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MAR 13 1974

☐ Initial ☐ Annual ☒ Special 3-5-78		MAR 13 1974	
Name of Moderate Company		Division 8 TRANSWESTERN Southern Union Gas Company	
Loc. Dunton Flat (Morrow)		Formation Morrow	
Well Log No. 11-5-78	Total Depth 11,450	Plug Back TD 11,360	Elevation 3280' KG
Diameter 8 1/2 17#		Struck 11,450	Penetration 11,410 11,500 11,500 To 11,500
Diameter 8 1/2 9.5		Struck 10,342	Penetration 11,254 - 262 From To
Loc. Date Well No. Well No.		Loc. Date Well No. Well No.	
11-5-78 3-5-78 11-5-78 11-5-78		11-5-78 3-5-78 11-5-78 11-5-78	

Sample					10.968		E-14
Cross Section	Thermal Temp., °F	Ambient Temp., °F	Dens., g/cm ³				
Tubing	164	11,450	60		18.2		New Mexico
R	G	S.G.	H.N ₂	Mg%	Percent	Grain Size	Past
11.189	11.189	.600	.0008	.0025	7.754	0	X

[illegible]

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NO.	Coefficient (24 Hours)	$\sqrt{A \cdot P_m}$	Pressure P_m	Flow Temp. Factor F_t	Gravity Factor F_g	Super Compress. Factor, F_{sc}	Rate of Flow Q, Wd
1	14.98	63.61	798.2	.9752	1.2012	1.052	95300
2	14.98	152.66	218.2	.9804	1.2012	1.052	52250
3	14.98	122.91	218.2	.9832	1.2012	1.044	52500
4	14.98	210.05	208.2	.9837	1.2012	1.057	52500

NO.	P	Temp. °F	γ	Σ	Gas-Liquid Hydrocarbon Ratio _____	Moist. _____	Vol. % _____
					A.P.G. Gravity of Liquid Hydrocarbons _____		
1	1.18	517	1.53	.293	Specific Gravity Separator Cup _____	.800	Y X X X X X X X X X
2	1.20	541	1.51	.326	Specific Gravity Flowing Field _____	X X X X X	
3	1.21	535	1.49	.286	Critical Pressure _____	371	P.S.I.A. _____ P.S.I.A. _____
4	1.22	532	1.49	.278	Critical Temperature _____	553	°F _____ °F _____

P_0	P_1	$P_2 - P_1$	$\frac{P_0^2}{P_0^2 - P_1^2} = \frac{3333}{411}$	$\frac{P_1^2}{P_0^2 - P_1^2} = \frac{3333}{411}$
3197.5	3114	83		
3197.0	3099	182		
3194.7	3077	588		
3191.1	3050	411		

30719

100

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Midwest Surge has been double, according to

[illegible]

$\frac{d}{dt} \left(\frac{1}{r^2} \right) = -\frac{2}{r^3} \frac{dr}{dt}$

[illegible]