

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 9-24-75	
Company C & K Petroleum Inc.,				Connection None <i>Pending</i>	
Pool Wetset				Formation Morrow	
Completion Date 9-22-75		Total Depth 11,687		Plug Back TD 11,320 <i>11,625</i>	
Elevation 3315.54 GL <i>3309.69</i>		Farm or Lease Name Federal "22" Comm.			
Csg. Size 5 1/2	Wt. 17-20	Set At 11687	Perforations: From 11279 To 11293		Well No. 1
Tub. Size 2 7/8	Wt. 6.50 & 7.90	Set At 11097	Perforations: From Open To End		Unit 22 Sec. 24-S Twp. 26-E
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 11,101	
Producing Thru Tubing		Reservoir Temp. °F 182 @ 685		Mean Annual Temp. °F 70	
		Baro. Press. - P _a 13.2		State <i>New Mexico</i>	
L 11,293	H 11,279	Gg .580	% CO ₂	% N ₂	% H ₂ S
Prover			Meter Run 4.026		
Taps Flange					

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.	
SI						56	3165	56		
1.	4.026		1.250	220	22	70	3100	60	Pkr.	
2.	"		"	260	48	66	3055	52		
3.	"		"	570	62	78	2955	66		
4.	"		"	695	86	82	2735	68		
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	7.469	71.6268	233.2	.9905	1.313	1.016	706
2.	"	114.5146	273.2	.9943	"	1.019	1138
3.	"	190.1536	583.2	.9831	"	1.050	1925
4.	"	246.7898	708.2	.9795	"	1.049	2487
5.							

NO.	P _r	Temp. °F	P _r	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ None _____ Mcf/bbl.			
						A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.			
						Specific Gravity Separator Gas _____ XXXXXXXXXX			
						Specific Gravity Flowing Fluid _____ XXXXX			
						Critical Pressure _____ P.S.I.A. _____ P.S.I.A.			
Critical Temperature _____ R _____ R									

OFFICE				
P _c 3178.2	P _c 2410.100			
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1		3113.2	9692	408
2		3068.2	9414	686
3		2968.2	8810	1290
4		2748.2	7553	2547
5				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 7.8294$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 11,615$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 6.03371$$

Absolute Open Flow	11,615	Mcfd @ 15.025	Angle of Slope	48.7	Slope, n	8734
Remarks:						

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	C. Allen Dorsey	C. Allen Dorsey	