

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 11-11-75	
Company GREAT WESTERN DRILLING CO.						Connection	
Well KEMNITZ						Formation ATOKA	
Completion Date 11-7-75		Total Depth 12,800'		Plug Back 12,747'		Elevation 4159'GL	
Well No. 1		Perforations: From 12,660' To 12,686'		Perforations: From To		Farm or Lease Name STATE 13	
Well Size 7"		WT. 26 29		Set At 12,800'		Unit P	
Tub. Size 2-3/8"		WT. 4.70		Set At 12,552'		Sec. 13 Twp. 16 Rge. 33	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE						Packoff Set At 12,552'	
Producing Thru TUBING						County LEA	
Reservoir Temp. °F 178		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		State NEW MEXICO	
L 12552		H 12552		Cg .702		% CO ₂ .464	
				% N ₂ 2.455		% H ₂ S --	
				Provor		Motor Run 4"	
						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.	Temp. °F	
51							3503	70			Choke
1.	4 x 1.50			540	40	92	850	70			24/64
2.	4 x 1.50			540	25	92	1350	70			20/64
3.	4 x 1.50			540	17	90	1760	70			16/24
4.	4 x 1.50			540	10	90	2350	70			10/64
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor F _{pv}	Rate of Flow Q, Mcfd
1	10.84	149.	553.2	.9706	1.194	1.053	1971
2	10.84	118.	553.2	.9706	1.194	1.053	1561
3	10.84	97.	553.2	.9723	1.194	1.053	1285
4	10.84	74.	553.2	.9723	1.194	1.053	981
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 24.94 Mcf/lbl.		
					A.P.I. Gravity of Liquid Hydrocarbons 56 @ 60 Deg.		
1	.831	552	1.43	.902	Specific Gravity Separator Gas .702	XXXXXXX	
2	.831	552	1.43	.902	Specific Gravity Flowing Fluid XXXXXX		
3	.831	550	1.43	.902	Critical Pressure 666 P.S.I.A.	P.S.I.A.	
4	.831	550	1.43	.902	Critical Temperature 385 R	R	
5							

NO.	P _f	P _s	P _f ² - P _s ²	$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2436$
1	2617.2	6849	28091	
2	3527.2	12441	22499	
3	4067.2	16542	18398	
4	4580.2	20978	13962	
5				

Absolute Open Flow 2436 Mcfd @ 15.025		Angle of Slope 45°	Slope, n .9948
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Remarks: **Open flow calculated from BHP data using Amerada RPG.3 Ser. No. 36826**

Approved By Commission: <i>Jerry Sexton</i>	Conducted By: Larry Davis	Calculated By: Larry Davis	Checked By: Roger Artley
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GREAT WEST DRILLING COMPANY
KEMNITZ ATOKA
STATE 13, NO. 1
LEA COUNTY, NEW MEXICO
NOVEMBER 11, 1975

