

**NEW MEXICO OIL CONSERVATION COMMISSION
MULTI-POINT BACK PRESSURE TEST FOR GAS WELL**

Form C-122

Revised 12-1-55

6-11-56

Well No. <u>44-1-56</u>		Formation <u>Gallup</u>		County <u>Sandoval</u>	
Test No. <u>X</u>	Annual	Special	Date of Test <u>3-9-58</u>		
Operator <u>Thomas A. Dugan</u>		Lease <u>Shirley</u>		Well No. <u>5</u>	
Dist. <u>G</u>	Sec. <u>14</u>	Twp. <u>30N</u>	Range <u>12W</u>	Purchaser	
From <u>237</u>	Wt. <u>5.5</u>	I.D.	Set at <u>327</u>	Perf. <u>378</u>	To <u>327</u>
Thrust <u>None</u>	Wt.	I.D.	Set at	Perf.	To
From <u>378</u>	To <u>327</u>	L	G	GL	Bar. Press.
Producing Through:		Casing <u>X</u>	Tubing	Type Well - Single - Braden head - G.G. or G.O. Dual <u>Single - G.O.</u>	
Date of Completion <u>2-1-57</u>		Packer	Reservoir Temp.		

OBSERVED DATA

Producing Through:	Prover ☒	Choke ☐	Meter ☐	Type of Taps
FLOW DATA				
Dist.	(Prover, Inlet Size)	(Choke, Outlet Size)	Press. psig.	Diff. Pw °F.
1	2"	1/4"	150.2	1
2	2"	27"	153.1	1
3	2"	1/4"	115	1
4	2"	1/4"	115	1
5	2"	1/4"	100.7	1
TUBING DATA				
Dist.	Press. psig.	Temp. °F.		
1				
2				
3				
4				
5				
CASING DATA				
Dist.	Press. psig.	Temp. °F.		
1	166.2			
2				
3				
4				
5				
DURATION OF FLOW HR.				
1				
2				
3				
4				
5				

FLOW CALCULATIONS

Dist.	Coefficient (24 Hour)	$\sqrt{P_w P_t}$	Pressure psia	Flow Temp. Factor F_t	Gravity Factor F_g	Compress. Factor F_{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1	1.4035		150.2	1.000	1.000	1.000	250.3
2	5.1111		153.1	1.000	1.000	1.000	43.8
3	12.0000		115	1.000	1.000	1.000	27.0
4	1.0000		115	1.000	1.000	1.000	27.0
5	5.1111		100.7	1.000	1.000	1.000	43.8

PRESSURE CALCULATIONS

G/L Liquid Hydrocarbon Ratio _____ of/cbl. Specific Gravity Separator Gas _____
 Gravity of Liquid Hydrocarbons _____ deg. Specific Gravity Flowing Fluid _____
 $P_c = \frac{P_w}{(1-e^{-S})}$ $P_c = 1.107$ $P_c^2 = 31.781$

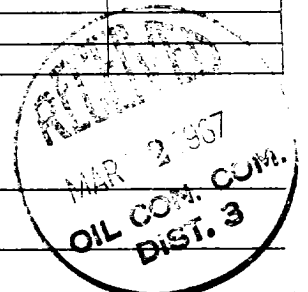
Dist.	$\frac{P_w - P_t}{P_t}$ psia	P_t^2	$F_c Q$	$(F_c Q)^2$	$(F_c Q)^2 (1-e^{-S})$	P_w^2	$P_c^2 - P_w^2$	Cal P_w	$\frac{P_w}{P_c}$
1						225.00	4.714		
2						21.854	10.737		
3						5.847	25.932		
4						30.233	1.111		
5						14.711	16.932		

ABSOLUTE POTENTIAL: 1250 MCFPD; n -.96108

COMPANY Thomas A. Dugan WITNESSED _____

ADDRESS Box 234, Farmington, N.M. COMPANY _____

AGENT AND TITLE Thomas A. Dugan



MULTI-POINT BACK PRESSURE TEST

Thomas A. Dugan - Shiprock #6

San Juan County, New Mexico - Sec. 14, T30N, R16W

