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OCT 31 1975

CITIES SERVICE OIL CO.				To AIR							
Pool LA-Huerta				Formation MORROW				Unit O.C.C. ARTESIA, OFFICE			
Completion Date 10-20-75		Total Depth 11,571'		Plug Back TD 11,544'		Elevation 3116		Form or Lease Name IVES "A"			
Csq. Size 5 1/2"	Wt. 17#	d 4.892	Set At 11,571'	Perforations: From 11,186' To 11,196'				Well No. 1			
Tbg. Size 2 7/8"	Wt. 6.5#	d 2.441	Set At 11,096'	Perforations: From OPEN To ENDED				Unit Soc. Twp. Rye. J 30 21S 27E			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE						Packer Set At 11,085'		County EDDY			
Producing Thru TUBING		Reservoir Temp. °F 184 @ 11,200'		Mean Annual Temp. °F 60		Baro. Press. - P _g 13.2		State NEW MEXICO			
L 11200	H 11200	Gg 0.6018	% CO ₂ 0.98	% N ₂ 0.29	% H ₂ S -0-	Prover ---	Meter 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	Duration of Flow
SI							3750.0		PACKER	CHOKE	69 HRS.
1.	4" x	2.50"		450.0	1.0	97	3640.0	76		8/64	1 HR.
2.	4" x	2.50"		450.0	5.0	78	3580.0	77		10/64	1 HR.
3.	4" x	2.50"		475.0	12.0	83	3488.0	78		12/64	1 HR.
4.	4" x	2.50"		480.0	22.0	72	3390.0	78		14/64	1 HR.
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	32.64	21.52	463.2	.9662	1.289	1.031	902
2	32.64	48.12	463.2	.9831	1.289	1.036	2062
3	32.64	76.54	488.2	.9786	1.289	1.037	3268
4	32.64	104.17	493.2	.9887	1.289	1.040	4507
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NO.	F _t	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	Critical Temperature
1	0.69	557	1.56	.940	298.3 Mcf/bbl.		0.6018	X X X X X X X X		
2	0.69	538	1.50	.931				X X X X X		
3	0.73	543	1.52	.930					P.S.I.A.	P.S.I.A.
4	0.74	532	1.49	.925						R
5										

NO.	P _f	P _s	P _f ²	P _s ²	P _f ² - P _s ²
1	13346	4758.2	22640	914	
2	12911	4701.2	22101	1453	
3	12258	4627.2	21411	2143	
4	11582	4541.2	20622	2932	
5					

(1) $\frac{P_f^2}{P_f^2 - P_s^2} = 8.0334$ (2) $\left[\frac{P_f^2}{P_f^2 - P_s^2} \right]^n = 8.0334$

ACF = Q $\left[\frac{P_f^2}{P_f^2 - P_s^2} \right]^n = 36,207$

Absolute Open Flow	36,207 Mcfd @ 15.025	Angle of Slope @	45.0°	Slope, n	1.00 LIMIT
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Remarks: BOTTOM HOLE PRESSURES MEASURED WITH AMERADA GAUGE @ 11,200 FEET.
GOOD POINT ALIGNMENT BUT SLIGHTLY IN EXCESS OF 1.000 LIMITS.

Approved By Commission:	Conducted By: G.J.P.	Calculated By: R.L.W.	Checked By: J.W.W.
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