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

Form 9-330

U. S. Land Office Santa Fe
Serial Number I-149-Ind.-7850
Lease or Permit to Prospect
Navajo Indian Tribal Lands

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company Southern Union Gas Company Address Burt Bldg., Dallas 1, Texas

Lessor or Tract Texas Navajo Field Wildcat State New Mexico

Well No. 1-A Sec. 36 T. 32N R. 18W Meridian N.M.P.M. County San Juan

Location 660 ft. {N.} of S Line and 660 ft. {E.} of W Line of Section 36 Elevation 5375
(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 Van Thompson
Van Thompson
Title Manager Exploration Dept.

Date March 4, 1953

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

Commenced drilling December 12, 1952 Finished drilling February 25, 1953

GAS SANDS OR ZONES

(*Denote gas by G*)

No. 1, from 7604 to 7628 No. 4, from ____ to ____

No. 2, from ____ to ____ No. 5, from ____ to ____

No. 3, from ____ to ____ 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
13-3/8"	54.4#		J-55	206.45					Production
9-5/8"	36#		J-55	2426.10					Intermediate
7"	23#		N-80	2612.64					Production
7"	23#		J-55	5611.63			7604	7628	"
2-1/2	6.5	Tubing	7695.6	Landed at 7632'					

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
13 3/8	203'	165	Halliburton		
9-5/8	2420'	650	"		
7"	8115	400	"		

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
		None				

TOOLS USED

Rotary tools were used from 0 feet to 8150 feet, and from ____ feet to ____ feet

Cable tools were used from ____ feet to ____ feet, and from ____ feet to ____ feet

DATES

February 27, 1953, 19__ Put to producing ____, 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 13,900 MCF/ thru 2½" tubing Gallons gasoline per 1,000 cu. ft. of gas ____

Rock pressure, lbs. per sq. in. 2992#

EMPLOYEES

Fleeger-Riley Drilling Co./Contractor, Driller M. B. Grosley, Driller

____, Driller ____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	344	344	Shale
344	680	336	Sand and shale
680	755	75	Sand and shells
755	910	155	Shale
910	1120	210	Sand and shells
1120	1580	460	Shale
1580	1651	71	Shale with sand streaks
1651	1778	127	Sand and shale
1778	1901	123	Sand
1901	1953	42	Sand and shale
1953	1967	14	Shale
1967	2238	271	Sand and shale
2238	2488	250	Redbed, shale and sand
2488	2607	119	Redbed and sand
2607	2961	354	Sand
2961	3063	102	Sand, shale and redbed
3063	3384	321	Sand
3384	3521	137	Sand, shale streaks
3521	3593	72	Shale, Redbed with lime streaks
5393	3622	29	Redbed
3622	3675	53	Sand and shale
3675	3754	79	Redbed, shale and lime streaks
3754	3810	56	Redbed, sand and shale
3810	3944	134	Redbed and sand
3944	4005	61	Redbed, sand with shale streaks
4005	4122	117	Redbed and shale

(over)

16—43094-2

FOLD MARK

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION
4122	4363	241	Redbed & lime shells
4363	4531	168	Redbed and shale
4531	4560	29	Redbed, shale with lime streaks
4560	4645	85	Redbed with lime shells
4645	4692	47	Redbed with lime shells
4692	5148	456	Sand, shale and redbed
5148	5206	58	Redbed and shale
5206	5316	110	Sand, shale and redbed
5316	5427	111	Redbed and shale
5427	6244	817	Redbed, shale with lime streaks
6244	7507	1263	Lime and shale
7507	7657	150	Lime and dolomite
7657	7675	18	Lime, shale and dolomite
7675	7935	260	Lime
7935	7981	46	Lime and shale
7981	8030	49	Lime
8030	8078	48	Lime and shale
8078	8114	36	Lime
8114	8150 T.D.	36	Lime and shale

Geological Tops

Todito	822'
Dakota	1420
Morrison	1640
Keyenta	3120
Wingate	3200
Chinle	3300
Shinarump	4300
Cutler	4620
Hermosa	6070
Paradox	7040
Molas	8005

For coring and drill stem results, see attached

HISTORY OF OIL OR GAS WELL

16—43024-1 U. S. GOVERNMENT PRINTING OFFICE

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.