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LAND OFFICE

OPERATOR

Form C-105  
Revised 1-1-65NEW MEXICO OIL CONSERVATION COMMISSION  
WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5a. Indicate Type of Lease

State ☐Fee ☒

5. State Oil &amp; Gas Lease No.

## 1a. TYPE OF WELL

OIL WELL ☐GAS WELL ☒DRY ☐

OTHER

## b. TYPE OF COMPLETION

NEW WELL ☒WORK OVER ☐DEEPEN ☐PLUG BACK ☐DIFF. RESVR. ☐

OTHER

## 2. Name of Operator

Brooks Exploration Incorporated

80202

## 3. Address of Operator

1005 Western Federal Savings Building, Denver, Colorado

## 4. Location of Well

UNIT LETTER M LOCATED 1650' FEET FROM THE South LINE AND 1650' FEET FROM

THE West LINE OF SEC. 23 TWP. 21N RGE. 21E NMPM

## 7. Unit Agreement Name

## 8. Farm or Lease Name

Clyde Berlier

## 9. Well No.

#4

## 10. Field and Pool, or Wildcat

W.C.

## 12. County

Mora

## 15. Date Spudded

10-4-75

## 16. Date T.D. Reached

10-9-75

## 17. Date Compl. (Ready to Prod.)

10-9-75

## 18. Elevations (DF, RKB, RT, GR, etc.)

6171' Gr. (est)

## 19. Elev. Casinghead

6173'

## 20. Total Depth

416'

## 21. Plug Back T.D.

## 22. If Multiple Compl., How Many

## 23. Intervals Drilled By Rotary Tools

All

## Cable Tools

## 24. Producing Interval(s), of this completion - Top, Bottom, Name

324'-416' open hole, Dakota Sand

## 25. Was Directional Survey Made

No

## 26. Type Electric and Other Logs Run

Gamma Ray

## 27. Was Well Cored

No

## 28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
10 3/4"		37'	13 3/4"	Mudded in to surface	None
7"	24#	324'	8 3/4"	60 scks. reg. circulated	

## 29. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET

## 30. TUBING RECORD

## 31. Perforation Record (Interval, size and number)

Open Hole 324'-416'

## 32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

## DEPTH INTERVAL

## AMOUNT AND KIND MATERIAL USED

## 33. PRODUCTION

## Date First Production

10-11-75

## Production Method (Flowing, gas lift, pumping - Size and type pump)

Flowing Gas

## Well Status (Prod. or Shut-in)

S.I.

## Date of Test

10-22-75

## Hours Tested

1

## Choke Size

1.25"

## Prod'n. For Test Period

## Oil - Bbl.

## Gas - MCF

## Water - Bbl.

## Gas - Oil Ratio

20.5

## Flow Tubing Press.

## Casing Pressure

4.3#

5.13#

## Calculated 24-Hour Rate

## Oil - Bbl.

## Gas - MCF

492.7

## Water - Bbl.

## Oil Gravity - API (Corr.)

## 34. Disposition of Gas (Sold, used for fuel, vented, etc.)

Vented

## Test Witnessed By

## 35. List of Attachments

Gamma Ray, Well summary, 4 point test, gas analysis

36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.

SIGNED

TITLE President

DATE November 11, 1975

## INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Commission not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

**INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE**

### Southeastern New Mexico

## Northwestern New Mexico

T. Anhy _____	T. Canyon _____	T. Ojo Alamo _____	T. Penn. "B" _____
T. Salt _____	T. Strawn _____	T. Kirtland-Fruitland _____	T. Penn. "C" _____
B. Salt _____	T. Atoka _____	T. Pictured Cliffs _____	T. Penn. "D" _____
T. Yates _____	T. Miss _____	T. Cliff House _____	T. Leadville _____
T. 7 Rivers _____	T. Devonian _____	T. Menefee _____	T. Madison _____
T. Queen _____	T. Silurian _____	T. Point Lookout _____	T. Elbert _____
T. Grayburg _____	T. Montoya _____	T. Mancos _____	T. McCracken _____
T. San Andres _____	T. Simpson _____	T. Gallup _____	T. Ignacio Qtzte _____
T. Glorieta _____	T. McKee _____	Base Greenhorn _____	T. Granite _____
T. Paddock _____	T. Ellenburger _____	T. Dakota _____	T. _____
T. Blinebry _____	T. Gr. Wash _____	T. Morrison _____	T. _____
T. Tubb _____	T. Granite _____	T. Todilto _____	T. _____
T. Drinkard _____	T. Delaware Sand _____	T. Entrada _____	T. _____
T. Abo _____	T. Bone Springs _____	T. Wingate _____	T. _____
T. Wolfcamp _____	T. _____	T. Chinle _____	T. _____
T. Penn. _____	T. _____	T. Permian _____	T. _____
T. Cisco (Bough C) _____	T. _____	T. Penn. "A" _____	T. _____

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0'	34'	34'	Surface Gravel & clay				
34'	103'	69'	Carlisle Shale				
103'	197'	94'	Greenhorn Ls.				
197'	322'	125'	Graneros Shale				
322'	416'	94'	Dakota Sand & Shale				

903 Republic Building

E. C. BARNHOLT

PETROLEUM ENGINEER

XXXXXXXXXXXXXXXXXXXX  
XXXXXXXXXXXXXXXXXXXX

Denver, Colorado 80202

OFFICE 303/222-0050

HOME 303/723-1120

BROOKS EXPLORATION, INC.

WELL SUMMARY

STATE: New Mexico

COUNTY: Mora

WELL: No. 4

LEASE: Berlier

LOCATION: SW/4 Section 23, Township 21 North, Range 21 East

DATE SPUDDED: October 4, 1975

ELEVATION: 6172 feet

CONDUCTOR HOLE SIZE: 13 3/4"      DEPTH: 37 feet

CONDUCTOR SIZE: 10 3/4"      AMOUNT: 37 feet

PRODUCTION CASING SIZE: 7" to 324 feet

CEMENTED WITH: 60 sx, cement circulated

SIZE HOLE BELOW PRODUCTION CASING: 6 1/8" to 416 feet

STIMULATION: None, Due to Good Natural Production Test

# DAILY DRILLING REPORT

October 4, 1975: Spud well at 4:40 p.m., drill 8 3/4 pilot hole to 20 feet.

October 5, 1975: Ream pilot hole to 13 3/4", drill 13 3/4" hole to 37 feet  
Set 10 3/4" conductor at 37 feet.

October 6, 1975: Drilled 8 3/4" hole to 325 feet.

October 7, 1975: Ran drill pipe and bit to bottom, cleaned out hole, hole full of water. Ran 7" casing to 324 feet with 1 centralizer  
2 joints off bottom, 1 basket 1 joint off bottom, cemented with 60 sx, cement circulated, cement displaced at 5:45 p.m.

October 8, 1975: W.O.C.

October 9, 1975: Drilled cement, 30 feet hard cement in casing. Drilled 6 1/8" hole to 416 feet. Good gas blow.

October 10, 1975: Ran Logs

## WELL TEST October 11, 1975

<u>Orifice Size</u>	<u>PSIG</u>	<u>MCFPD</u>
1/2"	4.75	80
3/4"	4.70	165
1"	4.50	300

## SAMPLE TOPS

Carlile	34 feet
Greenhorn	103 feet
Graneros	197 feet
Dakota	322 feet

# PANTECHS LABORATORIES

P. O. BOX 681 TEL 806 669-6202 PAMPA, TEXAS 79065

## ANALYSIS RESULTS SUMMARY

COMPONENT	MOL %	GPM	LIQ. VOL %	10:00 AM	SAMPLE DATA
NITROGEN	15.25			DATE SAMPLED	10-23-75 CYL. NO. PL-25
CARBON DIOXIDE	1.47			DATE OF ANALYSIS	10-24-75
METHANE C1	83.26			COMPANY	BROOKS EXPLORATION, INC.
ETHANE C2	0.00			PLANT	
PROPANE C3	0.00			LEASE	BERLIER NO. 4
I-BUTANE I C4	0.00			SAMPLE OF	WELL HEAD GAS
N-BUTANE N C4	0.00			PRESSURE	Well head 6 #
I-PENTANE I C5	0.00			TEMPERATURE	ATMOS. 65 F
N-PENTANE N C5	0.00			GAS ( X )	LIQUID ( ) OIL ( )
HEXANES + C6	0.02			SAMPLED BY:	Pantechs - JAH
Oxygen	0.02			ANALYSIS BY:	JAH
				DISTRIBUTION OF RESULTS:	
				3 - BROOKS EXPLORATION, INC.	
				1005 Western Federal Savings Bldg.	
				Denver, Colo.	80202

## GASOLINE CONTENT

PENTANES AND HEAVIER

BUTANES AND HEAVIER

PROPANE AND HEAVIER

# GASOLINE

## HEATING VALUE

CALORIMETER

CALCULATED 825

GROSS BTU/CU. FT.

WATER SATURED  
14.696 PSIA & 60 F

WATER SATURED  
XXXXXXX F; 14.65#

840 DRY GAS BASIS; 14.65 psia & 60 F

## SPECIFIC GRAVITY

MEASURED Analytical Balance 0.632

CALCULATED 0.632

## VAPOR PRESSURE

## REMARKS:

## FIELD SULPHUR DETERMINATION

NGPA Std. 2265-68

Hydrogen Sulphide=2.13 Grains/100 cu ft

Mercaptan Sulphur=0.04 Grains/100 cu ft

Total Sulphur =2.17 Grains/100 cu ft

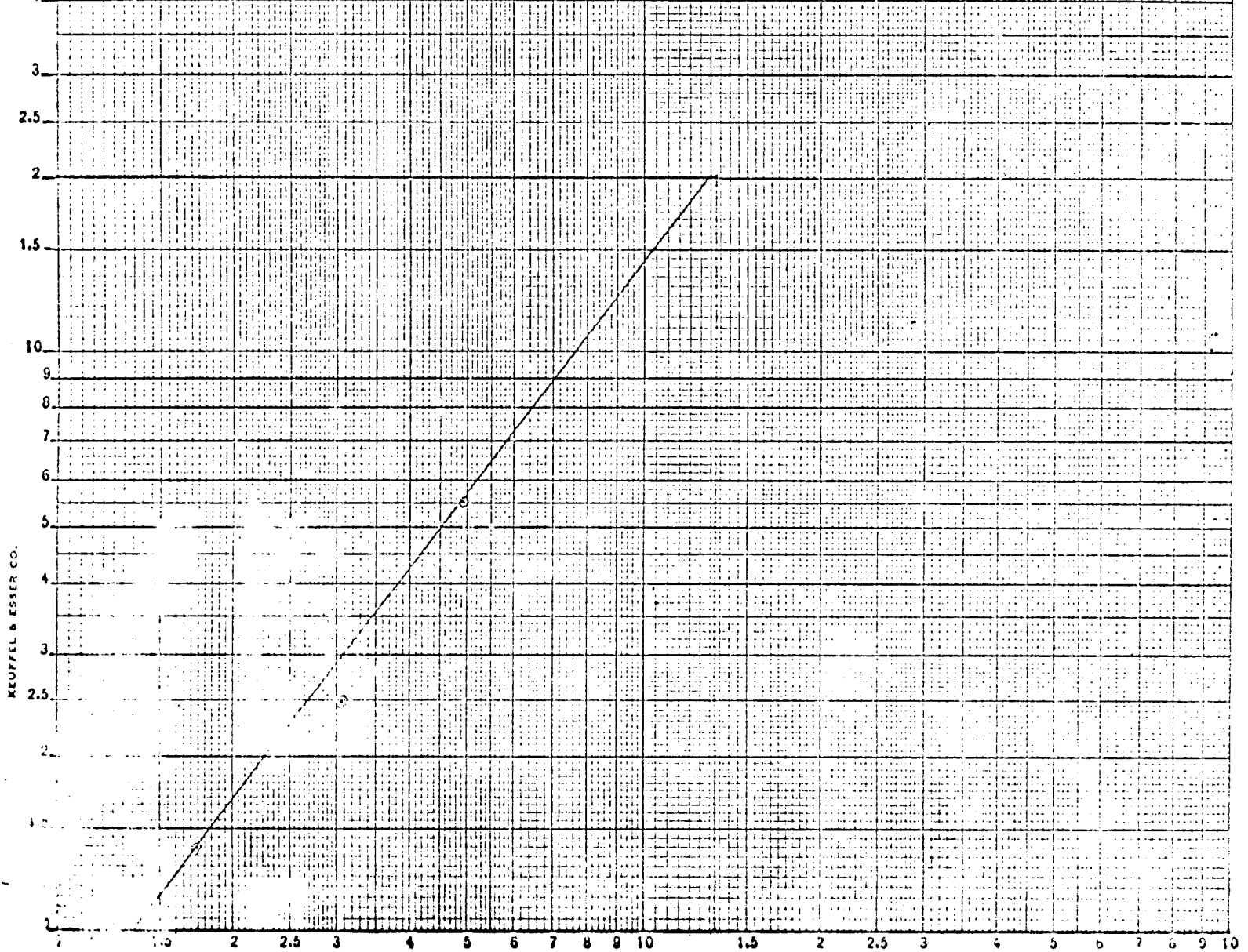
NAME OF COMPANY - Brooks Exploration  
 WELL NAME - Berlier #4  
 COUNTY & STATE - Mora, New Mexico  
 DATE - October 22, 1975

WELL LOGGED BY - CARLE LHO.  
 Gas Gravity 0.632

CHOKE SIZE	PLATE SIZE	BHP <sup>2</sup> FLOWING	GAS VOLUME MCF	TUBING PRESSURE IN. H <sub>2</sub> O	TEMP.
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None	0.500	283	16,472	140	65°F
"	0.750	1395	170,485	136	"
"	1.000	2475	306,479	132	"
"	1.250	5523	492,732	120	"

Static BHP 142" of H<sub>2</sub>O



All pressure given are in  
 inches of H<sub>2</sub>O

Flow Rate MCF Per Day  
 Absolute open flow 1,650 MCF