

KANSAS CORPORATION COMMISSION
ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

FORM G-2
(Rev.8/98)

TYPE TEST:

- ☒ Open Flow
☒ Deliverability

TEST DATE: 4/6/2010 API No. 15-053-21120-0000

Company Samuel Gary Jr. & Associates		Lease Reed		Well Number 1-16	
County Ellsworth	Location 1300'FSL1840'FE L	Section NE SW SE 16 16s 7w	TWP 16s 7w	RNG(E/W)	Acres Attributed 640
Field Wildcat	Reservoir Grand Haven	Gas Gathering Connection American Energies/			
Completion Date 2004	Plug Back Total Depth 2243	Packer Set at None			
Casing Size 4.500	Weight 9.500	Internal Diameter 4.090	Set at 2290	Perforations 1780	To 1798
Tubing Size NONE	Weight	Internal Diameter	Set at	Perforations	To
Type Completion (Describe) Single gas	Type Fluid Production Gas	Pump Unit or Traveling Plunger? No			
Producing Thru(Annulus/Tubing) casing	% Carbon Dioxide 0.081	% Nitrogen 49.176		Gas Gravity- Gg 0.856	
Vertical Depth (ft) 1795	Pressure Taps	Meter Run Size 2.067			
Pressure Buildup: Shut in	3/23/2010@1200	TAKEN	3/31/2010@1030		
Well on Line: Started	4/5/2010@1200	TAKEN	4/6/2010@1200		

OBSERVED SURFACE DATA

Static/ Dynamic Property	Orifice Size in.	Meter Pressure psig	Pressure Diff. In. H ₂ O	Flowing Temp. t.	WellHead Temp. t.	Casing WellHead Press. (P _w) (P _c) (P _e)		Tubing WellHead Press. (P _w) (P _c) (P _e)		Duration (Hours)	Liquid Prod. Barrels
						psig	psia	psig	psia		
Shut-in						412	426			190.0	
Flow	1.000	80.0	48.00	74	80	322	336			24.0	

FLOW STREAM ATTRIBUTES

COEFFICIENT (F _b) Mcfd	(METER) PRESSURE psia	EXTENSION $\sqrt{P_m \times H_w}$	GRAVITY FACTOR Fg	FLOWING TEMP FACTOR Ft	DEVIATION FACTOR Fpv	RATE OF FLOW R Mcfd	GOR	G _m
5.067	94.4	67.31	1.0808	0.9868	1.0060	365		0.856

(OPEN FLOW)(DELIVERABILITY) CALCULATIONS

(P _c) ² = 182.0		(P _w) ² = 113.2		Pd = 18.8		(P _c - 14.4) + 14.4 =		(Pa) ² = 0.207
(P _c) ² - (P _a) ²		(P _c) ² - (P _w) ²		LOG		Antilog		(Pd) ² = 6.40
or (P _c) ² - (P _d) ²		$\frac{(P_c)^2 - (P_a)^2}{(P_c)^2 - (P_w)^2}$		Backpressure Curve Slope "n" or Assigned Standard Slope		n x LOG		Open Flow Deliverability = R x Antilog Mcfd
181.78		68.78		2.643		0.4221		1.015
175.59		68.78		2.553		0.4070		1.015
								0.4284
								2.682
								2.589
								981
								947

OPEN FLOW 981 Mcfd @ 14.65 psia DELIVERABILITY 947 Mcfd @ 14.65 psia

The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge of the facts stated herein and that said report is true and correct. Executed this the _____ day of _____, 20 _____

Witness (if any)

For Company

For Commission

Checked by

PRESSURE GRADIENT SUMMARY

Oil Company: Sam Gary Jr & Associates
Date of Test: 03/31/2010

Well Location: Reed 1-16

#	Depth(FEET)	Stop Time	Temp.(DEG.F)	Pres.(psig)	Gradient
0	1500.0	-	76.702	412.2	0.000
1	1600.0	-	79.133	413.6	0.014
2	1700.0	-	81.142	414.8	0.012
3	1750.0	-	82.019	415.3	0.010
4	1780.0	-	82.889	415.6	0.011
5	1795.0	-	83.513	415.8	0.010

FLUID LEVEL IS AT N/A FEET

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