

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122 *CSF File*

Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special						Test Date 07/16/1992									
Company Yates Petroleum Corp				Connection El Paso Natural Gas											
Pool Upper Penn				Formation Indian Loafer				Unit							
Completion Date 07/15/92		Total Depth 8500		Plug Back TD 7595		Elevation 4420		Farm or Lease Name Mescal SE Federal							
Csg. Size 5.500	Wt. 17.000	d 4.892	Set At 8500	Perforations From 5872 To 6030		Well No. 1									
Tbg. Size 2.875	Wt. 6.500	d 2.441	Set At 5819	Perforations: From 5872 To 6030		Unit C	Sec. 18	Twp. 21S	Rge. 22E						
Type Well Single				Packer Set At 5819		County Eddy									
Producing Thru Tubing		Resv. Temp. °F 180 @ 8132		Mean Temp. °F 62		Baro Press - Pa 13.2		State New Mexico							
L 5819	H 5819	Gg 0.659	%CO ₂ 0.526	%N ₂ 1.245	%H ₂ S 0.000	Prover 0.000	Meter Run 4.000	Taps Flange							
FLOW DATA					TUBING DATA			CASING DATA		Duration of Flow					
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow				
Sl.	0.000	x	0.000	0	0.0	0	1510	0			0				
1.	4.026	x	1.500	705	2.0	105	1325	62			24				
2.	4.026	x	1.500	705	5.0	99	1118	62			24				
3.	4.026	x	1.500	705	8.0	103	912	62			24				
4.	4.026	x	1.500	705	12.0	101	705	62			24				
5.		x													
RATE OF FLOW CALCULATIONS															
NO.	Coefficient (24 Hour)	\sqrt{hwPm}	Pressure Pm	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd								
1.	10.840	37.9	718.2	0.9593	1.232	1.054	512								
2.	10.840	59.9	718.2	0.9645	1.232	1.056	815								
3.	10.840	75.8	718.2	0.9610	1.232	1.054	1026								
4.	10.840	92.8	718.2	0.9627	1.232	1.055	1259								
5.															
NO.	Pr	Temp °R	Tr	Z	Gas Liquid Hydrocarbon Ratio	0		Mcf/bbl.							
1.	1.07	565	1.52	0.901	A.P.I. Gravity of Liquid Hydrocarbons	0.000		Deg.							
2.	1.07	559	1.51	0.897	Specific Gravity Separator Gas	0.659		XXXXXXXXXX							
3.	1.07	563	1.52	0.899	Specific Gravity Flowing Fluid	XXXXXXXXXX		0.659							
4.	1.07	561	1.51	0.898	Critical Pressure	670		P.S.I.A.		670 P.S.I.A.					
5.					Critical Temperature	371		°R		371 °R					
Pc	1523.2	Pc'	2320.1												
NO.	Pt'	Pw	Pw'	Pc' - Pw'	(1) $\frac{Pc'}{Pc' - Pw'}$	=	2.240	(2) $\left[\frac{Pc'}{Pc' - Pw'} \right]^n$	=	1.739					
1.	1790.8	1338.9	1792.5	527.6											
2.	1279.6	1133.2	1284.2	1036.0											
3.	856.0	929.2	863.4	1456.7											
4.	515.8	726.2	527.3	1792.8											
5.															
Absolute Open Flow					1417		Mcf @ 15.025		Angle of Slope		0 34				
									Slope, n		0.686				
Remarks:															
Approved By Commission:				Conducted By: Tracy Richardson				Calculated By: Andrea Carpenter				Checked By:			