

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE*

(See other In-
structions on
reverse side)

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other ☐
b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☒ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other ☐

2. NAME OF OPERATOR
Southland Royalty Company

3. ADDRESS OF OPERATOR
P. O. Box 4289, Farmington, NM 87499

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface 1010' FNL, 1670' FEL
At top prod. interval reported below
At total depth

14. PERMIT NO. DATE ISSUED

15. DATE SPUDDED 1-18-79 16. DATE T.D. REACHED 1-30-79 17. DATE COMPL. (Ready to prod.) 12-6-79 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 7248' GL 19. ELEV. CASINGHEAD 7248'

20. TOTAL DEPTH, MD & TVD 6510' 21. PLUG. BACK T.D., MD & TVD 6462' 22. IF MULTIPLE COMPL., HOW MANY* One 23. INTERVALS DRILLED BY Rotary 24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 4112-4182' Choza Mesa Pictured Cliffs 25. WAS DIRECTIONAL SURVEY MADE NO

26. TYPE ELECTRIC AND OTHER LOGS RUN GR-Ind., GR-Density 27. WAS WELL CORRED NO

CASING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9 5/8"	32.3#	228'	12 1/4"	110 Sacks	
7"	20&23#	4369'	8 5/8"	215 145 Sacks	

LINER RECORD					TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
4 1/2"	4222'	6508'	270		2 7/8"	4147'	6330'

31. PERFORATION RECORD (Interval, size and number)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
4112, 4116, 4120, 4124, 4128, 4132, 4164, 4168, 4178, 4182, w/10 Holes		DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
		4112-4182'	48,000# 20/40 sand & 48,000 gals water

33.* PRODUCTION							
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
12-6-79		Flowing				Shut in	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
9-29-86	SI 7 Days	3/4"		0	328 MCF/D	0	0
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
SI 1038	SI 1027		0	1483	0	0	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Shut in to be Sold TEST WITNESSED BY Cliff Brock

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records
SIGNED [Signature] TITLE Drilling Clerk DATE OCT 10 1986

*(See Instructions and Spaces for Additional Data on Reverse Side)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
Ojo Alamo	3290'	3700'	ss. White cr-grn s.	Ojo Alamo Fruitland Pictured Cliffs Cliff House Pt. Lookout	3290'	
Fruitland	3700'	3940'	Gry carb sh, scattered coals, coals and gry, tight, fine-grn ss.		3700'	
Pictured Cliffs	3940'	5730'	Gry, fine-grn tight, varicolored soft ss.		3940'	
Cliff House	5730'	6245'	ss. Gry, fine-grn, dense sil ss.		5730'	
Point Lookout	6245'	6508'	Gry, very fine sil ss w/frequent sh breaks		6245'	

DRILLING SCHEDULE - JICARILLA 449 #1

Location: 1010' FNL & 1670' FEL, Section 30, T28N, R3W, Rio Arriba, New Mexico

Field: Choza Mesa Pictured Cliffs/Blanco Mesa Verde Elevation: 7248' GL
7260' KB

Geology: Formation Tops: Ojo Alamo 2650' Cliff House 5910'
Pictured Cliffs 3970' Total Depth 6510'
Intermediate 4370'

Logging Program: IES & GR Density @ Intermediate.
GR Induction and GR Density @ Total Depth.

Coring Program: None

Natural Gauges: Gauge @ last connection above Cliff House and at TD.
Also gauge any noticeable increases in gas. Record
all gauges in tour book and turn in on morning report.

Drilling: Contractor - Tool Pusher:
SRC Representative: SRC Ans. Svc. 325-1841
Dispatch No. 325-7391

Mud Program: Fresh water mud to Intermediate.
Air from Intermediate to Total Depth.

Materials: Casing Program:

Hole Size	Depth	Casing Size	Wt. & Grade
12 1/4"	200'	9 5/8"	32.30# H-40
8 3/4"	3950'	7"	20.00# K-55
	3950'-4370'	7"	23.00# K-55
6 1/4"	4220'-6510'	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. Howco self-fill insert float valve. 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. Prod. #2017-1-050. Pathfinder type AP flapper float collar. Prod. #2008-2-000.

Wellhead Equipment: Rector 9 5/8" X 10", 600 # casing head.
10", 600# X 6", 600# tubing head with dual hanger
for 2 3/8" X 1 1/2".

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U. S. GEOLOGICAL SURVEY
DURANGO, COLO.

Drilling Schedule - Jicarilla 449 #1
Page 2

Cementing: 9 5/8" surface casing - 110 sx Cl "B" w/1/4# gel flake/sk & 3% Ca Cl₂ (130 cu. ft.). WOC - 12 hrs. Test to 600 psi prior to drilling out.

7" intermediate casing- 145 sx 50/50 poz w/6% gel (7.2 gal. water/sk) followed by 70 sx Cl "B" w/2% CaCl₂ (253 cu. ft.). If lost circulation is encountered during drilling add 1/4 cu. ft. of fine gilsonite /sk. WOC - 12 hrs. Run temp survey after 8 hrs. Test to 1000 psi before drilling out.

4 1/2" liner - Precede cement with 20 bbls. gel water. Cement with 270 sx 50/50 poz w/6% gel & 0.6% Halad 9 (400 cu. ft.).

L. O. Van Ryan

OCP/kde

8-7-78

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U. S. GEOLOGICAL SURVEY
SANDRIDGE, COLORADO



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: August 10, 1978

Name: CC Parsons

Title: District Engineer

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U. S. GEOLOGICAL SURVEY
DURANGO, COLO.



Southland Royalty Company

August 10, 1978

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 Jicarilla 449 #1 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 water holes along the La Jara Wash. 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. Max Larson will be Southland Royalty Company's field representative supervising these operations.

Yours truly,

L. O. Van Ryan
District Production Manager

LOVR/dg

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Southland Royalty Company

August 10, 1978

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,

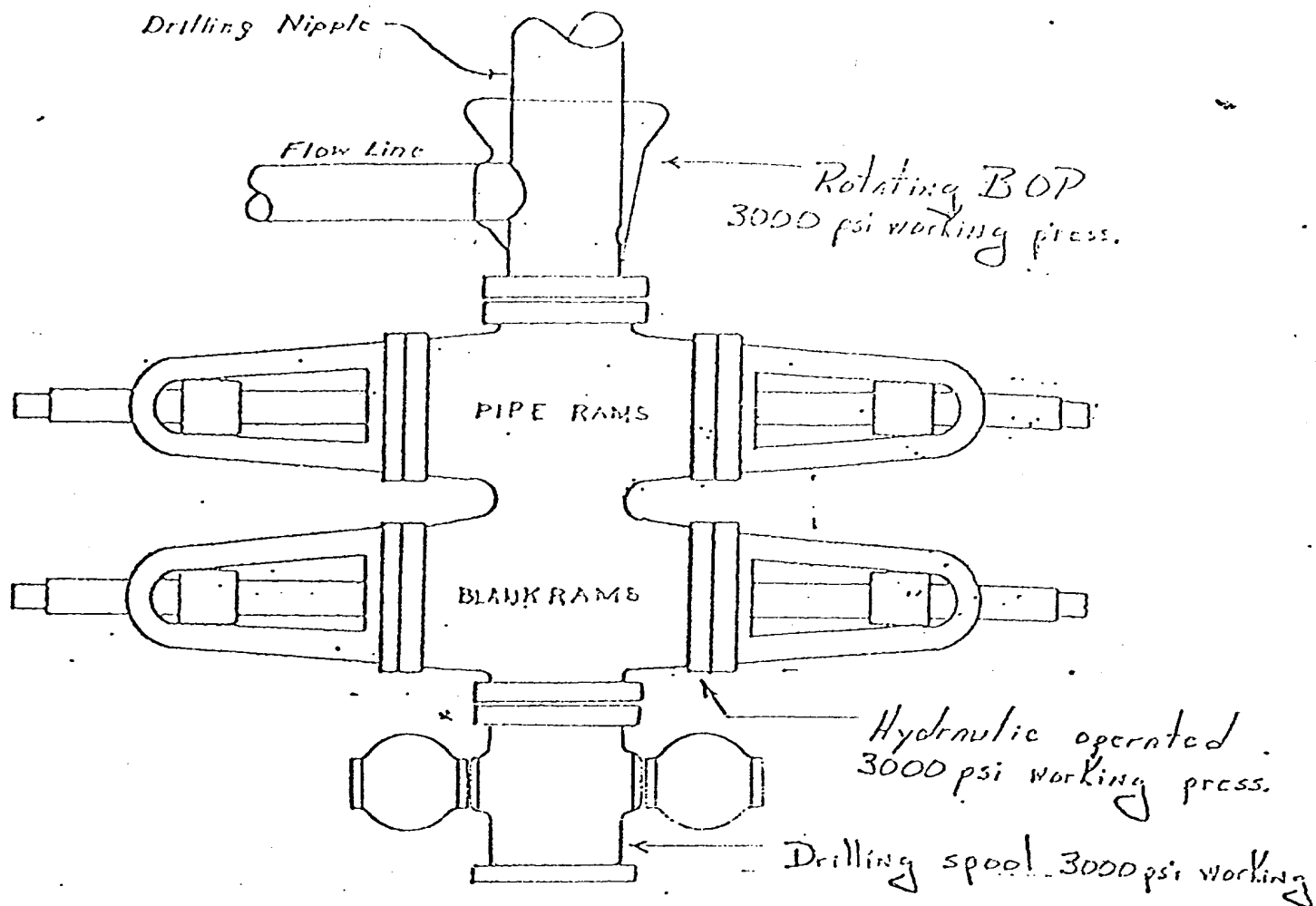
L. O. Van Ryan
District Production Manager

LOVR/dg

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DURANGO, COLO.



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

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DURANGO, COLO.