

HISTORY OF OIL OR GAS WELL

(Submit in duplicate)

In compliance with rules and regulations adopted pursuant to ORS 520.095 (Chapter 667 OL 1953)

Operator Linn County Oil Development Company Field Lebanon area

Well No. Barr No. 1 , Sec. 32 , T. 11 S. R. 1 , N. W.B. & M.

Signed _____

Date February 9, 1959

Title _____

(President, Secretary or Agent)

It is of the greatest importance to have a complete history of the well. Use this form in reporting the history of all important operations at the well, together with the dates thereof, prior to the first production. Include in your report such information as size of hole drilled to cementing or landing depth of casings, number of sacks of cement used in the plugging, number of sacks or number of feet of cement drilled out of casing, depth at which cement plugs started, and depth at which hard cement encountered. If the well was dynamited, give date, size, position and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position and results of pumping or bailing.

- 10-24-58 Began moving in equipment from Sacramento, California.
- 10-25-58 Rigging up drilling equipment.
- 10-26-58 Spudded at 8:00 a.m., 10-26-58. Drilled 9-7/8" hole to 532 feet (using 3-1/2" drill pipe).
- 10-27-58 Drilled 9-7/8" hole to 621 feet. Ran in with a 15" bit and opened 9-7/8" hole to
to 15" from surface to 595 feet.
- 10-28-58
- 10-29-58 Cemented 10-3/4" 32' casing at 440 feet with 360 sacks of construction cement.
- 10-30-58 Standing cemented 20 hours. Landed casing and flanged up a.o.f.. Put cement on outside of casing at surface. Ran in with 8-3/4" bit on 3-1/2" Reed Internal Flush drill pipe and drilled out the casing shoe. Casing dropped 1 foot - cement job no good. Ordered Halliburton oil well cementing truck from Rio Vista, California.
- 10-31-58 Waited on cementing truck 39 hours. Installed Baroid logging equipment (gas analyzer, ultraviolet lamp, and binocular microscope). Rigged up cementing equipment. Plug 1
to 478-463'. Ran in with 3-1/2" open end drill pipe to 478 feet. Pumped in 15 sacks
11- 1-58 of construction cement C.I.F. 7:00 a.m.
- Waited 4 hours for cement to harden. Ran in with 8-3/4" bit on drill pipe and found no cement. Plug 11 (478-473'). Hung 3-1/2" open end drill pipe at 478 feet and pumped in 17 sacks of construction cement treated with 25 CaO₁₂. Displaced cement with 13 cu. ft. of water. C.I.F. 3:35 p.m. Mixing and pumping time 30 minutes.
- 11- 2-58 Waited on cement 12 hours. Ran in with 3" open end drill pipe and hit the top of hard cement at 463 feet.
- 10-3/4" casing shoe squeezed with 191 sacks of construction cement. Closed Chaeffer pipe rams and squeezed cement around the shoe in stages until a pressure build up was obtained. Displaced cement with 88 cu. ft. of water. C.I.F. 6:00 a.m. Mixing and pumping time 3 hours. Waited on cement 15 1/2 hours.

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- 11-30-58 Pulled out of hole with drill pipe and found that drill collars had unscrewed. Fish (4529-4425'). Waited on fishing tools 17 hours. Ran in with spear (?). Could not recover fish.
- 12- 1-58 Ran in with 7-7/8" bit on 3-1/2" drill pipe and reamed hole from 4210 to 4281 feet. Hole caving (4200-4300'). Repairing machinery - 4 hours.
- 12- 2-58 Rigged up Schlumberger equipment. Ran in with induction log sonde. Found hole was tight. Logged interval (4300-4424'). Ran in with 7-7/8" bit on 3-1/2" drill pipe and cleaned out the hole to 4424 feet. Conditioned mud.
- Ran Schlumberger electric log (4300-440'). Ran in with 7-7/8" bit on 3-1/2" drill pipe. Conditioned mud.
- 12- 3-58 Circulating - waiting on casing from Bakersfield - 48 hours.
to
12- 4-58
- 12- 5-58 Circulating - waiting on casing - 16 hours. Unloaded casing. Pulled out laying down drill pipe.
- 12- 6-58 Continued laying down drill pipe.
- 5" 15.5# casing cemented at 4422 feet with 600 sacks of cement: Ran in 4434 feet of 5-1/2" 15.5# casing and cemented around the shoe with 600 sacks of construction cement. Displaced cement with 584 cu. ft. of mud. C.I.C. 4:00 p.m.
- Theoretical top of cement on outside of the 5-1/2" casing was 1670 feet allowing 15# excess.
- 12- 7-58 Standing cemented - 48 hours.
to
12- 8-58
- 12- 9-58 Standing cemented - 8 hours. Landed 5-1/2" casing. Flanged up B.C.C. Waited on tubing - 5 1/2 hours.

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- 12-10-58 waited on tubing - 6 hours. unloaded tubing. Picked up tubing Kelly. Tested B.O.L. with 600 psi - O.K. Ran in the hole with 4-3/4" bit on 2-7/8" tubing.
- Found top of cement at 4233 feet inside the 5-1/2" casing (189'). Drilled out cement. Mud so badly contaminated that pump pressure was 1500 psi.
- 12-11-58 Continued drilling out cement to 4412 feet. Circulated and conditioned mud. Spotted fresh water at 4325 feet.
- Gun perforated 4-1/2" holes per foot with Lane Wells Bullet Gun (4298-4321'). Ran in with Halliburton tester on 2-7/8" tubing. Set packer at 4283 feet, perforated tail to 4294 feet. Opened tool at 1:00 p.m. Had a medium steady blow for 1 hour 5 minutes, then gas surfaced. Steady light gas blow remainder of test. Tool was open 2 hours. Gas burned with a yellowish-blue flame. Pulled out with tester. Recovered: 620 feet net rise of fluid; 440 feet of gas cut mud and 180 feet of muddy fresh water. Charts: showed tool was open during the entire test.
- 12-12-58 waited on orders - 16 hours.
- Acidized (4298-4321') with 500 gallons of mud acid. Ran in with Halliburton squeeze tool on 2-7/8" drill pipe and set at 4298 feet. Displaced acid with 140 cu. ft. of mud. Squeezed perforation with 50 gallons (10 barrels) of acid.
- 12-13-58 Let acid stand in hole. Back scuttled acid out of hole.
- Drill Stem Test No. 2 (4298-4321'). Ran in with Halliburton tester on 2-7/8" tubing. Set packer at 4283 feet, perforated tail to 4294 feet. Opened tool at 11:00 a.m. Faint blow for 30 minutes, then dead. Pulled out with tester. Recovered: 620 feet net rise of fluid; 440 feet mud, 180 feet of mud and acid. Charts: showed tool was open for entire test.
- Set bridge plug at 2500 feet. Ran in with Baker cast iron bridge plug on Lane Wells wire line and set at 2500 feet.
- Perforated 4-1/2" holes at 2370 feet with Lane Wells Gun Perforator.

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- 11- 3-58 Ran in with 8-3/4" bit on 3-1/2" drill pipe. Found cement at 428 feet inside the 10-3/4" casing. Drilled out cement. Found cement below the casing shoe at 450-471'. Cleaned out to 621 feet. Drilled 8-3/4" hole to 954 feet.
- 11- 4-58 Drilled 8-3/4" hole to 2687 feet. Reduced hole from 8-3/4" to 7-7/8" at 2200 feet.
to Totco at 1362 feet 0"-55'; Totco 1952 feet 0"-30'. Mud additives: 600 pounds of
11-10-58 lignite, 100 pounds of Net., 12 sacks of Gel., 50 pounds of Ausbracho and 100 pounds of Supertreat.
- 11-11-58 Drilled 7-7/8" hole to 2755 feet. Twisted off drill pipe - top of fish at 2128 feet.
Ordered fishing tools from Bakersfield. Waited on tools 14 hours. Ran in with a socket and recovered fish.
- 11-12-58 Drilled 7-7/8" hole to 3165 feet. Throw-out clutch shaft broke. Repairing machinery - 9 hours.
- 11-13-58 Drilled 7-7/8" hole to 3597 feet. Repaired rotary hose - 6 1/2 hours. Mud additives:
100 pounds of Supertreat and 5 sacks of Gel.
- 11-14-58 Drilled 7-7/8" hole to 3729 feet. Repaired rotary hose - 6 hours.
to
11-18-58
- 11-19-58 Drilled 7-7/8" hole to 4100 feet. Totco at 4069 feet 0"-45'.
to
11-24-58
- 11-25-58 Drilled 7-7/8" hole to 4230 feet. Repairing light plant - 17 hours. Repairing pump -
to 4 1/2 hours.
11-26-58
- 11-27-58 Drilled 7-7/8" hole to 4442 feet. Repaired hoses and lines to mud pump - 5 hours.
to Drilled 7-7/8" hole to 4446 feet. Twisted off drill pipe. Ran in with a socket and
11-29-58 recovered fish. Drilled 7-7/8" hole to 4529 feet.

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- 12-13-58 Squeezed perforations (2370') with 75 sacks of construction cement. Ran in with (cont.) Halliburton squeeze tool on 2-7/8" tubing. Set tool at 2360'. Displaced cement with 85 cu. ft. of mud. Squeezed perforations with 75 sacks of construction cement treated with 25 CaCl₂.
- 12-14-58 Standing cemented - 16 hours. Ran in the hole with 4-3/8" bit on 2-7/8" tubing. Drilled out cement (2357-2370').
- 12-15-58 Circulated and conditioned mud.
- Ran perforated 4-1/2" holes per foot (2233-2267') with Lane elle Gun Perforator.
- Drill Stem Test No. 1 (2233-2267'). Ran in with Halliburton tester on 2-7/8" tubing. Set packer at 2226 feet, perforated tail to 2237 feet. Opened tool at 8:24 a.m. Light blow 12 minutes, then dead. Reset packer. Tool open 38 minutes. Pulled out with tester. Recovered: 78 feet of mud. Charts: Showed tool was open.
- 12-16-58 Ran in with open end 2-7/8" tubing to 2200 feet. Spooled sand line.
- 12-17-58 Swabbed fluid to 1500 feet. Very small amount of gas showing. Lost swab in the hole. (Only one crew working - remainder of the crew left for holidays.)
- 12-18-58 Fished for swab (only one crew working).
to
12-19-58
- 12-20-58 Shut down.
to
1- 9-59
- 1-10-59 Recovered swab. Swabbed fluid to 2050 feet - no entry. Drilled out bridge plug at 2500 feet. Swabbed fluid to 4300 feet - no entry, only slight amount of gas.
- 1-11-59 Work suspended - rig released.

