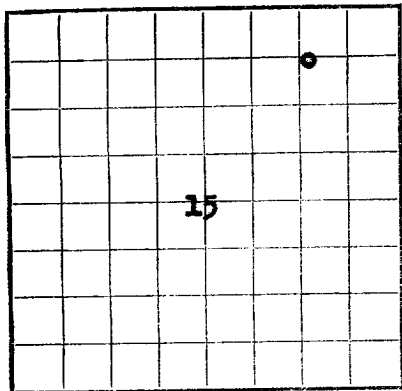
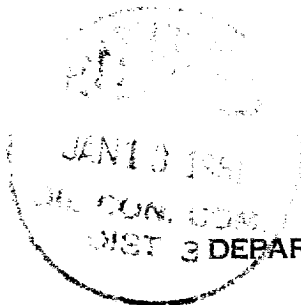


U. S. LAND OFFICE Santa Fe
SERIAL NUMBER SW-044535-B
LEASE OR PERMIT TO PROSPECT _____



LOCATE WELL CORRECTLY



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Southern Union Gas Company Address 1434 Fidelity Union Tower Building
Lessor or Tract Federal Eaton Field Angela Peak Dakota State New Mexico
Well No. 1-15 Sec. 15 T. 28-NR. 11-W Meridian N.M.P.M. County San Juan
Location 1070 ft. NXX of N Line and 879 ft. WXX of E Line of Section 15 Elevation 5514'
(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.
Original Signed By P. J. CLOTE
Signed _____

Date January 10, 1961 Title Mgr., Drilling and Production
Paul J. Clote

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

Commenced drilling November 11, 1960 Finished drilling December 2, 1960

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 6014 to 6024 (G) No. 4, from 6154 to 6162 (G)
No. 2, from 6030 to 6051 (G) No. 5, from 6176 to 6180 (G)
No. 3, from 6092 to 6136 (G) No. 6, from 6184 to 6194 (G)

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		Purpose
							From—	To—	
9-5/8	32.304	8	3-10	260.33					
4-1/2	11.5	8	3-10	605.1					
2-3/8	4.77	8	3-10	3.75					
HISTORY OF OIL OR GAS WELL									

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
9-5/8	250.35	250	Halliburton		
4-1/2	6251	695	Halliburton		

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. 6014-6024', 6030-6051', 6092-6136', 6154-6162', 6176-6180', 6184-6196', spotted w/250 gals mud and acid, Fraced w/100,000' sand and 92,400 gals water. Dropped 275 rubber balls. TD 6255'						

TOOLS USED

Rotary tools were used from 0 feet to 6255' feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

December 3, 1960 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 4,120 MCFD Gallons gasoline per 1,000 cu. ft. of gas _____
Rock pressure, lbs. per sq. in. 2105.4 SIGP - CAOP 4,700 MCFD

EMPLOYEES

Fleeger Drilling Company, Driller Fred Dannaion, Driller
R. L. Lynch, Driller L. E. Burkin, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0-	365	365	Sand
365	1416	1051	Sand and shale
1416	2012	596	Sand
2012	6052	4040	Sand and shale
6052	6111	59	Sand
6111	6153	42	Shale
6153	6209	56	Sand
6209	6255	46	Sand and shale
6255 TD			
			TOPS:
			Pictured Cliffs 1545'
			Cliff House 3098'
			Point Lookout 3905'
			Greenhorn 5912'
			Dakota 6013'

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION
-------	-----	------------	-----------

6255	6252	3	Sand and shale
6253	6250	3	Sand
6251	6248	3	Shale
6249	6246	3	Sand
6247	6244	3	Sand and shale
6245	6242	3	Sand
6243	6240	3	Sand and shale
6241	6238	3	Sand
6239	6236	3	Sand and shale
6237	6234	3	Sand
6235	6232	3	Sand and shale
6233	6230	3	Sand
6231	6228	3	Sand and shale
6229	6226	3	Sand
6227	6224	3	Sand and shale
6225	6222	3	Sand
6223	6220	3	Sand and shale
6221	6218	3	Sand
6219	6216	3	Sand and shale
6217	6214	3	Sand
6215	6212	3	Sand and shale
6213	6210	3	Sand
6211	6208	3	Sand and shale
6209	6206	3	Sand
6207	6204	3	Sand and shale
6205	6202	3	Sand
6203	6200	3	Sand and shale
6201	6198	3	Sand
6199	6196	3	Sand and shale
6197	6194	3	Sand
6195	6192	3	Sand and shale
6193	6190	3	Sand
6191	6188	3	Sand and shale
6189	6186	3	Sand
6187	6184	3	Sand and shale
6185	6182	3	Sand
6183	6180	3	Sand and shale
6181	6178	3	Sand
6179	6176	3	Sand and shale
6177	6174	3	Sand
6175	6172	3	Sand and shale
6173	6170	3	Sand
6171	6168	3	Sand and shale
6169	6166	3	Sand
6167	6164	3	Sand and shale
6165	6162	3	Sand
6163	6160	3	Sand and shale
6161	6158	3	Sand
6159	6156	3	Sand and shale
6157	6154	3	Sand
6155	6152	3	Sand and shale
6153	6150	3	Sand
6151	6148	3	Sand and shale
6149	6146	3	Sand
6147	6144	3	Sand and shale
6145	6142	3	Sand
6143	6140	3	Sand and shale
6141	6138	3	Sand
6139	6136	3	Sand and shale
6137	6134	3	Sand
6135	6132	3	Sand and shale
6133	6130	3	Sand
6131	6128	3	Sand and shale
6129	6126	3	Sand
6127	6124	3	Sand and shale
6125	6122	3	Sand
6123	6120	3	Sand and shale
6121	6118	3	Sand
6119	6116	3	Sand and shale
6117	6114	3	Sand
6115	6112	3	Sand and shale
6113	6110	3	Sand
6111	6108	3	Sand and shale
6109	6106	3	Sand
6107	6104	3	Sand and shale
6105	6102	3	Sand
6103	6100	3	Sand and shale
6101	6098	3	Sand
6099	6096	3	Sand and shale
6097	6094	3	Sand
6095	6092	3	Sand and shale
6093	6090	3	Sand
6091	6088	3	Sand and shale
6089	6086	3	Sand
6087	6084	3	Sand and shale
6085	6082	3	Sand
6083	6080	3	Sand and shale
6081	6078	3	Sand
6079	6076	3	Sand and shale
6077	6074	3	Sand
6075	6072	3	Sand and shale
6073	6070	3	Sand
6071	6068	3	Sand and shale
6069	6066	3	Sand
6067	6064	3	Sand and shale
6065	6062	3	Sand
6063	6060	3	Sand and shale
6061	6058	3	Sand
6059	6056	3	Sand and shale
6057	6054	3	Sand
6055	6052	3	Sand and shale
6053	6050	3	Sand
6051	6048	3	Sand and shale
6049	6046	3	Sand
6047	6044	3	Sand and shale
6045	6042	3	Sand
6043	6040	3	Sand and shale
6041	6038	3	Sand
6039	6036	3	Sand and shale
6037	6034	3	Sand
6035	6032	3	Sand and shale
6033	6030	3	Sand
6031	6028	3	Sand and shale
6029	6026	3	Sand
6027	6024	3	Sand and shale
6025	6022	3	Sand
6023	6020	3	Sand and shale
6021	6018	3	Sand
6019	6016	3	Sand and shale
6017	6014	3	Sand
6015	6012	3	Sand and shale
6013	6010	3	Sand
6011	6008	3	Sand and shale
6009	6006	3	Sand
6007	6004	3	Sand and shale
6005	6002	3	Sand
6003	6000	3	Sand and shale
6001	5998	3	Sand
5999	5996	3	Sand and shale
5997	5994	3	Sand
5995	5992	3	Sand and shale
5993	5990	3	Sand
5991	5988	3	Sand and shale
5989	5986	3	Sand
5987	5984	3	Sand and shale
5985	5982	3	Sand
5983	5980	3	Sand and shale
5981	5978	3	Sand
5979	5976	3	Sand and shale
5977	5974	3	Sand
5975	5972	3	Sand and shale
5973	5970	3	Sand
5971	5968	3	Sand and shale
5969	5966	3	Sand
5967	5964	3	Sand and shale
5965	5962	3	Sand
5963	5960	3	Sand and shale
5961	5958	3	Sand
5959	5956	3	Sand and shale
5957	5954	3	Sand
5955	5952	3	Sand and shale
5953	5950	3	Sand
5951	5948	3	Sand and shale
5949	5946	3	Sand
5947	5944	3	Sand and shale
5945	5942	3	Sand
5943	5940	3	Sand and shale
5941	5938	3	Sand
5939	5936	3	Sand and shale
5937	5934	3	Sand
5935	5932	3	Sand and shale
5933	5930	3	Sand
5931	5928	3	Sand and shale
5929	5926	3	Sand
5927	5924	3	Sand and shale
5925	5922	3	Sand
5923	5920	3	Sand and shale
5921	5918	3	Sand
5919	5916	3	Sand and shale
5917	5914	3	Sand
5915	5912	3	Sand and shale
5913	5910	3	Sand
5911	5908	3	Sand and shale
5909	5906	3	Sand
5907	5904	3	Sand and shale
5905	5902	3	Sand
5903	5900	3	Sand and shale
5901	5898	3	Sand
5899	5896	3	Sand and shale
5897	5894	3	Sand
5895	5892	3	Sand and shale
5893	5890	3	Sand
5891	5888	3	Sand and shale
5889	5886	3	Sand
5887	5884	3	Sand and shale
5885	5882	3	Sand
5883	5880	3	Sand and shale
5881	5878	3	Sand
5879	5876	3	Sand and shale
5877	5874	3	Sand
5875	5872	3	Sand and shale
5873	5870	3	Sand
5871	5868	3	Sand and shale
5869	5866	3	Sand
5867	5864	3	Sand and shale
5865	5862	3	Sand
5863	5860	3	Sand and shale
5861	5858	3	Sand
5859	5856	3	Sand and shale
5857	5854	3	Sand
5855	5852	3	Sand and shale
5853	5850	3	Sand
5851	5848	3	Sand and shale
5849	5846	3	Sand
5847	5844	3	Sand and shale
5845	5842	3	Sand
5843	5840	3	Sand and shale
5841	5838	3	Sand
5839	5836	3	Sand and shale
5837	5834	3	Sand
5835	5832	3	Sand and shale
5833	5830	3	Sand
5831	5828	3	Sand and shale
5829	5826	3	Sand
5827	5824	3	Sand and shale
5825	5822	3	Sand
5823	5820	3	Sand and shale
5821	5818	3	Sand
5819	5816	3	Sand and shale
5817	5814	3	Sand
5815	5812	3	Sand and shale
5813	5810	3	Sand
5811	5808	3	Sand and shale
5809	5806	3	Sand
5807	5804	3	Sand and shale
5805	5802	3	Sand
5803	5800	3	Sand and shale
5801	5798	3	Sand
5799	5796	3	Sand and shale
5797	5794	3	Sand
5795	5792	3	Sand and shale
5793	5790	3	Sand
5791	5788	3	Sand and shale
5789	5786	3	Sand
5787	5784	3	Sand and shale
5785	5782	3	Sand
5783	5780	3	Sand and shale
5781	5778	3	Sand
5779	5776	3	Sand and shale
5777	5774	3	Sand
5775	5772	3	Sand and shale
5773	5770	3	Sand
5771	5768	3	Sand and shale
5769	5766	3	Sand
5767	5764	3	Sand and shale
5765	5762	3	Sand
5763	5760	3	Sand and shale
5761	5758	3	Sand
5759	5756	3	Sand and shale
5757	5754	3	Sand
5755	5752	3	Sand and shale
5753	5750	3	Sand
5751	5748	3	Sand and shale
5749	5746	3	Sand
5747	5744	3	Sand and shale
5745	5742	3	Sand
5743	5740	3	Sand and shale
5741	5738	3	Sand
5739	5736	3	Sand and shale
5737	5734	3	Sand
5735	5732	3	Sand and shale
5733	5730	3	Sand
5731	5728	3	Sand and shale
5729	5726	3	Sand
5727	5724	3	Sand and shale
5725	5722	3	Sand
5723	5720	3	Sand and shale
5721	5718	3	Sand
5719	5716	3	Sand and shale
5717	5714	3	Sand
5715	5712	3	Sand and shale
5713	5710	3	Sand
5711	5708	3	Sand and shale
5709	5706	3	Sand
5707	5704	3	Sand and shale
5705	5702	3	Sand
5703	5700	3	Sand and shale
5701	5698	3	Sand
5699	5696	3	Sand and shale
5697	5694	3	Sand
5695	5692	3	Sand and shale
5693	5690	3	Sand
5691	5688	3	Sand and shale
5689	5686	3	Sand
5687	5684	3	Sand and shale
5685	5682	3	Sand
5683	5680	3	Sand and shale
5681	5678	3	Sand
5679	5676	3	Sand and shale
5677	5674	3	Sand
5675	5672	3	Sand and shale
5673	5670	3	Sand
5671	5668	3	Sand and shale
5669	5666	3	Sand
5667	5664	3	Sand and shale
5665	5662	3	Sand
5663	5660	3	Sand and shale
5661	5658	3	Sand
5659	5656	3	Sand and shale
5657	5654	3	Sand
5655	5652	3	Sand and shale
5653	5650	3	Sand
5651	5648	3	Sand and shale
5649	5646	3	Sand
5647	5644	3	Sand and shale
5645	5642	3	Sand
5643	5640	3	Sand and shale
5641	5638	3	Sand
5639	5636	3	Sand and shale
5637	5634	3	Sand
5635	5632	3	Sand and shale
5633	5630	3	Sand
5631	5628	3	Sand and shale
5629	5626	3	Sand
5627	5624	3	Sand and shale
5625	5622	3	Sand
5623	5620	3	Sand and shale
5621	5618	3	Sand
5619	5616	3	Sand and shale
5617	5614	3	Sand
5615	5612	3	Sand and shale
5613	5610	3	Sand
5611	5608	3	Sand and shale
5609	5606	3	Sand
5607	5604	3	Sand and shale
5605	5602	3	Sand
5603	5600	3	Sand and shale
5601	5598	3	Sand
5599	5596	3	Sand and shale
5597	5594	3	Sand
5595	5592	3	S