

Operator Name Oil Producers, Inc. of Lease Name Arnhold Well# 2 SEC 16 TWP 13 RGE 18 East West

WELL LOG

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken Yes No
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No

Formation Description
 Log Sample

DST #1 3466-3512 3"-45"-30"-45"
 Lansing B, C, D Zones recovered 360' gas in pipe
 60' heavy ogcm, 25% oil 26% gas, 60' gmc, 42% oil
 28% gas, 60' gmo 58% oil, 22% gas
 IFP 32-34#
 ISIP 204# IHP 1858 #
 FFP 64-64# FHP 1802#
 FSIP 193# TEMP 104°F

| Name | Top | Bottom |
|------------|------|--------|
| Log | | |
| Anhydrite | 1428 | +725 |
| Topeka | 3148 | -995 |
| Queen Hill | 3330 | -1177 |
| Heebner | 3407 | -1254 |
| Toronto | 3428 | -1275 |
| Lansing | 3456 | -1303 |
| Base K.C. | 3688 | -1535 |
| Arbuckle | 3718 | -1565 |
| T.D. | 3743 | -1490 |

DST #2 3568-3617' 30"-30"-30"-30"
 Lansing H, I, recovered 45' mud w/show of oil
 IFP 32-32#
 ISIP 708# IHP 1890#
 FFP 43-43# FHP 1890#
 FSIP 453# TEMP 106°F

| Name | Top | Bottom |
|------------|------|--------|
| Sample | | |
| Anhydrite | 1429 | +724 |
| Topeka | 3151 | -998 |
| Queen Hill | 3332 | -1179 |
| Heener | 3411 | -1258 |
| Toronto | 3431 | -1278 |
| Lansing | 3459 | -1306 |
| Base K.C. | 3689 | -1536 |
| Arbuckle | 3718 | -1566 |
| T.D. | 3743 | -1590 |

DST #1 Samples
 cream find xln fossiliferous to very slightly oolitic ls. with fair to good foss. and ooc. porosity- fair show of live brown slightly gassy free oil-no odor-faint fluorescence - spotty light brown stain in dry samples

DST #2 Samples
 cream fine xln fossiliferous to slightly oolitic ls with scattered fair to good foss. to interoolitic to fracture porosity fair to good show of dark brown free oil faint odor no fluorescence very scattered spotty light brown stain in dry samples

| CASING RECORD <input type="checkbox"/> new <input checked="" type="checkbox"/> used Production | | | | | | | |
|--|--|---------------------------|----------------|--|----------------|--------------|----------------------------|
| Report all strings set - conductor, surface, intermediate, production, etc. | | | | | | | |
| Purpose of string | size hole drilled | size casing set (in O.D.) | weight lbs/ft. | setting depth | type of cement | # sacks used | type and percent additives |
| Surface | | 8 5/8" | 23# | 546 | Class A | 100 | 3% CaCl |
| | | | | | 65.35 lite | 200 | 6% gel 3%CaCl |
| Production | | 4 1/2" | 9.5 | 3742 | Type A | 125 | 2% gel 3% CaCl |
| PERFORATION RECORD | | | | Acid, Fracture, Shot, Cement Squeeze Record | | | |
| shots per foot | specify footage of each interval perforated | | | (amount and kind of material used) | | | Depth |
| 2 | 3482-3484 | | | Acid 1500 gal 15% mA and 16 7/8" | | | 3482-3500 |
| 1 | 3496-3500 | | | ball sealers, 2000 gal gelled | | | |
| 4 holes total | 1440 to surface | | | 15% non-emul. Acid, 1000 gal | | | |
| | | | | 15% non-emul. KCL water | | | |
| | | | | Squeeze 300 sx common 8% gel 50 sx common | | | |
| TUBING RECORD | | | | 8% gel 2% CaCl | | | |
| size 2 3/8 set at 3533.16 | | packer at | | Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| Date of First Production | Producing method <input type="checkbox"/> flowing <input checked="" type="checkbox"/> pumping <input type="checkbox"/> gas lift <input type="checkbox"/> Other (explain) | | | | | | |
| poss. June 1984 | | | | | | | |
| Estimated Production Per 24 Hours | Oil | Gas | Water | Gas-Oil Ratio | Gravity | | |
| | Not Avail yet | | | | | | |
| | Bbls | MCF | Bbls | | | | |

Disposition of gas: vented sold used on lease
 METHOD OF COMPLETION open hole perforation other (specify) _____
 Dually Completed.
 Commingled

