

**KANSAS CORPORATION COMMISSION**  
**ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST**

Form G-2  
(Rev. 8/99)

Type Test

- Open Flow  
 Deliverability

Test Date: **3/20/15**

API No. 15- **18720667-0000**

Company <b>Kerr McGee Oil &amp; Gas Onshore LP</b>		Lease <b>Scott</b>		Well Number <b>21-1</b>	
County <b>Stanton</b>	Location <b>1700' FNL &amp; 400' FEL</b>	Section <b>21</b>	TWP <b>29S</b>	RNGE (E/W) <b>41W</b>	Acres Attributed
Field <b>Arroyo</b>	Reservoir <b>Morrow</b>	Gas Gathering Connection <b>APC</b>			
Completion Date <b>5/10/1993</b>	Plug Back Total Depth <b>5882</b>	Tubing Anchor <b>5246</b>			
Casing Size <b>5.5</b>	Weight <b>14</b>	Internal Diameter <b>5.012</b>	Set at	Perforations <b>5285</b>	To <b>5449</b>
Tubing Size <b>2.875</b>	Weight <b>6.5</b>	Internal Diameter <b>2.441</b>	Set at <b>5500</b>	Perforations <b>NA</b>	To <b>NA</b>
Type Completion (Describe) <b>Morrow</b>	Type Fluid Production <b>Oil / Water</b>	Pump Unit or Traveling Plunger? <b>PUMPING UNIT</b>	Yes / No <b>PUMP</b>		
Producing Thru (Annulus / Casing) <b>CSG</b>	% Carbon Dioxide <b>0.887</b>	% Nitrogen <b>7.176</b>	Gas Gravity - G <sub>g</sub> <b>0.852</b>		
Vertical Depth (H) <b>5367</b>	Pressure Taps <b>Flange</b>	(Meter Run) <b>X</b>	(PROVER)	Size <b>4.026</b>	
Pressure Buildup: Well on Line:	Shut in Started	<b>03/19/15</b> <b>9:45 AM</b>	(AM)(PM) (AM)(PM)	Taken Taken	<b>03/20/15</b> <b>9:45 AM</b> (AM)(PM) (AM)(PM)

**OBSERVED SURFACE DATA**

Duration of Shut-in **24 Hours**

Static / Dynamic Property	Orifice Size Inches	Circle One: Meter or Prover Pressure psig	Pressure Differential in (h) Inches H <sub>2</sub> O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>i</sub> ) or (P <sub>e</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>i</sub> ) or (P <sub>e</sub> )		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						6.31	20.71	PUMP		24	0
Flow	0.500	NA	NA	NA	NA	NA	0	PUMP		NA	0

**FLOW STREAM ATTRIBUTES**

Plate Coefficient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd	Circle One: Meter or Prover Pressure psia	Pressure Extension Sqrt ((Pm)(Hw))	Gravity Factor F <sub>g</sub>	Flowing Temperature Factor F <sub>t</sub>	Deviation Factor F <sub>pv</sub>	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G <sub>m</sub>
1.212	14.4	0	1.083	1.063	1.000	0	0	0.000

**(OPEN FLOW) (DELIVERABILITY) CALCULATIONS**

(P<sub>c</sub>)<sup>2</sup>= 0.429      (P<sub>w</sub>)<sup>2</sup>= 0      P<sub>d</sub>=      %      (P<sub>c</sub>-14.4)+14.4=           (P<sub>w</sub>)<sup>2</sup>=0.207  
(P<sub>d</sub>)<sup>2</sup>=     

(P <sub>c</sub> ) <sup>2</sup> -(P <sub>d</sub> ) <sup>2</sup> or (P <sub>c</sub> ) <sup>2</sup> -(P <sub>w</sub> ) <sup>2</sup>	(P <sub>c</sub> ) <sup>2</sup> -(P <sub>w</sub> ) <sup>2</sup>	Choose formula 1 or 2: 1. P <sub>c</sub> <sup>2</sup> -P <sub>d</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> -P <sub>w</sub> <sup>2</sup> divided by P <sub>c</sub> <sup>2</sup> -P <sub>w</sub> <sup>2</sup>	LOG of formula 1. or 2. (P <sub>c</sub> <sup>2</sup> -P <sub>w</sub> <sup>2</sup> ) and divide by:	Backpressure Curve Slope = "n" or Assigned Standard Slope	n x LOG()	Antilog	Open Flow Deliverability Equals R x Antilog Mcfd
0.222	0.429	0.517	-0.287	0.850	-0.244	0.57	0

Open Flow

0 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 20 th day of March 2015

Witness (if any)

For Commission

Received  
KANSAS CORPORATION COMMISSION

APR 07 2015  
CONSERVATION DIVISION  
WICHITA, KS

Thomas L. Walsh  
For Company

Checked by

KCC WICHITA

MAY 11 2015 5-11-15

RECEIVED

I declare under penalty or perjury under the laws of the state of Kansas that I am an exempt status under Rule K.A.R. 82-3-304 on behalf of the operator KERR MCGEE OIL & GAS and that the foregoing information and statements contained on this application form are true and correct to the best of my knowledge and belief based upon gas production records and records of equipment installation and/or of type completion or upon use of the gas well herein named.

I hereby request a permanent exemption from open flow testing for the SCOTT 21-1 gas well on the grounds that said well:

(Check One)

- 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 vacuume at the present time; KCC approval Docket No. \_\_\_\_\_
- is incapable of producing at a daily rate in excess of 150 mcf/D

Date: 4/1/15

Signature: Madeleine Baker

Title: PRODUCTION ENGINEER

**Instructions** All active gas wells must have at least one 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.

Received  
KANSAS DEPARTMENT OF REVENUE  
DIVISION OF OIL & GAS  
APR 1 2015