Form 9-380

Budget Bureau No. 42-R355.2.
Approval expires 12-31-52.

U. S. Land Office Santa Fe
Serial Number 079060
Lease or Permit to Prospect NE Blanco Unit Agreement No. 1 Sec 929

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOCATE WELL CORRECTLY

LOG OF OIL OR GAS WELL

Company Blackwood & Nichols Company Address P. O. Box 1237, Durango, Colorado
Lessor or Tract Tract 13 Field Blanco State New Mexico
Well No. 13-20 Sec. 20 T. 30N R. 7W Meridian NM Principal County Rio Arriba
Location 2500 ft. {N.} of S Line and 1700 ft. {E.} of W Line of Sec 20 Elevation 6409
(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 [illegible]

Date February 8, 1954 Title Field Superintendent

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

Commenced drilling August 31, 19 53 Finished drilling December 9, 19 53

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3030' to 3420' (G) No. 4, from 5205' to 5515' (G)
No. 2, from 3420' to 3650' (G) No. 5, from 5515' to 5665' (G)
No. 3, from 5095' to 5205' (G) No. 6, from to

IMPORTANT WATER SANDS

No. 1, from to 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 From—	Perforated To—	Purpose
10-3/4"	32.75	8 rd	Nat'l	196'	Guide	None	None		Surface
7"	20 & 23	8 rd	Nat'l	5102'	Float	None	None		Production

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10-3/4"	198'	200	Pump & Plug	Water	Circulated
7"	5112'	500	Pump & Plug	Water	Water

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
3.2	4½"	Nitroglycerine	993 qts	12-7-53	5222-5713	5696'

TOOLS USED

Rotary tools were used from 0' feet to 5713' feet, and from feet to feet
Cable tools were used from feet to feet, and from feet to feet

DATES

Dec. 9, 1953 Put to producing Waiting on connection 19

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 4500 MCF Gallons gasoline per 1,000 cu. ft. of gas None

Rock pressure, lbs. per sq. in. 1050 PSI

EMPLOYEES

, Driller , Driller
, Driller , Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0'	1100'	1100	San Jose
1100'	2305'	1205	Animas
2305'	2450'	145	Alamo Sandstone
2450'	3030'	580	Kirtland
3030'	3420'	390	Fruitland
3420'	3650'	230	Pictured Cliffs
3650'	5095'	1445	Lewis Shale
5095'	5205'	110	Cliffhouse
5205'	5515'	310	Menefee
5515'	5665'	150	Point Lookout
5665'	5713'	48	Mancos Shale

FOLD MARK

FROM—	TO—	TOTAL FEET	FORMATION

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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.