KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test		ONE	POINT 5		Tructions of Rev		ELIVERABIL	IIY IESI		Form G	-2
X	Open Flov	N		(See mar	indictions of Leaf	erse Side)				(Rev: 6/	98)
	Deliverability			Test Date: 3/5/14			API No. 15-	129 20541	-0000		
Company			Lease				Well Number				
ANADARKO	E&P ONS				McDOUG	AL				<u>A-1</u>	_
County MORTON		Location 1980FSL &6	S60 FFI		Section 11		TWP 33		RNGE (E/W) 41	Ac	res Attributed O
ield		10001 02 01	Reservoir		· · ·		Gas Gathering C	onnection	<u> </u>		
<u>PANOMA UN</u>	IALLOCA ⁻	TED	COUNCIL						<u>RKO GATH</u>	IERING	
Completion Date 10/01/81			Plug Back Tot	al Depth 2670				Packer Set a	t N/A		
Casing Size			Weight	2070	Interenal Diam	eter	Set at		Perforations	To	
4.5			10.5		4,052		3143		2512	2512 2646	
Tubing Size 2.375			Weight		Interenal Diam	eter	Set at		Perforations	To	
Z.373 Type Completion (I	Describe)		4.7 Type Fluid Pro	duction	1.995 Reservoir Tem		2649 Pump Unit or Tra	avelina Plunge	_NA er?	NA Yes / No	
			WATER		130	•	Pumping Unit		Pmp		
Producing Thru (Annulus / Casing)				% Carbon Dioxide			•		-	as Gravity - G _g	
Casing				0.119 Pressure Taps			17.985 (Meter Run)			Size	
2579				Flange	•		(Meter Run)		(CHOVER)	Size 4	
Pressure Buildup:			3/4/14	at	11:50 am	(AM)(PM)		3/5/14	at	11:50 am	(AM)(PM)
Vell on Line:		Started	<u> N/A</u>	. at	N/A	(AM)(PM)	Taken	N/A	_ at	N/A	(AM)(PM)
•				OBSE	RVED SURF	FACE DATA		Duration of Sh	ut-in	24	Hours
		Circle One:	Pressure				asing		bing		Liquid
Static /	Orifice Size	Meter or Prover Pressure	Differential	Flowing Temperature	Well Head		d Pressure		d Pressure	Duration (Hours)	Produced (Portolo)
Dynamic Property	inches	psig	in (h) Inches H ₂ O	t t	Temperature t	psig	(P _t) or (P _c) psia	psig	P _t) or (P _c) psia	(Hours)	(Barrels)
Shut-In		FTIG				15	29.4	Pmp		24	
Flow	0.625	N/A	N/A	N/A	60	N/A	0	Pmp		N/A	N/A
				FLO	N STREAM A	ATTRIBUTES	•				
Plate	Circle One;		Pressure	120	Flowing			l		Flowing	
Coefficient	Meter or		Extension	Gravity	Temperature Deviation		Metered Flow	GOR		Fluid	
(F _b) (F _p) Mcfd	Prover Pressure		Sgrt	Factor	Factor	Factor	R	(Cubic Feet/		Gravity	
1.892	psia 14,4		((Pm)(Hw)) 0	F _g 1.173	F _R 1.063	F _{pv} 1.000	(Mcfd) 0		arrel) G _m 0.000		
,,,,,,			(22		I.	<u> </u>					
			(0P	EN FLOW) (DELIVERAB	ILITY) CALC	CULATIONS			(P _w) ² =0.207	
(P _c) ² =	0.864 $(P_w)^2 =$		0 P _d =		<u> </u>		(P _c -14.4)+14.4=		(P _d) ² =		
		Choose fomula 1 or 2:	LOG of		Backpressure Curve					Open Flow	
(P _c) ² -(P _a) ²	$\begin{array}{c c} & 1. P_o^2 - P_a^2 \\ (P_o)^2 - (P_w)^2 & 2. P_o^2 - P_d^2 \end{array}$		formula		Slope = "n"		nxLOG()		A - 1.77	Deliverability Equals R x Antilog	
or (P _c) ² -(P _d) ²	(P _c) -(P _w)	divided by	1. or 2. and divide	$(P_c^2 - P_w^2)$		or igned	n x LO	G()	Antilog	Lquais R Mo	_
		P _c ² -P _w ²	by:			rd Slope	_				
0.657	0.864	0.864 0.76 -0.119		0.961		-0.114		0.768	0		
							<u> </u>				
Open Flow					Deliverabili	ty					
-					•	_					
The undersigr of the facts state							nake the above	report and	that he has I	knowledge	
,	od therein, e	ina (nat sala 10			-xeodica tilic	o and day	01 14101011 20 1-1				
	anv)	<u> </u>	-				Thomas L. Walsh For Company				
	Witness (if	uny)							, or oumpe	··· · · · ·	
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	ssion					KCC	WICHI	Checked b	у		
							,,,,,,	4 7 IOI II	14		

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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 Anadarko E&P Onshore 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 McDouga L A-1gas 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 Signature: Madeleme Brown 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.

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