

15-877-000280002  
STATE OF KANSAS - CORPORATION COMMISSION  
PRODUCTION TEST & GOR REPORT

Conservation Division

Form C-5 Revised

TYPE TEST: <u>Initial</u> <u>Annual</u> <u>Workover</u> <u>Reclassification</u>		TEST DATE: <u>11-27-87</u>	
Company: <u>Bison Energy Corporation</u>		Lease: <u>Muir "A"</u> Well No.: <u>1</u>	
County: <u>Harper</u>	Location: <u>SW NE</u>	Section: <u>10</u>	Township: <u>31S</u> Range: <u>8W</u> Acres: <u>40</u>
Field: <u>Spivey-GRabs</u>		Reservoir: <u>Mississippi</u> Pipeline Connection:	
Completion Date:		Type Completion (Describe): <u>Frac</u>	Plug Back T.D.: <u>5300'</u> Packer Set At: <u>4485'</u>
Production Method: <u>Flowing</u> <u>Pumping</u> <u>X Gas Lift</u>		Type Fluid Production: <u>Oil</u>	API Gravity of Liquid/Oil: <u>30°</u>
Casing Size: <u>5 1/2"</u>	Weight: <u>14#</u>	I.D.:    Set At: <u>4452'</u>	Perforations: <u>4402'</u> To: <u>4405'</u>
Tubing Size: <u>2 1/16"</u>	Weight: <u>3/4#</u>	I.D.:    Set At: <u>4391'</u>	Perforations:    To:

Pretest:		Duration Hrs.:	
Starting Date:	Time:	Ending Date:	Time:
Test:		Duration Hrs.:	
Starting Date: <u>8-29-87</u>	Time: <u>8:00 A.M.</u>	Ending Date: <u>8-30-87</u>	Time: <u>8:00 a.m.</u> Duration: <u>24 hrs.</u>

OIL PRODUCTION OBSERVED DATA

Producing Wellhead Pressure		Separator Pressure			Choke Size				
Casing:	Tubing:								
Bbls./In.	Tank	Starting Gauge			Ending Gauge			Net Prod. Bbls.	
	Size   Number	Feet	Inches	Barrels	Feet	Inches	Barrels	Water	Oil
Pretest:									
Test:	200   154934	8	2		8	4			3.34
Test:									

GAS PRODUCTION OBSERVED DATA

Orifice Meter Connections		Orifice Meter Range						
Pipe Taps:	Flange Taps:	Differential:			Static Pressure:			
Measuring Device	Run-Prover-Tester Size	Orifice Size	Meter-Prover-Tester Pressure		Diff. Press.	Gravity	Flowing	
			In. Water	In. Merc.	Psig or (Pd)	(hw) or (hd)	Gas (Gg)	Temp. (t)
Orifice Meter	2"	1.000			10	2		
Critical Flow Prover								
Orifice Well Tester								

GAS FLOW RATE CALCULATIONS (R)

Gcoeff. (Fb)(Fp)(OWTC)	Meter-Prover Press. (Pm)	Extension $\sqrt{hw \times Pm}$	Gravity Factor (Fg)	Flowing Temp. Factor (Ft)	Deviation Factor (Fv)	Chart Factor (Fd)

Gas Prod. MCFD: 40    Oil Prod. Bbls./Day: 3.34    Gas/Oil Ratio (GOR) = 11,976 per Bbl.    Cubic Ft.

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 8th day of December, 1987.

For Offset Operator

For State

For Company  
C. J. Lett, III



Kansas Corporation Commission

MIKE HAYDEN GOVERNOR  
KEITH R. HENLEY CHAIRMAN  
RICH KOWALEWSKI COMMISSIONER  
MARGALEE WRIGHT COMMISSIONER  
JUDITH McCONNELL EXECUTIVE DIRECTOR  
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CONSERVATION DIVISION  
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200 Colorado Derby Bldg.  
202 W. 1st Street  
Wichita, KS 67202-1286  
(316) 263-3238

January 19, 1988

C. J. Lett  
Bison Energy Corporation  
P. O. Box 782317  
Wichita, KS 67278

Dear Mr. Lett:

I'm returning these C-5 gas/oil ratio test report forms because they aren't complete and the accuracy of the figure displayed on each form as the Gas Production Flow Rate (denoted by the symbol R) for that well is questionable.

Noticeably absent are the pieces of data which normally appear in the very last row of boxes near the bottom of the form. These entries represent quantities which the Commission's staff needs to see and which lead to the measured gas flow rate of each well.

While a Sonney Orifice Computer wheel may provide reasonably accurate enough flow rate figures to satisfy the operator's needs, such a device isn't accurate enough to allow its use in calculating the gas/oil ratio of a prorated oil well, such as the 12 wells Bison Energy now operates in the Spivey-Grabs Field.

You will be given 21 days from January 19th within which to make another attempt to calculate the gas flow rate according to the procedure outlined in the instructional pamphlet which you received from me earlier. Without these completed C-5 forms, no allowables can be assigned to Bison Energy's wells. Twenty-one days should be sufficient to permit the completion of these forms and their return to me.

Please feel free to contact either myself or Alan Snider of this office should you have any questions.

Sincerely,

James Hemmen  
Petroleum Proration Analyst

JAH:bjs  
Enclosures:

cc: Alan Snider