

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

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 7-2-75			
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		Farm or Lease Name Johnston-Federal	
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	Rge. 9W
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	Gg .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.	
SI	2"						550		578	
1.	3/4" Pos. Choke			259	12	60	259		550	
2.										
3.										
4.										
5.										

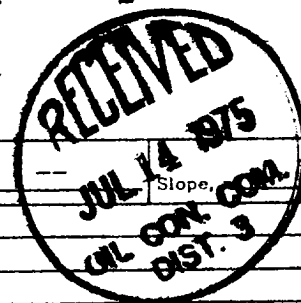
RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	11	--	271	1.000	1.217	1.025	3719
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	None	Mcf/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				(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 10.79$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 5.954$	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²		
1	73441	562	315844	32256		
2						
3						
4						
5						

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

AFFIDAVIT OF DEVIATION SURVEYS



Subject well: Johnston-Federal #6 A
SE NW Section 35-T31N-R9W
Blanco Mesaverde Field
San Juan County, New Mexico

<u>Depth</u>	<u>Deviation - Degrees</u>	<u>Horizontal Displacement - Feet</u>	<u>Cumulative</u>
290	3/4	2.80	3.80
648	3/4	4.69	8.49
1250	3/4	7.89	16.38
1738	1	8.54	24.92
2222	1	8.47	33.39
2710	1	8.54	41.93
3168	1-1/2	12.00	53.93
3651	1-1/4	10.53	64.46
4107	1-1/4	9.94	74.40
4800	1-1/4	15.11	89.51
5300	1-1/2	13.10	102.61

I hereby swear or affirm that the information given herewith is a complete and correct record of all deviation surveys on this well so far as can be determined from available records.

Signed *Donald B. Stoll*

Position Assistant District Production Manager

The The above Affidavit of Deviation Surveys was subscribed and sworn to before me this eleventh day of July, 19 75.

Ruth E. Whitself
Notary Public

My Commission expires April 22, 19 78.