

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
 Revised 5-1-65

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 7-7-75	
Company Union Texas Petroleum				Connection			
Pool Blanco Mesa Verde				Formation Mesa Verde		Unit F	
Completion Date 6-16-75		Total Depth 5300		Plug Back TD 5210		Elevation 5997	
Csg. Size 4-1/2		Wt. 10.5		d 4.052		Set At 2932/5272	
Perforations: From 4351 To 5185		Well No. 6 A					
Tbg. Size 2-3/8		Wt. 4.7		d 1.990		Set At 5188	
Perforations: From 5188 To Open ended		Unit F		Sec. 35		Twp. 31N	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At		County San Juan			
Producing Thru		Reservoir Temp. °F @		Mean Annual Temp. °F		Baro. Press. - P _a	
State New Mexico							
L		H		G _g .65		% CO ₂	
				% N ₂		% H ₂ S	
Prover X		Meter Run		Taps			

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI	2"						550		578		11 days
1.	3/4" Pos. Choke			259	12	60	259		550		3 hrs.
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	11	--	271	1.000	1.217	1.025	3719
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	None	Mcfd/bbl.
1.	.3866	520	1.3867	.951	A.P.I. Gravity of Liquid Hydrocarbons		Deg.
2.					Specific Gravity Separator Gas	XXXXXX	
3.					Specific Gravity Flowing Fluid	XXXXX	
4.					Critical Pressure	P.S.I.A.	P.S.I.A.
5.					Critical Temperature	R	R

P _c 590	P _c ² 348100			
NO.	P _r ²	P _w	P _w ²	P _c ² - P _w ²
1	73441	562	315844	32256
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 10.79$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 5.954$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 22142$

RECEIVED
 JUL 16 1975
 OIL CON. COM.
 DIST. 3

Absolute Open Flow	22142	Mcfd @ 15.025	Angle of Slope @	5
Remarks: Flow through 6" choke nipple				

Approved By Commission:	Conducted By: Don Barnes	Calculated By: Donald B. Wells	Checked By:
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Union Texas Petroleum Division
Suite 1122 Lincoln Tower
Denver, Colorado 80203



July 14, 1975

New Mexico Oil Conservation Commission
P. O. Box 2088
Santa Fe, New Mexico 87501

Re: Johnston-Federal#3 A
and
Johnston-Federal#6 A
San Juan County, New Mexico

Gentlemen:

Enclosed are revised Multipoint and One Point Back Pressure Test for Gas Well forms on each of the above wells. While checking for the number of days shut in on shut in pressure (in response to a note from Mr. Arnold in the Aztec office), we discovered that an incorrect test date had been shown.

Please substitute the enclosed copies for those previously furnished to you.

Yours very truly,

A handwritten signature in cursive script that reads 'Donald B. Wells'.

DONALD B. WELLS
Assistant District Production Manager

cc: > New Mexico Oil Cons. Comm., 1000 Rio Brazos Road, Aztec, New Mexico 87410
New Mexico Oil Cons. Comm., P. O. Box 2045, Hobbs, New Mexico 88240
Mr. David O. Vilven, El Paso Natural Gas Co., P. O. Box 990, Farmington,
New Mexico 87401
Mr. E. I. Cerchie, Houston Office

Encl.

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