KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test		0112		(See Inst	ructions of Rev	erse Side)			•	Form G (Rev; 88		
<u> </u>	Open Flow						ADI N. 45		2000			
	Deliverabi	lity		Test Date:			API No. 15-	129 20541	- 0000	MC II N		
ompany Anadarko E&P Onshore LLC				Lease McDOUGAL				Well Number A-1				
County	Location			Section			TWP	RNGE (E/W)			Acres Attributed	
MORTON	1980FSL &660 FEL			11			33				0	
Field	1411004	ren.	Reservoir COUNCIL	CDOVE			Gas Gathering C		RKO GATH	IEDING		
PANOMA UN Completion Date	IALLUCA		Plug Back Tot				•	Packer Set a		IERING		
10/01/81				2670					N/A			
Casing Size							Set at		Perforations			
4.5 10 Tubing Size Weight			10.5		4.052 Interenal Diameter		3143 Set at		2512	<u>∕ 2512 2646</u> Perforations To		
2.375			4.7		1.995		2649		NA	NA		
Type Completion (Describe) Type Flui			Type Fluid Pro	roduction Reservoir Temp			Pump Unit or Traveling Plunger?			Yes / No		
			WATER 13				Pumping Unit		Pmp			
Producing Thru (Ar	nulus / Casing	3)		% Carbon Dio 0.119	xide		% Nitrogen 17.985		Gas Gravity - 0.727	· Gg		
Casing Vertical Depth (H)			U.119 Pressure Taps				(Meter Run)		(PROVER) Size			
2579				Flange			X		, ,	4		
Pressure Buildup:		Shut in		•	11:50 am	(AM)(PM)		3/5/15	_		(AM)(PM)	
Well on Line:		Started	N/A	. at	N/A	(AM)(PM)	Taken	N/A	_ at	N/A	(AM)(PM)	
				OBSE	RVED SURI	FACE DATA		Duration of Sh	ut-in	24	Hours	
-		Circle One:	Pressure				asing		ibing		Liquid	
Static / Dynamic	Orifice Size	Meter or Prover Pressure	Differential in (h)	Flowing Temperature	Well Head Temperature		d Pressure (P _t) or (P _c)	1	d Pressure (P _t) or (P _c)	Duration (Hours)	Produced (Barrels)	
Property	inches	psig	Inches H ₂ O	t	t t	psig	psia	psig	psia	(110013)	(Darrois)	
Shut-In			*			10	24.4	Pmp		24		
Flow	0.625	N/A	N/A	N/A,	60	N/A	0	Pmp	<u> </u>	N/A	N/A	
				FLO	N STREAM	ATTRIBUTES	3				`	
Plate	Cir	Circle One: Pressure		Flowing					Flowing			
Coefficient			Extension	Gravity	Temperature Deviation		Metered Flow		OR	Fluid		
(F _b) (F _p) Mcfd	Prover Pressure psia		Sqrt ((Pm)(Hw))	Factor F _g	Factor Factor		R (Mcfd)	(Cubic Feet/ Barrel)		Gravity G _m		
1.892		14.4	0	1.173	1,063	1.000	0	· · · · · · · · · · · · · · · · · · ·		0.000		
	<u>' </u>		(OB		DELIVERA	BILITY) CALC	LII ATIONS	•		•		
		_	,	•	•	-				$(P_w)^2 = 0.207$		
(P _c) ² =	0.595	(P _w) ² =	0	. P _d =		_%	(P _c -14.4)+14.4=		-	(P _d) ² =		
(P _c) ² -(P _a) ²		Choose formula 1 or 2: 1. P _c ² -P _a ²	LOG of formula	$(P_c^2 - P_w^2)$	Backpressure Curve Slope = "n" or Assigned					Open Flow Deliverability Equals R x Antilog		
or	$(P_c)^2 - (P_w)^2$	2. P _c ² -P _d ²	1. or 2.				лхLC	IG()	Antilog			
(P _c) ² -(P _d) ²	(- c/ (- w)	divided by	and divide				11,250()		7 1111109	Mcfd		
	P _c ² -P _w ²		by:		Standard Slope							
0.388	0.595	0.652	<u>-0.</u>	186	0.9	961	-0.1	79	0.663	0		
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Open Flow					Deliverabili	ity						
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of the facts stat		y, on behalf of t and that said re						report and	tnat ne nas i	knowleage		
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	Witness (if	anv)		-				Thomas F	For Compa	anv		
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For Commission					KANSAS CORPORATION COMMISSION				Checked by			
1 of Cothinisatori					APR 0 9 2015					,		
						SERVATION DIVI						
						WICHITA, KS						

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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 McDougal "A" *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: 3 30 2015 Signature: Production Engineer 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.

Received KANSAS CORPORATION COMMISSION

APR 0 9 2015

CONSERVATION DIVISION WICHITA, KS