Kansas Corporation Commission One Point Stabilized Open Flow or Deliverability Test

| Type Test: | | | | | | (See Instructions on Reverse Side) | | | | | | | | |
|--|---------------|-------------------------------|--------------------------------------|--|--|---|----------------------------|--|-----------------------------|-------------------|---------------------|------------------------------|--|--|
| Xo | pen F | low | | | | | | | | | | | | |
| Deliverabilty | | | | | Test Date: AUGUST 24, 1999 | | | | Pl No. 15 | | _ | | | |
| | | | | | AL | JGUS1 24 | 1999 | · | | <u>023</u> 2 | 2035 <i>5</i> | 0000 | | |
| Compan | • | ודט | LLS OIL | s. ሮለፍ | | | Lease RAT | | | | | Well Number | | |
| County | CAN | пт | | | Castian | - | | | | | | 1 | | |
| COUNTY Location CHEYENNE SWSW/4 | | | | Section 23 | | | | RNG (| = | • | Acres Attributed | | | |
| Field | | | | | Reservo | oir | - | | | thering Conne | ection | | | |
| EURI | KA | | | | NIC | BRARA | | | aus at | ancing Comi | WNL | G | | |
| Completi | ion Da | \mathcal{A}^{te} | /18/99 | 7 | Plug Bad | ck Total Dep | | 53 | Packer | Set at | NI/A | <u> </u> | | |
| Casing S | Size | / 11 | Weigh | | Internal | Diameter | , Set | ر t at | Perl | orations | , To | | | |
| Tubing S | 7/2 | <u>2</u> | , Weigh | 10,3 " | | 4.050 | | 1793 | | | 26 | 1646' | | |
| rubing 0 | ື້ງ. | 3/8 | ,, weigi | "47# | internal | Diameter <i>1,995</i> | // Set | 1 at 1698, 7. | Perl | orations | То | | | |
| Type Cor | | | | | Type Flu | id Production | | 1618,1 | | Init of Traveling | Diversió 6 | | | |
| SING | | • | , | | . , , , , , , | GAS | | | rump c | raveling | Plunger? Yes |)/ No | | |
| Producin | g Thru | (Anr | nulus / Tubing |) | % Carbo | n Dioxide | | | % Nitro | gen | Gas C | Gravity - G | | |
| ANNULUS | | | | | | <i>,369%</i> | | | 3 3 | .874% | | ,5972 | | |
| Vertical D | . , | , | 1 | | | Press | ure Taps | | | | | Run) (Prover) Size | | |
| | | <u>8</u> : | 3 <i>0</i> | | | FLA | NGE | | | | 2" | FLOW PROVER | | |
| Pressure | Buildu | ıp: | Shut in <u>AU</u> | GUST 20,19 | 99 at 8 | 3:00 | (AM) (PM |) Taken_A | UGUST | 24, 19 | 99 at 10:15 | (AM) (PM) | | |
| Well on L | | | | | | | | | | | | O (• • •) | | |
| | | | Jianeu | | <i>a</i> r | | . (AM) (PM |) laken | | 19 | at | (AM) (PM) | | |
| | Γ | | Circle one: | | | OBSERVE | ED SURFAC | CE DATA | | | Duration of Shu | t-in Hours | | |
| Static / | 1 | ifice Meter | | Pressure Differential | Flowing | Well Head | Wellhoo | asing d Pressure | Tubing Wellhead Pressure | | Duration (Hours) | Liquid Produced (Barrels) | | |
| Dynamic Property | i | | | sure in (h) | Temperature t | Temperature t | · • | Wellhead Pressure (P _w) or (P ₁) or (P _c) | | or (P,) or (P,) | | | | |
| | | | psig | Inches H ₂ 0 | | ` | psig | psia | psig | psia | | .= | | |
| Shut-In | BLA | NK. | 205 | | | | 205 | 218 | | | | | | |
| Flow | $11/\epsilon$ | 54 | 54 | | 84 | 84 | 54 | 67 | | | 24 | 0 | | |
| | | | | | | FLOW STR | | RIBUTES | | | | | | |
| Plate | | | Circle one: | Press | Cons | | Flowing | | | | | - Flancian | | |
| Coefficient (F _b) (F _p) Mcfd | | Meter or Prover Pressure psia | | Extension V P _m x H _w | Grav Fact | ´ 1 | Temperature | Devia Fac | tor R (Mcfd) | | GOR (Cubic F |) Elvid | | |
| | | | | | F | , | Factor F _{ft} | F, | | | Barrel | Gravity | | |
| | | | | | 1 1 | 201 | | 1 00 | | | | G _m | | |
| .500 | 0 | | 67 | | 1.2 | | .9777 | 1.00 | | 42 | | .6 | | |
| | | | | | (OPEN FL | OW) (DELIV | | | | | (P |) ² = 0.207 | | |
| $\frac{1}{c}$) ² = $\frac{47}{}$ | 524 | <u>_:</u> _ | (P _w) ² = | | P _d = | 9 | % (| P _c - 13+++++++++++++++++++++++++++++++++++ | 14.4 = <u>2</u> | 19.4 : | |) ² = | | |
| (P _c) ² - (F |)2 | (P | _e)² - (P _w)² | Choose formula 1 or 2: 1. $P_c^2 - P_a^2$ | LOG of | | , | essure Curve | | ГЭ | | Open Flow | | |
| | | • | c, (, M, | 2. P ₂ -P ₂ | formula 1. or 2. | | 1 | ppe = "n" - or | n x | LOG | Antilog | Deliverability | | |
| or $(P_c)^2 - (P_d)^2$ | | | | ivided by: P2 - P2 | and divide by: | P _c ² - P _w ² | Assigned Standard Slope | | | | . vinnog | Equals R x Antilog Mcfd | | |
| 4735 | 5 | | 43035 | 1.1003 | | .0415 | | .66 | | 0274 | 1.065 | 45 | | |
| | | | | | | | | | | | | | | |
| pen Flow 45 Mcfd @ 14.65 | | | psia | psia Deliverability | | | Mcfd @ 14.65 psia | | | | | | | |
| The | nderei | nned | authority on t | | | on the think | · | | | | 129/52 | ्यामार्गाञ्चाति । | | |
| | | | | true and corre | | | duly autho | rized to mak | | | that he has know | vjedge of the facts st | | |
| | | | • | | | | | auy or . | | · | ^^5 | , 19 | | |
| | | | Witness (if | any) | | | · <u>-</u> | PELIC | AN HI | LLS OIL 8 | | | | |
| | | | ···· | •• | | | | KENDA | יום דו | | ompany | | | |
| | | | For Commi | ssion | | | - | KENDA | نلک بین | Check | | AND THE RESERVE | | |
| | | | | | | | | | | | | V4 (O) (4 () | | |

| exempt status and that the fo | under penalty or perjury under the laws of the state of Kansas that I am authorized to request under Rule K.A.R. 82-3-304 on behalf of the operator Pelican Hils Oil + Gras pregoing information and statements contained on this application form are true and correct to knowledge and belief based upon gas production records and records of equipment installa- |
|----------------------------------|--|
| tion and/or of I hereby re | type completion or upon use of the gas well herein named. equest a permanent exemption from open flow testing for the $Ra+h$ H e grounds that said well: |
| | is a coalbed methane producer is cycled on plunger lift due to water is a source of natural gas for injection into an oil reservoir undergoing ER is on vacuum at the present time; KCC approval Docket No. x is incapable of producing at a daily rate in excess of 150 mcf/D |
| | |
| | Signature: 1.2. Resolution Title: TECHNICAL ENGINEER |

Instructions:

All active gas wells must have at least an original G-2 form on file with the conservation division. If a gas well meets the eligibility criteria set out in KCC regulation K.A.R. 82-3-304, the operator may complete the statement provided above in order to obtain a testing exemption.

At some point during the succeeding calendar year, wellhead shut-in pressure shall be measured after a minimum of 24 hours shut-in/buildup time and shall be reported on the front side of this form under "observed surface data." Shut-in pressure shall thereafter be reported yearly in the same manner.

The G-2 form conveying the newest shut-in pressure reading shall be filed with the Wichita office no later than thirty (30) days after the taking of the pressure reading. The form must be signed and dated on the front side as though it was a verified report of test results.