

SAMPLE ANALYSIS REPORT

SHAWVER ARMOUR, INC.

PIPKIN # 1

Approx. NE NE SW SEC. 22-30S-1E

SUMNER COUNTY, KANSAS

BY

DON D. SHAWVER

January 6, 1959

Shawver-Armour, Inc.
817 Central Building
Wichita, Kansas

RE: Shawver-Armour, Inc.
Pipkin # 1
NE NE SW Sec. 22-30S-1E
Sumner County, Kansas

Gentlemen:

The above captioned test was under geological supervision from 3740' to 3822' R.T.D.

Samples were examined from 2700' to 3822' Rotary Total Depth.

All tops and zones of porosity are based on kelly bushing measurements.

Elevation: 1232 K.B.

SAMPLE TOPS

Kansas City Lime	2752	(-1520)
Base Kansas City	2994	(-1762)
Oswego Lime	3074	(-1842)
Mississippian	3372	(-2140)
Kinderhook Shale	3765	(-2533)
Simpson Sand	3818	(-2586)
Rotary Total Depth	3820	(-2588)

STRUCTURAL COMPARISON

* Shawver-Armour, Inc.

Pipkin # 1

Top Simpson Sand
3818 (-2586)

Shawver Armour, Inc.

Markley # 1

(one loc. East)

(-2577)

White & Ellis

Slaybough # 1

(2/3 mile West)

(-2604)

ZONES OF POROSITY AND/OR STAINING

2763' - 2766'	Tan to brown crystalline fossiliferous limestone. Slight pinhole porosity. No shows.
2775' - 2801'	Buff medium crystalline limestone with white vitreous chert. Fair intercrystalline and pinhole porosity. No shows.
2816' - 2852'	Tan to gray crystalline and chalky fossiliferous cherty limestone. Some pinhole and intercrystalline porosity. No shows.
2872' - 2876'	Tan crystalline and chalky limestone. Some intercrystalline porosity. No shows.
2896' - 2900'	Tan to gray oolastic and sub-oolitic limestone. No shows.
2940' - 2942'	Tan oolastic limestone. Poorly developed. No shows.

MISSISSIPPIAN SECTION

3379' - 3395'	Tan to gray fine granular to sacresic dolomite and dolomitic limestone. Poor to fair porosity. No shows.
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SIMPSON SECTION (SAND)

3818' - 3820'	Clear to slightly frosted medium grain sub-rounded sandstone. Some clusters having a dolomite matrix. Good stain odor, and show of free oil. Fair fluorescence. Tested by D. S. T. # 1.
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D.S.T. # 1 3814' - 3820'

Open 60 minutes. Good blow. Gas to surface in 60 minutes. Recovered 350' of gassy oil, 30' of mud. 20 minute pressures - I.B.H.P. 1475# F.B.H.P. 1450# I.P.P. 20# F.P.P. 250#.

Shawver-Armour, Inc.
Pipkin # 1

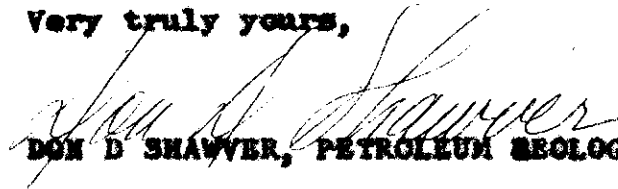
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January 6, 1959

REMARKS:

Due to the favorable drill stem test it was recommended that 5 1/2" casing be cemented 1 1/2' off bottom with 75 sacks and the well further tested with cable tools.

Very truly yours,


DON D SHAWVER, PETROLEUM GEOLOGIST

BDS/lm

Shawver-Armour, Inc.

Pipkin # 1

FACTS PERTINENT TO THE DRILLING
OF THE

SHAWVER ARMOUR, INC. PIPKIN # 1

APPROX. NE NE SW SEC. 22-30-1E

SUMNER COUNTY, KANSAS

CONTRACTOR: SHAWVER ARMOUR, INC. DRILLERS: FRED JACOBS
TOOL PUSHER: PAUL HORSCH F. D. EDWARDS
SPUD DATE: DEC. 15, 1958 L. R. KENNEDY

BITS

NO.	SIZE	MAKE	SERIAL	FROM	TO	FEET	HOURS
1	7 7/8	Hughes	W7 Retip	208	378	170	9 3/4
2	"	Reed	YT NEW	378	786	408	15 1/2
3	"	Hughes	OSC "	786	1569	783	20
4	"	Security	S6 "	1569	2167	598	22
5	"	Reed	Yt "	2167	2606	439	22
6	"	Hughes	OWV"	2606	2914	308	24 1/4
7	"	"	" "	2914	3129	214	26
8	"	Security	M4N "	3129	214	269	24 1/2
9	"	"	H7 "	3398	3490	92	17
10	"	Reed	YH "	3490	3595	105	26
11	"	Hughes	W7 "	3595	3692	978	25 1/2
12	"	"	" "	3692	2820	128	18 1/2

Pipkin # 1

DEPTH	MINUTES	REMARKS
1' Intervals		

2700	4-2-3-3-4/4-4-3-4-3	
10	4-4-3-4-3/3-4-3-3-4	
20	2-3-3-2-3/2-2-3-3-3	
30	3-2-3-3-5/4-4-3-3-3	2731 Conn
40	3-4-4-4-4/4-4-4-4-3	
50	4-4-6-5-7/5-5-4-6-5	
60	7-4-4-3-2/3-4-5-3-4	2763 Conn
70	5-5-6-6-5/4-3-3-3-3	
80	4-4-3-3-4/4-4-4-4-3	
90	4-5-3-3-3/3-3-4-4-5	2794 Conn
2800	5-8-9-9-7/7-5-4-4-6	
10	7-9-6-5-5/5-4-3-3-2	
20	3-3-3-2-3/2-2-3-3-4	2826 Conn
30	3-3-3-2-3/3-3-4-4-6	
40	6-6-4-4-4/5-4-5-5-4	
50	3-4-7-10-11/10-7-6-5	2857 Conn
60	7-7-6-7-7/7-7-9-11-11	
70	11-6-5-4-4/5-7-6-10-11	
80	11-12-14-12-12/10-10-9-8-12	2889 Conn
90	13-11-12-13-10/5-2-3-4-7	
2900	6-6-6-6-8/10-8-8-7-7	
10	6-7-8-10-5/6-4-4-4-4	2914 Trip
20	4-2-3-4-5/6-5-7-5-5	2920 Conn
30	5-5-4-4-4/3-3-3-3-3	
40	2-2-5-4-6/8-7-7-6-6	
50	5-5-4-5-5/6-7-7-7-7	2952 Conn
60	9-5-6-6-8/7-6-6-8-8	
70	7-7-6-8-7/7-10-10-8-10	
80	9-10-10-8-9/10-10-10-8-8	2983 Conn
90	9-10-8-6-7/6-6-6-7-7	
3000	5-6-8-7-6/7-6-5-5-5	
10	6-6-5-7-8/7-7-7-7-7	3018 Conn
20	5-5-7-7-5/7-9-8-10-10	
30	9-8-7-7-9/5-4-4-3-4	
40	4-5-5-6-5/6-5-5-5-6	3046 Conn
50	6-6-5-5-5/5-5-5-5-5	
60	4-5-5-5-5/6-6-5-7-5	
70	6-6-7-7-10/13-14-12-15-16	3077 Conn
80	14-12-13-11-10/9-7-8-7-8	
90	1-9-11-12-12/11-15-8-8-12	

Pipkin # 1

DEPTH	MINUTES	REMARKS
1' Intervals *****		
3100	10-9-10-8-8/8-8-8-8-6	3107 Conn
10	7-7-8-7-8/7-8-9-9-10	
20	9-10-10-13-14/14-9-11-13-5	3129 Trip
30	6-6-5-4-4/5-5-5-6-5	3140 Conn
40	5-5-5-6-5/6-5-5-5-4	
50	5-6-5-4-5/3-2-2-2-4	
60	3-4-5-5-5/5-5-5-4-4	
70	4-3-4-5-5/5-5-5-5-6	3171 Conn
80	4-6-5-4-3/2-2-3-3-3	
90	4-5-5-6-6/5-5-6-5-4	
3200	4-5-5-4-4/5-6-4-4-6	3203 Conn
10	4-4-6-6-3/2-4-6-7-6	
20	5-6-5-5-5/6-5-6-5-6	
30	6-6-6-6-6/6-7-7-7-6	3234 Conn
40	3-6-8-8-10/8-7-7-8-7	
50	8-6-7-6-8/7-3-7-7-8	
60	5-2-3-2-3/3-3-3-3-5	3265 Conn
70	5-4-4-5-4/5-5-6-4-5	
80	4-4-5-6-6/4-4-5-4-2	
90	2-2-2-5-5/5-4-4-5-5	3296 Conn
3300	6-5-5-5-4/4-4-4-6-5	
10	7-5-5-6-5/6-5-4-3-4	
20	5-3-3-7-6/8-4-6-6	3326 Conn
30	7-8-8-7-6/6-6-7-7-6	
40	6-5-8-8-5/5-3-4-3-5	
50	7-6-7-6-6/4-5-6-4-4	3358 Conn
60	4-4-4-6-6/7-8-6-7-7	
70	6-9-11-12-14/13-15-14-8-5	
80	4-6-5-5-6/6-6-7-7-5	3390 Conn
90	4-5-4-4-6/8-11-13-10-9	3398 Trip
3400	10-7-6-7-6/6-7-7-9-6	
10	9-12-13-10-9/11-12-11-12-11	3420 Conn
20	9-8-10-12-11/10-12-14-11-13	
30	13-14-12-12-15/12-10-11-13-10	
40	13-11-9-11-11/12-11-9-8-11	
50	9-8-6-7-10/6-10-9-9-9	3453 Conn
60	7-7-7-12-17/12-11-10-11-15	
70	10-10-9-10-8/9-11-12-12-13	
80	11-13-19-18-15/1-21-30-22-25	3484 Conn
90	10-13-12-13-11/12-11-14-11-12	3490 Trip

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DEPTH	MINUTES	REMARKS
1' Intervals *****		
3500	12-12-13-11-12/10-11-12-10-11	
10	8-14-11-10-9/9-12-12-11-13	3516 Conn
20	13-12-13-13-14/15-16-15-16-15	
30	14-16-14-15-16/17-15-13-14-16	
40	15-13-13-13-15/17-15-12-17-15	3546 Conn
50	15-14-18-19-15/16-15-19-17-17	
60	17-19-16-19-19/17-17-19-17-17	
70	17-19-20-16-20/20-20-19-18-13	3579 Conn
80	17-17-17-15-17/15-16-15-17-17	
90	19-16-18-17-19/10-15-13-13-13	3595 Trip
3600	12-13-13-14-14/14-16-15-15-14	3610 Conn
10	15-15-16-17-20/20-20-18-17-18	
20	15-16-16-18-17/16-17-16-16-16	
30	18-14-18-17-16/18-20-23-25-21	
40	21-19-20-18-19/21-19-19-20-20	3641 Conn
50	18-19-19-18-17/18-17-17-17-15	
60	14-12-12-10-10/10-9-9-10-10	
70	10-10-12-19-14/13-12-12-13-16	3673 Conn
80	16-17-18-16-18/18-20-20-14-13	
90	15-18-10-14-13/12-12-11-11-11	3692 Trip
3700	10-9-10-8-9/8-7-7-8-7	3704 Conn
10	7-7-6-6-7/6-6-6-5-5	
20	7-6-6-6-6/7-6-8-8-7	
30	8-6-6-6-8/8-6-6-7-7	3736 Conn
40	7-7-7-6-6/8-12-14-13-8	
50	9-8-9-22-24/23-21-23-21-17	
60	20-20-19-19-10/9-8-6-6-7	3767 Conn
70	6-8-7-7-7/6-6-8-6-5-5	
80	6-6-6-6-8/7-8-6-5-6	
90	5-6-5-7-7/7-7-7-7-5	3799 Conn
3800	6-6-7-7-7/7-7-7-7-6	
10	6-8-6-7-5/6-9-8-15-19	