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State of New Mexico
Energy, Minerals and Natural Resources Department

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Form C-122
Revised 4-1-91

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator AMOCO PRODUCTION COMPANY						Lease or Unit Name TELEDYNE 18					
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 01/27/93		Well No. 1			
Completion Date 1/18/93		Total Depth 13,324		Plug Back TD 13,284		Elevation 2977 RDB		Unit Ltr. - Sec. - TWP - Rge. J 18 23S 29E			
Csg. Size 7 5/8"		Wt. 17.93		Set At 11406		Perforations: From: 12816 To: 12860		County EDDY			
Dpg. Size 2 3/8"		Wt. 8.7		Set At 11006		Perforations: From: OPEN To: ENDED		Pool LAGUNA SALADO			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple DUAL COMPLETION						Packer Set At 12684		Formation MORROW & ATOKA			
Producing Thru TBG		Reservoir Temp. °F 202@12823		Mean Annual Temp. °F 60		Baro. Press - P _a 13.2		Connection EPNG CO.			
L **12823	H 12823	Gg .584	% CO ₂ 1.13	% N ₂ .18	% H ₂ S	Prover		Meter Run 6.065		Taps FLG	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	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						3565		PKR		24 HRS
1.	6	*	2.50	54.4	4.00	41	3390	"		1 HR
2.	6	*	2.50	65.2	17.64	26	2992	"		1 HR
3.	6	*	2.50	95.7	38.44	25	2205	"		1 HR
4.	6	*	2.50	109.3	57.76	23	1300	"		1 HR
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, F _{pv}	Rate of Flow Q, Mcfd
1.	30.31	16.44	67.60	1.019	1.309	1.006	669
2.	30.31	37.18	78.40	1.034	1.309	1.007	1536
3.	30.31	64.70	108.90	1.035	1.309	1.007	2674
4.	30.31	84.11	122.50	1.038	1.309	1.007	3490
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	DRY GAS	Mcf/bbl.
1.	.10	501	1.43	.988	A.P. I. Gravity of Liquid Hydrocarbons	DRY	Deg.
2.	.11	486	1.39	.987	Specific Gravity Separator Gas	.584	XXXXXXXXXX
3.	.16	485	1.38	.987	Specific Gravity Flowing Fluid	XXXXXX	
4.	.18	483	1.38	.987	Critical Pressure	*676	P.S.I.A. P.S.I.A.
5.					Critical Temperature	*349	R R

NO.	P _c	P _w	P _c ²	P _w ²	P _c ² - P _w ²
1.	3609.6	3445.1	13029.2	11868.7	1160.5
2.		3076.5		9464.8	3564.4
3.		2327.4		5416.7	7612.5
4.		1485.2		2205.8	10823.4
5.					

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.204$		2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.148$	
AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4.006$			

Absolute Open Flow	4,006	Mcf @ 15.025	Angle of Slope θ	53.5	Slope, n	.745
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Remarks: **NO FLUID PRODUCED DURING TEST. * CORRECTED TO 1.13% CO₂.**

**** BHP INSTRUMENT SET @ 12,823**

Approved By Division	Conducted By: JOHN WEST ENG. CO.	Calculated By: GW	Checked By: BM
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