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

Type Test			ONL	i Olivi Ol		ructions of Reve		LLIVLINADIL	111 1231		Form G	-2
Type rest	╁	Open Flov	v		(366 11/30	UCIONS OF NEW	erae alue)				(Rev; 8/	39)
	1	Deliverabi			Test Date:	03/18/15		API No. <b>15</b> -	18720687 -	.0000		
Company	Ī					Lease					Well Number	
Anadarko E	:&	P Onshor	e LLC / Kerr I	McGee_		Arnold					12-1	
County			Location			Section		TWP		RNGE (E/W)	Ac	res Attributed
Stanton	Ļ	<del></del>	4290' FSL &		<u></u>	12	<del> </del>	298		41W		
Field	-			Reservoir Morrow				Gas Gathering C	onnection DCP			
Arroyo  Completion Date	_			Plug Back Tot	al Donth				Tubing Ancho	.r	-	
09/28/93	1			Ting Back Tol	5674				Tubing Anone	5379		
Casing Size	Ì			Weight		Interenal Diam	eter	Set at		Perforations	To	
5.5		14				5.012		5674		5446	5482	
Tubing Size		Weight				Interenal Diameter		Set at	Perforations			
2.875	<del> </del>			<u>6.5</u>		2.441		5500		NA	NA	
Type Completior Morrow	ן (נ	(Describe) Type Fluid P Oil / Wat						Pump Unit or Traveling Plunger PUMPING UNIT		7	Yes / No PUMP	
Producing Thru	(Αr	nulus / Casing	3)		% Carbon Dio	xide		% Nitrogen		Gas Gravity -	G <sub>g</sub>	
CSG		<u> </u>			2.047			<u>7.536</u>		<u>1.182</u>		
Vertical Depth (F	1)				Pressure Taps	3		(Meter Run)		(PROVER)	Size	
5464 Pressure Buildur	<u> </u>		Shut in	03/17/15	Flange 9:00 AM		(AM)(PM)	X	03/18/15	9:00 AM	2.067	(AM)(PM)
Pressure Buildup Well on Line:	p.		Started		. 9,00 AW		(AM)(PM)	Taken		3.00 AW		(AM)(FM)
			<u></u>									
		<del>-</del>		Pressure	OBSE	RVED SURI	FACE DATA		Duration of Shu		24	Hours
Static /		Orifice	Circle One: Meter or	Differential	Flowing	Well Head		asing ad Pressure	Tut Wellhead	•	Duration	Liquid Produced
Dynamic		Size	Prover Pressure	in (h)	Temperature	Temperature		(Pt) or (Pc)	(P <sub>w</sub> ) or (F		(Hours)	(Barrels)
Property		inches	psig	Inches H₂O	t	t	psig	psia	psig	psia		_
Shut-In	Ц						4.35	18.75	PUMP		2 <u>4</u>	0
Flow	Ц	0.750	NA	NA_	NA	NA _	NA	0	PUMP		NA	0
					FLO	N STREAM	ATTRIBUTES	3				
Plate	Circle One: Pressure				Flowing			Flowing				
Coefficient			Extension	Gravity	Temperature Factor	Deviation Factor	Metered Flow	GOR (Cubic Feet/		Fluid Gravity G <sub>m</sub>		
(F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Prover Pressure Sqrt psia ((Pm)(Hw))		Factor			R					
2.779		psia ((P		((eiii)(nw))	F <sub>g</sub> 0.920	F <sub>tt</sub> 1.063	1.000	(Mcfd)	d) Barrel) O		0.000	
2,110	_					<u> </u>			`			
				(OP	EN FLOW) (	DELIVERAE	BILITY) CALC	CULATIONS			/D \2-0 DD7	
(P <sub>c</sub> ) <sup>2</sup> =		0.352	(P <sub>w</sub> ) <sup>2</sup> =	0	P <sub>d</sub> ≃		%	(P <sub>c</sub> -14.4)+14.4=			$(P_w)^2 = 0.207$ $(P_d)^2 = $	
· · · · · · · · · · · · · · · · · · ·	-	0.002	Choose formula 1 or 2:	LOG of	, ' <u>a</u>		sure Curve	1			Open	Flow
$(P_c)^2 - (P_a)^2$			1. P <sub>c</sub> <sup>2</sup> -P <sub>a</sub> <sup>2</sup>	formula			ie = " <b>n</b> "			ı	Delive	
or		$(P_c)^2 - (P_w)^2$	2. P <sub>c</sub> <sup>2</sup> -P <sub>d</sub> <sup>2</sup>	1. or 2.	$(P_c^2 - P_w^2)$	· ·	OF	nxLO	G()	Antilog	Equals R	x Antilog
$(P_c)^2 - (P_d)^2$			divided by	and divide		Ass	signed		``	•	Mo	ofd Dis
			P <sub>0</sub> <sup>2</sup> -P <sub>w</sub> <sup>2</sup>	by:	_	Standa	ard Slope	<u> </u>				
0.145		0.352	0.412	-0.	385	0.8	B50	-0.3	27	0.471		)
											<u> </u>	
Open Flow			0	Mcfd @ 14.	65 psia	Deliverabili	ty		Mcfd @ 14	65 psia		
			y, on behalf of t and that said re							nat he has i	knowledge	
	Witness (if any)					Received KANSAS CORPORATION COMMISSION				Thomas L.		
									For Company  One Checked by			
	For Commission					APR						

CONSERVATION DIVISION WICHITA, KS

KCC WICHITA
MAY 1 1 2015 5-11-15
RECEIVED

(Rev: 8/98)

~086×
I declare under penalty or perjury under the laws of the state of Kansas that I am autilexempt status under Rule K.A.R. 82-3-304 on behalf of the operator Kepa McGee OIL & Gas ONShop 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 ARNOLD 12—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: Madleme Mann  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.

