

31-9-18W

#1 PYWELL DAILY DRILLING REPORT

API 15-163-22,866

NE SE NE SEC.31, T9S-R18W

LSE/WELL#6736/1

ROOKS COUNTY, KANSAS

- 02-26-86 Moved in Jay-Lan Corporation rotary and rigged up. Set 5 joints of 8 5/8" surface casing @ 227' with 135 sx 60/40 Pozmix 3% gel, 2% c.c. Plug down at 6:30 p.m.
- 02-27-86 Shut down. To start drilling at 7:00 a.m. 2-28-86.
- 02-28-86 Drilled cement plug at 9:00 a.m. Drilling ahead at 900' at 3:00 p.m.
- 03-01-86 Drilling ahead at 1760' at 7:00 a.m. Anhydrite 1600'-1649'. Elevation 2181 KB.
- 03-02-86 Drilling ahead at 2785' at 7:00 a.m.
- 03-03-86 Drilling ahead at 3350' at 7:00 a.m.
Formation Tops: Heebner 3343'
Toronto 3367'
Lansing 3387' (-1206)
The Lansing top is 5' high to the #1 Nuti (R P Nixon Oper.) the producer 2 locations east, and 3' low to the #1 Pywell (E K Edminston), the abandoned producer one location north. Drilling ahead @ 3450' at 11:30 a.m.
- 03-04-86 Short tripping for log at RTD 3735' at 7:00 a.m.
Log Tops: Anhydrite 1602'-1638'
Heebner 3344'
Toronto 3368'
Lansing 3384' (-1203)
The Lansing top is flat with the abandoned producer one location north and 8' high to the producer 2 locations east.
Base Kansas City 3606'
Conglomerate 3627'
Simpson Dolomite 3686' (-1505)
This is 16' high to the producer 2 locations east and 3' low to the dry hole one location west. The abandoned producer one location north contained no Simpson Dolomite.
Arbuckle 3720' (-1539)
The Arbuckle did not have any shows and does not produce in the immediate area. Had good show in Simpson Dolomite and two zones in the Kansas City. Based on its structural position, shows in the Kansas City and Simpson Dolomite, and favorable electric log calculations, 4 1/2" casing was cemented for further testing. Geological report to follow.
Ran 92 joints of 4 1/2" production casing to 3734'. Port collar @ 1622'. Basket @ 1662'. 125 sx Surefill and 500 gals mud sweep. Plug down at 8:30 p.m. 18' shoe joint. Cement by B J Titan Services.

R. P. Nixon, Geologist & Oil Producer

207 West Twelfth

HAYS, KANSAS 67601

Phone: 913-628-3834

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- 03-19-86 Moved in and rigged up Production Drilling Inc's Rig #2. Swabbed hole down to 3250'. Ran Correlation log. TD was found @ 3709'. Perforated with 3' gun loaded 4 per foot at 3687.5' - 3690.5' (Simpson Dolomite). Swabbed hole dry. Let set 1/2 hour - 5 gal of fluid in hole with no show of oil. Dumped 1 bbl 15% INS Acid on bottom & 30 bbl salt water. To let set overnight.
- 03-20-86 1700' of fluid in hole. Swabbed hole down. Zone dried up. Perforated @ 3703-05' with 4 holes per foot. Swabbed hole down. Shut down for lunch (1/2 hour) fluid was 1200' from surface. Made one swab test with no show of oil. Set CIBP @ 3490'. Perforated 1 hole LE @ 3385.5' & 3428'. Swabbed hole down. Acidized with 2000 gals of 28% Non E acid and overflushed with 2000 gals SW. To let set overnight.
- 03-21-86 Fluid 1000' from surface. Swabbed hole down. Recovered 40 bbls of 150 bbl load. On 3 hr test fluid decreased to 1/2 bbl/hour, with no show oil. Fluid contaminated with drilling mud. Ran Acid Channel Survey. Had no cement behind pipe from 3400' to surface. Had weak cement from 3400' to TD. Drove CIBP to bottom of hole. To run tools & re-cement 4 1/2" casing in morning.
- 03-22-86 Ran 2 3/8" tubing and Baker Model R-4 packer to 3650'. Mixed 50 sx common cement and pumped into perforations. Zone took all cement on vacuum. Mixed 50 more sx common cement and pumped into perforations. Zone on vacuum. Mixed 100 sx common cement and pumped all but 2 bbls of slurry into zone. Staged for 2 1/2 hours. Squeezed perforations @ 2500#'s psi for 15 minutes without pressure loss. Released tool and re-positioned packer between Kansas City zones. Pumped into lower zones with not communication between zones. Spotted 25sx across zone. Released tool and set 45' above top Kansas City zone and mixed 200 sx of common cement and pumped into zones. Had no lifting pressure or outstanding flow rate. Staged slurry for 2 hours, released tool and re-positioned 60' up the hole. Washed remaining cement from hole and circulated clean. Re-set tool and pressured up to 450#'s psi. Shut in over weekend with no pressure loss.

MAY 16 1986
NICHITA BRW

R. P. Nixon, Geologist & Oil Producer

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- 03-24-86 Released tool and pulled tubing from hole. Swabbed hole down. Drilled 65' of cement and shut down for evening.
- 03-25-86 Drilled 85' of cement to 135'. Shut down for evening.
- 03-26-86 Drilled out 45' of cement and fell through. Ran tools to top of bottom section of cement and drilled out 35' to TD of 3695'+. Ran 16 bbls of salt water in hole to prepare for cement bond log in morning. To let set overnight.
- 03-27-86 Ran tools and made 10' more hole. Ran cement bond log by Mercury Wireline and found TD at 3696'. Perforated at 3688'-90' with 4 holes per foot. Swabbed hole down and dried up formation. Ran 2 3/8" tubing and Baker Mod R Packer to treat zone in morning.
- 03-28-86 Ran packer to 3691'. Swabbed hole through tubing until dry. Spotted acid across perforations. Set tool at 3661' to treat perforations @ 3688'-90' (Simpson-Dolomite). Treated with 500 gals 15% INS acid. Ended treatment with 250-300#'s psi with flow rate of 1 bbl per minute, on a vacuum in 4 minutes. Swabbed hole down. On 1st 1/2 hour test zone produced 75' of fluid 35-40% oil, on 2nd 1/2 hour test zone produced 150' of fluid 100% oil. Retreated with 1000 gals 15% INS acid and overflushed with 1000 gals salt water. To let set over Easter weekend.
- 03-31-86 Fluid down 900' from surface. Swabbed well down through tubing. Ran one 1/2 hour test, zone produced 250' of fluid with very good show of oil. Recovered 15 bbls of 48 bbl load. Released tool and laid down tubing. Swabbed well down through casing. On 2 hour swab test zone produced 2 bbls of fluid per hour 50% oil and 50% spent acid water. Set CIBP @ 3480'. Perforated with 1 hole LE @ 3385.5 & 3428' (Lansing-Kansas City). Acidized with 1500 gals 28% Non E acid and overflushed with same amount of salt water. To let set overnight.

MAY 16 1986

LANSING-KANSAS CITY
NICHOLS BRANCH

R. P. Nixon Operations

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04-01-86 Fluid down 700' from surface. Swabbed hole down. Recovered 65 bbls of 122 bbl load. On 4 hour test zones produced 3 1/2 bbls of fluid per hour, 75% oil and 25% spent acid water. Rigged up tools and drove CIBP to bottom (3696'). Perforated out LE shots with 2' guns loaded 2 per foot. To have cable tools hang well on pump. Pump test to follow.

04-08-86 Put on pump.

05-09-86 TOP STAGE
Express Well Service Inc ran Pengo Bridge plug and set @ 1736'. Tested bridge plug. Opened Port Collar @ 1622' and cemented 4 1/2" annulus with 400 sacks of 50/50 Pozmix, 6% gel. Cement did circulate. Retrieved bridge plug and ran well back in.

MAY 10 1986

SURVEY