KANSAS CORPORATION COMMISSION ONE POINT STABLIZED OPEN FLOW OR DELIVERABILITY TEST

FORM G-2 (Rev.8/98)

TYPE TEST:

11110CE # 275 00

\bowtie	Open	Flow

N Deliverability

10/18/2002

☑ Deliverabili	ty	TEST DATE:	10/18/2002		API No.	
Company			Lease			Well Number
John O. Farme	er		Patterson			1-33
County		Location	Section	TWP	RNG (E/W)	Acres Attributed
Haskell		33 30s 31w				
Field		Reservoir			Gas Gathering C	onnection
		Morrow			2"	
Completion Date		Plug Back Total D	epth		Packer Set at	
9/23/99		55	525			
Casing Size	Weight	Internal Diameter	Set at		Perforations	To
4.500	10.500	4.05	2 5569		5405	5411
Tubing Size	Weight	Internal Diameter	Set at		Perforations	То
2.375	4.700	1.90	1 5400			
Type Completion (De	scribe)	Type Fluid Produc	tion		Pump Unit or Tr	aveling Plunger?
Single		Tr	ace Condensate		no	
Producing Thru(Annu	lus/Tubing)	% Carbon Dioxide			% Nitrogen	Gas Gravity- Gg
tubing		.320			9.120	.692
Vertical Depth (H)		Pressure Taps				Meter Run Size
5407		flange				3.068
Pressure Buildup: Si	hut in	10/14/2002@0900		TAKEN	10/17/20	002 @ 1030
Well on Line: S	tarted	10/17/2002 @ 1030		TAKEN	10/18/20	002 @ 1030

OBSERVED SURFACE DATA

Static/ Dynamic	Orifice Size	Meter Pressure	Pressure Diff.	Flowing Temp.	WellHead Temp.	Casing WellHead Press. Tubing WellHead Pr $(P_w)(P_t)(P_c)$ $(P_w)(P_t)(P_c)$			Duration		
Property	in.	psig	In. H 20	t.	t.	psig	psia	psig	psia	(Hours)	(Hours) Barrels
Shut-in						810	824	826	840	73.3	
Flow	1.750	39.0	6.50	69		670	684	652	666	24.0	<u>'</u>

FLOW STREAM ATTRIBUTES

COEFFICIENT (F _b) Mcfd	(METER) PRESSURE psia	EXTENSION V P M M H W	GRAVITY FACTOR Fg	FLOWING TEMP FACTOR Ft	DEVIATION FACTOR Fpv	RATE OF FLOW R Mcfd	GOR	G m
16.010	53.4	18.63	1.2021	.9915	1.0045	357		.692

(OPEN FLOW)(DELIVERABILITY) CALCULATIONS

 $(Pa)^2 = 0.207$ $(Pc)^2 = 679.6$ 468.4 9.7 $(Pd)^2 = 6.40$ (Pc - 14.4) + 14.4 =(P_c)² - (P_a)² Backpressure Open Flow Curve Slope"n" Deliverability = R x Antilog $(P_c)^2 - (P_c)^2$ ---- or ----LOG n x LOG Assigned Antilog Mcfd Standard Slope 679.43 211.23 3.217 .5074 .699 2.263 808 .3547 673.24 211.23 3.187 .5034 .699 .3519 2.248 802

OPEN FLOW	808	Mcfd @ 14.65 psia	DELIVERABILITY	802	Mcfd @ 14.65 psia
_	- '	of the Company, states that he is dul- and correct. Executed this the	y authorized to make the above red	epoit and that he h	, 20 2
Witne	ss (if any)		_	1 cm/2	Cor Company
For Co	ommission			(Cheeked by

10-18-12	50	BIAKE								
10-17-6		Blake Blake								
Date	Miles	Name	Date	Miles	Name	Date		Miles	Name	
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10-18-02	10:30	452	670	6.54	69	39				
	//:30	754	75U	10.5	65					
10-17-02	10:30	310826	\$60	0	58). 6			
mm/dd	clock	psi	psi	in of H2		PSI		inch	inch	
Date	Clk Tim	Tbg Pres	Csg Pres	Diff	Temp	Static/Pr	\sim 1	Wat Vol1	Oil Vol	Comment
Type Complet	ion: 5:29	£		Producin	g through:	Tubin	<u> </u>			80% CLD. 8
Type Test:	Iput.		Tap Type:		I	I	Gravity	:		90% 743.4 85% 702.1
TD:	<u> </u>	Pluged	back depth:	<u> </u>	' Pa	ıcker dept		<u>/ /: /:)</u>		90% 743 4
Tubing Size:	7.5 1375	Feet of	: 5569' : 5400'	T w	<u>" </u>	- "		un size: <u>5</u>):		SI: \$26 95% '784."
Coeing eize:	MORROW				قر ۱۸ ۱۰	т,	Motor r			St: 1/25
	33- <i>3</i> 0s		Field/Pool:			Sec:	<u>చ</u> ే	5 14	vp: <u>505</u>	S Rge: 3/ω
	PAHERSO		3				~ ~			
Address:	. .									
	John C). JARM	EK							