ENERGY AND MINERALS DEPARTMENT SANTA FE, NEW MEXICO 87501

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED
JAN 18 1985
OIL CON. DIV.
DIST. 3

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 1-14-85	
Company: Curtis J. Little		Connection: El Paso Natural Gas Co.			Unit
Pool: Basin		Formation: Dakota			
Completion Date: 1-5-85	Total Depth: 7080	Plug Back TD: 7047	Elevation: 6650 G.L.	Farm or Lease Name: Warren Federal	
Csg. Size: 4.500 / Wt.: 10.5 / d: 4.052 / Set At: 7088		Perforations: From 6769 To 6979		Well No.: 2E	
Tbg. Size: 2.375 / Wt.: 4.7 / d: 1.995 / Set At: 6884		Perforations: From open To Ended		Unit: H / Sec.: 35 / Twp.: 25 / Rge.: 6	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: None		County: Rio Arriba	
Producing Thru: Tubing	Reservoir Temp. °F	Mean Annual Temp. °F	Baro. Press. – P_a: 12 psia .est	State: New Mexico	
L	H	Gg: .650 est.	% CO_2	% N_2	% H_2S / Prover / Meter Run / Taps

NO.	Prover Line Size	X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA Press. p.s.i.g.	TUBING DATA Temp. °F	CASING DATA Press. p.s.i.g.	CASING DATA Temp. °F	Duration of Flow
SI	9 days					1597		1601		
1.	2 inch	.750	189			189	50°	644		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 Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	12.3650		201	1.0098	.9608	1.021	2462
2.							
3.							
4.							
5.							

NO.	P_t	Temp. °R	T_r	Z
1				
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas _____ XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

P_c 1613 P_c^2 2601769

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		656	430336	2171433
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.19818$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.145227$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2820$

Absolute Open Flow 2820 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .75

Remarks: Good show of oil throughout test

Approved By Division	Conducted By:	Calculated By:	Checked By:
	Joe Elledge	Joe Elledge	Curtis J. Little