

Kansas Corporation Commission One Point Stabilized Open Flow or Deliverability Test

Form G 2
(Rev. 7/03)

Type Test:

- Open Flow
 Deliverability

Test Date: **11/07/2012** API No. **15081219270000**

| | | | | | | |
|---|---|--|---------------------------------|---|---|------------------------------|
| Company OXY USA Inc | | Lease LANGBOTHAM 5 | | | Well Number | |
| County Haskell | Location 330' FSL & 1070' FWL | Section 3 | TWP 30S | RNG (E/W) 32W | Acres Attributed 640 | |
| Field LOCKPORT | | Reservoir St Louis | | Gas Gathering Connection Oneok Field Services | | |
| Completion Date 02/11/2011 | | Plug Back Total Depth 5,634' | | Packer Set at | | |
| Casing Size 5 1/2" | Weight 17.0# | Internal Diameter 4.892" | Set at 5,688' | Perforations 5,552' | To 5,561' | |
| Tubing Size 2 3/8" | Weight 4.7# | Internal Diameter 1.995" | Set at 5,612' | Perforations | To | |
| Type Completion (Describe) SINGLE-GAS | Type Fluid Production OIL/WATER | | Pump Unit or Traveling Plunger? | | Yes / No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| Producing Thru (Annulus / Tubing) Annulus | | % Carbon Dioxide 0.083% | | % Nitrogen 11.866% | | Gas Gravity Gg 0.7 |
| Vertical Depth (H) 5,557' | | Pressure Taps Flange | | (Meter Run) (Prover) Size 3.068" | | |
| Pressure Buildup: Shut in 11/04 20 12 at 9:00 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM Taken 11/07 20 12 at 9:00 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM | | | | | | |
| Well on Line: Started 11/06 20 12 at 9:00 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM Taken 11/07 20 12 at 9:00 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM | | | | | | |

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OBSERVED SURFACE DATA

Duration of Shut in 72 Hours

| Static / Dynamic Property | Orifice Size (Inches) | Circle one: Meter or Prover Pressure psig (Pm) | Pressure Differential in Inches H ₂ O | Flowing Temperature t | Well Head Temperature t | Casing Wellhead Pressure (P _w) or (P ₁) or (P ₂) | | Tubing Wellhead Pressure (P _w) or (P ₁) or (P ₂) | | Duration (Hours) | Liquid Produced (Barrels) |
|---------------------------|-----------------------|--|--|-----------------------|-------------------------|--|--------------|--|--------------|------------------|---------------------------|
| | | | | | | psig | psia | psig | psia | | |
| Shut In | | | | | | 330.0 | 344.4 | 110.0 | 124 | 72 | 0 |
| Flow | 1.500 | 34 | 3.4 | 71 | 71 | 300.0 | 314.4 | 110.0 | 124.4 | 24 | 0 |

FLOW STREAM ATTRIBUTES

| Plate Coefficient (F _b) (F _p) Mcfd | Circle one: Meter or Prover Pressure psia | Press Extension $\sqrt{P_m \times h}$ | Gravity Factor F _g | Flowing Temperature Factor F _t | Deviation Factor F _{pv} | Metered Flow R (Mcfd) | GOR (Cubic Feet/Barrel) | Flowing Fluid Gravity G _m |
|--|---|---------------------------------------|-------------------------------|---|----------------------------------|-----------------------|-------------------------|--------------------------------------|
| 11.4100 | 48.4 | 12.83 | 1.1952 | 0.9896 | 1.0039 | 174 | None | 0.717 |

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = **118.6** : (P_w)² = **98.8** : P_d = _____ % (P_c 14.4) + 14.4 = _____ : (P_a)² = **0.207**
(P_d)² = **0**

| (P _c) ² (P _a) ² or (P _c) ² (P _d) ² | (P _c) ² (P _w) ² | Choose Formula 1 or 2: 1. P _c ² P _a ² 2. P _c ² P _d ² divided by: P _c ² P _w ² | LOG of formula 1. or 2. and divide by: | Backpressure Curve Slope = "n" or Assigned Standard Slope | n x LOG | Antilog | Open Flow Deliverability Equals R x Antilog (Mcfd) |
|--|---|---|--|---|---------------|---------------|--|
| 118.4 | 19.8 | 5.9764 | 0.7764 | 0.6305 | 0.4895 | 3.0867 | 537 |

Open Flow **537** Mcfd @ 14.65 psia Deliverability Mcfd @ 14.65 psia

The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct. Executed this the 13 day of November, 2012

Witness

For Commission

OXY USA INC
For Company

David Ogden - OXY USA Inc.
Checked by