

Submit in duplicate to
appropriate district office.
See Rule 401 & Rule 1122

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

Form C-122
Revised October, 1999

RECEIVED
AUG 18 2005
OCCASION

30-015-33905

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator MEWBOURNE OIL					Lease or Unit Name RUGER 6 FEDERAL				
Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 4/23/2005		Well No. 1		
Completion Date 4/20/2005		Total Depth 11570		Plug Back TD 11494		Elevation 3286		Unit Ltr - Sec - TWP - Rge H 6- 20S - 29E	
Csg. Size 5 1/2	Wt. 17	d 4.892	Set At 11570	Perforations: From: 11384 To: 11394		County EDDY			
Tbg. Size 2 7/8	Wt. 6.5	d 2.44	Set At 11394	Perforations: From: To:		Pool E. BURTON FLAT			
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE				Packer Set At 11264		Formation MORROW			
Producing Thru TUBING		Reservoir Temp. 181		Mean Annual Temp. 60		Baro. Press.-P _a 13.2		Connection FLANGE	
L 11394	H 11394	Gg 0.616	%CO ₂ 0.727	%N ₂ 0.331	%H ₂ S 0	Prover N/A	Meter Run SALES	Taps FLG	
FLOW DATA					TUBING DATA			CASING DATA	
No.	Prover Line Size	Orifice x Size	Press p.s.i.g.	Diff. h _w	Temp.	Press p.s.i.g.	Temp.	Press p.s.i.g.	Temp.
SI						1900			
1	3.0	X 1.000	553	8.1	74	498			24 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 F _g	Super Compress Factor F _{pv}	Rate of Flow Q, Mcfd	
1	6.4							445	
2									
3									
4									
5									
No.	P _r	Temp. R	T _r	Z	Gas Liquid Hydrocarbon Ratio N/A Mcf bbl.				
1					A.P. I. Gravity of Liquid Hydrocarbons N/A Deg.				
2					Specific Gravity Separator Gas 0.616 XXXXXXXX				
3	TOTAL	FLOW			Specific Gravity Flowing Fluid N/A XXXXXX				
4					Critical Pressure 675 P.S.I.A. N/A P.S.I.A.				
5					Critical Temperature 358 R. N/A R				
P _c 1913.2 P _{c2} 3660.3									
No.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) P _c ² = 1.08 (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.08$				
1		519.3	269.7	3390.6					
2									
3									
4									
5									
Absolute Open Flow 480 Mcfd @ 15.025					Angle of Slope 0: 45 Slope, n: 1				
Remarks: WELL MADE 5 BBLs OF 56.3 API GRAVITY CONDENSATE DURING TEST.									
Approved By Division:			Conducted By: MEWBOURNE		Calculated By: MERV BUECKER		Checked By: MB		

MEWBOURNE OIL
RUGAR 6 FED #1



