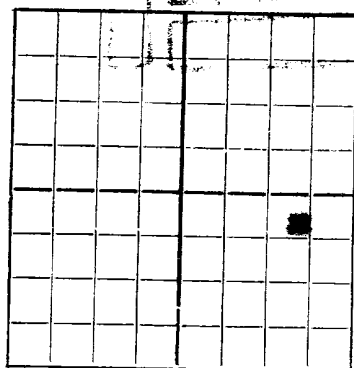


## NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

## WELL RECORD

AREA 640 ACRES  
LOCATE WELL CORRECTLY

Mail to Oil Conservation Commission, Santa Fe, New Mexico, or proper agent not more than twenty days after completion of well. Follow instructions in the Rules and Regulations of the Commission. Indicate questionable data by following it with (?). SUBMIT IN TRIPLICATE.

Well No. \_\_\_\_\_ Company or Operator \_\_\_\_\_ Lease \_\_\_\_\_  
in \_\_\_\_\_ of Sec. \_\_\_\_\_, T. \_\_\_\_\_, R. \_\_\_\_\_, N. M. P. M., \_\_\_\_\_ Field, \_\_\_\_\_ County.  
Well is \_\_\_\_\_ feet \_\_\_\_\_ of the \_\_\_\_\_ line and \_\_\_\_\_ feet west of the East line of \_\_\_\_\_.  
If State land the oil and gas lease is No. \_\_\_\_\_ Assignment No. \_\_\_\_\_  
If patented land the owner is \_\_\_\_\_, Address \_\_\_\_\_  
If Government land the permittee is \_\_\_\_\_, Address \_\_\_\_\_  
The Lessee is \_\_\_\_\_, Address \_\_\_\_\_  
Drilling commenced \_\_\_\_\_ 19\_\_\_\_. Drilling was completed \_\_\_\_\_ 19\_\_\_\_  
Name of drilling contractor \_\_\_\_\_, Address \_\_\_\_\_  
Elevation above sea level at top of casing \_\_\_\_\_ feet.  
The information given is to be kept confidential until \_\_\_\_\_ 19\_\_\_\_

## OIL SANDS OR ZONES

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

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from \_\_\_\_\_ to \_\_\_\_\_ feet.  
No. 2, from \_\_\_\_\_ to \_\_\_\_\_ feet.  
No. 3, from \_\_\_\_\_ to \_\_\_\_\_ feet.  
No. 4, from \_\_\_\_\_ to \_\_\_\_\_ feet.

## CASING RECORD

SIZE	WEIGHT PER FOOT	THREADS PER INCH	MAKE	AMOUNT	KIND OF SHOE	CUT & FILLED FROM	PERFORATED FROM	TO	PURPOSE
11-1/2"	54	12	11-1/2"	100.00	Ball				
7-5/8"	24	12	7-5/8"	100.00	Ball				
5-1/2"	17, 14, 13, 9	12	5-1/2"	100.00	Ball				
4-1/2"	12	12	4-1/2"	100.00	Ball				

## MUDDING AND CEMENTING RECORD

SIZE OF HOLE	SIZE OF CASING	WHERE SET	NO. SACKS OF CEMENT	METHOD USED	MUD GRAVITY	AMOUNT OF MUD USED
11-1/2"	11-1/2"	11-1/2"	350	Ball	10.00	
7-5/8"	7-5/8"	7-5/8"	100	Ball	10.00	
5-1/2"	5-1/2"	5-1/2"	40	Ball	10.00	

## PLUGS AND ADAPTERS

Heaving plug—Material \_\_\_\_\_ Length \_\_\_\_\_ Depth Set \_\_\_\_\_  
Adapters—Material \_\_\_\_\_ Size \_\_\_\_\_

## RECORD OF SHOOTING OR CHEMICAL TREATMENT

SIZE	SHELL USED	EXPLOSIVE OR CHEMICAL USED	QUANTITY	DATE	DEPTH SHOT OR TREATED	DEPTH CLEANED OUT

Results of shooting or chemical treatment \_\_\_\_\_

## RECORD OF DRILL-STEM AND SPECIAL TESTS

If drill-stem or other special tests or deviation surveys were made, submit report on separate sheet and attach hereto.

## TOOLS USED

Rotary tools were used from \_\_\_\_\_ feet to \_\_\_\_\_ feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet.  
Cable tools were used from \_\_\_\_\_ feet to \_\_\_\_\_ feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet.

## PRODUCTION

Put to producing \_\_\_\_\_ 19\_\_\_\_  
The production of the first 24 hours was \_\_\_\_\_ barrels of fluid of which \_\_\_\_\_ % was oil; \_\_\_\_\_ % emulsion; \_\_\_\_\_ % water; and \_\_\_\_\_ % sediment. Gravity, Be \_\_\_\_\_  
If gas well, cu. ft. per 24 hours \_\_\_\_\_ Gallons gasoline per 1,000 cu. ft. of gas \_\_\_\_\_  
Rock pressure, lbs. per sq. in. \_\_\_\_\_

## EMPLOYEES

\_\_\_\_\_, Driller \_\_\_\_\_, Driller  
\_\_\_\_\_, Driller \_\_\_\_\_, Driller

## FORMATION RECORD ON OTHER SIDE

I hereby swear or affirm that the information given herewith is a complete and correct record of the well and all work done on it so far as can be determined from available records.

Subscribed and sworn to before me this \_\_\_\_\_

day of \_\_\_\_\_, 19\_\_\_\_

Notary Public

Expires December 17, 1952

My Commission expires \_\_\_\_\_

Name \_\_\_\_\_

Position \_\_\_\_\_

Representing \_\_\_\_\_ Company or Operator

Address \_\_\_\_\_

1 cc: Mr. J. A. Hunter  
1 cc: Mr. J. A. Hunter  
1 cc: District File

# FORMATION RECORD

FROM	TO	THICKNESS IN FEET	FORMATION
0	307	307	alluvium
307	330	23	red beds
330	1200	870	red beds & red rock
1200	2400	1200	argillite, red
2400	2979	579	argillite, red
2979	3220	241	argillite, blue
3220	3205	15	lime
3205	3180	25	argillite & red
3180	7500 ft. to 4500		lime
	6500 ft. to		

INDIAN OIL & GAS COMPANY Field Winkard Lease New Mexico State 1 Well No. 8

Photo also on file

Coast Plug	25 Jacks	6850-6750
Cement Plug	50 Jacks	7516-7594
Bridging Plug	1"	6850
Bridging Plug	1"	6725
Coast Iron		

Coast Plug, Cement Plug, Bridging Plug, all at Indian Oil Co. well record

DATE	FROM	TO	DEPTH	THICKNESS	SECTION	REMARKS	REMARKS
1-1-52	7525	7545	120		olex	jet	6 shots per foot.
1-2-52	7525	7545	3000	2250	western	156 lb acid flushed tbgs. w/20 bbls. oil.	
1-24-52	7488	7502	84		olex	jet	6 shots per foot.
1-25-52	7488	7502	3000	2800	western	156 lb acid	6 shots per foot.
1-25-52	7488	7502	500	2810	western	and acid	6 shots per foot.
1-27-52	6832	6840	72		olex	jet	6 shots per foot.
1-28-52	6820	6832	1000	2600	western	156 lb acid	6 shots per foot.
1-29-52	6608	6670	372		olex	jet	6 shots per foot.
1-30-52	6608	6670	1000	1700	western	156 lb acid	6 shots per foot.

WELL STILL WORKING

DATE	TIME OF DAY	LOCATION	DEPTH	TO	ASST.	NUMBER	REMARKS	WATER	WELL	WATER	WELL
1-1-52	0. H.	5690	5959	1"	5/8"	90	615	1410	161*		Yes
1-6-52	0. H.	6199	6443	1"	5/8"	60	425	2660	570*		Yes
1-3-52	0. H.	6500	6672	1"	5/8"	-	hole in drill pipe				
1-9-52	0. H.	6500	6693	1"	5/8"	120	505	1340	1470*		Yes
1-12-52	0. H.	6770	7036	1"	5/8"	-	bottom of well. rubber torn				
1-13-52	0. H.	6708	7060	1"	5/8"	160	945	1815	160**		Yes
1-17-52	0. H.	7200	7437	1"	5/8"	60	170	280	525**		Yes
1-19-52	0. H.	7465	7573	1"	5/8"	40	0	0	60		Yes

\*Muddy water - slight gas cut.

\*\* All heavy oil & gas cut.

\*\*\* Filling mud - gas cut.

1. The first part of the paper is devoted to a study of the properties of the function  $f(x)$  defined by the equation

$$f(x) = \sum_{n=0}^{\infty} \frac{a_n}{n!} x^n$$

where  $a_n$  are the coefficients of the power series. It is shown that the function  $f(x)$  is analytic in the whole plane and that it satisfies the differential equation

$$f'(x) = f(x)$$

It is also shown that the function  $f(x)$  is the unique solution of this equation which is analytic in the whole plane. The second part of the paper is devoted to a study of the properties of the function  $g(x)$  defined by the equation

$$g(x) = \sum_{n=0}^{\infty} \frac{b_n}{n!} x^n$$

where  $b_n$  are the coefficients of the power series. It is shown that the function  $g(x)$  is analytic in the whole plane and that it satisfies the differential equation

$$g'(x) = g(x) + 1$$

It is also shown that the function  $g(x)$  is the unique solution of this equation which is analytic in the whole plane. The third part of the paper is devoted to a study of the properties of the function  $h(x)$  defined by the equation

$$h(x) = \sum_{n=0}^{\infty} \frac{c_n}{n!} x^n$$

where  $c_n$  are the coefficients of the power series. It is shown that the function  $h(x)$  is analytic in the whole plane and that it satisfies the differential equation

$$h'(x) = h(x) + x$$

It is also shown that the function  $h(x)$  is the unique solution of this equation which is analytic in the whole plane. The fourth part of the paper is devoted to a study of the properties of the function  $k(x)$  defined by the equation

$$k(x) = \sum_{n=0}^{\infty} \frac{d_n}{n!} x^n$$

where  $d_n$  are the coefficients of the power series. It is shown that the function  $k(x)$  is analytic in the whole plane and that it satisfies the differential equation