

2-10-17W

Lamb'A' #1

LAMB NO. 1

COMPLETION REPORT

AUGUST, 1958

Davis Bros.
Lamb'A' No. 1 ✓
C SE SE Sec. 2-10S-17W
Rooks County, Kansas

TD Rotary 3524'
Float Collar 3489'

Elevation KB 2037
Zero - 4' above the Bradenhead

Casing Record 8-5/8" at 160' w/125 sx.
4-1/2" at 3520' w/260 sx.
No. DV Tool

(Centralizers are at the casing shoe, 3435', 3425', 3337', 3288', 3253', 3170', and 1275'. Used 60' of roto well cleaners to remove mud cake.)

Completed in August 1958

GEOLOGICAL TOPS

Anhydrite	1600'	
Topeka	2920'	- 883
Heebner	3141'	- 1104
Toronto	3167'	- 1130
Lansing	3188'	- 1151
Base K. C.	3428'	- 1391
Marmaton	3432'	- 1395
Simpson	3484'	- 1447
Arbuckle	3495'	- 1458
TD	3524'	- 1487

Drill Stem Tests

Testing Topeka

1. 3093'-3146' Tool open 80 minutes. Tool plugged in 15 minutes. Recovered 115' mud. ISIP 1120, FSIP 1030#, FP 50-75#. Test as far as oil is concerned is inconclusive because the tool plugged in 15 minutes.

2. 3145'-3230' Tool open 1 hour. Recovered 15' mud. ISIP-N.G., FSIP 710#, FP 36#-44#.

Testing Toronto, A and B

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3. 3225'-3258' Tool open 2 hours. Recovered 135' fluid, mostly muddy water with S.S.O. ISIP-N.G., FSIP 1033#, FP 120#-180#. *Testing B & D*
4. 3249'-3430' Tool open 2 hours. Recovered 450' fluid. 360' was heavily oil cut mud and 90' was oil cut mud. ISIP 1118, FSIP 1026#, FP 180#-325#.

Porous Zones With Show of Oil

<u>Zone</u>	<u>Top</u>	<u>Bottom</u>	<u>% Porosity</u>	<u>% Water</u>
D	* 3243'-1206	3245'	7.5	35.0-54.0
D	* 3252'-1215	3254'	6.0	36.0-45.0
G	* 3278'-1241	3281'	8.5	43.0
G	* 3288'-1251	3292'	7.5-13.5	30.0-43.0
H	* 3334'-1297	3338'	6.5-7.0	35.0-45.0
I	* 3346'-1309	3348'	9.0	46.0
J	* 3372'-1335	3374'	5.0	48.0
K	* 3401'-1364	3404'	4.5	41.0-53.0
L	* 3417'-1380	3419'	5.0-7.0	39.0
Marmaton	* 3432'-1395	3433'	12.0	45.0
Marmaton	* 3435'-1398	3437'	11.0	43.0

Note: The "G" and Marmaton Zones are best prospects. The remainder Zones are fair and will probably be productive.

Testing Record

August 3, 1958

Moved in cable tools and put on new drilling line. (Company Time)

August 4, 1958

Swabbed hole down to 3433' and drilled out cement to the float collar at 3488'. Ran collar locator log and then perforated the Marmaton Zone from 3431'-3436' with 4 1/2" bullets to the foot. No fluid recovery on standing 1 hour. Shut down at 8:00 p.m. Company time 13 hours.

August 5, 1958

125' of fill up on standing 11 hours. 100' was oil and 25' was drilling water. Oil was 30° API. Natural fill up in 11 hours is 2 bbls. oil. Swabbed the hole dry and after standing 2 hours the well made 2/3 bbl. of oil.

Acid Record - Marmaton Zone

Acidized the Marmaton with 250 gallons of MCA Acid. Formation broke down from 650# to 250# after 50 gallons of acid was displaced. The remainder or 200 gallons of acid was displaced at between 250# and 300#. The acid was allowed to spend itself for 2 hours and was then swabbed back. Hole was swabbed down at 3:25 p.m.

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Swab Test of Marmaton Zone After Acid Treatment

Time	Tank Gauge	Bbls. Swabbed	Cumulative Bbls.	Remarks
3:25 P.M.	4" 6-1/2"	Start of Swab Test		
4:25 P.M.	4" 7-1/2"	1.67	1.67	
5:25 P.M.	4" 8-1/2"	1.67	2.34	
6:25 P.M.	4" 8-3/4"	.44	2.78	Swab Cups No Good

Company time 12 hours.

August 6, 1958

Had 750' of fluid in the hole, all oil. Swabbed out 10.8 bbls. of oil.

Second Swab Test Marmaton Zone

Time	Tank Gauge	Bbls. Swabbed	Cumulative Bbls.	Remarks
7:30	5" 3-1/4"	Starting Gauge after swabbing well down (Well made 10.8 bbls. overnight.)		
8:30	5" 4"	1.25	1.25	All oil
9:30	5" 4-3/4"	1.25	2.50	All oil

Perforation Record "L" Zone

Perf. 3417'-19' w/4 1/2" bullets per foot.
Perf. 3422'-25' w/4 1/2" bullets per foot.

Set Baker Retrievable plug at 3426-1/2' and dried up the hole.

Acid Record "L" Zone

Acidized with 250 mud acid followed by 1000 penetrating acid. Formation broke down from 550# to 200# after displacing 150 gallons of acid. The remainder, or 1100 gallons was displaced at 200#-250# at a rate of 45 gallons per minute.

100# well head pressure in 15 minutes after shutting the pump down. Zero pressure in 30 minutes. Allowed the acid to spend itself for 1-1/2 hours and then swabbed the hole down. Hole swabbed down at 8:00 p.m. Good show of oil. Company time 13 hours.

August 7, 1958

270' fill up overnight in 11 hours, 70% oil. Oil is 21° API.

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Swab Test of "L" Zone After Acidizing

Time	Tank Gauge	Bbls. Swabbed	Cumulative Bbls.	Remarks
7:15	5' 7-1/4"	Swabbed 4-3/4 bbls. of oil to swab hole down		
10:15	No recovery on the swab. Oil coming in very slow			

Oil Gravity 21° API

Water Gravity 1.150 Still acid

Pulled the Baker Plug and perforated "H", "I", "J", "K" Zones as follows:

- "H" Zone from 3334' to 3336' w/4 1/2" bullets per foot.
- "I" Zone from 3345' to 3347' w/4 1/2" bullets per foot.
- "J" Zone from 3372' to 3374' w/4 1/2" bullets per foot.
- "K" Zone from 3401' to 3404' w/4 1/2" bullets per foot.

Reset Baker plug at 3410' and dried up the hole. Swabbed 7.7 bbls. of oil. Company time 10 hours.

August 8, 1958

175' fill up overnight. All oil. 30° API. Swabbed the hole and let stand for 2 hours and then swabbed 1/2 bbl. of oil.

Acid Record "H", "I", "J", and "K" Zones

Acidized with 250 MCA followed by 1500 gallons of penetrating acid. Maximum displacement pressure was 450 PSI. Pressure broke down to 150 pounds when 120 gallons had been displaced. The remainder or 1630 gallons was displaced in 10 minutes. Let the acid react in the formation for 2 hours and then swabbed the hole down.

Swab Test "H", "I", "J", and "K" Zone After Acid Treatment

Time	Tank Gauge	Bbls. Swabbed	Cumulative Bbls.	Remarks
1:50 p.m.	6' 6-1/2"	Hole swabbed down. Good show of oil		
2:50 p.m.	6' 8"	2.50	2.50	45% oil. 55% acid water
3:50 p.m.	6' 9"	1.67	4.17	60% oil. 40% acid water
4:50 p.m.	6' 10"	1.67	6.84	60% oil. 40% acid and formation water
5:50 p.m.	6' 10-1/2"	.83	7.77	80% oil. 20% acid and formation water
6:50 p.m.	6' 11"	.83	8.60	60% oil. 40% acid and Formation water

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3000 Gallon H. V. Acid Treatment "H", "I", "J", & "K" Zones

Acidized "H", "I", "J", & "K" Zones with 3000 gallons of H. V. Acid and over-displaced the acid with 25 bbls. of crude oil. Maximum displacement pressure was 750#. This pressure held until 300 gallons of acid had been displaced. The pressure then fell to 500# and continued to fall very slowly to the end of the treatment. It took 1 hour to displace all of the acid. The displacement rate was 1.7 bbls. per minute. Shut well in at 2:00 a.m. Zero pressure in 1 hour. Company time 12 hours.

August 9, 1958

Swabbed hole down at 9:10 a.m.

Swab test after H. V. Treatment

Time	Tank Gauge	Bbls. Swabbed	Cumulative Bbls.	Remarks
9:10 a.m.	5' 9-1/2"	Start of 1 hour swab tests		
10:10 a.m.	6' 0"	4.17	4.17	Oil highly emulsified
11:10 a.m.	6' 3"	5.01	9.18	65% oil. Water highly acid
12:10 p.m.	6' 5-1/4"	3.76	13.94	65% oil. Water highly acid
1:10 p.m.	6' 7-1/2"	3.76	27.70	63% oil, 37% water
2:10 p.m.	6' 9"	2.50	30.20	
3:10 p.m.	6' 10-3/4"	2.90	33.10	

Oil gravity after acid treatment 30° API.

Pulled Baker Plug from 3410' and perforated "G" Zone as follows:

Perforation Record "G" Zone

Perforated 3278'-3281' w/4 jets per foot.
Perforated 3288'-3292' w/4 jets per foot.

Reset Baker Plug at 3310' and dried up the hole. Company time 13 hours.

August 10, 1958

250' of oil in the hole. Oil is 33° API.

Swabbed the hole down and recovered 4.2 bbls. of oil. Pulled vacuum and swabbed the hole for 2 hours. Recovered 1 bbl. of oil.

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Acid Record "G" Zone

Acidized with 250 MCA followed by 1500 gallons of penetrating acid. Maximum treating pressure was 700#. Pressure fell off to 200# in 5 minutes pumping at the rate of 60 gallons per minute. Pressure at the end of the treatment was 50#. Zero pressure in 2 minutes. Vacuum in 5 minutes. Let the acid react in the formation for 2 hours and then swabbed the hole down.

Swab Test of "G" Zone after acidizing

Time	Tank Gauge	Bbls. Swabbed	Cumulative Bbls.	Remarks
3:10 p.m.	8' 3"	Hole swabbed down, opening gauge		
4:10 p.m.	8' 8"	8.35	8.35	70% oil
5:10 p.m.	9' 0-1/2"	7.51	15.86	70% oil
6:10 p.m.	9' 5-1/4"	8.77	24.63	77% oil

Company time 12 hours

August 11, 1958

Stacked out cable tool rig. Company time 8 hours.

Aug 14 1985
Geological Survey
Wichita Branch

Ralph A. Hockenson

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