

January 10, 1984

GEOLOGICAL WELL REPORT

Brunson Production, Inc.

#1 Foth - Goering

CE/2 SW SW Section 35-T21S.-R3W.,

Harmac Pool Area, McPherson

County, Kansas

Contractor: Blackstone Drilling, Inc.

Spud: December 17, 1983

8 5/8" Surface Casing @ 220'

5 1/2" Production casing @ 3592'

Rotary Completion: Jan. 6, 1984

BRUNSON PRODUCTION, INC.
125 N. Emporia, Suite 200
Wichita, Kansas 67202

Gentlemen:

Listed below are the pertinent geologic tops, an evaluation of the porosities encountered below the top of the Mississippian Limestone, and a record of all tests made.

I arrived at the location at a depth of 3170' and left the rig at 3193, returning at 3495' and witnessed the operation to TD 3592.

Samples were examined from 3100-3592TD. The hole was not logged electrically before being cased.

Enclosed herewith is a copy of the plotted drilling time log which also includes lithology, tops, porous zones and other pertinent data. G. WRIGHT LOCATION

SAMPLE TOPS

ELEVATION	1454 KB (Private Elevation)
MISSISSIPPIAN LIMESTONE	3151 (-1697)

3168-3173 Limestone - white and tan calcitic, slightly cherty.
No visible porosity, no show, but believed to be zone giving up the gas in DST #1.

DRILL STEM TEST #1 3160-93
30" - 30" - 60" - 45"

Strong blow immediately, gas to surface 22 mins. Gauged 232 MCF at 2nd opening, decreasing to 114 MCF and stabilized.

Recovered: 30' gas cut mud, no water.

IFP 20# - 30#
ISIP 743/30 mins.

FFP 30# - 20#
FSIP 502/45 mins.

Temp. 110° F

January 10, 1984

30" - 30" - 30" - 30"

Very weak to no blow throughout test.

Recovered: 65' oil cut mud. Est. 5 gals. free oil
Mud possibly water cut

IFP	20# - 30#	FFP	30# - 40#
ISIP	882#/30 mins.	FSIP	842#/30 mins.

KINDERHOOK SHALE 3448 (-1994)

MISNER SAND	3540	(-2086)
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3540-3542 Sandstone - fine to medium grained, clean to limey pyritic.
Mostly tight, no show of oil or fluorescence.

HUNTON 3542 (-2088)

3542-3565 Dolomite, tan, buff and gray mottled, medium to coarsely crystalline, good cavernous porosity. 3542-47 considered to carry light oil stains, good porosity and fluorescence, faint odor, no visible free oil. Section from 3547-65 mostly barren porosity.

MAQUOKETA 3565 (-2111)

TOTAL DEPTH: 3592'.

Conclusions and Recommendations

The subject well checks several feet higher at the Hunton than two producers on the adjoining lease east less than 1/2 mile distant. The rocks appear to carry good porosities but only a fair "show of oil." The drill stem test is not too encouraging except that the bottom hole pressures are good with reference to other production in the area. The "show" definitely justified casing to test.

The Mississippian gas tested earlier is not considered highly commercial but may represent some economics also. Casing was recommended run to test the two "shows."

Yours very truly,

T. G. Wright

TGW:wlf

DRILLING PROGRESS

12/27/83		Spud
12/28		725
12/29		1940
12/30		2825
12/31	SD	3140
1/1/84	SD	3140
1/2	SD	3140
1/3		3140
1/4		3349
1/5		3553

BIT RECORD

SMITH	f2	230 - 3140
SECURITY	S 88	3140 - TD

HALLIBURTON SERVICES JOB LOG

WELL NO. #1 LEASE Falk-Goring TICKET NO. 516699
 CUSTOMER Brunson Production Inc. PAGE NO.
 JOB TYPE Open Hole Test DATE 1-3-84

FORM 2013 R-2

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	15:00							On Location - Rig Pulling Pipe
	15:40							Start Making up tool
	16:05							Tool Then Table
	16:10							Reversing Sub In
	16:12							Rig Running Pipe
	17:02							Tool opened - Very Strong
								Blow - Bottom of Bucket
								Instantly - (Gas)
	17:41							Tool Closed
	18:14							Tool opened - Strong Blow
								Instantly (Gas)
	18:30							Then 3/4" Choke Gas at (200)
	18:41							(167)
	19:13							Tool Closed
	20:00							Open Bypass -
	20:05							Start out of hole w/ Tool
DST 3160-93								
Temp 110°								
Mississippi								
30-30-60-45								
Recovery: 30' of Slightly								
Gas Cut Mud								
I.H.P.	1582.7							
I.F.P.	20.1							
F.F.P.	30.2							
I.C.P.	743							
I.F.P.	30.2							
F.F.P.	20.1							
F.C.P.	302.1							
F.H.P.	1562.8							

CUSTOMER



FORM 1908 R-4

A Division of Halliburton Company
DUNCAN, OKLAHOMA 73836WORK ORDER CONTRACT
AND PRE-TREATMENT DATAATTACH TO
INVOICE & TICKET NO. 516699DISTRICT EL Dorado, KansasDATE 1-3-84TO: HALLIBURTON SERVICES YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICEMEN TO DELIVER AND OPERATE
THE SAME AS AN INDEPENDENT CONTRACTOR TO: Brunson Production Co.
(CUSTOMER)
AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICINGWELL NO. #1 LEASE Foth-Goering SEC. 35 TWP. 26 RANGE 3WFIELD _____ COUNTY McPherson STATE Kansas OWNED BY Brunson Prod.

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION NAME Mississippi TYPE Chat.

FORMATION THICKNESS _____ FROM _____ TO _____

PACKER: TYPE A.R. 6 3/4 SET AT 3160TOTAL DEPTH 3193 MUD WEIGHT 9.6

BORE HOLE _____

INITIAL PROD: OIL _____ BPD, H₂O _____ BPD, GAS _____ MCFPRESENT PROD: OIL _____ BPD, H₂O _____ BPD, GAS _____ MCF

	NEW USED	WEIGHT	SIZE	FROM	TO	MAX. ALLOW. P.S.I.
CASING						
LINER						
TUBING						
OPEN HOLE			<u>7 7/8 K.B.</u>	<u>3193</u>		<u>SCOTTS/FT.</u>
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

PREVIOUS TREATMENT: DATE _____ TYPE _____ MATERIALS _____

TREATMENT INSTRUCTIONS: TREAT THRU TUBING ☐ ANNULUS ☐ CASING ☐ TUBING/ANNULUS ☐ HYDRAULIC HORSEPOWER ORDERED _____Open Hole Test 30' of Perf. Anchore

CUSTOMER OR HIS AGENT WARRANTS THE WELL IS IN PROPER CONDITION TO RECEIVE THE PRODUCTS, SUPPLIES, MATERIALS, AND SERVICES

THIS CONTRACT MUST BE SIGNED BEFORE WORK IS COMMENCED

As consideration, the above-named Customer agrees:

- To pay Halliburton in accord with the rates and terms stated in Halliburton's current price lists.
- Halliburton shall not be responsible for and Customer shall secure Halliburton against any liability for damage to property of Customer and of the well owner (if different from Customer), unless caused by the willful misconduct or gross negligence of Halliburton; this provision applying to but not limited to subsurface damage and surface damage arising from subsurface damage.
- Customer shall be responsible for and secure Halliburton against any liability for reservoir loss or damage, or property damage resulting from subsurface pressure, losing control of the well and/or a well blowout, unless such loss or damage is caused by the willful misconduct or gross negligence of Halliburton.
- Customer shall be responsible for and secure Halliburton against any and all liability of whatsoever nature for damages as a result of subsurface trespass, or an action in the nature thereof, arising from a service operation performed by Halliburton hereunder.
- Customer shall be responsible for and secure Halliburton against any liability for injury to or death of persons, other than employees of Halliburton, or damage to property (including, but not limited to, injury to the well), or any damages whatsoever, irrespective of cause, growing out of or in any way connected with the use of radioactive material in the well hole, unless such damage shall be caused by the willful misconduct or gross negligence of Halliburton.
- Halliburton makes no guarantee of the effectiveness of the products, supplies or materials, nor of the results of any treatment or service.
- Customer shall, at its risk and expense, attempt to recover any Halliburton equipment, tools or instruments which are lost in the well and if such equipment, tools or instruments are not recovered, Customer shall pay Halliburton its replacement cost unless such loss is due to the sole negligence of Halliburton. If Halliburton equipment, tools or instruments are damaged in the well, Customer shall pay Halliburton the lesser of its replacement cost or the cost of repairs unless such damage is caused by the sole negligence of Halliburton. In the case of equipment, tools or instruments for marine operations, Customer shall, in addition to the foregoing, be fully responsible for loss of or damage to any of Halliburton's equipment, tools or instruments which occurs at any time after delivery to Customer at the landing until returned to the landing, unless such loss or damage is caused by the sole negligence of Halliburton.
- Because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, Halliburton is unable to guarantee the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by Halliburton. Halliburton personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but Customer agrees that Halliburton shall not be responsible for any damages arising from the use of such information except where due to Halliburton's gross negligence or willful misconduct in the preparation or furnishing of it.
- Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, breach of warranty or otherwise) arising out of the sale or use of any products, supplies or materials is expressly limited to the replacement of such products, supplies or materials on their return to Halliburton or, at Halliburton's option, to the allowance to the Customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, punitive or consequential damages.
- Invoices payable NET by the 20th of the following month after date of invoice. Upon Customer's default in payment of Customer's account by the last day of the month following the month in which the invoice is dated, Customer agrees to pay interest thereon after default at the highest lawful contract rate applicable but never to exceed 18% per annum. In the event it becomes necessary to employ an attorney to enforce collection of said account, Customer agrees to pay all collection costs and attorney fees in the amount of 20% of the amount of the unpaid account.
- This contract shall be governed by the law of the state where services are performed or equipment or materials are furnished.
- Halliburton shall not be bound by any changes or modifications in this contract, except where such change or modification is made in writing by a duly authorized executive officer of Halliburton.

I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT
THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMER'S AGENTSIGNED Chris R. Geller
DATE 1-3-84 CUSTOMERTIME 15:00 A.M. (M.)

We certify that the Fair Labor Standards Act of 1938, as amended, has been complied with in the production of goods and/or with respect to services furnished under this contract.

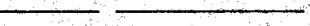
CUSTOMER

FORM 1906 R-7

WELL NO. AND FARM #1 Foth. Goering		COUNTY McPherson	STATE Kansas	DATE 1-3-84
CHARGE TO Brunson Production Co.		OWNER Brunson Prod.	DUNCAN USE ONLY	
ADDRESS 200 Corporate Place		CONTRACTOR Blackstone Delq	LOCATION 1 EL Dorado, Ark	CODE 503AS
CITY, STATE, ZIP Wichita, Kansas 67202		SHIPPED VIA Howco	LOCATION 2	CODE
		DELIVERED TO Location	LOCATION 3	CODE
		ORDER NO.	BULK MATERIAL DELIVERY TICKET NO. B-	
		WELL TYPE Oil Development	New well	
		TYPE AND PURPOSE OF JOB Open Hole Test	CODE O.D.	
TERMS: NET		DUE BY THE 20TH OF FOLLOWING MONTH. INTEREST CHARGED AFTER 60 DAYS FROM DATE OF INVOICE.		

[illegible]

AS PER ATTACHED B TICKET NO.

			<u>TAX REFERENCES</u>			<u>SUB TOTAL</u>			
WAS JOB SATISFACTORILY COMPLETED? _____			_____	_____	_____	TAX			
WAS OPERATION OF EQUIPMENT SATISFACTORY? _____			_____	_____	_____	TAX			
WAS PERFORMANCE OF PERSONNEL SATISFACTORY? _____			_____	_____	_____	TAX			
X	 _____ CUSTOMER OR HIS AGENT		 _____ HALLIBURTON OPERATOR			TOTAL			

THIS IS NOT AN INVOICE

TAXES, PRICE CHANGES, AND OTHER APPLICABLE DATA WILL BE SHOWN ON OUR INVOICE TO BE SUBMITTED FOR PAYMENT AT A LATER DATE.

CUSTOMER

T. G. WRIGHT
Consulting Geologist
530 FOURTH FINANCIAL CENTER
WICHITA, KANSAS 67202

Blackstone Drilling, Inc. 12-19-83

Contractor PO Box 1184 McPherson, KS 67460 Date

Branson Production, Inc #1 Foth-Goering
Operator Farm

CE²SWSW 35-T21S-R3W
Well Location

McPherson County, KS
County & State

Drilling Time

Samples

1 foot from 3100 to TD

10 foot from 3100 to TD

____ foot from ____ to ____

____ foot from ____ to ____

Call Depth 3400

Office 316/263-1481
Home 316/265-3483

Stop Depth 3540

Special Instructions: Particular care in drying samples.
Don't burn them.

Note all "shows" on geolograph charts.

T. G. Wright
T. G. Wright

