

BTU - 1034.04

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLForm C-122
Revised 9-1-65

RECEIVED

Corrected

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 1-18-79		MAY 9 1979	
Company CONTINENTAL OIL COMPANY						Connection NONE		O. C. C. ARTESIA, OFFICE	
Pool UNDESIGNATED MDEBOW						Formation MDEBOW		Unit	
Completion Date 1-16-79		Total Depth 10,595'		Plug Back TD 10,366'		Elevation 3257.54'		Farm or Lease Name FEDERAL 34	
Csg. Size 7"	Wt. 26#	d 6.276	Set At 10,437	Perforations: From 10,296' To 10,300'		Well No. 1			
Thq. Size 2 7/8"	Wt. 6.5#	d 2.441	Set At 10,267'	Perforations: From OPEN To ENDED		Unit Sec. Twp. Rge. N 34 20S 26E			
Type Well - Single - Brazenhead - G.G. or G.O. Multiple SINGLE						Packer Set At 10,210'		County EDDY	
Producing Thru TUEBOW		Reservoir Temp. °F 145° @ 10,354'		Mean Annual Temp. °F 60°		Baro. Press. - P _a 13.2		State NEW MEXICO	
L	H	Gg .582	% CO ₂ .64	% N ₂ .27	% H ₂ S	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	
SI	(AFTER 17 HRS)						3475	60°			17 hrs
1.	4" X	1.750"	4.00	12.5	103	3257	67°				1 HR.
2.	4" V	1.750"	4.00	20.5	109	3203	68°				1 HR.
3.	4" V	1.750"	4.00	43.5	96	3176	68°				1 HR.
4.	4" V	1.750"	4.40	56.5	78	3051	68°				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, Fpv	Rate of Flow Q, Mcfd
1	14.93	71.67	413.2	.9612	1.311	1.025	1386
2	14.93	92.04	413.2	.9560	1.311	1.025	1765
3	14.93	134.07	413.2	.9653	1.311	1.025	2596
4	14.93	163.51	473.2	.9631	1.311	1.037	3263
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.	
1	.61	563	1.6	.951	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.	
2	.61	569	1.6	.951	Specific Gravity Separator Gas _____ X X X X X X X X	
3	.61	556	1.6	.951	Specific Gravity Flowing Fluid _____ X X X X X	
4	.70	536	1.5	.930	Critical Pressure _____ P.S.I.A. _____ P.S.I.A.	
5					Critical Temperature _____ R _____ R	

NO.	P _i	P _w	P _w ²	P _e ² - P _w ²	(1) $\frac{P_e^2}{P_e^2 - P_w^2} =$	(2) $\left[\frac{P_e^2}{P_e^2 - P_w^2} \right]^n =$
1	9370.2	4220.9	17816.0	1241.6	4.708	3.132
2	3316.2	4158.2	17290.6	1767.0		
3	3189.2	4015.0	16120.2	2937.4		
4	3064.2	3674.2	1509.4	4042.2		
5						

$P_e = 4365.5$ $P_e^2 = 19057.6$

AOF = Q $\left[\frac{P_e^2}{P_e^2 - P_w^2} \right]^n = \frac{10,220}{10,220 \text{ A.M.C.F.}}$

Absolute Open Flow	10,220	Mcfd @ 15.025	Angle of Slope θ	53.6	Slope, n	.737
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Remarks: _____

Approved By Commission:	Conducted By: Tom C. ADUPELL	Calculated By:	Checked By:
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