1 13

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Form G-2

Type Test					(See Inst	ructions of Reve	erse Side)	,			(Rav; 6/	98)
	띧	Open Flov						401 N - 48				
	<u>Ц</u>	Deliverabi	ility		Test Date:	3/4/14		API No. 15-	129 20472	- 0900		
Company ANADARKO E&P ONSHORE					Lease INTERSTATE					Well Number 13-21		
County	ounty Location			Section			TWP	RNGE (E/W)		Acres Attribute		
MORTON		SE NW SE		21			34		43		_ 0	
Field INTERST	· ^ TC	:		Reservoir REDCAV	_			Gas Gathering C	onnection HUGS V	N/		
Completion D				Plug Back Tol					Packer Set a			
11/11/80				Ting back To	1265				r acites oct e	NA		
Casing Size				Weight	1200	Interenal Diam	eter	Set at		Perforations	То	_
4.5				10.5		4.052		1265		1188	ı	1203
Tubing Size				Weight		Interenal Diam	eter	Set at		Perforations	To	
2.375				4.7		1.995		1202		NA	NA	
Type Complet					Type Fluid Pro	duction		Pump Unit or Tr	aveling Plunge	er?	Yes / No	
SINGLE C		_			NA ************************************	1.4.		06 864		0 0		_
Producing Thru (Annulus / Casing)			% Carbon Dioxide 1.27				% Nitrogen Gas Gravity 41.17 0.767			· Gg		
CASING				Pressure Taps			(Meter Run)		(PROVER) Size			
vertical Depth 1196	1 (口)				FLANGE	•		(Merel Krill)		(FROVER)	3	
Pressure Build	dun:		Shut in	3/3/14		11:00 am	(AM)(PM)		3/4/14	at		(AMI)(PM)
Well on Line:	dup.		Started		. at		(AM)(PM)	Taken		_ at		(AM)(PM)
					•					_		
					OBSE	RVED SURF	ACE DATA		Duration of St	nut-in	24	Hours
			Circle One:	Pressure			С	asing		bing		Liquid
Static /		Orifice	Meter or	Differential	Flowing	Well Head	i	ad Pressure		d Pressure	Duration	Produced
Dynamic		Size	Prover Pressure	in (h)	Temperature	Temperature		(P _t) or (P _c)	1	(P _t) or (P _c)	(Hours)	(Barrels)
Property		inches	psig	Inches H ₂ O	<u> t </u>	t	psig	psia	psig	psia	24	
Shut-In		0.500	NA	NA	NA	60	48 NA	62.4			NA	0
Flow	1	0.500	I INA	INA	I INA	00	INA	<u>, </u>			<u> </u>	
					FLO\	N STREAM	ATTRIBUTES	5				
Plate		Circle One: Pres		Pressure	Flowing			<u> </u>		Flov	Flowing	
Coefficie	nt	M	eter or	Extension	Gravity	Temperature	Deviation Metered Flow		GOR		Fluid	
$(F_b)(F_p)$)	Prove	r Pressure	Sqrt	Factor	Factor	Factor	R	(Cubic Feet/		Gravity	
Mcfd		psia		((Pm)(Hw))	Fg	Fit	F _{pv}	(Mcfd) Barrel)			G _m	
1.214		14.4		0	1.142	1.063	1.000	0	_0		0.000	
				(OP	EN EL OWA	DELIVERAE	BILITY) CALC	LII ATIONS				
				(0)	Ļ(() LO(())	DELIVERAL	MEITTY OALS	OLA MONE			$(P_w)^2 = 0.207$	
$(P_c)^2 =$	•	3.894	(P _w) ² =	0	P _d =		%	(P _c -14.4)+14.4=		_	(P _d) ² =	
	T		Choese femula 1 or 2:	LOG of		Backpres	sure Curve	T	_		Open	Flow
$(P_c)^2 - (P_a)^2$			1. P _c ² -P _a ²	formula		Slope = "n"					Deliverability	
or		$(P_c)^2 - (P_w)^2$	2. P _c ² -P _d ²	1. or 2.	$(P_{c}^{2}-P_{w}^{2})$		or	nxLC)G()	Antilog	Equals R	x Antilog
(P _c) ² -(P _d) ²	2		divided by	and divide		Ass	igned				Mo	cfd
			P _c ² -P _w ²	by:		Standa	rd Slope	<u> </u>				
3,687		3.894	0.947	-0.024		0.850		-0.020		0.954	0	
				<u> </u>				<u> </u>				
								-				
Open Flow	<u>′ </u>					Deliverabili	ty					
The unde	reian	ed authorit	v on behalf of t	the Compan	v states that	he is duly a	thorized to m	nake the above	report and	that he has	knowledge	
of the facts	state	ed therein.	and that said re	port is true a	and correct.	Executed this	this the 4th	day of March 20)14	J. 96 110 1100	o,ougo	
		•		•				·				
	,	Miliana == /!F	9211	<u>-</u>	-				Thomas L	<u></u> Walsh For Compa	201	
		Witness (if	ally)							r or Compa	arty	
					_	VOO!	MA 117	'A				
		For Commi	ssion	_	-	KUU	WICHIT	M	-	Checked b	у	
						100	0 0 0044					
-						APK I	0 2 2014					

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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 INTERSTOTE 13 -2 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. X is incapable of producing at a daily rate in excess of 150 mcf/D
Date: 3/31/14 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.

KCC WICHITA APR 0 2 2014 RECEIVED