

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-122
Revised 4-1-91

Submit in duplicate to
appropriate district office
See Rule 401 & Rule 1122

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

OIL CON. DIV

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator Dugan Production Corp.						Lease or Unit Name Cisco Com					
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 4/23/93		Well No. 91			
Completion Date 4/15/93			Total Depth 1420'			Plug Back TD 1380'		Elevation 6302' GL		Unit Loc. - Sec. - TWP - Rge. M-34-26N-13W	
Csg. Size 4 1/2"		Wt. 10.5		Set At 1420'		Perforations: From: 1286 To: 1316		County San Juan			
Tbg. Size 1 1/2"		Wt. 2.9		Set At 1281'		Perforations: From: N/A To: 		Pool Basin Fruitland Coal			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple single						Packer Set At none		Formation Fruitland			
Producing Thru tubing		Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press. - P _a 12.2		Connection none		Meter Run none	
L	H	Gg	% CO ₂	% N ₂	% H ₂ S	Prover	Taps				
0.5959											

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	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	
1.						195		195		7 days
2.										
3.	2	x 3/4"	6		68	6		46		3 hrs
4.										
5.										

RATE OF FLOW CALCULATIONS							
NO.	COEFFICIENT (24 HOUR)	$\sqrt{h_w P_w}$	Pressure P _w	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.							
2.							
3.	11		18	.9924	1.295	1.001	255
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	from Coal wells in area - .9978				A.P. L Gravity of Liquid Hydrocarbons	Deg
2.					Specific Gravity Separator Gas	XXXXXXXXXX
3.					Specific Gravity Flowing Fluid	XXXXXX
4.					Critical Pressure	P.S.I.A. P.S.I.A.
5.					Critical Temperature	R R

P _c 207		P _c ² 42849	
NO.	P _i ²	P _w	P _w ²
1.			
2.			
3.		58	3364
4.			
5.			

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0852$

2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0720$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 277$

Absolute Open Flow	277	Mcf @ 15.025	Angle of Slope θ	Slope, n 0.85
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Remarks:

Approved By Division	Conducted By: M. Brown	Calculated By: J. Alexander	Checked By:
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