

LOCATE WELL CORRECTLY

U. S. LAND OFFICE **Jicarilla Apache**
SERIAL NUMBER **Tribe of Indians**
LEASE OR PERMIT TO PROSPECT **Contract No. 150**

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 Jicarilla Field Tupasito P. C. State New Mexico
 Well No. 2-G Sec. 1 T. 26N R. 5W Meridian N.M.P.M. County Rio Arriba
 Location 1550 ft. N. of N Line and 955 ft. E. of E Line of Section 1 Elevation 7388
(Describe location in detail)

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 January 13, 1958

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

Commenced drilling 10-17- 19 58 Finished drilling 10-28- 19 58

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

No. 1, from 4144 to 4205 (G) 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. 2, from _____ to _____

No. 3, from _____ to _____

No. 4, from _____ to _____

CASING RECORD

[illegible]

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
9-5/8	204' KB	150	Halliburton		
5-1/2	4256' KB	150	Halliburton		
2-3/8	4203'				

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
Parr.	4144-4205	- fraced with 99,872 gals. water,	100,000% sand			and 300 rubber balls.

TOOLS USED

Rotary tools were used from 0 feet to 1260 feet, and from _____ feet to _____ feet.

Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet.

DATES

12-2, 19 57 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 20,005 MCF Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. 10184/13 0.71

EMPLOYEES

Fletcher Drilling, Inc.	Driller	J. M. Murphy	Driller
H. C. Anderson	Driller	W. E. Tague	Driller

FORMATION RECORD

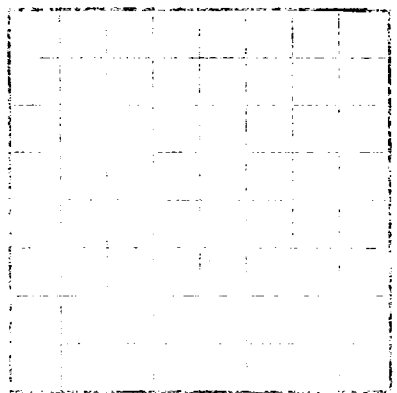
FROM-	TO-	TOTAL FEET	FORMATION
-0-	200	200	Shale & sand
200	230	30	Shale
230	510	380	Sandy shale
510	1440	920	Sand & shale
1440	1778	338	Sandy shale
1778	2650	882	Sand & shale
2650	2882	232	Sandy shale
2882	3399	517	Sand & shale
3399	3501	102	Shale
3501	3984	483	Sand & shale
3984	4062	72	Sand & shale - coal streaks
4062	4150	88	Sandy shale
4150	4260 TD	110	Sand & shale
TOPS: Pictured Cliffs 4104			

[OVER]

16-43094-4

FOURTEEN - UNCLASSIFIED - CONFIDENTIAL

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Forming a new business and a new business plan. The new business plan is a document that outlines the business's goals, objectives, and strategies. It is a key document for the business and is used to guide the business's operations. The new business plan is a document that outlines the business's goals, objectives, and strategies. It is a key document for the business and is used to guide the business's operations.

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED EXCEPT WHERE SHOWN OTHERWISE

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01/24/2012

Figure 1 consists of two line graphs. The left graph plots 'Growth rate (log CFU/h)' on the y-axis (0 to 10) against 'Temperature (°C)' on the x-axis (20 to 45). It shows two data series: a control (open circles) and a mutant (filled circles). Both series show a peak in growth rate around 37°C, with the control reaching a higher peak (approx. 9.5) than the mutant (approx. 8.5). The right graph plots 'Growth rate (log CFU/h)' on the y-axis (0 to 10) against 'Temperature (°C)' on the x-axis (20 to 45). It shows two data series: a control (open circles) and a mutant (filled circles). Both series show a peak in growth rate around 37°C, with the control reaching a higher peak (approx. 9.5) than the mutant (approx. 8.5).

$$\frac{1}{n} \sum_{i=1}^n \left(\frac{\partial}{\partial \theta} \log f(\mathbf{x}_i; \theta) \right)^T = 0$$

Figure 1. The effect of the concentration of the *Agrobacterium* suspension on the transformation efficiency of *Agrobacterium* strains.

14-00000

Figure 1

Figure 1. The effect of the concentration of the *Agaricus bisporus* spores on the growth of *Agaricus bisporus* on the substrate.

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 "detached" 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.

HISTORY OF OIL OR GAS WELL

16-48094-2 U. S. GOVERNMENT PRINTING OFFICE

FROM	TO	TOTAL FEET	FORMATION
0-10	10-20	10	SANDSTONE
10-20	20-30	10	SANDSTONE
20-30	30-40	10	SANDSTONE
30-40	40-50	10	SANDSTONE
40-50	50-60	10	SANDSTONE
50-60	60-70	10	SANDSTONE
60-70	70-80	10	SANDSTONE
70-80	80-90	10	SANDSTONE
80-90	90-100	10	SANDSTONE
90-100	100-110	10	SANDSTONE
100-110	110-120	10	SANDSTONE
110-120	120-130	10	SANDSTONE
120-130	130-140	10	SANDSTONE
130-140	140-150	10	SANDSTONE
140-150	150-160	10	SANDSTONE
150-160	160-170	10	SANDSTONE
160-170	170-180	10	SANDSTONE
170-180	180-190	10	SANDSTONE
180-190	190-200	10	SANDSTONE
190-200	200-210	10	SANDSTONE
200-210	210-220	10	SANDSTONE
210-220	220-230	10	SANDSTONE
220-230	230-240	10	SANDSTONE
230-240	240-250	10	SANDSTONE
240-250	250-260	10	SANDSTONE
250-260	260-270	10	SANDSTONE
260-270	270-280	10	SANDSTONE
270-280	280-290	10	SANDSTONE
280-290	290-300	10	SANDSTONE
290-300	300-310	10	SANDSTONE
300-310	310-320	10	SANDSTONE
310-320	320-330	10	SANDSTONE
320-330	330-340	10	SANDSTONE
330-340	340-350	10	SANDSTONE
340-350	350-360	10	SANDSTONE
350-360	360-370	10	SANDSTONE
360-370	370-380	10	SANDSTONE
370-380	380-390	10	SANDSTONE
380-390	390-400	10	SANDSTONE
390-400	400-410	10	SANDSTONE
400-410	410-420	10	SANDSTONE
410-420	420-430	10	SANDSTONE
420-430	430-440	10	SANDSTONE
430-440	440-450	10	SANDSTONE
440-450	450-460	10	SANDSTONE
450-460	460-470	10	SANDSTONE
460-470	470-480	10	SANDSTONE
470-480	480-490	10	SANDSTONE
480-490	490-500	10	SANDSTONE
490-500	500-510	10	SANDSTONE
500-510	510-520	10	SANDSTONE
510-520	520-530	10	SANDSTONE
520-530	530-540	10	SANDSTONE
530-540	540-550	10	SANDSTONE
540-550	550-560	10	SANDSTONE
550-560	560-570	10	SANDSTONE
560-570	570-580	10	SANDSTONE
570-580	580-590	10	SANDSTONE
580-590	590-600	10	SANDSTONE
590-600	600-610	10	SANDSTONE
600-610	610-620	10	SANDSTONE
610-620	620-630	10	SANDSTONE
620-630	630-640	10	SANDSTONE
630-640	640-650	10	SANDSTONE
640-650	650-660	10	SANDSTONE
650-660	660-670	10	SANDSTONE
660-670	670-680	10	SANDSTONE
670-680	680-690	10	SANDSTONE
680-690	690-700	10	SANDSTONE
690-700	700-710	10	SANDSTONE
700-710	710-720	10	SANDSTONE
710-720	720-730	10	SANDSTONE
720-730	730-740	10	SANDSTONE
730-740	740-750	10	SANDSTONE
740-750	750-760	10	SANDSTONE
750-760	760-770	10	SANDSTONE
760-770	770-780	10	SANDSTONE
770-780	780-790	10	SANDSTONE
780-790	790-800	10	SANDSTONE
790-800	800-810	10	SANDSTONE
800-810	810-820	10	SANDSTONE
810-820	820-830	10	SANDSTONE
820-830	830-840	10	SANDSTONE
830-840	840-850	10	SANDSTONE
840-850	850-860	10	SANDSTONE
850-860	860-870	10	SANDSTONE
860-870	870-880	10	SANDSTONE
870-880	880-890	10	SANDSTONE
880-890	890-900	10	SANDSTONE
890-900	900-910	10	SANDSTONE
900-910	910-920	10	SANDSTONE
910-920	920-930	10	SANDSTONE
920-930	930-940	10	SAND

100