

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 1500' FNL & 790' FEL
At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
8 miles northwest of Aztec, New Mexico

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drilg. unit line, if any) 790'

16. NO. OF ACRES IN LEASE 2198.38

17. NO. OF ACRES ASSIGNED TO THIS WELL 305.96

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 583'

19. PROPOSED DEPTH 7574'

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.) 6324' GR

22. APPROX. DATE WORK WILL START* August 31, 1979

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'	106 sxs (125 cu. ft.)
8-3/4"	7"	20#	5061'	99 sxs (148 cu. ft.) 1st Stg
6-1/4"	4-1/2"	10.5#	4901'-7000'	162 sxs (325 cu. ft.) 2nd Stg
	4-1/2"	11.6#	7000'-7574'	312 sxs (464 cu. ft.)
	2-3/8"	4.7#	7574'	

Surface formation is Nacimiento.

Top of Ojo Alamo sand is at 1630'.

Top of Pictured Cliffs sand is at 2870'.

Top of Cliff House sand is at 4406'.

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.

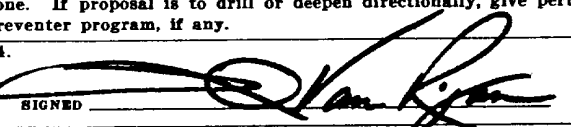
It is anticipated that an IES and a GR-Density log will be run at intermediate depth and a GR-Density and a GR-Induction will be run at total depth.

It is expected that this well will be drilled before September 31, 1979. This depends on time required for approvals, rig availability and the weather.

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

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.  District Production Manager
SIGNED _____ TITLE _____ DATE August 9, 1979
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

NWU 478 ok Frank

YMMACC

*See Instructions On Reverse Side

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

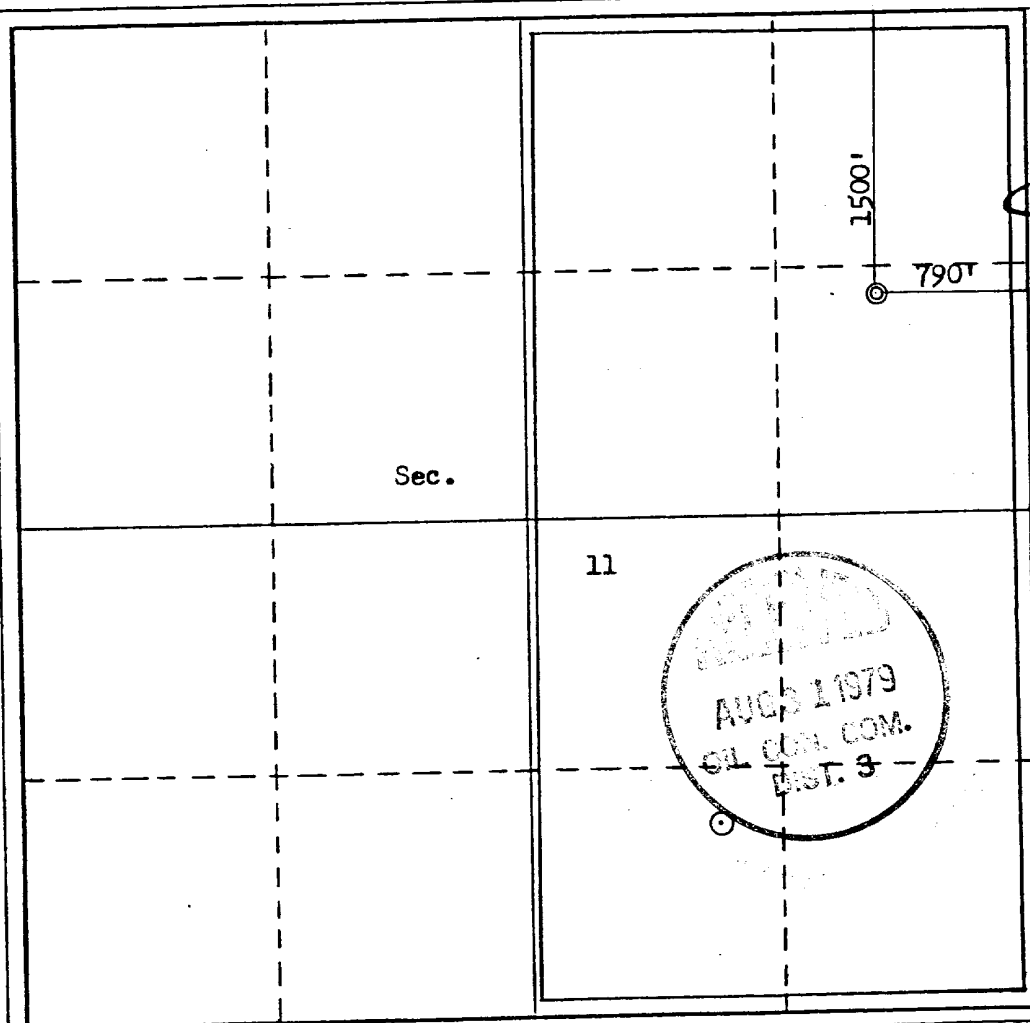
Operator SOUTHLAND ROYALTY COMPANY			Lease DAVIS		Well No. 8E
Unit Letter H	Section 11	Township 31N	Range 12W	County San Juan	
Actual Footage Location of Well: 1500 feet from the North line and 790 feet from the East line					
Ground Level Elev. 6324' GR	Producing Formation Dakota		Pool Basin Dakota	Dedicated Acreage: 305.96 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hachure 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
District Production Manager

Position
Southland Royalty Company

Company
August 9, 1979

Date

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.

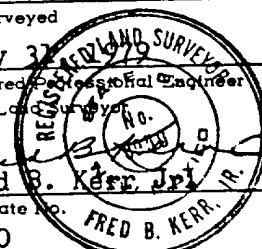
Date Surveyed

July 31, 1979

Registered Professional Engineer and/or Land Surveyor

Fred B. Kerr, Jr.

Certificate No. 3950



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



Southland Royalty Company

August 9, 1979

United States Geological Survey
P. O. Box 959
Farmington, New Mexico

Attention:

Dear Sir:

Enclosed please find a map showing existing roads and planned access roads to Southland Royalty Company's Davis #8E well. The locations 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 and pipe racks and cut required to build this location.

Water supply will be Farmer's Ditch.

The location will be restored according to Bureau of Land Management 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

United States Geological Survey
P. O. Box 959
Farmington, New Mexico 87401

Attention:

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: August 9, 1979

Name: 

Title: District Production Manager



Southland Royalty Company

August 9, 1979

United States Geological Survey
P. O. Box 959
Farmington, New Mexico

Attention:

Re: Blowout Preventer Plan

Dear Sir:

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

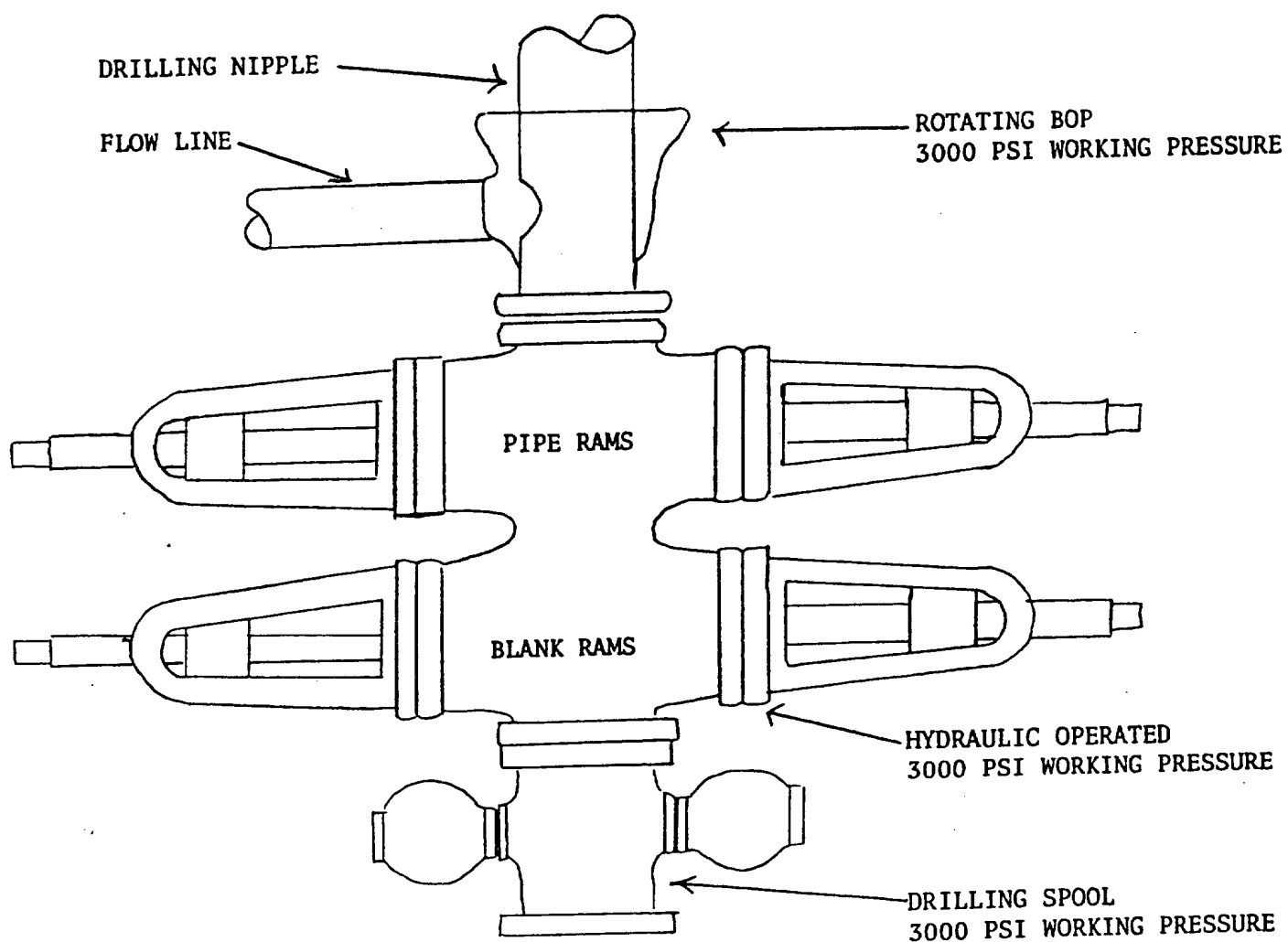
The preventer is 3000# working pressure and 6000# test.

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,

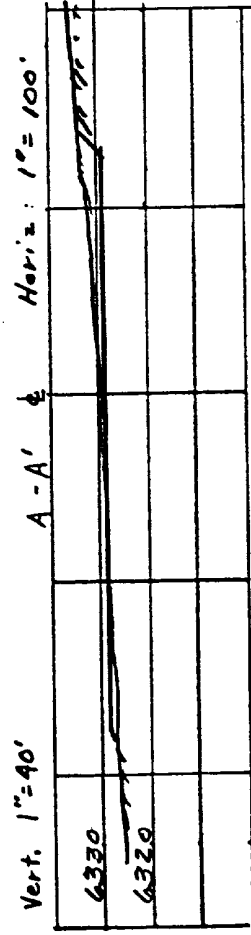
L. O. Van Ryan
District Production Manager

LOVR/dg



PREVENTERS AND SPOOLS ARE TO HAVE
THROUGH BORE OF 6" - 3000 PSI OR LARGER

511607.3.1

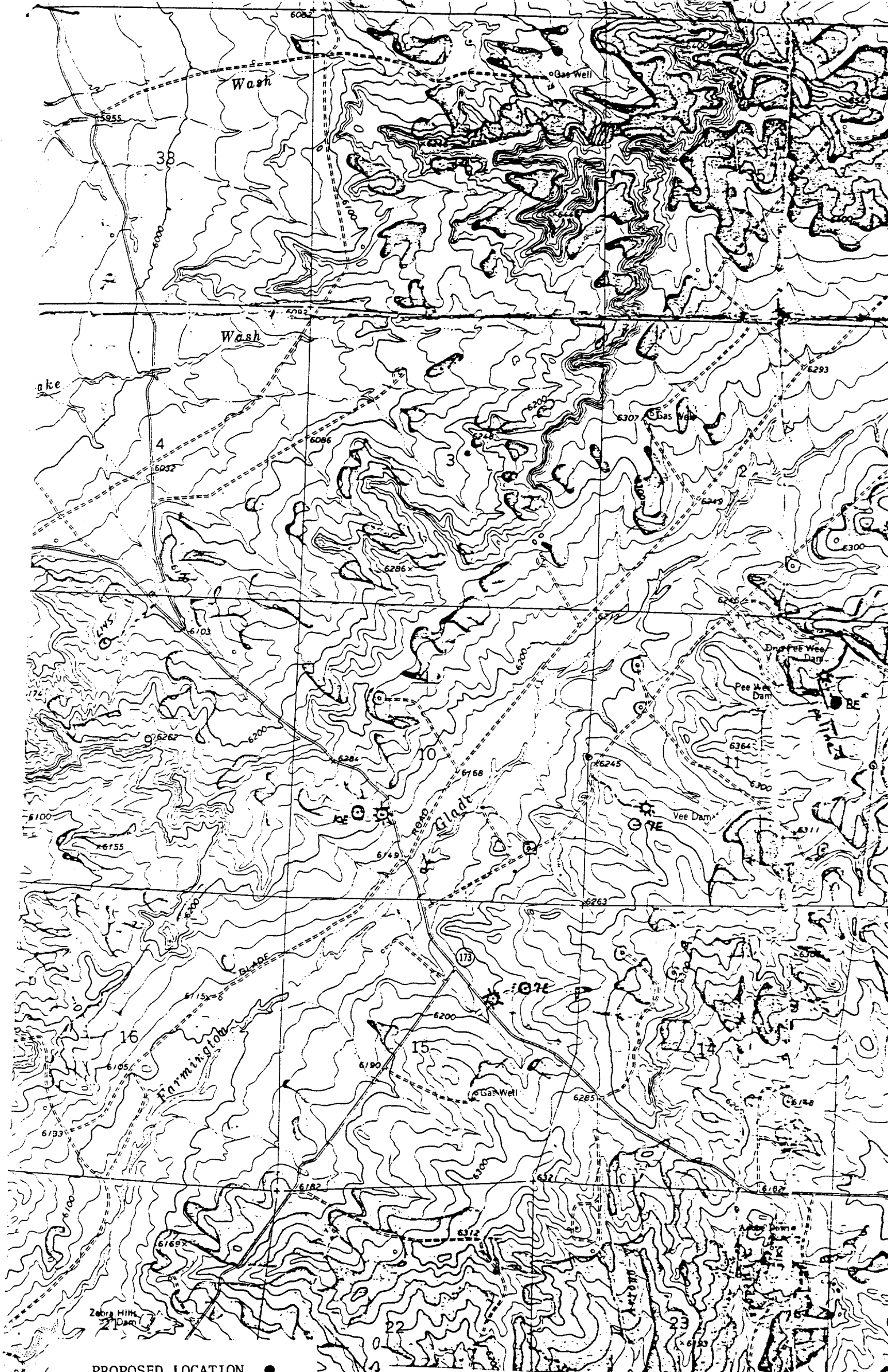


Vert. $1''=40'$	A - A' &	Horiz. $1''=100'$
6330		
6320		

6330	
6320	

[illegible][illegible]

Date: August 9, 1979



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

Vicinity Map for
SOUTHLAND ROYALTY CO. #8E DAVIS
1500'FNL 790'FEL Sec 11-T31N-R12W
SAN JUAN COUNTY, NEW MEXICO

DRILLING SCHEDULE - DAVIS #8E

Location: 1500' FNL & 790' FEL, Section 11, T31N, R12W, San Juan County, New Mexico

Field: Basin Dakota

Elevation: 6324'

Geology: INTERMEDIATE AND TD DEPTHS ARE CRITICAL. ACCURATE PIPE STRAPS ON LOST BIT RUNS ARE NECESSARY.

Formation Tops:

Ojo Alamo	1630'	Intermediate	5061'	Graneros	7283'
Fruitland	2473'	Point Lookout	5111'	Dakota	7424'
Pictured Cliffs	2870'	Gallup	6513'	Total Depth	7574'
Cliff House	4406'	Greenhorn	7227'		

Logging Program: IES & GR-Density at Intermediate TD to 1600'.
GR-Density and GR-Induction at total depth

Coring Program: None

Natural Gauges: Gauge at lost connection above Point Lookout, Dakota and at TD
Gauge any increase in gas flow.

Drilling:

Contractor:

Tool Pusher:

SRC Representative:

SRC Ans. Service: 325-1841

Dispatch Number: 325-7391

Mud Program:

Materials:

<u>Casing Program:</u>	<u>Hole Size</u>	<u>Depth</u>	<u>Casing Size</u>	<u>Wt. & Grade</u>	
	12-1/4"	200'	9-5/8"	36#	K-55
	8-3/4"	5061'	7"	20#	K-55
	6-1/4"	4901'-7000'	4-1/2"	10.5#	K-55
	6-1/4"	7000'-7574'	4-1/2"	11.6#	K-55

Float Equipment:

9-5/8" Surface Casing: Pathfinder Guide Shoe, type "A".

7" Intermediate Casing: Pathfinder, Type "A" guide shoe and self-fill insert float valve. Five Pathfinder rigid centralizers. Run float 2 jts above shoe. Run centralizers every other jt above shoe. Dowell stage tool at 3070". Run cement junk basket one joint below and five rigid centralizers above tool.

4-1/2" Liner: Liner hanger with neoprene pack-off.
Pathfinder type "AP" guide shoe and type "A" float collar.

Tubing:

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

DRILLING SCHEDULE - DAVIS #8-E

Cementing Program:

9-5/8" Surface Casing: 106 sxs or (125 cu.ft.) of Class "B" with 1/4# gel flake/sx and 3% CaCl. WOC 12 hours. Test to 600# prior to drilling out. (Volume is 100% excess.)

7" Intermediate Casing: Stage 1: 99 sxs or (148 cu.ft.) of 50/50 Class "B" Poz with 6% gel (mixed with 7.2 gals water/sx. 50% excess to cover Cliff House.)
qq

Stage 2: 162 sxs or (325 cu.ft.) of 50/50 Poz with 6% gel followed by 70 sxs of Class "B" with 2% CaCl. (50% excess to cover Ojo Alamo.)

WOC and circulate between stages as required by well conditions. WOC 12 hours. Test to 1000 psi before drilling out. Run temperature survey after 8 hours.

4-1/2" liner: 312 sxs or (464 cu.ft.) or 50/50 Poz with 6% gel, 1/4# gel flake per sx and 6% Halad 9 or equivalent. (70% excess.) If hole gets wet and mist drilling is required, use 367 sxs or (546 cu.ft.) for 100% excess to circulate liner.

Precede cement with 20 barrels gel water.

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.

SF-077648

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Davis

9. WELL NO.

8-E

10. FIELD AND POOL, OR WILDCAT

Basin Dakota

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

Section 11, T31N, R12W

12. COUNTY OR PARISH

San Juan

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, New Mexico 87401

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

1520' FNL & 790' FEL

14. PERMIT NO.

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

6324' 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)

Re-stake

PULL OR ALTER CASING ☐

MULTIPLE COMPLETE ☐

ABANDON* ☐

CHANGE PLANS ☐

X

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐

FRACTURE TREATMENT ☐

SHOOTING OR ACIDIZING ☐

(Other)

REPAIRING WELL ☐

ALTERING CASING ☐

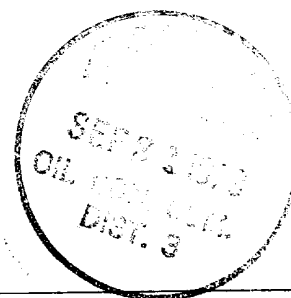
ABANDONMENT* ☐

(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.)*

9-5-79 This location has been restaked in order to conform with Part 221,

Title 30, CFR Section 221.20.



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

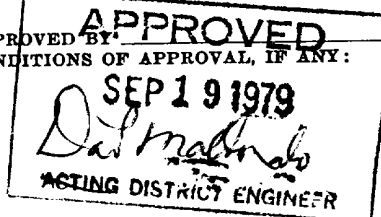
SIGNED

TITLE District Production Manager

DATE SEP 16 1979

(This space for Federal or State office use)

APPROVED BY
CONDITIONS OF APPROVAL, IF ANY:



TITLE

DATE

*See Instructions on Reverse Side

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

Operator SOUTHLAND ROYALTY COMPANY		Lease DAVIS		Well No. 8E	
Unit Letter H	Section 11	Township 31N	Range 12W	County San Juan	
Actual Footage Location of Well: 1520 feet from the North line and 790 feet from the East line					
Ground Level Elev. 6324' GR	Producing Formation Dakota		Pool Basin Dakota		Dedicated Acreage: 305.96 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.

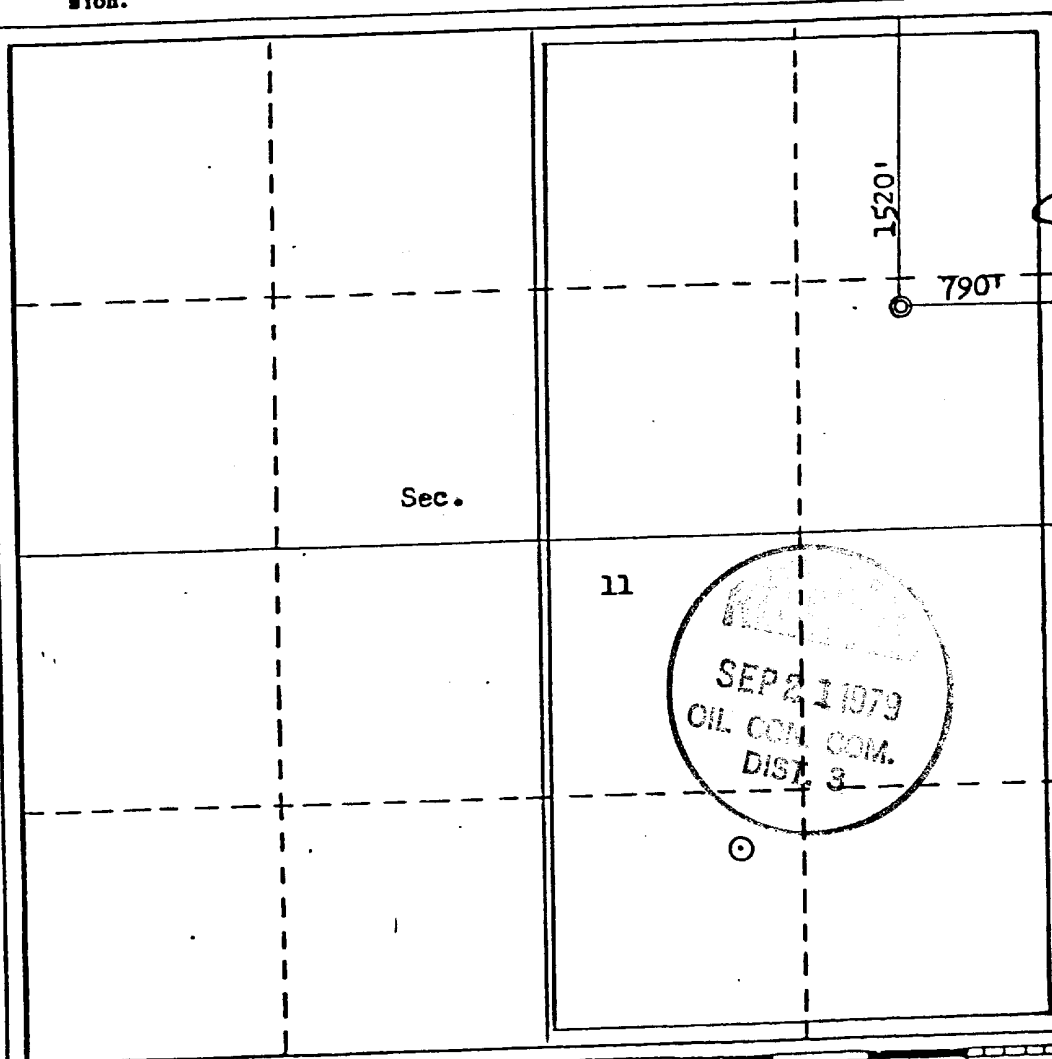
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3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ 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
District Production Manager

Position
Southland Royalty Company

Company
September 6, 1979

Date

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
July 31, 1979

Registered Professional Engineer
and/or Land Surveyor
Fred B. Kerr, Jr.

Certificate No.
3950