14. PERMIT NO.

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

7032' GR

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

## NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐FRACTURE TREAT ☐SHOOT OR ACIDIZE ☐REPAIR WELL ☐

(Other)

PULL OR ALTER CASING ☐MULTIPLE COMPLETE ☐ABANDON\* ☐CHANGE PLANS ☐

## SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐FRACTURE TREATMENT ☐SHOOTING OR ACIDIZING ☐

(Other)

REPAIRING WELL ☐ALTERING CASING ☐ABANDONMENT\* ☐Casing Report ☒(NOTE: Report results of multiple completion on Well  
Completion or Recompletion Report and Log form.)17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any  
proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones perti-  
nent to this work.) \*6-20-79 Set 93 joints (3849') of 7", 20#, K-55 casing at 3859'. Cemented with  
115 sacks of Class "B", 50/50 Poz with 6% gel followed by 50 sacks of  
Class "B" neat with 2% CaCl<sub>2</sub>. Plug down at 10:00 AM, 6-20-79.6-24-79 Set 59 joints (2483.79') of 4 1/2", 10.5#, K-55 casing from 3682' to  
6166'. Cemented with 228 sacks of Class "B", 50/50 Poz with 6% gel,  
1/4# cello flake and .6% Halad 9. Plug down at 12:00 noon, 6-24-79.

18. I hereby certify that the foregoing is true and correct

SIGNED

TITLE District Production Manager DATE 6-25-79

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side