

TYPE TEST:

- Open Flow
- Deliverability

TEST DATE: 10-7-03

API No.

Company Strata Exploration		Lease Kelman			Well Number 1-A	
County Haskell	Location 360'FNL 1012FEL	Section 27	TWP 29s	RNG (E/W) 32w	Acres Attributed 320	
Field Lockport	Reservoir St. Louis A			Gas Gathering Connection OneOk		
Completion Date	Plug Back Total Depth 5588		Packer Set at 5468			
Casing Size 5.500	Weight 15.500	Internal Diameter 4.950	Set at 5640	Perforations 5500	To 5510	
Tubing Size 2.780	Weight 6.500	Internal Diameter 2.441	Set at	Perforations	To	
Type Completion (Describe) Perf - Acidize	Type Fluid Production		Pump Unit or Traveling Plunger?			
Producing Thru (Annulus/Tubing) Tubing	% Carbon Dioxide .119		% Nitrogen 11.329		Gas Gravity- Gg .692	
Vertical Depth (H) 5505	Pressure Taps Flange			Meter Run Size 3		
Pressure Buildup: Shut in	10-3-03 @ 11:15		TAKEN	10-6-03 @ 11:15		
Well on Line: Started	10-6-03 @ 11:15		TAKEN	10-7-03 @ 14:47		

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 _t) (P _c)		Tubing WellHead Press. (P _w) (P _t) (P _c)		Duration (Hours)	Liquid Prod. Barrels
						psig	psia	psig	psia		
Shut-in								1019	1033	72.0	
Flow	2.125	52.7	58.30	96				642	656	24.0	

FLOW STREAM ATTRIBUTES

COEFFICIENT (F _b) Mcf/d	(METER) PRESSURE psia	EXTENSION $\sqrt{P_m \times H_w}$	GRAVITY FACTOR F _g	FLOWING TEMP FACTOR F _t	DEVIATION FACTOR F _{pv}	RATE OF FLOW R Mcf/d	GOR	G _m
25.400	67.1	62.55	1.2021	.9671	1.0046	1855		.692

(OPEN FLOW)(DELIVERABILITY) CALCULATIONS

$(P_c)^2 = 1067.9$ $(P_w)^2 = 457.8$ $P_d = 4.1$ % $(P_c - 14.4) + 14.4 =$ $(P_a)^2 = 0.207$
 $(P_d)^2 = 1.80$

$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$	$(P_c)^2 - (P_w)^2$	$\frac{(P_c)^2 - (P_a)^2}{(P_c)^2 - (P_d)^2}$ or $\frac{(P_c)^2 - (P_a)^2}{(P_c)^2 - (P_w)^2}$	LOG	Backpressure Curve Slope "n" ---- or ---- Assigned Standard Slope	n x LOG	Antilog	Open Flow Deliverability = R x Antilog Mcf/d
1067.71	610.07	1.750	.2431	.651	.1582	1.440	2671
1066.12	610.07	1.748	.2424	.651	.1578	1.438	2668

OPEN FLOW 2671 Mcfd @ 14.65 psia DELIVERABILITY 2668 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 10 day of Oct, 20 03

Witness (if any)

For Company

For Commission

Checked by

Company: STRATA EXPLORATION INC
 Address: P.O. Box 401 FAIRFELD IL 62837
 Wellname: KELMAN #1-A
 Legal: 360' FAH - 1012 FEL Sec: 27 Twp: 29S Rge: 32N
 Formation: St. Louis "A" Field/Pool: Lockport County: Haskell St: KS
 Casing size: 5 1/2" Feet of: Wt: 15.5# Meter run size: 3" SI: 1019
 Tubing Size: 2 7/8" Feet of: Wt: 6.50# Orif (in): 2.125 95% 96805
 TD: 5588' Plugged back depth: 5588' Packer depth: 5468' 90% 917'
 Type Test: 4pnt / 1pnt Tap Type: Gravity: 85% 866.15
 Type Completion: Perf & Acidize Producing through: Tubing 80% 815.2

Date	Clk Tim	Tbg Pres	Csg Pres	Diff	Temp	Static/Prover	Wat Vol	Oil Vol	Comment
mm/dd	clock	psi	psi	in of H2O	F	PSI	inch	inch	
10/6	11:15	1019		77	62.3	38.6	2'4"		
	11:30	1009		2.99	66.4	38.8			
	11:45	997		3.50	68.0	39.4			
	12:00	989		6.19	66.6	40.0			
1 st pnt	12:15	978		8.16	64.7	40.4			
	12:30	966		12.7	60.4	41.2			
	12:45	952		14.2	65.7	41.7			
	13:00	935		20.4	69.3	42.9			
2 nd pnt	13:15	915		33.5	72.6	44.2			
	13:30	878		46.3	75.3	45.4			
	13:45	870		41.1	79.5	49.7			
	14:00	868		36.7	81.0	45.6			
3 rd pnt	14:15	863		39.5	82.8	45.9			
	14:30	840		50.4	84.6	47.0			
	14:45	829		52.5	85.7	47.3			
	15:00	821		54.2	86.0	47.8			
4 th pnt	15:15	814		53.8	85.9	47.7			
				11.3	112.1	48.4			
10/7	1447	830					2'4"		

Date	Miles	Name	Date	Miles	Name	Date	Miles	Name
10-6	40	BLAKE						

BTU 1037