

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS

RECEIVED
APR 05 1985
OIL CON. DIV.
DIST. 3

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 3/11/85	
Company Union Texas Petroleum Corp.		Connection El Paso Natural Gas Company	
Pool Basin		Formation Dakota	
Completion Date 2/22/85		Total Depth 6815	Plug Back TD 6750
Elevation 6309		Farm or Lease Name Newsom "B"	
Csq. Size 7.000	Wt. 23.00 26.00	d 6.366 6.276	Set At 6815
Perforations: From 6490 To 6702		Well No. 11-E	
Tng. Size 2.375	Wt. 4.70	d 1.995	Set At 6611
Perforations: From Open-Ended To		Unit Sec. Twp. Rge. P 5 26N 8W	
Type Well - Single - Brdenhead - G.G. or G.O. Multiple Gas - Oil Dual		Packer Set At 6233	
Producing Thru Tubing		Reservoir Temp. °F #	Mean Annual Temp. °F
Baro. Press. - P _g 12		State New Mexico	
L 6599	H	G _g 0.650	% CO ₂ % N ₂ % H ₂ S Prover 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.	Temp. °F	
SI	2"		3/4"				1032				7 days
1.							83	64°			3 hours
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	12.3650		95	0.9962	0.9608	1.000	1124
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas _____ X X X X X X X X
3.					Specific Gravity Flowing Fluid _____ X X X X X
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

P _c 1044	P _c ² 1,089,936				(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0371$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0277$
NO.	P _r ²	P _w	P _w ²	P _c ² - P _w ²		
1			38,955	1,050,981		
2						
3						
4						
5						

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1155$

Absolute Open Flow 1155 Mcfd @ 15.025 Angle of Slope @ Slope, n 0.75

Remarks: Made estimated 2 bbl. of condensate and 13 bbl. of water

Approved By Division	Conducted By: Bruce Veiles	Calculated By: Ken Reddy	Checked By:
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