

Form C-122
Revised 9-1-65

Type Test		☐ Initial		☐ Annual		☒ Special		Test Date		11-30-77					
Company				Connection											
Dugan Production Company				New Well											
Basin				Formation				Unit							
Otero				Dakota				Gallup							
Completion Date		Total Depth		Plug Back TD		Elevation		Farm or Lease Name							
		6825		6549		6549		A New Dawn							
Csg. Size		Wt.		d		Set At		Perforations:		Well No.					
4.500		10.5		4.052		6825		From 5623 To 6788		#1					
Tbg. Size		Wt.		d		Set At		Perforations:		Unit Sec. Twp. Rgt.					
1.900		2.9		1.610		6762		From To		NW/SW 14 24 5					
Type Well - Single - Bradenhead - G.G. or G.O. Multiple						Packer Set At		County							
Gas - Single Commingled						None		Rio Arriba							
Producing Thru		Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press. - P _a		State							
Tubing		P				12.0		New Mexico							
L		H		Cg		% CO ₂		% N ₂		% H ₂ S					
				.60						Prover Orifice Meter					
										Meter Run					
										4"					
										Flange					
FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow					
NO.	Prover Line Size	X	Orifice Size	Meter PSIG	Meter Diff.	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F					
1	4"	X	1.500	247	5.3	62°	880		1538	1575	SIP 14 D ₂				
2				253	6.0	64°	721		1263	1066	2 hrs.				
3				250	4.8	64°	619		982	929	4 hrs.				
4				253	4.2	66°	562		929	920	6 hrs.				
5				254	4.2	63°	533		920		8 hrs.				
											10 hrs.				
RATE OF FLOW CALCULATIONS															
NO.	Coefficient (24 Hour)	Meter Static	Meter Diff.	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd								
1	34.28	5.1	5.3	.998	1.291	1.021	1194								
2	34.28	5.1	5.0	.996	1.291	1.024	1151								
3	34.28	5.1	4.8	.996	1.291	1.024	1079								
4	34.28	5.1	4.2	.994	1.291	1.024	965								
5	34.28	5.1	4.2	.997	1.291	1.024	963								
NO.	P _f	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.										
1					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.										
2					Specific Gravity Separator Gas _____ XXXXXXXXXX										
3					Specific Gravity Flowing Fluid _____ XXXXX										
4					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.										
5					Critical Temperature _____ R _____ R										
$F_c = \frac{P_c^2}{P_w^2} \quad P_w^2 = P_c^2 - R_w^2$															
NO.	P _f ²	P _w	R _w ²	P _c ² - R _w ²	(1) $\frac{P_c^2}{P_c^2 - R_w^2} =$ _____ (2) $\left[\frac{P_c^2}{P_c^2 - R_w^2} \right]^n =$ _____										
1					AOF = Q $\left[\frac{P_c^2}{P_c^2 - R_w^2} \right]^n =$ _____										
2															
3															
4															
5															
Absolute Open Flow _____ Mcfd @ 15.025					Angle of Slope @ _____					Slope, n _____ .75					
Remarks: Well produced 50 bbls of water and 40 bbls of oil while testing.															
This well commingled in wellbore as per NMCC order P 5002															
Approved By Commission:				Contacted By:				Calculated By:				Checked By:			
Fred. S. Hamrick				Fred. S. Hamrick				Fred. S. Hamrick				Fred. S. Hamrick			

SUGGESTED FIELD DATA SHEET (Not Required To File)

Type Test ☐ Initial ☐ Annual ☒ Special	Test Date 11-30-77	Lease No. or Serial No.
Company Dugan Production Company	Connection New Well	Allottee
Field Reservoir	Location	Unit
Completion Date	Total Depth 6825	Plug Back TD
	Elevation 6549	
Csg. Size 4.500	Wt. d	Set At 6825
Trq. Size	Wt. d	Set At
Type Completion (Describe)		Packer Set At
Producing Thru	Reservoir Temp. F	Mean Annual Temp. F
	Baro. Press. - P _a	
L	H	C _a .60
	% CO ₂	% N ₂
	% H ₂ S	Prover
	Meter Run	Flare
Orifice Meter 4"		

DATE	ELAP. TIME	Wellhead Working Pressure			METER OR PROVER				REMARKS (Include liquid production data; Type-A, P.J. Gravity-A, Amount)
		Trq. Patg.	Csg. Patg.	Temp. F	Pressure Patg.	Diff.	Temp. F	Orifice	
8:00		1538	1575	(SIP)				1.500	Set Choke on 20/64"
:30		720	1480		245	6.7	60°		Unloading Heavy Liquid
9:00	1hr	960	1365		247	5.5	64°		"
:30		850	1312		250	5.5	64°		"
10:00	2hr	880	1263		247	5.3	62°		30.21 bbls Liquid. (2 hrs.)
:30		910	1210		248	5.7	62°		
11:00	3hr	865	1159		250	6.0	63°		
:30		766	1121		253	6.0	61°		
12: Noon	4hr	721	1066		253	6.0	64°		48.68 bbls (4 hrs.)
:30 PM		680	1036		249	5.8	65°		
1:00	5hr	653	1013		248	5.8	66°		
:30		633	988		246	5.4	69°		
2:00	6hr	619	982		250	4.8	66°		63.79 bbls (6 hrs.)
:30		614	971		253	4.5	66°		
3:00	7hr	586	970		253	4.4	66°		
:30		571	940		253	4.4	66°		
4:00	8hr	562	929		253	4.2	66°		77.22 bbls (8 hrs.)
:30		550	934		253	4.2	67°		
5:00	9hr	544	931		253	4.1	65°		
:30		538	945		254	3.8	63°		27.42 (2 hrs.) 90.64 (10 hrs)
6:00	10hr	533	920		254	4.2	63°		Shut in for Build up
:05		715	956						
:10		746	1008						
:15		765	1042						Well produced 90 bbls of liquid
:20		791	1060						40 bbls of oil, and 50 bbls of
:30		826	1109						water
:45		865	1167						
7:00	1hr	889	1209						
:15		916	1238						
:30		931	1266						
8:00	2hr	950	1317						
11:00	17hr	1024	1512						12-1-77
12: Noon	42hr	1094	1557						12-2-77
10:00 AM	64hr	1151	1571						12-3-77