KANSAS CORPORATION COMMISSION
ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Form G-2
(Rev. 8/98)

(See Instructions of Reverse Side)

Type Test
- [ ] Open Flow
- [ ] Deliverability

Test Date: 3/21/15

API No. 15- 18721212 -0000

Company	Lease	Well Number
Kerr McGee Oil & Gas Onshore LP	Santa Fe	21-3

County	Location	Section	TWP	RNGE (E/W)	Acres Attributed
Stanton	330 FEL & 660' FSL	21	29S	41W	

Field	Reservoir	Gas Gathering Connection
Arroyo	Morrow	APC

Completion Date	Plug Back Total Depth	Tubing Anchor
4/1/2013	5546	5334

Casing Size	Weight	Interenal Diameter	Set at	Perforations	To
5.5	15.5	4.95		5386	5470

Tubing Size	Weight	Interenal Diameter	Set at	Perforations	To
2.375	4.7	1.995	5494	NA	NA

Type Completion (Describe)	Type Fluid Production	Pump Unit or Traveling Plunger?	Yes / No
Morrow	Oil / Water	PUMPING UNIT	PUMP

Producing Thru (Annulus / Casing)	% Carbon Dioxide	% Nitrogen	Gas Gravity - G_g
CSG	1.512	2.631	1.288

Vertical Depth (H)	Pressure Taps	(Meter Run)	(PROVER)	Size
5428	Flange	x		2.067

Pressure Buildup:	Shut in 03/20/15	9:45 AM	(AM)(PM)	Taken 03/21/15	9:45 AM	(AM)(PM)
Well on Line:	Started		(AM)(PM)	Taken		(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_2O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P_w) or (P_t) or (P_c) psig	Casing psia	Tubing Wellhead Pressure (P_w) or (P_t) or (P_c) psig	Tubing psia	Duration (Hours)	Liquid Produced (Barrels)
Shut-In						12.8	27.2	PUMP		24	0
Flow	0.500	NA	NA	NA	NA	NA	0	PUMP		NA	0

FLOW STREAM ATTRIBUTES

Plate Coefficient (F_b) (F_p) Mcfd	Circle One: Meter or Prover Pressure psia	Pressure Extension Sqrt ((Pm)(Hw))	Gravity Factor F_g	Flowing Temperature Factor F_{ft}	Deviation Factor F_{pv}	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G_m
1.219	14.4	0	0.881	1.063	1.000	0	0	0.000

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

$(P_c)^2$= 0.74 $(P_w)^2$= 0 P_d= % $(P_c-14.4)+14.4$= $(P_w)^2$=0.207 $(P_d)^2$=

$(P_c)^2-(P_a)^2$ 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: $(P_c^2-P_w^2)$	Backpressure Curve Slope = "n" ------ or ------ Assigned Standard Slope	n x LOG( )	Antilog	Open Flow Deliverability Equals R x Antilog Mcfd
0.533	0.740	0.72	-0.143	0.850	-0.122	0.756	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 21 th day of March 2015

Witness (if any)

For Commission

Thomas L. Walsh
For Company

Checked by

Received
KANSAS CORPORATION COMMISSION
APR 07 2015
CONSERVATION DIVISION
WICHITA, KS

KCC WICHITA
MAY 11 2015
RECEIVED
5-11-15

Form G-2
(Rev: 8/98)

I declare under penalty or perjury under the laws of the state of Kansas that I am aut
exempt status under Rule K.A.R. 82-3-304 on behalf of the operator Kerr McGee Oil & Gas Onshore LP
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 herin named.

I hereby request a permanent exemption form open flow testing for the Santa Fe 21-3 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: Madeline Bell

Title: Production Engineer

Instructions All active gas wells must have at least on 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 calender 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 therafter be reported yearley 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.