

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 6-22-79	
Company Palmer Oil & Gas Company				Connection Dakota		
Pool Basin				Formation Dakota		Unit
Completion Date 6-15-79		Total Depth 7059		Plug Back TD 7010		Elevation 5866 G.L.
Casing Size 4.500		WT. 20.7		d 6.456		SS 9001
4.500		11.6/10		54.052		7050
Tub. Size 2 3/8		WT. 4.7		d 1.995		SS 5923
2 1/16		3.25		1.751		6907
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G.G. Dual				Packer Set At 5918		Well No. 1
Producing Thru Tubing		Reservoir Temp. °F @		Mean Annual Temp. °F		Baro. Press. - P _a 12 psia (est)
L		H		Gg		Prover
				.670		Meter Run
				% CO ₂		Taps
				% N ₂		
				% H ₂ S		

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	
SI	7 days						1778		
1.	2 inch	.750		78			78	56	3 hour
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		90	1.0039	.9463	1.011	1069
2.							
3.							
4.							
5.							

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

P _c 1790	P _c ² 3,204,100	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.01355$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.01014$
NO. 1	P _w ² 8100	P _w 207	P _w ² 42,849
2			
3			
4			
5			

Absolute Open Flow 1080 Mcfd @ 15.025		Angle of Slope θ	Slope, n .75
Remarks: 4 1/2 - 10.5 + 11.6 lines from 4892' to 7050'			
Good show of oil - Well flared throughout test			
Approved By Commission:	Conducted By: Joe F. Elledge	Calculated By: Joe F. Elledge	Checked By: Bob Ballantyne

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 6-29-79	
Company Palmer Oil & Gas Company					Connection	
Pool Blanco			Formation Mesaverde		Unit	
Completion Date 6-15-79		Total Depth 7059		Plug Back TD 7010		Elevation 5866 G.L.
Farm or Lease Name B. Montoya #25		Well No. 1				
Csg. Size 7.000	Wt. 20#	d 6.456	Set At 5001	Perforations: From 4566 To 4842		Well No.
Tbg. Size 2.063	Wt. 3.25	d 1.751	Set At 4629	Perforations: From Open To Ended		Unit H
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G. G. Dual				Packer Set At 5918		County San Juan
Producing Thru Tubing		Reservoir Temp. °F @		Mean Annual Temp. °F		State New Mexico
L	H	Gg .670 (est)	% 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	14 days						1040		1040		
1.	2 inch	.750	148				148	64	551		3 hrs
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		160	.9962	.9463	1.016	1895
2.							
3.							
4.							
5.							

NO.	R _t	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 1052	P _c ² 1,106,704	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.02368$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0177$
NO.	P _t ²	P _w	P _w ²
1		160	25,600
2			
3			
4			
5			

Absolute Open Flow _____ Mcfd @ 15.025		Angle of Slope @ _____		Slope, n _____ 75
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Remarks: Show of oil-flared throughout test. No packer leak

Approved By Commission:	Conducted By: Joe F. Elledge	Calculated By: Joe F. Elledge	Checked By: Mr. Bob Ballantyne
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