

3 NMOC

2 MF

1 File

OIL CONSERVATION DIVISION

P. O. BOX 2088

Form C-122
Revised 10-1-78STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

SANTA FE, NEW MEXICO 87501

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED

DEC 8 1 1981

OIL CON. COM.
DIST. 3

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 12-28-81	
Company Dugan Production Corp.		Connection	
Pool Basin Dakota		Formation Dakota	
Completion Date 12-19-81		Total Depth 5632'	Plug Back TD 5520'
		Elevation 5355'	Farm or Lease Name Greek's Fete
Csg. Size 4 1/2"	Wt. 10.5#	d 4.052	Set At 5620'
		Perforations: From 5457 To 5472	
Tbg. Size 2-3/8"	Wt. 4.7#	d 1.995	Set At 5432
		Perforations: From open ended To	
Type Well - Single - Brdenhead - G.G. or G.O. Multiple Single gas		Packer Set At 5401	Well No. 2
Producing Thru tbg.		Reservoir Temp. °F #	Mean Annual Temp. °F
Baro. Press. - P _g		County San Juan	
State NM			
L 5420	H	G _g .62 est.	% CO ₂
		% N ₂	% H ₂ S
Prover		Meter Run	Taps
FLOW DATA			
NO.	Prover Line Size	X	Orifice Size
	Press. p.s.i.g.	Diff. h _w	Temp. °F
51			
1.			
2.			
3.	2-3/8"	1/2"	29 psi
4.			
5.			
TUBING DATA			
	Press. p.s.i.g.	Temp. °F	
	1640'		
CASING DATA			
	Press. p.s.i.g.	Temp. °F	
	Packer		
			3 hrs.
RATE OF FLOW CALCULATIONS			
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m
			Flow Temp. Factor F _t
			Gravity Factor F _g
			Super Compress. Factor, F _{pv}
			Rate of Flow Q, Mcfd
1			
2			
3	5,4315		41
4			1.0249
5			.9837
			1.000
			225
NO.	P _t	Temp. °R	T _t
			Z
	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.		
	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.		
1	Specific Gravity Separator Gas _____ X X X X X X X X		
2	Specific Gravity Flowing Fluid _____ X X X X X		
3	Critical Pressure _____ P.S.I.A. _____ P.S.I.A.		
4	Critical Temperature _____ R _____ R		
5			
P _c 1652	P _c ² 2,729,104		
NO.	P _t ²	P _w	P _w ²
1			
2			
3	41	1681	2,727,423
4			
5			
(1) $\frac{P_c^2}{P_t^2 - P_w^2} = 1.0006$			
(2) $\left[\frac{P_c^2}{P_t^2 - P_w^2} \right]^n = 1.0005$			
AOF = Q $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 225$			
Absolute Open Flow 225		Mcf @ 15.025	Angle of Slope @
			Slope, n .75
Remarks:			
Approved By Division		Conducted By: S. Dugan	Calculated By: T. Dugan
		Checked By:	