

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

Form C-122
 Revised 9-1-65

RECEIVED

NOV - 8 1973

Type Test ☒ Initial ☐ Annual ☐ Special			Test Date 11-5-73		NOV - 8 1973																																																																																								
Company Monsanto Company			Connection None		O. C. C. ARTESIA, OFFICE																																																																																								
Pool Burton Flat Morrow			Formation Morrow		Unit G																																																																																								
Completion Date 11-5-73		Total Depth 11,450		Plug Back TD 11,360		Elevation 3230 KB																																																																																							
Farm or Lease Name Burton Flat/Unit						Well No. 6																																																																																							
Csq. Size 5 1/2	Wt. 17#	Set At 11,450	Perforations: 11,114 - 11,120 From 11,126 To 11,164																																																																																										
Trq. Size 2 1/2	Wt. 6.5	Set At 10,942	Perforations: 11,234 - 162 From To		Unit Sec. Twp. Rye. G 34 20-S 28-E																																																																																								
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single			Packer Set At 10,938		County Eddy																																																																																								
Producing Thru Tubing		Reservoir Temp. °F 164 @ 11,450	Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2																																																																																								
State New Mexico																																																																																													
L 11,188	H 11,188	G _g .600	% CO ₂ .009	% N ₂ .0025	% H ₂ S 0	Prover Meter Run X																																																																																							
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="5">FLOW DATA</th> <th colspan="2">TUBING DATA</th> <th colspan="2">CASING DATA</th> <th rowspan="2">Duration of Flow</th> </tr> <tr> <th>NO.</th> <th>Prover Line Size</th> <th>X</th> <th>Orifice Size</th> <th>Press. p.s.i.g.</th> <th>Diff. h_w</th> <th>Temp. °F</th> <th>Press. p.s.i.g.</th> <th>Temp. °F</th> <th>Press. p.s.i.g.</th> <th>Temp. °F</th> </tr> <tr><td>SI</td><td></td><td></td><td></td><td></td><td></td><td></td><td>3662</td><td>52</td><td></td><td></td></tr> <tr><td>1.</td><td>4.0</td><td></td><td>2.25</td><td>890</td><td>15</td><td>74</td><td>3610</td><td>70</td><td></td><td>.5 Hr</td></tr> <tr><td>2.</td><td>4.0</td><td></td><td>2.25</td><td>900</td><td>28</td><td>69</td><td>3555</td><td>73</td><td></td><td>.5 Hr</td></tr> <tr><td>3.</td><td>4.0</td><td></td><td>2.25</td><td>915</td><td>61</td><td>64</td><td>3420</td><td>76</td><td></td><td>.5 Hr</td></tr> <tr><td>4.</td><td>4.0</td><td></td><td>2.25</td><td>925</td><td>94</td><td>57</td><td>3265</td><td>78</td><td></td><td>.5 Hr</td></tr> <tr><td>5.</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>							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							3662	52			1.	4.0		2.25	890	15	74	3610	70		.5 Hr	2.	4.0		2.25	900	28	69	3555	73		.5 Hr	3.	4.0		2.25	915	61	64	3420	76		.5 Hr	4.	4.0		2.25	925	94	57	3265	78		.5 Hr	5.										
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RATE OF FLOW CALCULATIONS																																																																																													
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{py}	Rate of Flow Q, Mscf																																																																																						
1	25.64	116.40	903.2	.9868	1.291	1.073	4080																																																																																						
2	25.64	159.90	913.2	.9915	1.291	1.076	5647																																																																																						
3	25.64	237.95	928.2	.9962	1.291	1.081	8482																																																																																						
4	25.64	296.97	938.2	1.003	1.291	1.088	10727																																																																																						
5																																																																																													
NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 1039 Mscf/bbl. A.P.I. Gravity of Liquid Hydrocarbons 56° Deg. Specific Gravity Separator Gas .600 XXXXXXXXXX Specific Gravity Flowing Fluid XXXXXX .7587 Critical Pressure 671 P.S.I.A. 671 P.S.I.A. Critical Temperature 358 R 358 R																																																																																								
1	1.35	534	1.49	.868																																																																																									
2	1.36	529	1.48	.864																																																																																									
3	1.38	524	1.46	.855																																																																																									
4	1.40	517	1.44	.845																																																																																									
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P _r 3675.2 P _c ² 13507 (1) $\frac{P_c^2}{P_r^2 - P_w^2} = \frac{13507}{2380}$ (2) $\left[\frac{P_c^2}{P_r^2 - P_w^2} \right]^n = 5.675$																																																																																													
NO.	P _r ²	P _w	P _w ²	P _r ² - P _w ²	AOF = Q $\left[\frac{P_c^2}{P_r^2 - P_w^2} \right]^n = 60878$																																																																																								
1		3651.7	13335	172																																																																																									
2		3471.5	12051	1456																																																																																									
3		3412.2	11643	1864																																																																																									
4		3335.7	11127	2380																																																																																									
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Absolute Open Flow 60878 Mscf @ 15.025					Angle of Slope @ 45		Slope, n 1.0																																																																																						
Remarks:																																																																																													
Approved by Commission:		Conducted by J. N. Casparis		Calculated by H L Hagler		Checked by:																																																																																							
West Texas Consulting Service, Inc.																																																																																													

*passed
11-16-73*