

UNITED COMPANY OF OREGON, INC.

WELL & POINT # 1 WELL

TOWNSHIP OF SOUTH RANGE T1 EAST

Section 9, SW SW NW (3848' north, 317' east of SW C)

HARNEY COUNTY, OREGON.

RECEIVED JUL 21 1930

STATE DEPT. OF GEOLOGY & MINERAL INDS.

Burns, Oregon, November 14, 1929

HISTORY OF WELL & POINT # 1 WELL.

OPERATOR *** UNITED COMPANY OF OREGON, INC.

BURNS, AREA, HARNEY COUNTY, OREGON.

SW SW NW SECTION 9 TOWNSHIP OF SOUTH RANGE T1 EAST.

Table with columns DATE, DEPTH, and DEPTH. January 23 -- Started drilling operations. Weather very cold. 24 -- Drilling hole for conductor pipe. 25 -- ? 26 -- ? 27 -- ran 7'4" of 1 3/4 inch surface casing. 28 -- Working on rig; drilling. 29 -- ? 30 -- Drilling at 610'; stuck drill pipe. 31 -- " " 640'; engine trouble.

Table with columns DATE, DEPTH, and DEPTH. February 1 -- Drilling 640--710'; made trip to change bit. 2 -- ? 3 -- ? depth 875' 4 -- depth 1090--1095' hard drilling shut down out of bits. 5 -- DEPTH To DEPTH ---- waiting on bits. 6 -- 1025 1028 7 -- 1028 1040 8 -- 1040 1050 9 -- 1058' 1075 -- mixing mud; reaming 10 -- 1075 1120 11 -- 1120 1275 -- reaming hole down 12 -- 1275 1420 -- mixing mud; repair pump. 13 -- 1420 1517 -- lost circulation; mixing mud and sand; 1 1/2 hr. trip 14 -- 1517 ---- waiting on lost circulation material; hauling wood, work on rig 15 -- 1517 1542 -- mixing mud; going in hole 16 -- 1542 ---- pulled out of hole; waiting on mud & lost circulation material 17 -- ---- waiting on Aquagel & lost circulation material. 18 -- ---- working around rig; waiting on lost circulation material & aquagel 19 -- ---- mixing mud & lost circulation material.

HISTORY OF WELL PAGE 2

Table with columns DATE, DEPTH, and DEPTH. February 20 -- Rigging up to cement for lost circulation; cemented with 40 sacks cement; rigging up pumps. 21 --1542 ---- pumped mud in hole; it failed to fill; pumped grass sacks in hole; trip 22 --1542 ---- Lost circulation. 23 --1542 ---- " " 24 --1542 ---- " " 25 -- 1542 ---- " going into hole; cemented twice with 20 sacks each. 26 --1542 ---- lost circulation; cemented twice with 20 sacks each. 27 --1542 ---- Lost circulation; pumped in Talco wool etc. 28 --1542 ---- Lost circulation; cemented with 40 Sk's

Table with columns DATE, DEPTH, and DEPTH. March 1 -- ---- Filling up hole; mixing mud; waiting on cement. 2 ---- Install water pumps; drilled plug 3 ---- drilled plug; lost circulation cemented again with 20 sacks. 4 ---- cemented with 20 sacks. 5 1642 1555 ---- ran plug 1510; wait for cement set. 6 1555 ---- went in hole with bit; mixing mud. 7 1555 1585 ---- lost circulation; mixed mud & talco wool; cemented with 40 sacks. 8 1585 ---- lost circulation; cemented with 40 Sk-s 9 ---- Cemented with 40 sacks 10 ---- " " 11 ---- " " 12 ---- ? 13 ---- ? 14 ---- ? 15 ---- ? 16 1666- 1601 going in hole to change plug; changed mud 17 1601 1622 trip; reamed 90'; cleaned out under rig for placing blowout prev. reamed hole; lost circulation. 18 1622 ---- tightened transmission; waiting on fuel oil. Ran 20 sacks with 20 sacks O. 19 1622 ---- ran 7 stands in hole to feel for cement; waiting on cement 20 ---- waiting on cement & re-airing rig. 21 ---- " " hooked up blow out preventer; lost circulation 22 1622- 1652 Mixed 40 sacks aquagel; finished drilling plug. 23 1652 1675 Drilling & reaming; waiting on bits. 24 1675 ---- Waiting on bits. 25 1675 1720 Conditioned mud; went in hole reamed 90'

History of well page 3.

Table with columns DATE, DEPTH, and DEPTH. March 26 1720 1720 Lost circulation; pulled out of hole to change bits. 27 1720 1735 Mixed 15 sacks of Aquagel; conditioned mud; pulled 12 stands. lost circulation cemented with 20 sacks. 28 ---- ---- went to bottom to feel for plug. 29 ---- ---- went in hole; drilled plug; lost circulation mixed 20 sacks Tal. 30 ---- ---- Filling up boiler; ran cement jobs of 20 sacks each. 31 ---- ---- went in hole to feel for plug; put on two injector valves. April 1 ---- ---- mixed mud & getting ready to drill plug. Drilled plug; lost circulation. 2 ---- Lost circulation; cemented with 20 & 20 Sk work on gear box; waiting on plug to set; cemented with 20 sacks. 3 ---- Going in hole to feel for plug; mixed 110 sacks aquagel; cemented with 20 sacks twice. 4 ---- Cemented twice with 20 sacks each. 5 ---- ran feed sacks & cemented twice with 20 & 10 sacks each. 6 ---- Cemented at 8:00 with 20 sacks; pulled out of hole; put plug at 1697'. 7 ---- Painting rig; waiting on cement 8 ---- mixed 20 sacks of 'No-Jel' & 20 sacks of P93 clay; drilled plug; lost circulation rolled and dumped in 25 grass sacks 9 ---- Going in hole drilled 6' with lost circulation; pulled out to change bits ran 12 stands in hole. 10 1735 1760 ran 25 grass sacks & ran 25 sacks cement. 11 1760 1784 Mixed mud; mixed 20 sacks 'No-Jel' & 10 P.35; then mixed 10 aquagel & 10 sacks Talco wool; regained circ. made trip; lost circ.; mixed 10 sks. 12 1764 1790 Mixed 10 sacks; lost circ.; made 1/2 trip water for water. 13 1790 1910 Lost circ. 14 1910 1920 Trying to recover lost circ. repairing mud valve; ran cotton balls; mixed 20 sacks; drilled without circulation. 15 1920 1965 Drilling & pumping into formation; trip out of hole; pulled on stuck pipe repair transmission; out of core and made 6" recovery; pulled out of hole. 16 1965 ---- clearing up around rig; waiting on mud. 17 1965 2035 waiting on mud & dry watching; went in hole & mixed mud.

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Table with columns DATE, DEPTH, and DEPTH. April 19 2035 2070 Mixed 50 sacks 'No-Jel'; 20 Sk's P.35; 10 sks. Talco wool; no circ. mixed 5 sacks Talco wool drilled 2 hrs.; lost circ. pulled out to change bits. 20 2070 2078 mixed mud; 1 1/2 trips; mixed mud, hauling mud from ware house; work on water pump; pulled out of hole; mixed 22 sacks of rotary mud; conditioned mud; made 1/2 trip mixed mud & working on lost circ.; trip out of hole; rigging up mud mixer; hauled 150 sacks rotary mud; waiting on mud; rigging up mud gun. 21 ---- ---- mixing mud & lost circ. material; went in hole with open end drill pipe; mixed 29 sacks aquagel; mixed Talco wool & finally got 100' circulation. 22 ---- ---- circulating & working on mud; waiting on mud. 23 ---- ---- Conditioning mud; waiting on mud; mixed one bale of Talco wool & pumped same in hole; lost circulation; mixed 181 sacks 'No-Jel' and 5 bales Talco wool. 24 ---- ---- mixed 50 sacks 'No-Jel' & 2 bales of Talco wool; hooked up water pump drilled 20' with no circulation. 25 2078 2160 Mixed Talco wool; trip & lost circ. 26 2160 2220 mixed 10 sacks '35- mixed 'No-Jel' 27 2220 2270 mixed 20 sacks of 'No-Jel' & 5 Talco wool drilled; lost circ.; mixed 20 sacks 'No-Jel'; trip & mixing mud. 28 2275 2327 going in hole with bit; mixed 20 sacks 'No-Jel'; took core pulled out of hole mixed 20 sacks 'No-Jel'; pulled 12 stands out of hole; completed trip; waiting on mud. 29 ---- ---- dry watch; working on rig; waiting on mud; mixed 40 sacks 'No-Jel. etc. MAY 1 2327 2360 mixed 75 sacks 'No-Jel' lost 2 hrs. mixed 12 sacks of W. D. pulled out of hole with balled up bit; mixed 20 sacks 'No-Jel. 2 2360 2395 3 2360 2365 4 ---- ? 5 ---- ? 6 ---- ? 7 ---- ? 8 ---- ? 9 ---- ? 10 ---- ?

History of well page 5

Table with columns DATE, DEPTH, and DEPTH. May 12 2335 ---- ? 13 ---- ? 14 ---- ? 15 ---- ? 16 ---- ? 17 ---- ? 18 ---- ? 19 2365 2375 ? 20 2375 2385 21 2385 2170 ? 22 ? ? 23 ? ? 24 ? ? 25 ? ? 26 2320 2330 27 2335 2335 28 2335 2380 29 2380 2375 ? 30 2365 2375 ? 31 2370 2375 June 1 2375 2395 2 2395 2420 3 2420 2440 4 2440 2484 5 2484 2814 repair motor & watching 6 2814 ---- repair motor & watching 7 ---- " 8 ---- dry watching & rep airing table motor 9 ---- going in hole repairing rig 10 2814 2827 going in hole; reaming hole; work on pump motor 11 2827 ---- working on pump motor 12 2827 2868 lost 5 hrs. 13 2868 2908 5 1/2 hr trip; new bit 14 2908 2976 8 hrs circulating 15 2976 2985 9 hr trip 7 hrs going in hole for new bit. 16 2985 4035 1 hr. packing pump connection; 3 hrs. circulating; pulled out of hole to core 17 4035 4080 cored 4035 4044; recovered 6"; 5 1/2 hrs trip 18 4080 4128 5 hrs. circulating for sample & repairing pump. 19 4128 4220 2 hrs. on trip 20 4220 4210 5 hr trip; worked on pumps; cleaned pits 21 4210 4215 5 1/2 hrs; completed trip; worked on draw works; repair magneto 22 4215 4219 2 1/2 hrs lost repair motors; put new head in motor 23 4219 4231 5 hrs lost; new rod in pump; mixed 5 sacks aquagel 24 4231 4242 start out of hole 8 hrs lost; jet bits 25 4242 4231 lost 3 hrs; mixed 10 sacks aquagel

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Table with columns DATE, DEPTH, and DEPTH. June 26 4281 4518 lost 4 1/2 hrs. circulating for sample 27 4518 4561 trip; cleaned out pits; waiting on drill pipe 28 4561 ---- set & liners and pistons in pump install partitions in pit 29 4561 ---- repairing 1 1/2" drill pipe; painting pump 30 4561 ---- rig up boiler at Fay #1 to lay down drill pipe JULY 1 4561 ---- laying down drill pipe at Fay #1 well 2 ---- repair rig; waiting on drill pipe 3 ---- unload drill pipe; pick up same & start in hole 4 4561 4723 finished going in hole; mixed mud; put head gasket in pump 5 4723 4837 finished going in hole; mixed mud; put head gasket in pump. lost 4 hours ? 6 4837 4900 repair motor; trip out of hole 7 4900 4917 completed trip; tearing down; broke down drill collars. clean out pits exchange rigs; tearing down. 8 4917 ---- Building sub-structure for new motors 9 ---- working on light plant 10 ---- watching only 11 ---- re-leging derrick to drill deeper 12 ---- working on derrick 13 ---- dry watch only 14 ---- working on derrick 15 ---- install new draw works etc. 16 ---- dry watch only. 17 ---- " " putting light plant together 18 ---- " " Draw works and motors at Ontario 19 ---- ? 20 ---- Dry watch only Trucks lacked proper paper s 21 ---- " " " " " " to travel 22 ---- " " " " " " " 23 ---- " " " " " " " 24 ---- moving Draw works & motors from Ontario 25 ---- rigging up new equipment. 26 ---- " " " " " " " 27 ---- " " " " " " " 28 ---- " " " " " " " 29 ---- " " " " " " " 30 ---- " " " " " " "

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Table with columns DATE, DEPTH, and DEPTH. August 1 4917 ---- getting ready to run pipe 2 ---- circulating; waiting on rotary sprocket; going in hole 3 4917 4948 reaming to bottom 4 4948 5124 working on D. works etc. 7 hrs, 5 5124 5147 fixing brakes & low clutch. 6 5147 5273 Trip; repair chains & pump. 8 hrs. 7 5273 5284 repair pump motor; 10 hrs lost part trip 8 5284 5287 Working on 2 motor; working on light plant 9 5287 5289 1/2 trip; mixed 20 sacks aquagel (losing circ. 10 5288 ---- waiting on mud (full crew) 11 ---- ---- " " moving drill pipe etc. 12 ---- ---- " " mud arrived; mixed new mud. 13 5288 5298 mixed mud etc. 4 hrs. 14 5298 5335 going in hole; mixing mud. 15 5335 5439 losing mud; mixing mud & chopped hay 16 5439 5440 circulating & conditioning mud 17 5440 5455 Trip to change bits; mixing mud. 18 5455 5527 1 1/2 hrs mixing mud. 19 5527 5589 packed pump glands; pulled out of hole to change bits; fixed compound chain 20 5589 5615 1 1/2 hrs mixing mud & fiber lex; 1/2 trip 21 5615 5656 mixing mud & chopped hay; 1/2 trip 22 5656 5668 reamed hole; mixing mud & straw. 23 5668 5695 made trip " " 24 5695 5740 Pulled 10 stands out; waiting on mud 25 5740 5773 waiting on mud; grinding hay; 1/2 trip 26 5773 5815 Pulled 12 stands; reamed 30' 1/2 trip 27 5815 5858 1 1/2 hrs & trip; working on 2 motor mixed 24 sacks of mud. 28 5857 5905 10 hrs. fixing bearing on belt tightener. trip 29 5905 5940 15 1/2 hrs. changing collar on pipe; cleaned out shale pits; 1/2 trip 30 5940 6040 8 1/2 hrs changing collar on drill pipe; circulating for sample 31 6040 6066 7 hrs plus. 1/2 trip; mixed mud; weld tool joints

History of well page 8

Table with columns DATE, DEPTH, and DEPTH. September 10 6480 ---- ran cement for derrick legs; repair rig etc. 11 ---- dry watch; waiting on equipment. 12 ---- " " ran cement for d. legs 13 ---- " " working on motors 14 ---- " " taking off forms (concrete; rep. of 7. Motr 15 ---- " " waiting on equipment. 16 ---- " " moved pump & light plant; hauled rock for cement 17 ---- " " dry watch; cleaning & repairing equipment 18 ---- " " repair & unloading trucks 19 ---- " " dry watch; worked on pumps 20 ---- " " & repair equipment 21 ---- " " " " 22 ---- " " " " 23 ---- " " rigging up; moving drill pipe from Fay #1 well to Reed & potest 24 ---- " " hauling straw & grinding it; waiting on equip. 25 ---- " " dry 26 ---- " " " 27 ---- " " " 28 ---- " " " 29 ---- " " " 30 ---- " " " 31 ---- " " "

History of well page 8

Table with columns DATE, DEPTH, and DEPTH. October 1 6480 ---- ran cement for derrick legs; repair rig etc. 11 ---- dry watch; waiting on equipment. 12 ---- " " ran cement for d. legs 13 ---- " " working on motors 14 ---- " " taking off forms (concrete; rep. of 7. Motr 15 ---- " " waiting on equipment. 16 ---- " " moved pump & light plant; hauled rock for cement 17 ---- " " dry watch; cleaning & repairing equipment 18 ---- " " repair & unloading trucks 19 ---- " " dry watch; worked on pumps 20 ---- " " & repair equipment 21 ---- " " " " 22 ---- " " rigging up; moving drill pipe from Fay #1 well to Reed & potest 23 ---- " " hauling straw & grinding it; waiting on equip. 24 ---- " " dry 25 ---- " " " 26 ---- " " " 27 ---- " " " 28 ---- " " " 29 ---- " " " 30 ---- " " " 31 ---- " " "

Table with columns DATE, DEPTH, and DEPTH. November 5 6480 ---- ran cement for derrick legs; repair rig etc. 11 ---- dry watch; waiting on equipment. 12 ---- " " ran cement for d. legs 13 ---- " " working on motors 14 ---- " " taking off forms (concrete; rep. of 7. Motr 15 ---- " " waiting on equipment. 16 ---- " " moved pump & light plant; hauled rock for cement 17 ---- " " dry watch; cleaning & repairing equipment 18 ---- " " repair & unloading trucks 19 ---- " " dry watch; worked on pumps 20 ---- " " & repair equipment 21 ---- " " " " 22 ---- " " rigging up; moving drill pipe from Fay #1 well to Reed & potest 23 ---- " " hauling straw & grinding it; waiting on equip. 24 ---- " " dry 25 ---- " " " 26 ---- " " " 27 ---- " " " 28 ---- " " " 29 ---- " " " 30 ---- " " "

Burns November 15/29