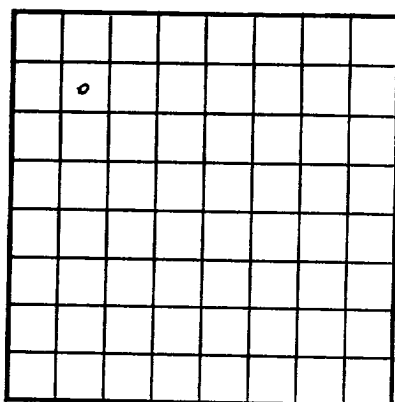
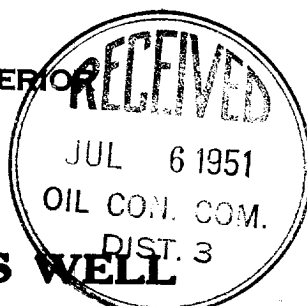




LOCATE WELL CORRECTLY

U. S. LAND OFFICE SANTA FE
SERIAL NUMBER 078115
LEASE OR PERMIT TO PROSPECT _____UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Astco Oil & Gas Company Address 1104 Burt Building - Dallas, Texas
Lessor or Tract Grenier Field La Plata State New Mexico
Well No. 4 Sec. 7 T. 31-N R. 11-W Meridian N.M.P.M. County San Juan
Location 990 ft. N of N Line and 990 ft. E of W Line of Section 7 Elevation 6308' DP
(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.

Date July 3, 1951Signed E. H. Newman
Title Engineer

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

Commenced drilling April 11, 19 51 Finished drilling May 27, 19 51

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from _____ to _____ 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		Purpose
							From—	To—	
10-3/4				154'					Surface
8-1/2				5055'					Production
5-1/2				5055'					Production

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10-3/4	154'	75	Halliburton		
5-1/2	5055'	250	"		

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
		Nitroglycerine	780 qts.	5/28	5096-5408	5408'

TOOLS USED

Rotary tools were used from 0 feet to 5055' feet, and from _____ feet to _____ feet
Cable tools were used from 5055 feet to 5408' feet, and from _____ feet to _____ feet

DATES

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 5150 MCF Gallons gasoline per 1,000 cu. ft. of gas _____Rock pressure, lbs. per sq. in. 1060#McConnell Drilling Company _____, Driller
Southern Union Gas Company _____, Driller
for Cable _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	40	40	Shale
40	161	121	Sand & Shale
161	668	507	Shale
668	1088	420	Shale & Shells
1088	1456	368	Sandy Shale
1456	1776	320	Sand & Shale
1776	2103	327	Shale
2103	2454	351	Sand & Shale
2454	2493	39	Shale
2493	2720	227	Sand & Shale
2720	2865	145	Shale, Sand & Coal
2865	3087	222	Sandy Shale—Top Pictured Cliffs 2900' (✓3408)
3087	3140	53	Shale & Sand—Top Lewis 2968' (✓3340)
3140	3260	120	Shale
3260	3430	170	Shale & Sand
3430	3542	112	Hard Sand
3542	3735	193	Sand & Shale
3735	3870	135	Shale
3870	4006	136	Sand & Shale
4006	4065	59	Shale & Sand Streaks
4065	4115	50	Sand & Shale
4115	4130	15	Shale
4130	4208	78	Shale & Sand Streaks
4208	4225	17	Hard Sand

FORMATION RECORD—Continued

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

[illegible]

LOCATE WITH CORRECTION

Commenced drilling _____ 19 _____
 Title _____
 This summary on this page is for the completion of the well at above date.
 signed _____

(3) and (4) are also shown.

IMPORTANT WATER SANDS

CABING RECORD

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of retiling, 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 "mudded", 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.

16-48094-1 U. S. GOVERNMENT PRINTING OFFICE

FROM-	TO-	TOTAL FEET	FORMATION
4225	4270	45	Sand & Shale
4270	4325	55	Shale, & Sand streaks
4325	4398	73	Sand & Shale
4398	4443	45	Hard Sand
4443	4473	30	Hard Sand & Shale - Top Clitterhouse 4450' (f 18
4473	4511	38	Shale & Sand streaks
4511	4548	37	Shale
4548	4575	27	Hard Sand
4575	4640	65	Sand
4640	4690	10	Hard Sand
4690	4698	39	Hard Sand & Shale
4698	4698	9	Sand
4698	4714	16	Hard Sand - Top Mottles 4700' (f 1508)
4714	4733	19	Hard Sand & Shale
4733	4760	27	Sand
4760	4843	83	Sand & Shale
4843	4870	27	Sandy Shale
4870	5055	185	Sand & Shale
5055	5085	30	Sand
5085	5105	20	Shale
5105	5275	170	Sand - Top Point Lookout 5178' (f 1130)
5275	5285	10	Sand & Shale
5285	5306	21	Sand
5306	5408	102	Sand & Shale

Changed to Gable Tools

EMPLOYEES

Driller

Driller

DATES

From to producing

Barrels of fluid of which

% was oil

Gravity, °Bé.

Gasoline per 1,000 cu. ft. of gas

Look pressure, lbs. per sq. in.

It gas well, in ft. per 24 hours

% water, and % sediment.

The production for the first 24 hours was

TOOLS USED

feet to

feet, and from

feet to

feet, and from

feet to

feet, and from

SHOOTING RECORD

Depth of shot

Quantity

Date

Depth cleared out

PLUGS AND ADAPTERS

Size

Location

MUDDING AND CEMENTING RECORD

Method used

Kind of cement

Amount of mud used