

THE PETROLEUM COMPANY OF  
WEIL REED LTD.

Following each string of casing, and using the full width of the sheet, give complete cementing record as follows: Where landed, Amount and kind of cement, kind and list of Additives, Seges or Cementing Caps, Slurry weight per Gal., and WOC Hours.

Well No.	Location	Completion	Perforating & Squeeze Record	Drill Stem Tests	Depth Measurements	Formation Summary	Production Tests and Potential Test, Date	Well No.
W-100-102	Loc. 100-102	Completion 1	Perforating & Squeeze Record	Drill Stem Tests	Depth Measurements	Formation Summary	Production Tests and Potential Test, Date	W-100-102

Section I: Production Tests and Parental Test Data

**Section 1** Surveyor's Instruments  
**Section 2** Surveyor's Measurements  
**Section 3** Depth Measurements  
**Section 4** Drill Stem Tests  
**Section 5** Perforating and Squeeze Record  
**Section 6** Surveyor's Periodic  
**Section 7** Log Book

**Section 7- Care Record**  
**Section 8- Bill Record**  
**Section 9- Acidizing or Other Completion Operation**  
**Section 10- Summary of Operations**  
**Section 11- Formation Record**  
**Section 12- Plugging & Abandonment Record**

## PAGE NO. 1 - PRODUCTION DATA:

WE' RECORD

886

## PAGE ONE Well Completion - Pumping.

Production test completed on May 15, 1952, in the Viola Lime and Simpson Sand formations. La Lime Formation, top - 2183'; bottom 2516'; Simpson Sand formation, top - 2516'; bottom - 2551'. Perforated 5-1/2" casing in Viola Lime formation from 2182' to 2508' w/105 15/32" laterals. Open hole, Simpson Sand formation, from 2517' to 2558'. Well pumped on 2h hour test, rate of 35 barrels oil, 3 barrels water, per day. Pump set at 2552' W/1-1/2" Plunger, tubing, 3 1/4" Rods. 24" stroke, 12 s.p.m. Test after acidizing Viola Lime w/1000 gallons solid, gravity 32.2 @ 60°. Allowable 100%.

## SECTION NO. 2 - FORMATION SUMMARY:

Formation	From	To	Core No.	Ind. Log & Sp. No.	Micro Log Run No.	Latero-Log Gamma-Ray & Sp.	Remarks
Viola	2183'	2516'	1	1	1	1	
La, Simpson Lime & Sand	2516'	2515'	2	1	1	1	
La, Gray to Sands	2515'	2518'	2	1	1	1	
Sands	2518'	2519'	2	1	1	1	
White, Sandy	2519'	2521'	2	1	1	1	
White, Sandy, Gray	2521'	2522'	2	1	1	1	
Green	2522'	2526'	2	1	1	1	
Core	2526'	2538'	2	1	1	1	

## SECTION NO. 3 - DEPTH MEASUREMENTS:

Drillers	Steel Line	Micro Log	Latero-Log Ind.	Perf. Line	Plugs K.S., Surface
2558'	2558'	2558'	2558'	-	2558'
2527'	2527'	2527'	2527'	-	2527'
2558'	2558'	2558'	2558'	-	2558'

## SECTION NO. 5 - PERFORATING RECORD:

Location	From	To	No.	Size	Kind	Tool Set #
Viola	2182'	2508'	105	15/32"	Bullets	2508'

## SECTION NO. 6 - SURVEYS PERFORMED:

Kind	From	To
Schlumberger Micro-Log	1500'	2552'
Schlumberger Latero-Log, Gamma-Ray & Sp.	105'	2551'
Schlumberger Induction Log & Sp.	1500'	2551'

## SECTION NO. 7 - SURVEY DATA:

Depth	Deg. of Vertical
500'	1-1/2°
1000'	1-1/2°
1500'	1°
2000'	1-1/4°

**SECTION NO. 4 - CORE RECORDED:**

No.	From	To	Recovered	Description
1	2485'	2525'	40"	Dolomite, with saturation and staining. Dolomite, with spotted staining. Dolomite, with saturation and staining. Dolomite, Sandy, with spotted staining. Dolomite, Sandy, good stain. Sand with saturation and staining of oil.
	2485'	2505'		
	2505'	2508'		
	2508'	2510'		
	2510'	2525'		
	2515'	2516'		
	2516'	2525'		
2	2525'	2558'	31"	Sand, with saturation and staining of oil. Sand, White to Green W/Spotted staining of oil. Sand, with saturation and staining of oil. Sand, White to Green W/Spotted staining of oil. Siltstone Shale, Brown, Sandy. Shale, Sandy, Gray-Green. Sand, Shaly, Gray to Green. Shale and Sand. Shale, Gray to Green. Dolomite, Sandy. Shale, Sandy, Gray to Green. Sand. Lost Core.
	2525'	2529'		
	2529'	2530'		
	2530'	2536'		
	2536'	2537'		
	2537'	2539'		
	2539'	2540'		
	2540'	2544'		
	2544'	2545'		
	2545'	2548'		
	2548'	2549'		
	2549'	2551'		
	2551'	2552'		
	2552'	2556'		
	2556'	2558'		

**SECTION NO. 8 - BIT RECORDED:**

No. Used	Size	Drag or Rock	From	To	No. Ft. Drld.
1	7-7/8"	Rock	105'	720'	615'
2	"	"	"	1593'	873'
3	"	"	"	1905'	312'
4	"	"	"	2222'	317'
5	"	"	"	2525'	303'
6	"	"	2525'	2558'	33'

**SECTION NO. 9 - ACIDIZING AND OTHER COMPLETION OPERATIONS:**

Strato-Frac - Simpson Sand Formation - 5-8-52.

Ran 2" U.B. tubing W/Baker Packer set at 2494'. Pumped in 18 barrels oil; pressure up to 1300#, broke down to 900#. Pumping at rate of 4 barrels per minute. Pumped in 1500 gallons of Dowell K-500 with 3 1/2# sand per gallon (1125# sand), pressure 1200#, broke down to 900#. Pumped at rate of 2-1/4 barrels per minute. Flushed with 36 barrels oil; pressure dropped off to vacuum in 1-3/4 minutes after pump shut down. 24 hour balling test in Simpson Sand Formation after Strato-Frac, made 24 bbls. oil, 5 bbls. water. Bailed 36 barrels liquid oil back.

Acidized - Viola Limestone Formation - 5-8-52.

Acidized Viola Limestone Formation from 2482' to 2508' thru 105 - 15 3/32" perforations with 1,000 gallons 15% acid with surface tension reducing agent added, 53 barrels water load, under vacuum. 10 hour balling test made 24 gallons fluid per hour, 50% water.

**SECTION NO. 10 - SUMMARY OF OPERATIONS:**

## 1. Drilling and Exploratory Operations Performed;

- 4-25-52 Core No. 1
- 4-26-52 Core No. 2
- 4-26-52 Schlumberger Induction and Sp. Log No. 1
- 4-26-52 Schlumberger Lataro-Log - Gamma-Ray and Sp. Log No. 1
- 4-26-52-4-27-52 Schlumberger Micro-Log No. 1

## Completion Operations Performed:

4-29-52 - 5-10-52, incl.  
 Moved in Cable Tools. Rigged up, bailed hole, drilled out plug, cement to 2517'.  
 and cleaned out to bottom at 2558'. Washed hole with 100 gallons acid. 2½ hour bailing test  
 made 90 gallons oil, 30 gallons water. Strato-Fractured Simpson Sand Formation as follows: Ran 2"×  
 tubing with Baker Packer set at 2194'. Pumped in 18 barrels oil, under 1300# pressure, broke down  
 to 900#. Pumped in 1500 gallons Dowell X-500 with 3½#  
 sand per gallon (1125# Sand), under 1200# pressure, broke down to 900#. Pumped at rate of 2-1/4  
 barrels per minute. Plugged with 36 barrels oil, pressure dropped off to vacuum in 1-3/4 minutes.  
 2½ hour bailing test made 24 barrels oil, 5 barrels water. Set Lane Well.  
 5-1/2" bridge plug at 2512', perforated 5-1/2" casing from 2482' to 2508' with 105 - 15/32" bulletts.  
 2½ hour bailing test in Viola Lime Formation after perforating made 11 barrels oil. Acidized  
 Viola Lime Formation from 2482' to 2508' with 1000 gallons 15% acid with surface tension reducing  
 agent added and 53 barrels load water, under vacuum, thru 105 - 15/32" perforations. 10 hour  
 bailing test made 24 gallons fluid per hour, 50% water. Bailed back load water, drilled out  
 and cleaned out to bottom. Ran tubing and rods.

## SECTION NO. 11 - FORMATION RECORD:

Formation	Surface Hole	To	Remarks
Shale and Lime Shales and Shale streaks	0'	105'	
Shale and Lime Shales and Shale streaks	105'	115'	
Shale and Lime Shales and Shale streaks	115'	110'	
Shale, Cherty	110'	525'	
Shale and Chert	525'	565'	
Shale, Lime streaks	565'	660'	
Shale, Lime streaks	660'	880'	
Shale, Lime streaks	880'	1145'	
Shale, Lime streaks	1145'	1150'	
Shale, Lime streaks	1150'	1590'	
Shale, Lime streaks	1590'	1650'	
Shale, Lime streaks	1650'	1850'	
Shale, Lime streaks	1850'	1930'	
Shale, Lime streaks	1930'	1985'	
Shale, Lime streaks	1985'	2170'	
Shale, Lime streaks	2170'	2290'	
Shale, Lime streaks	2290'	2485'	Top of Viola Lime @ 2483'.
Calcareous dolomite, W/saturation and staining	2485'	2505'	Core No. 1 from 2485' to 2525'.
Calcareous dolomite, W/spotted staining	2505'	2508'	
Calcareous dolomite, W/saturation and staining	2508'	2510'	
Calcareous dolomite, Sandy W/spotted staining	2510'	2515'	
Calcareous dolomite, Sandy, good stain	2515'	2516'	Top of Simpson Sand @ 2516'.
Calcareous dolomite, W/saturation and staining of oil	2516'	2525'	
Calcareous dolomite, W/saturation and staining of oil	2525'	2529'	Core No. 2 from 2525' to 2558'.
Calcareous dolomite, W/saturation and staining of oil	2529'	2530'	
Calcareous dolomite, W/saturation and staining of oil	2530'	2536'	
Calcareous dolomite, Brown, Sandy	2536'	2537'	
Calcareous dolomite, Sandy Gray, Green	2537'	2539'	
Calcareous dolomite, Shaly, Gray to Green	2539'	2540'	
Calcareous dolomite, Shaly and Sand	2540'	2544'	
Calcareous dolomite, Gray to Green	2544'	2545'	
Calcareous dolomite, Sandy	2545'	2548'	
Calcareous dolomite, Gray to Green	2548'	2549'	
Calcareous dolomite, Sandy, Gray to Green	2549'	2551'	
Calcareous dolomite, Sandy	2551'	2552'	
Calcareous dolomite, Sandy	2552'	2556'	
Calcareous dolomite, Sandy	2556'	2558'	
Calcareous dolomite, Sandy	2558'		
			Bottom Depth

## CORE DESCRIPTION

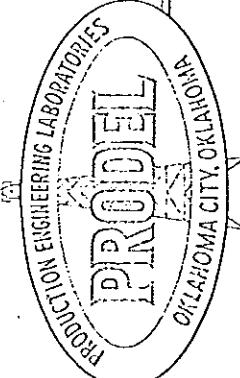
Magnolia #93 M. A. Koogler  
NE SW NW Section 21-26S-5E

By Owen E. Homeister

## Core #1 2485-2525, full recovery

## Core #2, 2525-60, rec. 31'

- 22485-86, dolo., f. sucrose, sat. stn.  
86-87, same w/some white chert  
87-88, dolo. f. sucrose, sat. stn.  
88-89, same  
89-90, as above w/consid. white cx., (50%),  
sat. stn.  
90-91, dolo. as above, some grn argill. mat.  
& cx.  
91-92, dolo., few small vugs.  
92-93, cx., wht, tr. dolo & stn.  
93-94, dolo., f. suc., sat. stn, some cx.  
94-95, dolo., f. suc., sat. stn, consid.  
cx. (50%)  
95-96, dolo., f. suc., sat. stn, some cx.  
96-97, same  
97-98, same w/few small vugs.  
98-99, same  
99-2500, same w/inc. vug. poros.  
2500-01, same  
01-02, same w/ex. vug. por.  
02-03, same  
03-04, same  
04-05, same  
05-06, dolo., f. suc., vug. por. w/sp. stn  
06-07, same  
07-08, dolo., f. sucrose, sp. stn, some cx (10%)  
08-09, dolo, f. to v. large, v. ex. vug. poros.  
w/sat. stn.  
09-10, dolo., dense, f. xlyn, no stn, few  
sand grns, ss. m. gran, sat. stn.  
10-11, sandy dolo., sp. stn.  
11-12, same  
12-13, same  
13-14, same w/inc. stn.  
14-15, same  
15-16, dolo. ss. good stn.  
16-17, ss., sat. stn oil  
17-18, same  
18-19, ss. some dolo. cem., sat. stn  
19-20, same  
20-21, same  
21-22, ss. w/sat. stn  
22-23, same  
23-24, same  
24-25, same
- 2525-26, ss., f. to m. gran w/sat stn oil.,  
grains rounded to subang., friable.  
26-27, same  
27-28, same  
28-29, same  
29-30, ss., wht to grn, argill., w/sp. stn  
oil.  
30-31, ss., med. gran w/sat. stn oil.  
31-32, ss., f. gran w/sp. sat. stn oil  
32-33, same  
33-34, ss., f. to m. gran w/sat. stn oil,  
friable.  
34-35, same  
35-36, same  
36-37, ss., wh. to grn, argill., w/sp. stn oil.  
37-38, siltstone, glauc. no stn.  
38-39, same w/some pyrite  
39-40, sandy brn ls. w/glauc. & some sh.  
pebbles, Conglomeritic.  
40-41, sandy grn-waxy shale.  
41-42, sh., grn to grn w/abundant red disc  
shaped hematite nuds.  
42-43, sh., grn-grn w/abund. yellow to brn  
hem. nuds.  
43-44, same  
44-45, ss., grn to grn, argill. shaley  
45-46, shale & sand  
46-47, same  
47-48, same  
48-49, sh., grn to grn-grn w/phos. pebbles  
49-50, sandy dolo., f. xlyn, v. dense  
50-51, dolo., grn, f. xlyn w/few scattered  
sand grains.  
51-52, sandy grn to grn-grn sh.  
52-53, ss., f. to m. gran. argill.  
53-54, sand, w. some grn sh.  
54-55, same  
55-56, same
- Assumed last 4' lost.



*Production Engineering Laboratories*

265 BRANCH AVENUE, OKLAHOMA CITY, OKLAHOMA

A. A. ARMSTRONG, Jr.  
ARD M. EDINGER

May 14, 1952

File: 03-2750

To: Core Analysis  
Magnolia Petroleum Company  
M. A. Koogler #95  
El Dorado Field  
Butler County, Kansas

Magnolia Petroleum Company  
917 First National Building  
Wichita, Kansas

Attention: J. R. Fuellott

Gentlemen:

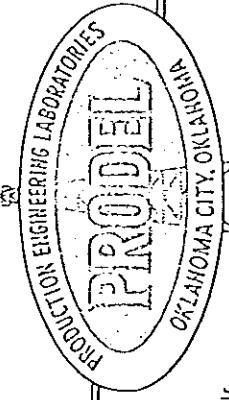
The Simpson sand is oil productive where permeable, from 2814 to 2836 feet. This section is summarized at the base of the coregraph with unit recoveries given.

Very truly yours,

PRODUCTION ENGINEERING LABORATORIES, INC.

*Edward M. Edinger (ea)*  
Edward M. Edinger

RECD:dc



# Production Engineering Laboratories

209 N. W. 4th St. May 13, 1952  
OKLAHOMA CITY, OKLAHOMA

A. ARMSTRONG, Jr.  
W. M. EDINGER

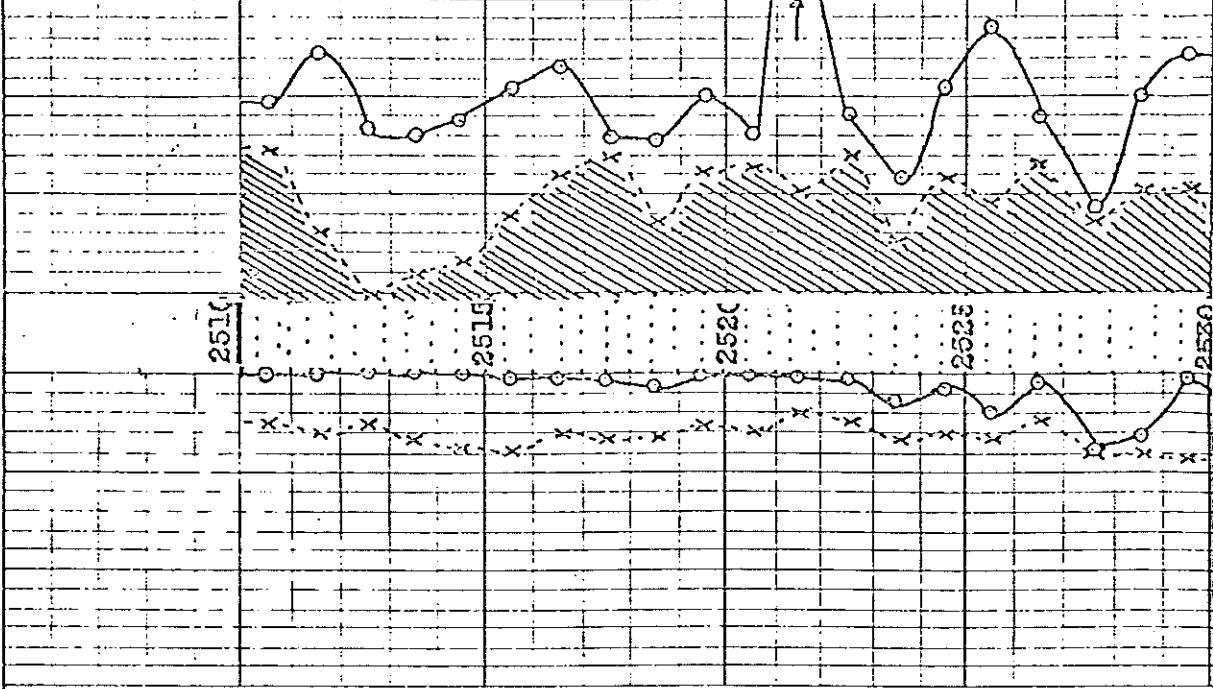
## CORE ANALYSIS REPORT

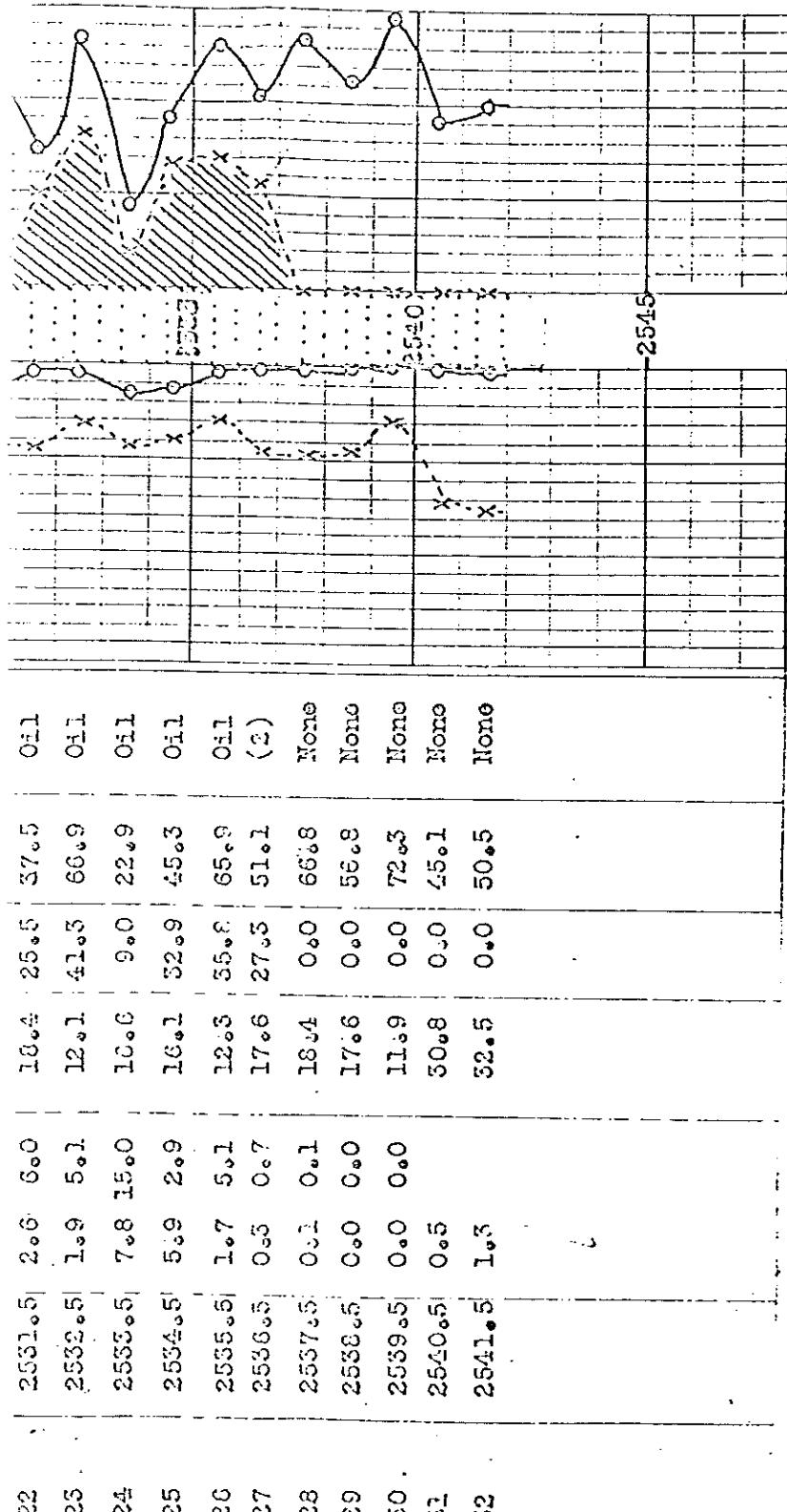
Company...Magnolia Petroleum Company..... Location..... Scc..... Twp..... File..... File OC-2750  
Well..... Me. A, Koogler #93 Elevation..... Remarks.....

El. Dorado

Engineers..... Prodal

Sample number	Depth Feet	Permeability Millidarcys	Porosity Percent	Residual Saturation		Probable Production	Permeability 2.5	Water saturation 0
				Oil	Water			
1	2510.5	0.0	0.0	10.4	36.5	48.1	None	None
2	2511.5	0.0	0.0	12.1	15.7	61.9	None	None
3	2512.5	0.0	0.0	10.7	0.0	42.1	None	None
4	2513.5	0.0	0.0	13.5	4.4	40.0	None	None
5	2514.5	0.5	0.3	14.8	8.1	43.9	Oil	Oil
6	2515.5	1.0	1.5	15.7	19.1	52.2	Oil	Oil
7	2516.5	1.5	3.7	12.8	30.5	58.6	Oil	Oil
8	2517.5	1.8	2.9	13.9	34.5	40.6	Oil	Oil
9	2518.5	2.0	2.6	12.9	17.8	50.5	Oil	Oil
0	2519.5	0.9	1.0	10.5	31.4	51.4	Oil	Oil
1	2520.5	0.7	0.5	11.9	31.9	40.3	Oil	Oil
2	2521.5	0.4	0.3	8.1	25.0	76.5	(2)	(2)
3	2522.5	1.0	0.1	9.8	34.7	44.9	Oil	Oil
4	2523.5	7.8	12.0	13.5	11.9	28.1	Oil	Oil
5	2524.5	3.3	2.9	12.5	29.6	52.0	Oil	Oil
6	2525.5	9.0	2.8	12.8	23.4	67.9	Oil	Oil
7	2526.5	1.6	3.7	9.8	32.7	44.9	Oil	Oil
8	2527.5	19.	15.	16.5	18.2	21.8	Oil	Oil
9	2528.5	16.	16.	15.9	25.2	50.0	Oil	Oil
0	2529.5	1.0	11.	17.1	26.9	60.8	Oil	Oil





(1) See Letter  
 (2) Low permeability—non pay

(3) Transition zone (a) Oil to water  
 (b) Gas to oil (c) Gas to water  
 (d) Oil—not commercially productive

### SUMMARY

Formation Name.....Simpson..... Depth 2510.....to 2541.5.....feet  
 Productive formation recovered.....21.....feet

Average of determined values:  
 Permeability ..... $5.0 \times 10^{-7}$  mdccys.  
 Viscosity ..... $14.0$  percent

saturation ..... $25.4$  percent  
 Water saturation ..... $27.9$  percent  
 Brine water ..... $55$  percent  
 Gravity produced oil ..... $30^{\circ}$  API

- (A) By capillary pressure
- (B) Empirical
- (C) Oil coring data

Original bottom hole pressure ..... $1080$  PSI  
 (F) From electric log  
 (G) From drilling time  
 (H) From production data

Permeability Distribution Factor .....  
 (Perfect distribution — 1.0)

Possible productive formation.....feet  
 Predicted unit recoverable oil in bbls. per acre foot

By gas expansion to zero PSI ..... $107$ .....cu. ft/bbl.  
 Original formation ..... $1.0$  bbls./bbl.  
 Volume factor ..... $1.15$ .....bbls./bbl.  
 Original saturation ..... $700$  PSI  
 Pressure ..... $700$  PSI  
 Original bottom hole pressure ..... $1080$  PSI

- (A) From fluid behavior analysis
- (B) Field measurement
- (C) Oil coring data

ELEVATION— 1301.9 F.

1500 K.D.S.

FORMATION	DEPTH	SUB-SEA	THICK	BOUNCE	RECORD
Lansing	1649	- 346			
	1963	- 645			
	2433	-1133			
No N. Ordovician rocks exposed					
Viola	2452	-1179			
	2516	-1213			
	2558	-1255			
Total Depth (corrected)					

FOOTAGE  
S.T.R. (GUR.) Soc. 21-2(S-S)  
CO.PA. Butler  
STATE Kansas  
AREA M. Dorado Field

DIA. 6"

CASING RECORD:—  
8 5/8" tot 103'  
8 1/2" set @ 2517'

DATE COMMENCED—	4/11/52
DATE COMPLETED—	5/16/52

REMARKS—

## INITIAL PRODUCTION—

P 35 20 & 3 EN, 24 hours.  
G.P. 220

## PRODUCTION FORMATION—

VIOLET AND SINTERON

Top Lansing 1649 -346  
Top Kansas City 1963 -645  
Top Steiner 2433 -1133  
Sp. sat. estn in samples from 2435-45, *Abundant trachyte from abandoned hole.*

No rocks of Mississippian age were recognized in samples.

Top Viola 2452 -1179.  
Drilled to 2485, cive. samples cherty dolomite w/sat. stn oil.  
Scored 2485-2525, full recovery. 2485-2510, dol. w/sat. stn oil, 2510-16 sandy dol. w/sat.  
stn oil, 2516-2525, sandstone w/sat. stn oil.

Top Steiner 2516 -1213  
Scored 2525-40, rec. 31°, 2525-40 sandstone w/sat. to sp. est. stn oil, 2540-50 shale &  
sandstone, dolomite nodules. From 2525-42 (red rock) 2550-56 shale & ss. w/1% sandy dol.

Total Depth 2560 ± 2555 corrected.

Run Schlumberger Lateral and Microlog.

Sp. sat. @ 2517' & cive. w/100 tests  
CO to bottom, washed w/150 gals. mud solid. Built 4 CO & 1½ GOM, 2 hours.  
Irrigated w/3000 0 2/24, 1500 gals., 1125' sandy, broke 1300', 1200', 900', then to vac.,  
flushed w/52 150. Sailed 36 ENO, short 16 ENO  
Bailed 20 EN & 1 EN, 24 hours, inc 2 ENL. new oil, least 4 hrs. 34 GOM, no water.  
Set plug 2512, perf. 2482-2508 w/1C5 sh., built 22 GOM, no water, 12 hours.  
Acidized w/1000 0-10, 53 ENL on vac., built 24 GOM, 10 hrs., 50% LF.  
Bailed 24 CO & 10 ENL, 24 hrs. est 14 ENL. P 35 NO & 3 EN, 24 hrs. 12 - 24" SPN, est. 32°

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Case and Wolf No. 2125 on October Number 93 Date: 2-25

مکالمہ علیہ الرسول

Red/mag — 80% early stages  
Blue/green — 0% ET hippocampus shown  
grey/sting — 0% hippocampus two

Common Stock Dividends - Dollars Per Year

### **G. Penetration Rate**

Time Interval: From September To December

1st Per Year  
2nd Per Year  
3rd Off Per Year for Ronkins

Estimated Profit or Loss from Inhibitor Treatment, \$/yr. 10000

**RESULTS:** • Recently introduced cost-cutting

ACIDIZING RECORDS:

Acidized on March 17, 1955 w/1000 gals 15% acid by Halliburton. Well took acid on vacuum. Flushed w/25 barrels water.

REMEDIAL WORK REPORT

WORK PERFORMED Cleared Out  
 BY J. H. Wagner - El Dorado, Kansas  
WORK COMMENCED July 30, 1955  
WORK COMPLETED August 1, 1955  
TOTAL DEPTH 2558'  
Measuring Pt. Kelly Bushing  
ELAVATION 1299'

REMARKS:

Moved in contract cable tools to clean out. Moved in, rigged up, pulled rods and tubing. Tools strung in to 2523'. Washed hole and cleaned out to 2557'. One (1') foot of iron in bottom of hole. Run tubing, rods and put well to pumping. Well Complete.

NOTE: ALL MEASUREMENTS ARE KELLY BUSHING MEASUREMENTS - 2558' K.B.M. equals 2554' G.L.M.

PRODUCTION DATA

Production before cleaning out; 48 barrels oil, 100 barrels water.

Pumping test after cleaning out, completed on August 4, 1955 in the Viola Lime and Simpson Sand Formations: Viola Lime; top, 2483'; bottom, 2516'; Simpson Sand; top, 2516'; bottom, 2545'. Perforations in 5-1/2" casing, in Viola Lime formation, from 2482' to 2508', open hole, Simpson Sand formation from 2517' to 2557'. Well pumped on 24 hour test: rate 56 barrels oil; 84 barrels water. Pump set at 2545' with 1-1/2" plunger, 2" tubing 3/4" rods, 48" stroke, 20 S.P.M. Allowable 100%. Gravity 34.

Contractor's Statement

\$4 Hrs.	9.375	\$506.25
Moving In		133.80
Extra Labor		68.40
		<u>\$708.45</u>

ACIDIZING REPORT

Acidized on December 13, 1955 with 500 gallons 15% acid, through 2" tubing, under vacuum. Tubing flushed with 12 barrels water, casing flushed with 20 barrels water.

INTEROFFICE CORRESPONDENCE

FROM Jerry R. Johnson - 21 March 1955  
TO N.C.O. Reporting & Maintenance Department

DATE March 31, 1955

SUBJECT: ACIDIZING MEDIUM - TO TREATMENT UNIT

Dear Sir:

Write in to treatment plant to see if acidizing medium can be had  
the month of March 1955.

M.A. KOCHER WELL NO. 93

Acidized on March 17, 1955 with 1000 gallons, 15% acid, by Halliburton.  
Well took acid on vacuum. Flushed with 25 barrels water.

Yours very truly,

JRS:lmr

DEAL WITH ONLY ONE SUBJECT IN EACH LETTER - WRITE - DO NOT TELEGRAPH OR TELEPHONE EXCEPT IN EMERGENCY

DRILLING WORK REPORT

<u>BOREHOLE NUMBER</u>	<u>LOCATION</u>
93	220 <sup>4</sup> FT.L, 1650 <sup>4</sup> FT.L, NE/4 Section 21, 26S, SE Dawley County, Kansas
<u>WORK PERFORMED</u>	<u>DATE</u>
Cleaned Out	JULY 30, 1955
	August 1, 1955
<u>INSTRUMENTATION POINT</u>	<u>ELEVATION</u>
J.H. Rancher El Dorado, Kansas	1299 <sup>4</sup>
<u>ORIGINAL DEPTH</u>	
2558 <sup>4</sup>	Kelly Bushing
<u>REMARKS:</u>	
	Moved in, rigged up, pulled rods and tubing. Tools removed in contract cable tools to clean out. Moved in, rigged up, pulled rods and tubing. Tools running in to 252 <sup>3</sup> . Washed hole and cleaned out to 2557 <sup>4</sup> . One (1) foot of iron in bottom of hole. Run tubing, rods and put well to pumping. Well Complete.
	NOTE: ALL MEASUREMENTS AND KELLY BUSHING MEASUREMENTS = 2558 <sup>4</sup> F.E.M. equals 2554 <sup>4</sup> G.L.M.

PRODUCTION DATA

Production before cleaning out; 48 barrels oil, 100 barrels water.

Pumping test after cleaning out, completed on August 1, 1955 in the Viola Lime and Simpson Sand formations; Viola Lime; top, 2483<sup>4</sup> bottom, 2516<sup>4</sup>; Simpson Sand; top, 2516<sup>4</sup>; bottom, 2545<sup>4</sup>. Perforations in 5-1/2" casing, in Viola Lime Formation, from 2402<sup>4</sup> to 2508<sup>4</sup>, open hole, Simpson Sand formation from 2507<sup>4</sup> to 2557<sup>4</sup>. Well pumped on 24 hour tests; rate 56 barrels oil, 61 barrels water. Pump set at 2515<sup>4</sup> with 1-1/2" plunger, 2" tubing, 3/4" rods, 15<sup>4</sup> stroke, 20 S.P.M. Allowable 100%. Gravity 34.

## C O P Y

January 5, 1956

J.T. Rosenthaler - El Dorado, Kansas

W.B. Powers - Wichita, Kansas

## ACIDIZING REPORT - EL DORADO DISTRICT

Dear Sir:

This is to advise that the well listed below was acidized during the month of December 1955.

M.A. KOGLER WELL NO. 93.

Acidized on December 13, 1955 with 500 gallons 15% acid, through 2" tubing, under vacuum. Tubing flushed with 12 barrels water, casing flushed with 20 barrels water.

Yours very truly,

L.W.:

Mobil Oil Company  
SUPPLEMENT TO WELL RECORD

X-5070

CLASSIFIED AS 11647 HOLE 4-26-63  
LEASE M. A. KOOCHER  
STATE KANSAS  
REASON FOR WORK DRILL REOPEN TO DIVISION APPROPRIATION  
POTENTIAL TEST AFTER 25 BOPD AND 4.83 BUPD

WELL NO.	DISTRICT	DATE	DIVISION
11647	11647	5-16-63	11647

WORK PERFORMED BY	AMOUNT REQUESTED	APPROXIMATE EXPENDITURE	ESTIMATED MONTHS TO REOPEN	ABANDONMENT PAY OUT
WHITE A&E ELLIS DEPS.	\$ 1000	\$ 800	1-13-63	NOT PAY OUT

POTENTIAL TEST BEFORE	DATE WORK COMMENCED	DATE WORK COMPLETED
25 BOPD AND 506 BUPD	4-13-63	4-27-63

25 BOPD AND 506 BUPD - WORK: VIOLENT SEDIMENT ABUNDANT

ABUNDANT OF OPEN HOLE PORE SPACES

PREVIOUS T.D.	P.B.T.D.	PRESENT PRODUCING FORMATION (S) AND DEPTH (S)	MEASURING POINT
2558	2557	VIOLET ROCK 2557'-2538'	KELLY BLUSHING B1-4'
PRESENT T.D.	P.B.T.D.		MEASURING POINT
2593	2593	KELLY BLUSHING B1-4'	KELLY BLUSHING B1-4'

CHANGE (S) IN CASING RECORD	PREVIOUS PRODUCING FORMATION (S) AND DEPTH (S)	PRESENT PRODUCING FORMATION (S) AND DEPTH (S)
15%	VIOLET ROCK 2557'-2538'	VIOLET ROCK 2582'-2505'
15%	ARMSTRONG 2538'-2515'	ARMSTRONG 2512'-2538'

SUMMARY OF OPERATIONS

Began in cabin hole and cased casing. Cleaned out to 2557 KB and drilled down to TD 2593 KB. Encountered iron at 2557 and cased in. Casing at 2593 KB. Top Arbutic by samples 2589 KB (-1286). Drilled 55' and 15% acid with 10% ammonium additive, ammonite. Arbuckle open hole with bailed. Run rods and tubing and removed production.

11647

Dec 1963 (Signature)

USE REVERSE SIDE IF ADDITIONAL SPACE IS NEEDED

X-5111 record

X-5111 record

Mobil Oil Company  
SUPPLEMENT TO WELL RECORD

N-5070

DATE 11-18-63

LEASE NAME	WELL NO.	DISTRICT	DATE
No. A. Koc-720	93	Michigan	11-18-63
STATE KANSAS	COUNTY OR PARISH	Tennant	
Butler			
REASON FOR WORK	<input type="checkbox"/> WORK OVER <input type="checkbox"/> CLEAN OUT <input type="checkbox"/> RECOMPLETION <input checked="" type="checkbox"/> DRILL DEEPER <input type="checkbox"/> REDRILL		
Increase in truckline production.			

APPROPRIATION NO. DV 2033A	AMOUNT REQUESTED \$ 45,000	APPROXIMATE EXPENDITURE \$ 3,000	ESTIMATED MONTHS TO PAY OUT 5
WORK PERFORMED BY White & Ellis Drilling Co.		DATE WORK COMMENCED 6-17-63	DATE COMPLETED 6-23-63
PRODUCTION BEFORE 23 B.W.P.D. & 403 B.W.P.D.			
POTENTIAL TEST AFTER 30 B.W.P.D. & 381 B.W.P.D.			

PREVIOUS T.D. 2593:	P.D.T.D. 2593	MEASURING POINT (KE) - 4: 6L
PRESENT T.D. 2520:	P.D.T.D. 2520	MEASURING POINT (KB) - 4: 6L
TYPE OF REOPENING(S) AND DEPTH(S) 2593: 2517-28: Acid. 2589-2628: 2520: 2517-28: Acid. 2589-2628:	REOPENING(S) AND DEPTH(S) 2593: 2517-28: Acid. 2589-2628: 2520: 2517-28: Acid. 2589-2628:	REOPENING(S) AND DEPTH(S) 2593: 2517-28: Acid. 2589-2628: 2520: 2517-28: Acid. 2589-2628:
CHANGES IN CASING RECORD		
None		

## SUMMARY OF OPERATIONS

Moved in cable tools. Cleaned out 2580-23: Drilled new hole 2593 - 2628; encountered caving and apparently some iron, approx 1050' fluid in hole. Ran Iron Wall. Cement Ray & Newton logs. Ran Halliburton 4 1/4" Open Hole packer on 27/8". C. Tub. set @ 2592' w/ perf. @ 2598 & 2603: anchor on bottom, safety jet. on top of perf. & Cast Iron Disc on top of 4" handling sub. Spotted 500gal. NE Acid to bottom of this. Broke cast iron disc @ 1100# & treated Arb. zones. Fluid communicated around pipe w/csg loaded purged 1/4 Ebl per min. @ 200#. Flushed w/15 Ebl. Lease oil. Load 16 Ebl. oil plus 12 Ebl. acid water. Strapped 14BBL load oil & 12 Bbls acid Wtr. & 58 Bbls S.W. in 61/2 hrs. Pulled tub. & pic. ran tub. & rods P.O.P.