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See Rule 401 & Rule 1122

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-122
Revised 4-1-91

OIL CONSERVATION DIVISION

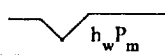
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

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151.
File

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator MEWBOURNE OIL					Lease or Unit Name ILLINOIS CAMP 17				
Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 10-4-93		Well No. 1		
Completion Date 8-18-93		Total Depth 10475		Plug Back TD 10489'		Elevation 3615' GL		Unit Ltr. - Sec. - TWP - Rge. P 17 - 18S - 28E	
Csg. Size 5 1/2	Wt. 17	d	Set At 10475	Perforations: From: 10251 To: 10378				County EDDY	
Tbg. Size 2 3/8	Wt. 4.7	d	Set At 10155'	Perforations: From: To:				Pool N. Illinois Camp No. 2	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple single				Packer Set At 10155'				Formation	
Producing Thru		Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press - P _a 13.2		Connection	
L 10252	H 10252	Gg .650	% CO ₂ .5	% N ₂ 1.8	% H ₂ S	Prover		Meter Run 4	Taps flg.
FLOW DATA					TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	Orifice X Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	
SI						2675		Pkr	
1.	4 X 2.75		22.7	8	75.3	2550		"	
2.	4 X 2.75		24.2	21	69.6	2450		"	
3.	4 X 2.75		30	57.5	66.9	2075		"	
4.	4 X 2.75		34.7	84.3	65.6	1850		"	
5.									
RATE OF FLOW CALCULATIONS									
NO.	COEFFICIENT (24 HOUR)		Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg.	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd		
1.	41.10	16.95	35.9	.9859	1.240	1.004	855		
2.	41.10	28.03	37.4	.9915	1.240	1.004	1422		
3.	41.10	49.84	43.2	.9933	1.240	1.005	2536		
4.	41.10	63.55	47.9	.9943	1.240	1.005	3236		
5.									
NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 108.823 Mcf/bbl.				
1.	.054	535.3	1.44	.992	A.P. I. Gravity of Liquid Hydrocarbons 71.3 Deg.				
2.	.056	529.6	1.42	.992	Specific Gravity Separator Gas .650 XXXXXXXXXX				
3.	.065	526.9	1.416	.991	Specific Gravity Flowing Fluid XXXXXX				
4.	.072	525.6	1.41	.990	Critical Pressure 669 P.S.I.A. P.S.I.A.				
5.					Critical Temperature 372 R R				
P _c * 2822.1 P _c 2 7964.25									
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.923$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.742$				
1.	*	2662.4	7088.4	875.9	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 5.637$				
2.	*	2518.8	6344.4	1619.9					
3.	*	2192.2	4805.7	3158.55					
4.	*	1955.0	3822.0	4142.25					
5.									
Absolute Open Flow 5.637 Mcfd @ 15.025					Angle of Slope θ 49		Slope, n .849		
Remarks: * FROM KNOWN BHP'S. WELL MADE 3 BBL'S. 71.3 GRAV. OIL @60°									
Approved By Division			Conducted By: PRO WELL TESTERS		Calculated By: KS		Checked By: KS		