

Submit in duplicate to
appropriate district office.
See Rule 401 & Rule 1122

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

Form C-122
Revised October, 1999

30-015-
30960

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator: HEYCO										Lease or Well Name: LOCO HILLS WELCH									
Type Test: ☒ Initial ☐ Annual ☐ Special										Well No: 4									
Completion Date: 5/3/00										Elevation: 51400									
Total Depth: 11153										Unit Ltr. - Sec. - TWP. - Rge: J 4-18-29									
Crg. Size: 5.5 WL: 17# d: 4.892 Set At: 11153										Perforations: From: 10891 To: 10904									
Tbg. Size: 2 3/8 WL: 4.7 d: 1.995 Set At: 10812										Perforations: From: To:									
Type Well: Single-Bradenhead G.G. or G.O. Multiple: SINGLE										Packer Set At: 10812									
Producing Thru: Tbg. Size: 10812										Baro. Press. - P _a : 13.2									
Reservoir Temp. °F: 182										Conn. Coef.: SALES									
Mean Annual Temp. °F: 60										Meter Run: 2.067									
L: 10812 H: 10812										Taps: FLG									
Q _g : 0.654										Prover: N/A									
%CO ₂ : 0.489										Meter Run: 2.067									
%N ₂ : 0.554										Taps: FLG									
%H ₂ S: N/A										Casing Data: Duration of Flow									
FLOW DATA										TUBING DATA									
No	Prover Line Size	Orifice Size	Press. p.s.i.g.	Diff. h.	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow									
1	2.067 X 1.375	168	2.7	116	2455	N/A	PKR	N/A	1 HR.										
2	2.067 X 1.375	175	8.7	112	2420				1 HR.										
3	2.067 X 1.375	295	20.7	94	2370				1 HR.										
4	2.067 X 1.375	341	107.1	63	2260				1 HR.										
RATE OF FLOW CALCULATIONS																			
No	COEFFICIENT (24 Hour)	$\sqrt{h_d P_a}$	Pressure P _a	Flow Temp. Factor Ft	Gravity Factor F _g	Super Compress Factor F _{pv}	Rate of Flow Q, Mcfd												
1							263												
2	GAS VOLUMES	MEASURED	BY	TOTAL	FLOW	METER	473												
3							999												
4							2517												
No P _r Temp. °R T _r Z							Gas Liquid Hydrocarbon Ratio: 59.056 Mcf/bbl.												
1 A.P. I. Gravity of Liquid Hydrocarbons: 56.5 Deg.																			
2 TOTAL FLOW METER							Specific Gravity Separator Gas: 0.654 XXXXX												
3							Specific Gravity Flowing Fluid: N/A XXXXX												
4							Critical Pressure: 673 P.S.I.A. P.S.I.A.												
5							Critical Temperature: 371 R R												
P _c : 2503.2 P _w : 6200																			
No	P _c ²	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{6.97}{17.564}$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{6.97}{17.564}$															
1	6092	2468.6	6094.2																
2	5920.5	2434.7	5927.6																
3	5679.6	2389.8	5711.4																
4	5167.4	2316.9	5368																
5																			
Absolute Open Flow: 17.564 Mcfd @ 15.025							Angle of Slope Q: 45 Slope n: 1												
Remarks: *WELL MADE 3 BBLs OF 56.5 API GRAVITY CONDENSATE DURING TEST.																			
Approved By Division:		Conducted By: PRO WELL TESTING		Calculated By: MB		Checked By: BM													