

KANSAS CORPORATION COMMISSION

ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- ☒ Open Flow
☐ Deliverability

(See Instructions on Reverse Side)

Test Date:
10/05/2010

API No. 15
15-007-22693 - 0000

Company JACK EXPLORATION, INC.		Lease BENSON		Well Number 1-4	
County BARBER	Location SE	Section 04	TWP 35S	RNG (E/W) 14W	Acres Attributed
Field AETNA SE		Reservoir MISSISSIPPIAN		Gas Gathering Connection ATLAS PIPELINE	
Completion Date 07/02/2002		Plug Back Total Depth 4982		Packer Set at 4774.38	
Casing Size 4.5	Weight 11.6	Internal Diameter 4.0	Set at 4998	Perforations 4380	To 4884
Tubing Size 2.375	Weight 4.7	Internal Diameter 1.995	Set at 4774.38	Perforations	To
Type Completion (Describe) SINGLE		Type Fluid Production WATER		Pump Unit or Traveling Plunger? Yes / No PLUNGER LIFT	
Producing Thru (Annulus / Tubing) TUBING		% Carbon Dioxide		% Nitrogen	Gas Gravity - G _g .679
Vertical Depth(H) 4857		Pressure Taps FLANGE		(Meter Run) (Prover) Size	

Pressure Buildup: Shut in 09/02 20 10 at (AM) (PM) Taken 20 at (AM) (PM)
Well on Line: Started 10/06 20 10 at (AM) (PM) Taken 20 at (AM) (PM)

OBSERVED SURFACE DATA

Duration of Shut-in _____ Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter Prover Pressure psig (Pm)	Pressure Differential in Inches H ₂ O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P _w) or (P _i) or (P _c)		Tubing Wellhead Pressure (P _w) or (P _i) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In							300		300		
Flow											

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _b) (F _p) Mcfd	Circle one: Meter or Prover Pressure psia	Press Extension $\sqrt{P_m \times h}$	Gravity Factor F _g	Flowing Temperature Factor F _{tt}	Deviation Factor F _{pv}	Metered Flow R (Mcfd)	GOR (Cubic Feet/Barrel)	Flowing Fluid Gravity G _m

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_g)² = 0.207

(P_g)² = _____

(P_c)² = _____ : (P_w)² = _____ : P_d = _____ % (P_c - 14.4) + 14.4 = _____

(P _c) ² - (P _g) ² or (P _c) ² - (P _d) ²	(P _c) ² - (P _w) ²	Choose formula 1 or 2: 1. P _c ² - P _g ² 2. P _c ² - P _d ² divided by: P _c ² - P _w ²	LOG of formula 1. or 2. and divide by: $P_c^2 - P_w^2$	Backpressure Curve Slope = "n" or Assigned Standard Slope	n x LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)

Open Flow Mcfd @ 14.65 psia Deliverability 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 therein, and that said report is true and correct. Executed this the 4TH day of NOVEMBER, 20 10.

Witness (if any)

For Commission

For Company

Checked by

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KCC WICHITA

I declare under penalty of perjury under the laws of the state of Kansas that I am authorized to request exempt status under Rule K.A.R. 82-3-304 on behalf of the operator JACK EXPLORATION, INC.

and that the foregoing pressure information and statements contained on this application form are true and correct to the best of my knowledge and belief based upon available production summaries and lease records of equipment installation and/or upon type of completion or upon use being made of the gas well herein named.

I hereby request a one-year exemption from open flow testing for the BENSON 1-4 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 vacuum at the present time; KCC approval Docket No. _____
- ☒ is not capable of producing at a daily rate in excess of 250 mcf/D

I further agree to supply to the best of my ability any and all supporting documents deemed by Commission staff as necessary to corroborate this claim for exemption from testing.

Date: 11/04/2010

Signature: *Kelly Aaron*
Title: SECRETARY

Instructions: If a gas well meets one of 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 claim exempt status for the gas well.

At some point during the current calendar year, wellhead shut-in pressure shall have been 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 thereafter be reported yearly in the same manner for so long as the gas well continues to meet the eligibility criterion or until the claim of eligibility for exemption **IS** denied.

The G-2 form conveying the newest shut-in pressure reading shall be filed with the Wichita office no later than December 31 of the year for which it's intended to acquire exempt status for the subject well. The form must be signed and dated on the front side as though it was a verified report of annual test results.

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JACK EXPLORATION, INC.

R/D Property Volume Analysis Report

By Sales Date from 8/1/2009 to 9/30/2010

Date: 11/4/2010

For All Leases and Selected Wells

		***** GROSS *****		***** SHARE *****	
Production Date	Sale Date	Sales Volume	Prod Volume	Sales Volume	Prod Volume
Lease: SLT Well: SLT04		Well Name: Benson 1-4			
Ref #: 00000018					
Account: 361-01	Department:	Account Name: DRY GAS			
8/31/2009	8/31/2009	3,074.40	3,486.88	3,074.40	3,486.88
10/31/2009	10/31/2009	4,674.45	5,301.60	4,674.45	5,301.60
11/30/2009	11/30/2009	3,165.01	3,589.64	3,165.01	3,589.64
12/31/2009	12/31/2009	3,187.57	3,615.23	3,187.57	3,615.23
1/31/2010	1/31/2010	3,138.87	3,526.42	3,138.87	3,526.42
2/28/2010	2/28/2010	2,765.81	3,107.30	2,765.81	3,107.30
3/31/2010	3/31/2010	3,007.05	3,378.33	3,007.05	3,378.33
4/30/2010	4/30/2010	2,882.15	3,241.23	2,882.15	3,241.23
5/31/2010	5/31/2010	2,917.47	3,280.95	2,917.47	3,280.95
6/30/2010	6/30/2010	2,475.02	2,783.38	2,475.02	2,783.38
7/31/2010	7/31/2010	2,855.34	3,211.08	2,855.34	3,211.08
8/31/2010	8/31/2010	3,058.79	3,439.87	3,058.79	3,439.87
		37,201.93	41,961.91	37,201.93	41,961.91
Property Totals		37,201.93	41,961.91	37,201.93	41,961.91
Report Totals		37,201.93	41,961.91	37,201.93	41,961.91

115 mcf

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Atlas Pipeline Company

Analysis

July, 2010

Avard System

Meter Number: 95241838

Meter Name: Benson 1-4

Relative Density: 0.650

Pressure Base: 14.730

Temperature Base: 60.00

C2+ GPM: 2.8948

C5+ GPM: 0.3055

C6+ GPM: 0.1638

Wet Heating Value: 1111.1

Dry Heating Value: 1130.7

As Del Heating Value: 1094.7

	Mol %	GPM
Carbon Dioxide	0.078	0.0132
Nitrogen	1.849	0.2034
Methane	87.876	14.8938
Ethane	5.836	1.5603
Propane	2.534	0.6980
Iso-Butane	0.288	0.0942
N-Butane	0.751	0.2367
Iso-Pentane	0.172	0.0629
N-Pentane	0.218	0.0788
Hexane	0.398	0.1638
Heptane		
Octane		
Nonane		
Decane		
Oxygen		
Hydrogen		
Helium		
Argon		
Water Vapor		
Hydrogen Sulfide		

Total	100.000	18.0052
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