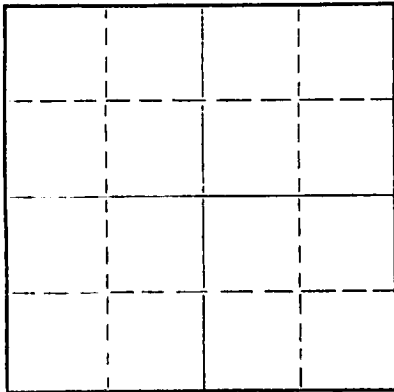


All Information Completely  
Made Required Affidavit  
Made or Deliver Report to:  
Conservation Division  
State Corporation Commission  
211 No. Broadway  
Wichita, Kansas

Ellis County, Sec. 22 Twp. 11S Rge. (E) 17 (W)

NORTH



Locate well correctly on above  
Section Plat

Location as "NE/CNW%SW%" or footage from lines NE SW SE  
Lease Owner Sohio Petroleum Company  
Lease Name Johansen Well No. 4  
Office Address Box 673, Russell, Kansas  
Character of Well (completed as Oil, Gas or Dry Hole) Oil  
Date well completed April 23 19 64  
Application for plugging filed August 31 19 64  
Application for plugging approved September 2 19 64  
Plugging commenced September 10 19 64  
Plugging completed September 15 19 64  
Reason for abandonment of well or producing formation Uneconomical  
If a producing well is abandoned, date of last production May 19 64  
Was permission obtained from the Conservation Division or its agents before plugging was commenced? Yes

Name of Conservation Agent who supervised plugging of this well Eldon Petty  
Producing formation Arbuckle Depth to top \_\_\_\_\_ Bottom \_\_\_\_\_ Total Depth of Well 3,416 Feet  
Show depth and thickness of all water, oil and gas formations.

OIL, GAS OR WATER RECORDS

CASING RECORD

FORMATION	CONTENT	FROM	TO	SIZE	PUT IN	PULLED OUT
Arbuckle				7"	3,414'	2,354'

Describe in detail the manner in which the well was plugged, indicating where the mud fluid was placed and the method or methods used in introducing it into the hole. If cement or other plugs were used, state the character of same and depth placed, from \_\_\_\_\_ feet to \_\_\_\_\_ feet for each plug set.

Dump 5 sacks cement on bottom, top of cement at 3,315'.

Pulled pipe to 450', spotted 30 sacks cement.

Pulled pipe to 250', spotted 30 sacks cement.

Pulled out; bailed to 30'. Dumped 30 sacks cement to base of cellar. Used 37 sacks jel and 75 sacks cement.

09-17-64

(If additional description is necessary, use BACK of this sheet)

Name of Plugging Contractor \_\_\_\_\_  
Address \_\_\_\_\_

STATE OF Kansas, COUNTY OF Russell, ss.  
D. W. Smith (employee of owner) of the above-described well, being first duly sworn on oath, says: That I have knowledge of the facts, statements, and matters herein contained and the log of the above-described well as filed and that the same are true and correct. So help me God.

(Signature) D. W. Smith

(Address)

SUBSCRIBED AND SWORN TO before me this 16th day of September, 19 64

My commission expires September 27, 1967

Juanita Valentine

Notary Public.

Page #1

## WELL SAMPLE RECORD

Location - NE 1/4 Sec. 22, Twp. 11S, Rge. 17W

Farm - Johansen Well No. 4

09-02-64

County - Ellis State - Kansas

Company - Margay Oil Corporation

Samples from 1150 feet to 3413 1/2 feet - Elevation 1948 feet

From	To	Formation and remarks	Examined by Boris Lerke
1150	1200	Drab white anhydrite <u>Lower Anid Group</u>	
1200	1260	Mudstone (red)	
60	80	Ditto, trace of green shale and finely grained dolomitic sand	
80	1310	Drab anhydrite	
1310	30	Various colored shale, some drab anhydrite	
30	50	Ditto, increase in anhydrite to 50 percent	
50	1430	Various colored shale (mostly brown mudstone) <u>WELLINGTON</u>	
1430	1530	Gray anhydritic shale, mostly anhydrite <u>Salt Zone</u>	
1530	1720	Various colored shale with salt casts <u>Wellington Anhydrite</u>	
1720	1810	Drab white massive anhydrite <u>MARION</u>	
1810	1820	Red shale	
20	40	Drab dolomite 50 percent, anhydrite 50 percent	
40	50	Various colored shale <u>Herrington Lime</u>	
1850	1880	Brown drab sucrose cherty dolomite	
80	90	various colored shale, red predominating	
90	1915	Ditto, some brown dolomite <u>Luta-Winfield</u>	
1915	1940	Brown drab sucrose dolomite <u>Boyle Shale</u>	
1940	1970	Various colored shale (mostly red) <u>Fort Riley</u>	
1970	1990	Brown sucrose dolomite 50 percent, various colored shale 50 percent	
90	2010	Brown drab sucrose dolomite	
2010	20	Ditto, some various colored shale	
20	30	Ditto	
30	50	Ditto, dolomite very porous and limy <u>Florence Flint</u>	
50	90	Gray fossiliferous cherty lime <u>Matfield Shale</u>	
90	2110	Red shale	
2110	25	Gray highly fossiliferous lime	
25	30	Red shale	
30	40	Various colored shale (red predominating), some drab fossiliferous lime <u>Wreford</u>	
2140	2170	Gray highly fossiliferous cherty lime	

09-02-64

15-051-05840-0000

		<u>COUNCIL GROVE</u>
2170	2190	Various colored shale, some gray fossiliferous lime
90	2210	Reddish-white dense lime
2210	23	Ditto, lime fossiliferous, some various colored shale
20	30	Red shale
30	40	Ditto, drab fossiliferous lime 70 percent
40	50	Drab fossiliferous lime 50 percent, various colored shale 50 percent
50	60	Ditto, increase in lime to 70 percent
60	70	Ditto
		<u>Cottonwood</u>
2270	2290	Drab highly fossiliferous cherty lime (many Fusulinid)
		<u>Eskridge Shale</u>
2290	2310	Red shale
		<u>Neva</u>
2310	2330	Drab highly colitic lime
90	50	Ditto, various colored shale 50 percent
50	70	Drab fossiliferous partly colitic lime 75 percent, various colored shale 25 percent
70	80	Various colored shale, red predominating
80	90	Ditto, drab fossiliferous colitic lime 50 percent
90	2400	Drab fossiliferous lime
2400	10	Gray drab fossiliferous lime 75 percent, various colored shale 25 percent
10	20	Gray fossiliferous lime 50 percent, various colored shale 50 percent
		<u>Foraker Group</u>
2420	2440	Drab highly fossiliferous lime
40	50	Gray fossiliferous lime 75 percent, various colored shale 25 percent
50	60	Ditto, increase in shale to 50 percent
60	70	Gray fossiliferous highly cherty lime 50 percent, various colored shale 50 percent
70	2500	Ditto, increase in shale to 75 percent
2500	20	Ditto
		<u>Admiral Shale</u>
2520	2540	Various colored shale
40	50	Ditto, trace of micaceous sand
50	60	Gray drab fossiliferous lime
60	70	Various colored shale, gray predominating
70	80	Gray fossiliferous lime 50 percent, various colored shale 50 percent
80	90	Various colored shale, gray predominating
90	2600	Ditto, some micaceous cemented sand 10 percent
2600	2610	Drab fossiliferous lime 25 percent, various colored shale
10	20	Various colored shale (gray predominating), trace sand
20	30	Gray drab fossiliferous lime
30	50	Various colored shale, some micaceous cemented sand 10 percent
50	60	Gray laminated shale, some micaceous sand 10 percent
		<u>Tarkio</u>
2660	2680	Drab white fossiliferous lime
80	90	Ditto, some various colored shale 50 percent
90	2700	Various colored shale 75 percent, micaceous cemented sand 25 percent
		<u>Emporia</u>
2700	2750	Drab fossiliferous lime, some gray shale
50	70	Ditto, increase in shale to 25 percent
70	80	Ditto, increase in shale to 50 percent
80	2800	Various colored shale 75 percent, drab fossiliferous lime 25 percent
		<u>Shannon</u>
2800	2810	Various colored shale, gray predominating

Well - Johansen #4 Cont'd.

10	20	Ditto, gray fossiliferous lime 25 percent
20	40	Ditto, gray drab fossiliferous lime 25 percent, micaceous sand 10 percent
		<u>Topoka Series</u>
2840	2850	Gray drab fossiliferous lime
50	60	Ditto, some gray shale 50 percent
60	70	Ditto
70	80	Gray drab fossiliferous lime (light saturation)
80	2900	Ditto, lime very porous (better saturation)
2900	10	Ditto, (trace oil)
10	20	Drab fossiliferous lime 75 percent, gray shale 25 percent
20	30	Drab fossiliferous partly oolitic lime (possibly carried water)
30	40	Gray drab fossiliferous lime (trace of oil)
40	70	Drab fossiliferous porous lime (light saturation)
70	90	Gray drab fossiliferous lime
90	3000	Drab fossiliferous lime 30 percent, gray shale 50 percent
3000	3010	Drab fossiliferous lime
10	20	Ditto, (trace of oil)
20	40	Ditto
40	60	Ditto, lime porous, (trace of oil)
60	70	Drab fossiliferous lime, some various colored shale
70	80	Drab white fossiliferous porous lime (trace of oil)
80	90	Ditto, (light saturation)
90	3100	Ditto
3100	10	Ditto, light saturation
3110	3120	Various colored shale
20	40	Ditto, some drab white lime 30 percent (trace of oil)
40	50	Various colored shale
		<u>LANSING - KANSAS CITY</u>
3150	3160	Ditto, white fossiliferous lime 50 percent
60	70	White partly oolitic lime
70	90	Ditto, light saturation
90	3210	Ditto, trace of oil
3210	80	White fossiliferous lime
80	3300	Ditto, lime cherty
3300	20	Ditto
20	60	Ditto, lime oolitic (trace of oil)
60	85	Drab white fossiliferous lime
		<u>Defrital Zone</u>
85	90	Red shale
90	3402	Drab fossiliferous lime, some various colored shale
		<u>SIMPSON</u>
3402	3405	Green shale
05	07	White sand, conglomeratic, some green shale (sand barren)
07	3412½	Ditto, sand saturated
		<u>SILICEOUS</u>
3412½	3413½	Brown crystalline dolomite (goos saturation)

09-02-64