KCC WICHITA

St.

## KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	i:					(	See Instru	uctio	ons on Re	verse Sid	de)							
	en Flo liverat					Test Date						API 1 15-0	lo. 15 07-22693 <sup></sup>	උඋඋ	$\Omega$			
Company JACK EX		RAT	TON, INC.			0/03/	2010		Lease BENSO	N					1-4	Well Nu	mber	
County BARBEF			Local	ion .		Section 04			TWP 35S			RNG (E/V	V)			Acres A	ttributed	
Field AETNA	SE					Reservoir MISSIS	, SIPPIAN	l					ering Conne PIPELINE	ection	,			
Completio 07/02/20		te				Plug Bac 4982	k Total De	epth				acker Se 4774.38						
Casing S 4.5	ize		Weig 11.6	ht		Internal C	Diameter		Set a 499			Perfora 4380			To 4884			
Tubing Si 2.375	ize		Weig 4.7	ht		Internal [	Diameter		Set 8			Perforations To			То			
Type Con		n (D	escribe)			Type Flui WATE	d Product	tion					t or Traveling SER LIFT	Plunge	r? Yes	/ No		
Producing	•	(An	nulus / Tubir	ng)		% C	Carbon Dic	oxide	e		%	6 Nitroge	n		Gas Gr .679	avity - C	à <sub>g</sub>	
Vertical D	_	<del>1</del> )	74 a sa				Pr - FL		ure Taps						(Meter I	Run) (Pi	rover) Size	
Pressure	Buildu	ıp:	Shut in	9/02	20	10 <sub>at</sub> _				Taken_			20	at		(	AM) (PM)	
Well on L	ine:		Started	10/06									20					
							OBSER	VED	SURFAC	E DATA				Duratio	n of Shut-	in	Hours	
Static / Dynamic Property	Orif Siz (inch	e .	Circle one:  Meter Prover Press psig (Pm)	ure in		Flowing Temperature t	Well Head Temperature t		Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> ) psig psia			Tubing  Wellhead Pressure $(P_w)$ or $(P_1)$ or $(P_c)$ psig psia		Duration (Hours)			Liquid Produced (Barrels)	
Shut-In					2				, ···	300		poig	300,					
Flow														·		<u> </u>		
				· · · · · · · · · · · · · · · · · · ·			FLOW S	TRE	AM ATTR	IBUTES				<del>-  </del>			1	
Plate Coefficcient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Pro	Circle one: Meter or Prover Pressure psia  Press Extension Pm X h		on	Gravity Factor F <sub>g</sub>			Flowing emperature Factor F <sub>11</sub>	Deviation Factor F <sub>pv</sub>		or	Metered Flow R (Mcfd)		(Cubic Feet/ Gra		Flowing Fluid Gravity G <sub>m</sub>	
						DEN EI	OW) (DEI	IVE	RABILITY	O CALCI	Π Δ.	TIONS				2 2 2		
(P <sub>c</sub> ) <sup>2</sup> =		:	(P <sub>w</sub> ) <sup>2</sup>		:							4.4 =	;			<sup>2</sup> = 0.2		
(P <sub>c</sub> ) <sup>2</sup> - ( or (P <sub>c</sub> ) <sup>2</sup> - (	P <sub>a</sub> ) <sup>2</sup>	(	P <sub>c</sub> )² - (P <sub>w</sub> )²	Choose formula  1. $P_c^2$ - F  2. $P_c^2$ - F  divided by: $P_c^2$	2 a 2 d	LOG of formula 1. or 2. and divide by:	P.2 - P.2		Slo As	essure Cu pe = "n" - or ssigned dard Slope		nxL	og	Aı	ntilog	Del Equals	oen Flow iverability is R x Antilog (Mcfd)	
						·				<del></del>		-	, · · · · · · · · · · · · · · · · · · ·					
Open Flo	ow.			Mcfd @	14.65	psia			Deliveral	bility		<u> </u>		Mcfd @	14.65 ps	ia		
The	under	signe	ed authority,	on behalf of	the C	ompany,	states tha	at he	e is duly a	uthorize	d to	make th	e above repo	ort and	that he h			
the facts s	stated	there	ein, and that	said report is	s true a	and corre	ct. Execu	ted t	this the 4	TH ·	d	ay of N	OVEMBER				20 10	
		•	Witness	(if any)				_					For	Company		F	RECEIVE	
			For Con	nmission			· · · · · · · · · · · · · · · · · · ·						Che	cked by				
		,														1/	OV 2 2 2	

exempt status und and that the foreg correct to the best of equipment insta I hereby reque	er penalty of perjury under the laws of the state of Kansas that I am authorized to request der Rule K.A.R. 82-3-304 on behalf of the operator
	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  et to supply to the best of my ability any and all supporting documents deemed by Commission by to corroborate this claim for exemption from testing.
Date: 11/04/2010	

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

For All Leases and Selected Wells

	Production Date	Sale Date	******* GRO Sales Volume	SS******* Prod Volume	******* SHAR Sales Volume	E******* Prod Volume
Lease: SLT	Well: S	LT04	Well Name: Ben	son 1-4		
Ref #: 00000	018					
Account:	361-01	Department:	Aco	ount 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
l	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

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Date: 11/4/2010

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### **Atlas Pipeline Company**

#### **Analysis**

July, 2010

		,	Avard Syste	em		
Meter Number:	95241838	Meter Name:	Bensoi	n 1-4		
Relative Density:	0.650	C2+ GPI	M: 2	.8948	Wet Heating Value:	1111.1
Pressure Base:	14.730	C5+ GP	M: 0	.3055	Dry Heating Value:	1130.7
Temperature Base:	60.00	C6+ GP	M: 0	.1638	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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#### **APLMC WestOk**

#### **GAS VOLUME STATEMENT**

**CLOSED DATA** 

Avard System

95241838 --- Benson 1-4

July, 2010

**Measured Conditions** 

Meter Status: In Service

0.172

Pressure Base: 14.730 psia

CO<sub>2</sub>

0.078

Water Vapor Corr. Technique:

1.849

H2O

Temperature Base:

H2S

60.00 °F

He

HV Cond: Wet

C1

87.876

Meter Type: EFM

2.534

0.288

2,839.83

Contract Hr.: Midnight

**O2** 

Water Vapor Corr. Method:

5.836

N-C4

0.751

C6+ 0.218 0.398

**Tap Location** Atmos. Pressure Calc. Method Fpv Method Sample Date Tap Type Tube I.D. Interval 13.800 psi AGA3-1992 AGA8-Detail 3/4/10 Upstream Flange 2.068 in. 1 Hour

2.000 111	, i i i i i	1	•	potrourr	, lange					U U
Day	Differential (In. H2O)	Pressure (PSIA)	Temperature (°F)	Hours	Relative Density	Plate (inches)	Volume (Mcf)	Heating Value (BTU/scf)	Energy (MMBTU)	, .
1	15.68	43.04	80.37	19.17	0.6505	0.875	88.83	1111.05	98.69	
2	17.97	43.56		19.51	0.6505	0.875	92.44	1111.05	102.71	
3	17.87	41.20		19.31	0.6505	0.875	91.75	1111.05	101.94	
4	19.47	40.31	77.35	19.00	0.6505	0.875	90.79	1111.05	100.87	
5	17.64	42.18		19.00	0.6505	0.875	91.00	1111.05	101.10	
6	18.45	41.62		19.00	0.6505	0.875	91.18	1111.05	101.30	
7	17.34	41.58		19.00	0.6505	0.875	91.44	1111.05	101.60	
8	19.36	42.39		19.00	0.6505	0.875	91.58	1111.05	101.75	
9	16.77	43.72		19.00	0.6505	0.875	91.75	1111.05	101.94	
10	19.09	43.44		19.00	0.6505	0.875	91.64	1111.05	101.81	
11	16.58	42.69		19.12	0.6505	0.875	90.61	1111.05	100.67	
12	18.57	43.84		19.48	0.6505	0.875	93.97	1111.05	104.40	
13	17.39	43,07		19,39	0.6505	0.875	93.48	1111.05	103.86	
14	18.56	45.76		19.00	0.6505	0.875	91.77	1111.05	101.96	
15	18.18	42.82		19.00	0.6505	0.875	91.54	1111.05	101.71	
16	17.89	42.66		19.00	0.6505	0.875	91.51	1111.05	101.67	
17	19.52	43.06		19.00	0.6505	0.875	91.24	1111.05	101.37	
18	17.16	42.44		19.00	0.6505	0.875	91.06	1111.05	101.17	
19	18.55	45.89		19.00	0.6505	0.875	90.82	1111.05	, 100.90	
20	16.04	44.46		19.23	0.6505	0.875	90.24	1111.05	100.26	
21	17.53	41.57		19.54	0.6505	0.875	93.10	1111.05	103.44	
22	19.21	41.47		19.22	0.6505	0.875	91.77	1111.05	101.96	
23	18.03	41.97		19.00	0.6505	0.875	90.85	1111.05	100.94	
24	19.36	41.84	85.54	19.00	0.6505	0.875	90.64	1111.05	100.71	
25	16.96	41.50	78.99	19.00	0.6505	0.875	90.64	1111.05	100.71	
26	18.56	43.98	84.57	19.00	0.6505	0.875	90.67	1111.05	100.74	
27	16.39	42.63		19.00	0.6505	0.875	90.35	1111.05	100.39	
28	19.09	42.36		19.00	0.6505	0.875	91.39	1111.05	101.54	
29	40.00	43.21	85.74	11.99	0.6505	0.875	81.83	1111.05	90.92	
30	43,11	43.41		12.10	0.6505	0.875	90.69	1111.05	100.76	
31	38.83	44.86		15.79	0.6505	0.875	109.25	1111.05	121.39	

Volume at 14.650 = 2,855.34 Energy = 3,155.20

42.87

84.62

574.81

0.6505

20.21

TOTAL

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3,155.20

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