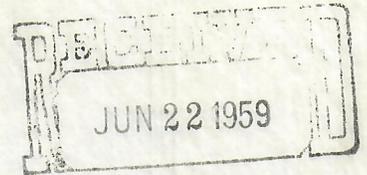




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ANGORA CORPORATION
#1 Wagers
Well Completion Report

OIL & GAS
CONSERVATION COMMISSION

- 4/29/59 - Ran 161 joints of 5-1/2", 15.5#, J-55 and one 8.70' bottom pup joint of casing and set at 5293' K.B. Installed a Type 600 Davis Guide Shoe (slip joint) on bottom of pup joint and a Type 700 Davis Float Collar on top of pup joint. One B & W casing centralizer was placed on the bottom pup joint and on each of the two joints above the "D" sand pay sections. Nu-Coil Type B & W Rotating Scratchers were placed over the interval 5125'-5280'. Casing was rotated and mud circulated for 40 minutes prior to cementing. Cemented, using top and bottom plugs, with 175 sacks (60% Regular and 40% Pozmix with 2% Gel). Bumped plug at 6:05 PM. Pressured up to 1500 psi and held for 1 minute. Bled pressure to 500 psi and shut in.
- 5/3/59 - Ran Halliburton wireline for T.D., check to top of plug. Found T.D. at 5283' K.B.
- 5/4/59 - Moved in O'Quinn & Murray Well Servicing Unit (Franks single pole double drum with 3/4" line) and rigged up. Started swabbing. Swabbed to 1500' from surface and main drive chain on unit broke. Unit down 7 hours (2:00 PM to 9:00 PM) replacing chain. Started swabbing, made one run to 1700' and found line frayed in one strand at 130' above swab. Decided to cut line off and reset rope socket.
- 5/5/59 - Swabbed casing dry by 5:30 AM. Hooked up 2" gravity line to swab tank and dumped 37.6 barrels down casing. Fluid level 3700' K.B. Ran Schlumberger line for Gamma Ray Log and T.D. check. Found T.D. at 5268' K.B. Double checked Gamma Ray. Made up and ran sand pump. Spudded on object and drove down hole to 5279' K.B. Pulled sand pump out and found large chunk of rubber cementing plug in bottom. Ran Schlumberger, found T.D. at 5279' K.B. and ran final Gamma Ray Log and magnetic collar locator. All 4 bottom collars checked within 1/2' of casing tally. Gamma Ray Log correlated in depth and intervals with Induction Log. Perforated interval 5267'-5271' K.B. (Schlumberger Induction and Gamma Ray) with 4 - 3-5/8" Capsule Gun Jets per foot. Started swabbing. Found Fluid Level at 3300' K.B. Swabbed Fluid Level down to 5000' K.B. Recovered load oil (37 barrels). Swabbed at 200' off bottom and recovered grindout, ran 80% water. Swabbed an estimated 15 barrels of water to pits.
- 5/6/59 - Water percentage diminished to 1% and mud content of sample grindouts increased to 9% while swabbing. Swabbed an additional 12 barrels of formation oil at a rate of 1.5 BPH. Mud cut diminished to 1.5% and water cut ranged from 1 to 1.5%. Rigged up Dowell equipment for acid treatment. Dumped 250 gallons of Dowell MCA down casing, followed with crude and spotted acid on perforations. Let acid remain at this position for 2 hours. Started pumping acid through perforations and formation broke down at 2800 psi. Pressure required for remainder of pumping while acid was being displaced through perforations was 1800 psi (average). Shut in pressure on casing bled to 0 psi in 18 minutes. Started swabbing chase oil (125.4 barrels) from casing. Recovered 123 barrels and grindouts showed 10% acid water and 4% mud.

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- 5/7/59 - Recovery rate levelled at 0.8 BPH of which as much as 38% was water and 2% was mud. Swabbed for an additional 8 hours at 0.8 BPH and grindouts were 8 - 9% water and 2% mud and BS. Gas had increased from fair to good during this latter period. Acidized well with 250 gallons of Dowell MCA. Initial injection pressure was 1400 psi. Pressure raised to 1500 psi during acid injection, with 2 pressure breaks indicated. Pressure then dropped and levelled at 1400 psi. The acid was overdisplaced through perforations with 25 barrels of crude at 1400 psi. Pressure on the well-head bled to zero 2 minutes after shut in. Started swabbing load oil.
- 5/8/59 - Swabbed 138 barrels of load oil back in 12 hours. Grindouts of samples showed 4 to 16% water and 2% mud. The splice in the 3/4" swab line started to strand and operations were shut down for new line replacement. The well was shut in for 9 hours during this period and built up an estimated high SI pressure. Swabbed for 2 hours and recovered 12 barrels of load oil and 2 formation crude. Grindouts: 2% water with a trace of mud.
- 5/9/59 - Swabbed for 6 hours and recovered 12.8 barrels of formation oil. Grindouts ranged from 50% to 30% water with 0 to a trace of mud and BS. Rigged up Dowell equipment to frac thru casing. Dumped 20 gallons of Freflo and 125 barrels of crude down casing for fillup in preparation for breakdown test. Pumped 50 barrels through perforations at 14 BPM at 3300 psi with no visible break on recorder. Decided to set maximum surface injection pressure at 3750 psi during frac. Fraced well under the following program: (Used Dowell Petrojel service with 500# of Adomite added during gelling of crude)

<u>Sand Mesh</u>	<u>Sand Mix #/Gel</u>	<u>Gel-Gals.</u>	<u>Sand-#</u>
20-40	1/2	1117	558
20-40	3/4	2226	1669
20-40	1	6657	6773
		<u>10000</u>	<u>9000</u>

Injection rate of sand-gel mix through perforations was 13.3 BPM. Surface pumping pressures ranged from 3500 psi to 3250 psi during sand-gel injection with small but definite breaks indicated. Sand-gel was overdisplaced through perforations by 5 barrels with crude oil. Final pressure on flush oil was 3300 psi and pumping rate during flush was 14.4 BPM. Wellhead shut in pressure dropped to 1800 psi in 1/2 minute and then declined to 0 psi in 12 minutes. Total load oil to recover: 550 barrels. The sand pump was run for a bottom check and a frac sand fill-up of 12' was found. After cleaning out to 5279' K.B. swabbing operations were started. In 10-1/2 hours of swabbing through casing 229 barrels of oil were recovered while fluid level maintained at 3000' from surface. Grindouts of samples: 8.0 to 4.0% water, 2% mud and BS.

- 5/10/59 - An additional 315 barrels of load oil were recovered over a 23-1/2 hour period of swabbing. Grindouts ranged from 3.0% to 0.0% water and 2.0% to 0.0% mud. By the end of this period fluid level had raised to 1000' from surface. The well started flowing with casing swab in top of casing at 11:30 PM.

5/11/59 - On flow test through casing to lease battery the well flowed 313.5 barrels in 8 hours for an average of 39.1 BPH. Grindouts ranged from 1.0% to 0.4% water and a trace to 0.4% mud. Pulled casing swab out of top of casing and shut well in. Killed well with Dowell pump truck by pumping in 130 barrels of load oil. Set Baker 2B-NI Magnesium Bridge Plug at 5262' K.B. with Schlumberger line and collar locator in preparation for completion operations on second bench of "D" Sand. Swabbed load oil down to 3800' from surface to provide for head of fluid over proposed perforated interval. Used same Schlumberger line with collar locator and perforated the intervals 5237'-39', 5245'-50' and 5253'-58' in one run with 4 - 3-5/8" Capsule Gun Jets per foot. Ran casing swab and found fluid level 300' higher than left previous to perforating. Started swabbing load oil for natural production test.

5/12/59 - Swabbed 110 barrels of load oil over a 5 hour period and well started flowing. Pulled swab and shut well in. Decided to run a Spinner Survey to determine point of entry of fluid, whether through exposed perforations or bridge plug. Made two attempts to run Eastman Survey (Spinner) but could not get flow recording as well would die before instrument was on bottom.

5/13/59 - Decided to knock out bridge plug and complete well from lower interval. Ran sand pump with chisel bottom and spudded on bridge plug for 8 hours without success. Rigged up a string of 4-3/4" cable tools consisting of rope socket, stem, jars and bit. Spudded on tools for 2 hours and moved plug 3' down hole. Spudded an additional hour and drove plug down to 5279'. Strung out on drilling line for T.D. check. Rigged up and started running tubing.

5/14/59 - Finished running the following tubing production string:

Top tubing to original K.B.	3.00'
1-4', 1-6', 1-8' Pup Jts. 2" EUE Tubing	18.00'
173' Jts. 2" EUE 4.7#, J-55, & RT Used Tubing	5183.08'
Baker Model "D" Mechanical Compensating Tubing Anchor	3.00
1 Jt. 2" EUE Used Tubing	31.88
1 Seating Nipple	1.10
Perforated Nipple 2" EUE	3.08
1 Jt. 2" EUE Used Tubing w/Bull Plug	30.75
Bottom of Tubing-K.B.	<u>5273.89'</u>

Made up and ran the following rod string and pump:

Polish Rod 1-1/4" x 16'	16.00'
1 - 3/4" Pony Rod (New)	4.00'
208 - 3/4" Rods (Used)	5200.00'
1 - 3/4" Pony Rod (New)	2.00'
1 - Harbison-Fischer Pump, 2" x 1-1/2" x 16', Bottom Hold Down, Stationary Barrel w/1" x 16' perforated near bottom and orange peeled stinger	16.00
	<u>5238.00'</u>

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Started up pumping unit at 3:45 PM. Fluid pumped to surface in 35 minutes on 20-54" SPM. Oil became gaseous 5 minutes after first fluid reached surface. Shut unit down to repair leaks in tank battery and clean oil paraffin accumulations out of treater lines and connections.

- 5/15/59 - Started up unit. Pumped and flowed load oil and formation oil to battery through treater. Grindout of wellhead sample: 3.0% water, 3.0% mud and BS. Grindout of treated oil: 0.0% water, 0.2% BS.
- 5/16/59 - 17 hour gauge on well (pumping and flowing through 2" tubing and 3/4" surface choke): 12 BPH.
- 5/22/59 - Pumping and flowing through tubing on 3/4" choke and flowing through casing on 3/4" choke: 22.9 BPH. Grindout of wellhead sample: 4% mud and BS, 2% water.
275 BPD

ANGORA CORPORATION


William A. Hessin

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