Initial Deliverability

NEW MEXICO OIL CONSERVATION COMMISSION GAS WELL TEST DATA SHEET - - SAN JUAN BASIN

(TO BE USED FOR FRUITLAND, PICTURED CLIFFS, MESAVERDE, & ALL DAKOTA EXCEPT BARKER DOME STORAGE AREA)

Flowing tubung pressure (Dwt)	PoolF	ulcher Kutz		Formation	Pictured	Cliffs C	ountySen J	(1981)	
Unit D Sec. 19 Twp 27 Rge. 9 Pgy Zone: From 2391 To 2457 Casing: OD 5-1/2 WT 14 Set At 2791 Tubing: OD 1" WT 1.70 T. Perf. Shoot Produced Through: Casing X Tubing Gas Gravity: Measured 469 Estimated Date of Flow Test: From 7/1/60 To 7/15/60 + Date S.I.P. Measured 4/6/60 Meter Run Size Onfice Size Type Chart Type Taps Plowing tubing pressure (Dwt)	Purchasing P	Pipeline Il Pas	o Matural (es Co.	[Oate Test File	d		
Unit D Sec. 19 Twp 27 Rge. 9 Pgy Zone: From 2391 To 2457 Casing: OD 5-1/2 WT. 14 Set At 2791 Tubing: OD 1" WT. 1.70 T. Perf. Shot Produced Through: Casing X Tubing Gas Gravity: Measured 46660 Meter Flux Test: From 7/1/60 To 7/15/60 + Date S.I.P. Measured 4/6/60 Meter Run Size Onfice Size Type Chart Type Tapa. Plowing acting pressure (Dwt) Psight 12 = Psight 12		El Paso Matura	l Gas Co.	Loggo	Lodewick		Well No	3	
Casing: OD 5-1/2 WT 14								2457	
Produced Through: Casing X									 ndWol
Date of Flow Test: From 7/7/60 To 7/15/60 + Date S.I.P. Measured 1/6/60									
Neter Run Size	Produced Th	rough: Casing	_ X Tu	bing	Gas Gravity: 1	Measured	.649 Estim	rated	
Description Paig + 12 =	Date of Flow	Test: From 7/	7/60 To	7/15/60	_* Date S.I.P. Me	easured	4/6/60		
Flowing costing pressure (Dwt)	Meter Run Si	ze	Or	ifice Size	T	ype Chart	Type T	`aps	
Flowing costing pressure (Dwt)				OBSERV	ED DATA				
Flowing meter pressure (Dwt)	Flowing casing	r pressure (Dwt)				psig + 12 =		psia	(a)
Flowing meter pressure (Dwt)									(b)
Normal chart reading	Flowing meter	pressure (Dwt)							(c)
Square root chart reading (. 11
Meter error (c) - (d) or (d) - (e)	Normal char	rt reading	\ ² = ansina						(d)
Friction loss, Flowing column to meter: (b) - (c) Flow through tubing: (a) - (c) Flow through cosing =									(e)
Seven day average static meter pressure (from meter chart): Normal chart average reading			ter:						
Normal chart average reading 206	(b) - (c) Flo	ow through tubing: (a)	- (c) Flow throu	igh casing		=		psi	(f) ·
Normal chart vertice reading (Seven day aver	rage static meter pres	sure (from meter	chart):	206		218		
Corrected seven day avage, meter press. (p_t) (g) + (e) = 218 psid psid psid psid psid psid psid psid	Normal cha	rt average reading)		psig + 12 =			(g)
Pt = (h) + (f) Pt = (h) + (f) + (f) Pt = (h) + (f)						=_==	218	•	(g) (h)
Wellhead casing shut-in pressure (Dwt)		even day avge. meter	press. (pf) (d)	(6)		=	218	•	(1)
Wellhead tubing shut-in pressure (Dwt)	Wellhead casin	ng shut-in pressure (D	wt)			psig + 12 =		psia	(i)
Flowing Temp. (Meter Run) T2 • F + 460 = 532							374	psia	(k)
Pd = ½ Pc = ½ (1) ELOW RATE CALCULATION Q =	$P_C = (j)$ or (k)	whichever well flowed	l through	730		=		•	(1)
Page		•		°F + 46	30	=			(m)
Company Comp	$P_d = \frac{1}{2} P_c = \frac{1}{2}$	(1)				=		bara	(n)
Q =			/ 57		CUI IMION	\			
DELIVERABILITY CALCULATION			FLC	DW RATE CAL	CULATION	\.			
DELIVERABILITY CALCULATION	0 -	Y	V(c)		=	\ <u>_</u>	254	MCF/	'da
DELIVERABILITY CALCULATION $D = Q $	`	<u> </u>							
DELIVERABILITY CALCULATION $D = Q $	(2	· - /	\ \v_{(d)}						
D = Q 254									
SUMMARY Pc = 37/4 psia Company R1 Paso Ratural Gas			DEI	LIVERABILIT	Y CALCULATIO	<u>N</u>			
SUMMARY Pc = 37/4 psia Company R1 Paso Ratural Gas		ΠP	2 - P3 \=	\neg					
Pc 3714	D = Q	254		011907	" <u>1.1359"</u>	 = .	283	MCF/d	la.
Pc 3714		(P	$\frac{2}{c} - P_{\mathbf{w}}^2 = \frac{2}{c}$	92352	1.1142				
Pc 374			- ,						
Q = 254	SUMM	IARY							
Pw = 218 Pd = 187 Psia Witnessed by Harold L. Kendrick P = 283 • Title Witnessed by Harold L. Kendrick • Meter error correction factor REMARKS OR FRICTION CALCULATIONS GL (1-e^-s) (FcQ)2 (FcQ) (1-e^-s) Pt2 Pt2 Pt2 Pt2 Pw				psia	Company	El Paso Ne	turel Ges	*	
Pw = 187 psia Title Witnessed by Harold L. Kendrick D = 283 Mcf/day Company • This is date of completion test. • Meter error correction factor REMARKS OR FRICTION CALCULATIONS GL (1-e^-s) (F _c Q)2 (F _c Q) ² (1-e^-s) Pt ² P _t ² + R ² P _w				Mcf/day	=	Original	Signed 7	#	4.
Mcf/day Company. • This is date of completion test. • Meter error correction factor REMARKS OR FRICTION CALCULATIONS GL (1-e^-s) (F _c Q)2 (F _c Q) ² (1-e^-s) Pt ² P _t ² + R ² P _w	- w			•		Harold	.		
• This is date of completion test. • Meter error correction factor REMARKS OR FRICTION CALCULATIONS GL (1-e^-s) $(F_cQ)^2$ $(1-e^{-s})$ Pt^2 $P_t^2 + R^2$ P_w	- 0			•	•		7	100	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
• Meter error correction factor REMARKS OR FRICTION CALCULATIONS			***	Mci/ddy	Company		10,		15 +
REMARKS OR FRICTION CALCULATIONS GL (1-e ^{-s}) (F _c Q)2 (F _c Q)2 P _t ² + R ² P _w							130	S 57 72	T.
GL $(1-e^{-2})$ $(F_cQ)2$ $P_t^2+R^2$ P_w	Mefer error Co	J. Jetton Metol	REMA	RKS OR FRICT	ION CALCULATIO	ONS		1 S	de l'
GL $(1-e^{-2})$ $(F_cQ)2$ $P_t^2+R^2$ P_w				(F∞)	2 (1-e-s)	Pt ²		_2/10/2	
Ti- (Column 1)	GL	(l~e ⁻⁵)	(F _c Q)2		•	(Colu-		R* F	w
	 				11-	(Column	1 4/		
Friction Negligible	j			Frietic	on Megligible				

D at 250 = 204

An intermitter was installed to facilitate the removal of liquids from the wellbore.