

TIDE WATER OIL COMPANY

July 30th, 1933

W.D. Grimes Well # 1

On January 20th, 1933 gas increased until oil seal was broken on production of 190-bbls., 8/64" choke and tubing pressure increased from 350# to 1000#. Choke was pinched back to 7/64" to hold oil seal and keep tubing pressure and ratio down. Since then at about three week intervals, it was necessary to pinch choke to hold oil seal, until at time packer was set, 7/24/33, it was producing 29 barrels of oil with 1003 gas oil ratio.

Began pumping water into tubing at 7:30 ^{P.M.} 7/24/33, at 9:30 ^{P.M.} tubing was dead and had a vacuum on it, Haliburtons pump was disconnected and 4" water line connected into tubing; with 5" Pozona pump ^{P.M.} direct into tubing, during this time casing pressure varied from 50# to 500#, at 2:30 AM 7/25/33 Haliburtons pump was connected into casing and pumped until it was dead and had a vacuum on it, about an hour, then 4" water line was connected into casing with water well pumping into well until packer was set at 12:00 PM 7/25/33, hole was never full during times we were pulling and running tubing. We estimated 400 barrels of water an hour was pumped into well for 29 hours, 11,600 barrels, and within ten minutes after water was shut off casing began showing pressure, in eight hours it had 1200# casing pressure, tubing dead. Only had to run swab five times to start tubing flowing, the first 22 hours tubing produced 420 barrels of fluid, and at the end of that time it was producing pipe line oil, less than 3 of 1% water. On 24 hour open test through tubing it produced 659 barrels of oil with 596,440 cu.ft. gas.

^{Up} 5 1/2" OD X 3" Oil Well tubing disc anchor packer with 72" canvass spiral wrapping was set at 4110', top white lime 3995', T.D. 4160'

Following are a number of gas oil ratio tests taken before and after packer was set.

Choke	T.P.	C.P.	Oil	Gas	Ratio
Before packer was set.					
2/64	290	1260	29	29,080	1003
28/64	1200	1260	240	6,384,000	26000
28/64	1200	1260	66	6,384,000	98257
The two tests on a 28/64" choke were taken within 4 and 8-hours after well was opened from 2/64" and would possibly have been a smaller ratio if well had been allowed to flow at this rate for a longer period.					
After packer was set.					
2/64	240	1250	22	21,800	991
10/64	340	1250	204	138,000	676
28/64	240	1250	439	261,000	597
Open Tubing	0	1250	659	596,000	917