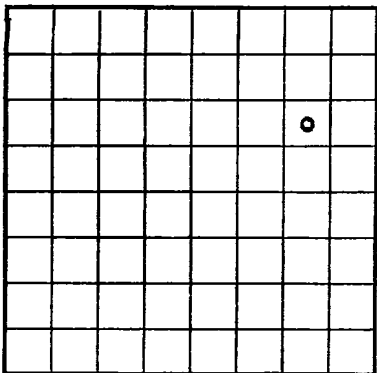


U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 079003
LEASE OR PERMIT TO PROSPECT _____



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Blackwood & Nichols Company Address 1313 Liberty Bank Bldg., Okla. City, Okl
Lessor or Tract Northeast Blanco Unit Field Wildcat State New Mexico
Well No. 1 Sec. 27 T. 31N R. 7W Meridian NMPM County San Juan
Location 1650 ft. {N} of N Line and 990 ft. {E} of E Line of Section 27 Elevation 6404
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed J. A. Corbin
J. A. Corbin
Title Petroleum Engineer

Date November 26, 1952

The summary on this page is for the condition of the well at above date.

Commenced drilling May 19, 19 52 Finished drilling August 18, 19 52

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

G No. 1, from 3016 to 3205 G No. 4, from 7850 to 7995
G No. 2, from 5265 to 5598 No. 5, from _____ to _____
G No. 3, from 5598 to 5750 No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from 8070 to 8095 No. 3, from _____ to _____
No. 2, from _____ to _____ No. 4, from _____ to _____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
13-3/8	48	8 RA	Nat'l	428	Guide	in well	None		Surface
8-5/8	38 3/4	8 RA	Pittsburg	1058	Guide	in well	None		Intermediate
5-1/2	15 5/8	8 RA	Nat'l	774	Guide	in well	None		Production

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
13-3/8	442	387 (circulated)	Pump & plug	9.5 lb per gal.	Circulated
8-5/8	3854	600 (1615' Top Cement)	Pump & plug	9.5 lb per gal.	Circulated
5-1/2	7793	200 (6915' Top Cement)	Pump & plug	9.5 lb per gal.	Circulated

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____
Adapters—Material _____ Size _____

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
		Nitroglycerin	250 lbs.	10-10-52	7877-7997	7997

TOOLS USED

Rotary tools were used from 0 feet to 8095 feet, and from _____ feet to _____ feet
Cable tools were used from Cleaning out after shot feet, and from _____ feet to _____ feet

DATES

October 25, 19 52 Put to producing Shot in; awaiting completion
The production for the first 24 hours was _____ barrels of fluid of which _____ % was oil; _____ % emulsion; _____ % water; and _____ % sediment. Gravity, °Bé. _____
If gas well, cu. ft. per 24 hours 536 MCF Gallons gasoline per 1,000 cu. ft. of gas nil
Rock pressure, lbs. per sq. in. 2400

EMPLOYEES

F. A. Glover, Driller F. G. Stallings, Driller
E. E. Glasebrook, Driller _____, Driller

FORMATION RECORD

FROM	TO	TOTAL FEET	FORMATION
0	70	70	Surface Soil
70	277	207	Sand
277	426	149	Sand and Shale
426	654	228	Sand
654	1105	451	Sand and Shale
1105	1296	291	Shale
1296	1673	377	Sand and Shale
1673	1804	131	Shale
1804	2609	805	Sand and Shale
2609	2722	113	Sand
2722	2822	100	Sand and Shale
2822	2958	136	Shale
2958	3729	771	Sand and Shale
3729	3758	29	Shale, Coal and Sand
3758	3813	55	Sand and Shale.
3813	3859	46	Hard Sand, Shale and Coal
3859	3900	41	Sand and Shale
3900	4011	111	Shale
4011	4052	41	Coal and Sand
4052	4330	278	Shale
4330	4405	155	Sand and Shale
4405	4532	47	Shale
4532	4582	29	Hard Sand and Shale
4582	4702	140	Shale
4702	4728	26	Sandy Shale
4728	4802	74	Shale

(OVER)

FORMATION RECORD—Continued

	TO—	TOTAL FEET	FORMATION
6882	5051	249	Shale
6881	6173	1122	Sand and Shale
6173	6751	578	Shale
6751	6784	33	Sand and Shale
6784	6990	206	Shale
6990	7046	56	Sand and Shale
7046	7088	42	Shale
7088	7396	308	Sand and Shale
7396	7436	40	Shale
7436	7472	36	Sand and Shale
7472	7830	358	Shale
7830	7984	134	Sand
7984	7976	12	Shale
7976	8012	36	Sand
8012	8055	44	Shale
8055	8095	39	Shale

GEOLOGIC TOPS

Formation	Sample	Electric Log
Fruitland		3015
Pictured Cliffs	3215	3221
Lewis	3450	3440
Mesaverde Series		4937
Manefee	5270	5265
Point Lookout	5610	5598
Mancos		5717
Tocito	7050	7102
Greenhorn		7608
Dakota	7796	7792
Morrison	8015	8012

DRILL STEM TESTS

DST #1	2932-2976.	45 min., shut in 15 min. GTS 4 min., estimated 150 MCF/day. Recovered 90' all GCDM. FP 70 psi, SIP 880 psi, HP 1430 psi.
DST #2	3095-3160.	Tool plugged.
DST #3	2977-3160.	45 min., shut in 30 min. GTS 3 min., estimated 700-900 MCF/day. No recovery. FP 300 psi, SIP 1570 psi, HP 1300 psi.
DST #4	3220-3335.	83 min., shut in 15 min. Weak to medium blow (air) throughout test. Recovered 50' all GCDM. FP 100 psi, SIP 160 psi, HP 1880 psi.
DST #5	5130-5220.	90 min., shut in 15 min. Strong blow decreasing to weak blow air at end of test. Recovered 4050' DM, no shows. FP 785 -1965 psi, SIP 2110 psi, HP 2245-220 psi.
DST #6	5240-5340.	90 min., shut in 20 min. GTS 10 min., flow 32 MCF/day. Recovered 450' GCDM. FP 115-230 psi, SIP 765 psi, HP 2470-2445 psi.
DST #7	5475-5596.	60 min., shut in 15 min. Strong blow decreasing to medium blow (air) at end of test. Recovered 60' all GCDM. FP 75 psi, SIP 75 psi, HP 2250psi
DST #8	5600-5720.	60 min., shut in 30 min. Strong blow decreasing to weak blow air at end of test. Recovered 100' all GCDM. FP 0, SIP 380 psi, HP 2260 psi.
DST #9	7798-7901.	60 min., shut in 15 min. Medium blow decreasing to weak blow (air) at end of test. Recovered 300' heavily GCDM. FP 300-450 psi, SIP 1000 psi (estimated), HP 3750.
DST #10	7901-7952.	90 min., shut in 30 min. Medium blow decreasing to weak blow (air) at end of test. Recovered 333' heavily GCDM. FP 80-180 psi, SIP 260 psi, HP 3800 psi.
DST #11	8055-8095	55 min., shut in 30 min. GTS 14 min., brackish water to surface 18 min. Flow estimated 10 bbls water/hour. FP 2950-3700 psi, SIP 3700psi, HP 4000 psi

HISTORY OF OIL OR GAS WELL

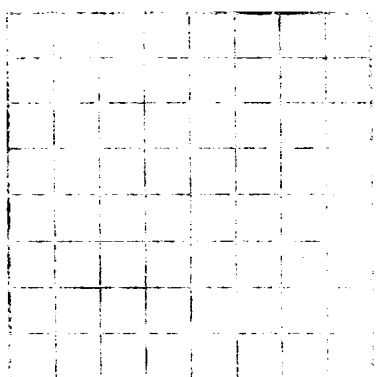
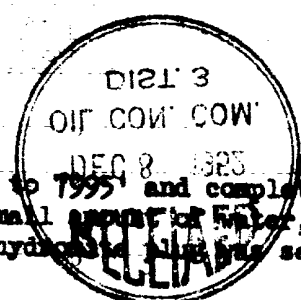
It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "sidetracked" or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

CORE DATA

(See sheets attached hereto)

MISCELLANEOUS

The well was drilled to a total depth of 8101' and plugged back to 7995' and completed in the Dakota sandstone. After shooting and cleaning hole, a small amount of water, approximately 4 gallons per hour, was recovered on bailing. A hydraulic plug was set from 7985' to 7995' and the water ceased to enter the hole.



TOP OF OIL OR GAS AREA

GEOLOGICAL MAP

DEVELOPMENT OF THE FIELD

WELL CIPER

DATE OF LAST INSPECTION

DATE OF LAST TEST

DATE OF LAST REPAIR

5/10/25-1926

1925-70

1925-70 1925-70

1925-70

Blackwood & Nichols Company
Northeast Blanco Unit #1 Well
San Juan County, New Mexico

RECEIVED
NOV 27 1962
GEOLOGICAL SURVEY
WASHINGTON, D. C.

CORE DATA

- Core #1 6990-7039. Recovered 21' blk. shale, bottom 6' sli sandy.
- Core #2 7039-7042. Core jammed in bbl. Recovered 2' blk shale.
- Core #3 7042-7045½. Core jammed in bbl. Recovered 3' blk shale.
- Core #4 7800-7830 Recovered 25-1/2'.
1. shale, gry-blk, platy, sli sandy, micaceous, tr coal
2. sand, gry, vfg, calc, sli silty, scattered mica., dnse
3. shale, blk, micaceous, w/scattered sand lenses, 15% sand
4. sand, gry, vfg, calc, very silty, shale stringers, abdt mica, dnse, tite.
5. same
6. same, 20% blk shale
7. shale and sand in alternating layers, predominately shale
8. shale, blk, sli sandy, calc, micaceous
9. same, w/pearly pelecypod frags
10. same,
11. same
12. same
13. same
14. same, concentric fractures parallel to bedding
15. limestone, buff-brn, dnse, silic, crypto-xln, horizontal fractures
16. shale, blk, sli sandy, micaceous
17. same, concentric fractures parallel to bedding
18. same, no fractures
19. shale and sand in alternating layers, predom. shale
20. shale and sand in alternating lyers, predom. sand
21. sand, gry-wh, fg, hard, dnse, scattered intergranular poro
22. same, sli silty, w/horizontal fractures
23. same, shaley (40%), micaceous
24. shale, blk, micaceous (75%); sand (25%)
25. sand, gry, fg, hard, micaceous, w/abdt pyrite
26. same (60%); shale (40%)
- Core #5 7830-7831 No recovery.
- Core #6 7831-7844. Full recovery.
1. sand, gry-wh, fg, hard horiz. frac, tr fair intergranular poro
2. same, w/thin shale partings, tr fair poro
3. same, no frac, tr fair poro
4. same, sli silty, tr fair poro
5. same
6. same, fair poro
7. same, tr fair poro
8. same
9. same
10. same
11. same, w/thin shale partings

Core Data
Page #2

Blackwood & Nichols Company
Northeast Blanco Unit #1 Well
San Juan County, New Mexico

12. same, tr fair poro
13. same, shale (20%), tr poro

Core #7 7844-7844. Full recovery.

1. sand, gry-wh, fg, hard, tr intergranular poro
2. same, w/scat shale partings and horiz frac
3. same
4. same