

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool BASIN DAKOTA Formation DAKOTA County SAN JUAN
 Initial _____ Annual _____ Special _____ Date of Test 10/1/64
 Company ARTEL OIL AND GAS Lease EAST Well No. 11
 Unit A Sec. 24 Twp. 31N Rge. 12W Purchaser _____
 Casing 4 1/2 wt. 9-11/16 i.d. 4.000 Set at 7240 Port. 6972 To 7118
 Tubing 2 3/8 wt. 4.7 i.d. 1.895 Set at 6950 Port. Per Callen To _____
 Gas Pay: From 6972 To 7118 i.d. 6950 i.d. 4865 Bar. Press. 112
 Producing Thru: Casing _____ Tubing ☒ Type Well SINGLE GAS
 Single-Strandhead C. or C.S. Pool _____
 Date of Completion: 9/22/64 Packer None Reservoir Temp. _____

OBSERVED DATA

Tested Through (Pressure) (Choke) (Meter) Type Tape _____

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Line) Size	(Choke) Size	Press. psig	Diff. in P.	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
1.	2"	3/4"				1962		1964		3
2.						228	60.2	277	60.2	
3.										
4.										
5.										

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	Pressure psia	Flow Temp. Factor F_t	Gravity Factor F_g	Compress. Factor F_{pv}	Rate of Flow Q-MTPD @ 15.025 psia
1.	12.3650	340	1.000	2.253	1.003	4260
2.						
3.						
4.						
5.						

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
 Gravity of Liquid Hydrocarbons _____ deg.
 P_c _____ (10^{-2})
 Specific Gravity Separator Gas _____
 Specific Gravity Flowing Fluid _____
 P_c 1976 P_c 3200 626

No.	P_w P_t (psia)	P_c^2	P_w^2	$(P_c Q)^2$	$(P_w Q)^2$	P_c^2	$P_c^2 - P_w^2$	Cal. P_w	P_w P_c
1.	789					622,521	3,282,033		339
2.									
3.									
4.									
5.									

Absolute Potential: 4.625 MWPD; n. .25
 COMPANY ARTEL OIL AND GAS
 ADDRESS Wagon 570 Farmington, New Mexico
 AGENT and TITLE D. R. Johnson DISTRICT ENGINEER
 WITNESSED _____
 COMPANY _____

REMARKS

