

30-015-3378

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

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AUG 18 2005
OIL CONSERVATION

Form C-122
Revised October, 1999

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator MEWBOURNE OIL				Lease or Unit Name ANGEL DRAW 2 ST COM			
Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 3/15/2005		Well No. 2	
Completion Date 3/14/2005		Total Depth 11170		Plug Back TD 11101		Elevation 3387 GL	
Csg. Size 5 1/2		Wt. 17		d 4.892		Set At 11170	
Tbg. Size 2 7/8		Wt. 6.5		d 2.441		Set At 10298	
Perforations: From: 10682 To: 10784				County EDDY			
Perforations: From: To:				Pool ANGEL RANCH			
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE				Packer Set At 10252		Formation ATOKA MORROW	
Producing Thru TUBING		Reservoir Temp. 181		Mean Annual Temp. 60		Baro. Press.-P _a 13.2	
Connection SALES		L 10298		H 10298		Taps FLG	
Gg 0.633		%CO ₂ 1.078		%N ₂ 0.462		%H ₂ S 0	
Prover N/A		Meter Run 3.067					
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.
SI						2100	
1	3.067 X 1.500		416	55	92	1200	
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}
1							
2							
3	TOTAL		FLOW	METER			
4							
5							
No.	P _r	Temp. R	T _r	Z	Gas Liquid Hydrocarbon Ratio N/A		
1					A.P. I. Gravity of Liquid Hydrocarbons N/A		
2					Specific Gravity Separator Gas 0.633		
3	TOTAL	FLOW	METER		Specific Gravity Flowing Fluid N/A		
4					Critical Pressure 673 P.S.I.A.		
5					Critical Temperature 364 R		
P _c 2113.2 P _{c2} 4465.6							
No.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{1.507}{1.507 - 1.226} = 1.507$		
1		1226	1503	2962.6			
2							
3							
4							
5							
AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.361$							
Absolute Open Flow [1.361] Mcfd @ 15.025				Angle of Slope 0: 45		Slope, n: 1	
Remarks: WELL MADE 7 BBLS OF 55.0 API GRAVITY CONDENSATE DURING TEST.							
Approved By Division:		Conducted By: MEWBOURNE OIL		Calculated By: MERV BUECKER		Checked By: MB	

MEWBOURNE OIL
ANGEL DRAW 2 ST COM #2



