

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

(See Instructions on Reverse Side)

- Open Flow
 Deliverability

Test Date:
12-29-11

API No. 15
095-22219 - 0000

Company Pickrell Drilling Company, Inc.		Lease Young "A"		Well Number 2	
County Kingman	Location C NE SE	Section 12	TWP 30S	RNG (E/W) 08W	Acres Attributed
Field Spivey-Grabs		Reservoir Mississippi		Gas Gathering Connection Kansas Gas Service	
Completion Date 03-29-2011		Plug Back Total Depth 4157		Packer Set at	
Casing Size 4 1/2	Weight 10.5	Internal Diameter 4.052	Set at 4200	Perforations 4112	To 4122
Tubing Size 2 3/8	Weight 4.7	Internal Diameter 1.995	Set at	Perforations	To
Type Completion (Describe) Single		Type Fluid Production Water		Pump Unit or Traveling Plunger? <input checked="" type="radio"/> Yes <input type="radio"/> No	
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide 0.34%		% Nitrogen 4.37%	
Vertical Depth(H) 4117		Pressure Taps Flange		Gas Gravity - G _g 0.7084	
Pressure Buildup: Shut in 12-16-11 at (AM) (PM) Taken 12-19-11 at (AM) (PM)					
Well on Line: Started 20 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 (P _m)	Pressure Differential in Inches H ₂ O	Flowing Temperature	Well Head Temperature	Casing Wellhead Pressure (P _w) or (P _v) or (P _c)		Tubing Wellhead Pressure (P _w) or (P _v) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-in						440		120		72	
Flow	0.625										

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 _t	Deviation Factor F _{pv}	Metered Flow R (Mcf/d)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = _____ ; (P_w)² = _____ ; P_d = _____ % ; (P_c - 14.4) + 14.4 = _____ ; (P_g)² = 0.207 ; (P_o)² = _____

(P _c) ² - (P _a) ² or (P _c) ² - (P _d) ²	(P _c) ² - (P _w) ²	Choose formula 1 or 2: 1. P _c ² - P _a 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: $\frac{P_c^2 - P_w^2}{P_c^2 - P_a^2}$	Backpressure Curve Slope = "n" or Assigned Standard Slope	n x LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mcf/d)

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 29th day of December, 2011

Witness (if any)

For Commission

Jack Guly

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 Pickrell Drilling Company, 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 Young "A" #2 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: 12-29-11

Signature: 

Title: Engineer

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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PICKRELL DRILLING COMPANY, INC

30 SOUTH MAIN - SUITE 505 - WICHITA, KANSAS 67202-3738

GAUGE AND PRODUCTION REPORT - GAS

12-18 2011 TO A.M. 12-25 2011 Young - A LEASE
Spivey - Grabs FIELD

DATE			DATE			DATE			DATE			DATE					
20			21			22			23			24			25		
BARRELS	FT.	INS.	BARRELS	FT.	INS.	BARRELS	FT.	INS.	BARRELS	FT.	INS.	BARRELS	FT.	INS.	BARRELS	FT.	INS.
	4	7	9201														
			9201														
			9034														
			1607														

TANK BSW TEMP.	WELL NO.	CHOKE SPM	TBG. PR. SL	CSG. PR. PLGR. D.	EST. BOPD	WATER %	EST. BWPD	HOURS PUMPED OR FLOWED PER DAY										EXPLAIN DOWN TIME AND DRAWOFFS AND MAKE OTHER REMARKS BELOW
								18	19	20	21	22	23	24	25			
	1	7	36	1 1/4	175	73	2	24										12/19 72 Hr Shut-In
	2	4	36	1 1/4	-	100	1	0	0	24								Test - #2 Well
	M - 4" X .750		GAS WELL TUBING PRESSURE					1	1	19	49	49	49	48	45	45		Lasing - 440 #
	D - 3" X .625		CASING PRESSURE					54	54	54	54	54	54	54	54	54		Master - 61520
			DIFFERENTIAL					0	0	26	76	76	76	70	70			Avg MCF - 130 (#1-24 MCF)
			LINE PRESSURE					54	54	54	54	54	54	54	54			Deduct - 45270
	SIZE METER RUN & ORIFICE: X							HEATER TEMP.:										SIGNED <i>[Signature]</i> PUMPER
	AVG. DIFF. & LINE PRESS.: /							PINTS EMULSION CHEM./DAY:										
	TOTAL BWPD ON LEASE: 3							PINTS INHIBITOR/DAY:										

Jack
 Is this what
 you are looking
 for?

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EXTENDED NATURAL GAS ANALYSIS

COMPANY NAME: **Pickrell Drilling Co.**

Lab #: 1147990

Sample I.D. **Young A-2**

SETT#: **Mississippi**

COUNTY: **Kingman**

LEGAL LOCATION: **Sec. 12-30S-08W**

DATE SAMPLED: **12/20/11**

SAMPLER: **Shorty**

SAMPLE PRESSURE: **n/a**

TEMPERATURE (F): **n/a**

DATE ANALYZED: **12/22/11**

QUALITY CONTROL DATE: **12/22/11**

ANALYSIS

CALCULATED AT 14.650 PSIA, 60 F. NORMALIZED

COMPONENT	MOLE %	BTU AMOUNT	GPM
METHANE	80.89	814.43	
ETHANE	7.23	127.54	1.92
PROPANE	3.67	92.05	1.01
ISOBUTANE	0.51	16.53	0.17
NORMAL BUTANE	1.24	40.33	0.39
ISOPENTANE	0.3	11.97	0.11
NORMAL PENTANE	0.42	16.78	0.15
HEXANES+	0.9	45.45	0.39
NITROGEN	4.37		
OXYGEN	*ND(<0.05)		
CARBON DIOXIDE	0.34		
HELIUM	0.13		
HYDROGEN	*ND(<0.02)		
TOTALS	100	1165.1	4.14

*ND=Not detectable. Detection limit in parenthesis.

BTU/FT³ DRY (IDEAL GROSS): 1165.1
BTU/FT³ SATURATED (IDEAL GROSS): 1145.59

BTU/FT³ DRY (REAL GROSS): 1168.7
BTU/FT³ SATURATED (REAL GROSS): 1149.2

SPECIFIC GRAVITY: 0.7084
COMPRESSIBILITY: 0.9969
GPM: 4.14

RESPECTFULLY SUBMITTED

Blair D. Formaker

PRIORITY ANALYTICAL LAB

Hexanes+ parameters: BTU (dry)=5065.8; S.G.=3.1765; Summation factor=.0861, at 14.696 psia.
Analyzed and calculated by: Modified GPA 2261-90, 2145-94 & 2172-86.

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