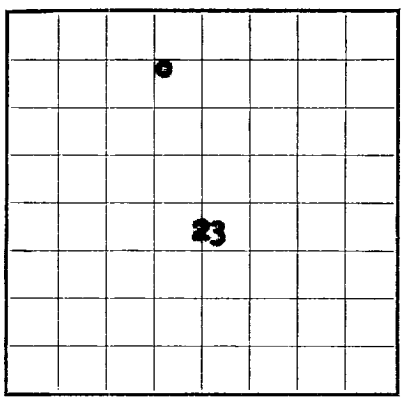
Budget Bureau No. 42-R355.4.
Approval expires 12-31-60.

Form 9-330

U. S. LAND OFFICE Ute Mountain Tribal
SERIAL NUMBER Contract No. 14-20-604-123
LEASE OR PERMIT TO PROSPECT



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Southern Union Gas Company Address 1001 Burt Bldg., Dallas, Texas
Lessor or Tract Ute Indian Field Verde Gallup State New Mexico
Well No. 3-23 Sec. 23 T. 31N R. 15W Meridian N.M.P.M. County San Juan
Location 790 ft. {N./S.} of N Line and 2045 ft. {E./W.} of W Line of Section 23 Elevation 5816
(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 L. S. Mussmink
Date September 11, 1958 Title Exploration Engineer

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

Commenced drilling 7-16-, 19 58 Finished drilling 8-25-, 19 58

OIL OR GAS SANDS OR ZONES

(*Denote gas by G*)

No. 1, from 2544 to 2685 (O) 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	48#	8RD	H-40	66'					Surface Production
5-1/2	15.5#	8RD	J-55	2734'					

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
13-3/8	66' GL	60	Halliburton		
5-1/2	2724' KB	115	Halliburton		
2-3/8	2674'				

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
Perf. 2544-2685 - fraced with 25,000 gals. oil, 25,000# sand, dropped 350 rubber balls, IR 37.6 BPM.						

TOOLS USED

Rotary tools were used from ____ feet to ____ feet, and from ____ feet to ____ feet
Cable tools were used from -0- feet to 2726' feet, and from ____ feet to ____ feet

DATES

8-31-, 1958 Put to producing ____, 19____

The production for the first 24 hours was Pumped 97.44 barrels of fluid of which 100 % was oil; ____ % emulsion; ____ % water; and ____ % sediment. 1½" pump X 16 SPM 36" stroke

If gas well, cu. ft. per 24 hours ____ Gallons gasoline per 1,000 cu. ft. of gas ____
Gravity, Be. ____
Rock pressure, lbs. per sq. in. ____

EMPLOYEES

Bunson-Martin-Greer Drilling Co, Driller Wayne Reynolds, Driller
Dewey Eager, Driller Jess Hornbuckel, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
-0-	80	80	Sand Rock
80	175	95	Sand & shale
175	240	65	Shale
240	430	190	Sand & shale
430	465	35	Grey shale
465	490	25	Shale
490	505	15	Grey shale
505	530	25	Shale w/sand stks.
530	555	25	Shale - dark
555	567	12	Shale
567	585	18	Sand - Hard
585	600	15	Sand TOP: Gallup 2521
600	620	20	Blue shale
620	635	15	Shale - grey
635	650	25	Shale w/sand
650	665	15	Blue shale
665	685	20	Sand - grey
685	697	12	Sand
697	705	8	Shale - black
705	720	15	Shale - grey
720	750	30	Dark shale
750	795	45	Shale
795	820	25	Sand - white
820	840	20	Grey shale
840	850	10	Shale
850	860	10	Dark shale

(OVER)

16—43094-4

FOLD | MARK

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION
860	868	8	Shale
868	870	2	Sand
870	873	3	White sand
873	885	12	Blue shale
885	900	15	Shale
900	920	20	Blue shale
920	930	10	Shale
930	945	15	Sand
945	970	25	Sandy shale
970	990	20	Sand & shale
990	1010	20	Sandy shale
1010	1035	25	White sand
1035	1105	70	Sand
1105	1115	10	Sandy shale
1115	1165	50	Sand
1165	1190	25	Shale - dark
1190	1200	10	Shale
1200	1207	7	Sandy shale
1207	1220	13	Sand
1220	1235	15	Sand - white
1235	1250	15	Sandy shale
1250	1265	15	Gray shale
1265	1330	65	Shale
1330	1395	45	Blue shale
1395	1550	155	Shale
1550	1590	40	Dark sandy shale
1590	1610	20	Blue shale
1610	1660	50	Shale - black
1660	1700	40	shale
1700	1725	25	Sand - dark
1725	1745	20	Shale - blue
1745	1790	45	Shale
1790	1815	25	Sandy shale - dark
1815	1870	55	Shale
1870	1900	30	Sand
1900	1955	55	Shale
1955	2000	45	Bentonite shale
2000	2015	15	Shale w/sand stks. - black
2015	2040	25	Shale
2040	2060	20	Sand - dark
2060	2140	80	Shale
2140	2190	50	Shale - black
2190	2225	35	Shale w/sand stks.
2225	2250	25	Sandy shale
2250	2280	30	Shale - black
2280	2303	23	Sandy shale
2303	2340	37	Shale - black
2340	2360	20	Shale
2360	2415	55	Shale - black
2415	2425	10	Shale
2425	2435	10	Shale - black
2435	2570	135	Shale
2570	2595	25	Shale - black
2595	2605	10	Shale
2605	2635	30	Shale w/sand
2635	2660	25	Shale - black
2660	2670	10	Shale - grey
2670	2726 TD	56	Shale

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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.