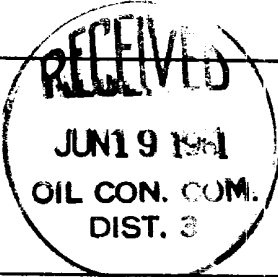


NUMBER OF COPIES RECEIVED DISTRIBUTION SANTA FE FILE U.S.G.S. LAND OFFICE TRANSPORTER OIL GAS PRORATION OFFICE OPERATOR		NEW MEXICO OIL CONSERVATION COMMISSION SANTA FE, NEW MEXICO CERTIFICATE OF COMPLIANCE AND AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS		FORM C-110 (Rev. 7-60)
FILE THE ORIGINAL AND 4 COPIES WITH THE APPROPRIATE OFFICE				
Company or Operator ASTEC OIL AND GAS COMPANY		Lease SALMONS		Well No. 2-D
Unit Letter G	Section 32	Township 30N	Range 12W	County San Juan
Pool Basin Dakota			Kind of Lease (State, Fed, Fee) Fee	
If well produces oil or condensate give location of tanks		Unit Letter	Section	Township
Range				
Authorized transporter of oil <input type="checkbox"/> or condensate <input type="checkbox"/>		Address (give address to which approved copy of this form is to be sent)		
Is Gas Actually Connected? Yes _____ No X _____				
Authorized transporter of casing head gas <input type="checkbox"/> or dry gas <input checked="" type="checkbox"/>		Date Connected	Address (give address to which approved copy of this form is to be sent)	
SOUTHERN UNION GAS COMPANY			1507 Pacific, Dallas, Texas	
If gas is not being sold, give reasons and also explain its present disposition:				
Waiting for pipeline.				
REASON(S) FOR FILING (please check proper box)				
New Well <input checked="" type="checkbox"/>		Change in Ownership <input type="checkbox"/>		
Change in Transporter (check one)		Other (explain below)		
Oil <input type="checkbox"/> Dry Gas <input type="checkbox"/>				
Casing head gas . <input type="checkbox"/> Condensate.. <input type="checkbox"/>				
Remarks				
				
The undersigned certifies that the Rules and Regulations of the Oil Conservation Commission have been complied with.				
Executed this the <u>14th</u> day of <u>June</u> , 19 <u>61</u> .				
OIL CONSERVATION COMMISSION		By		
Approved by Original Signed By A. R. KENDRICK		ORIGINAL SIGNED BY JOE C. SALMON		
Title PETROLEUM ENGINEER DIST. NO. 3		Title Joe C. Salmon District Superintendent		
Date JUN 19 1961		Company Astec Oil and Gas Company		
		Address Drawer # 570, Farmington, New Mexico		

STATE OF NEW YORK		
OIL CONSERVATION DEPARTMENT		
DISTRICT OFFICE		
NUMBER OF MILES TRAVELED		
DATE		
NAME		
ADDRESS		
CITY		
COUNTY		
TRANSPORTER	OIL	
	GAS	
DISTRICT OFFICE		
OPERATOR		

NEW MEXICO OIL CONSERVATION COMMISSION

RECEIVED
JUN 13 1961
OIL CONSERVATION DIST.
Form C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Basin Formation Dakota County San Juan
Initial ☒ Annual ☐ Special ☐ Date of Test 6/6/61
Company Aztec Oil & Gas Co. Lease Sammons "D" Well No. 2
Unit C-32 DP-30N Pgs. 12W Purchaser Southern Union Gas Co.
Casing 4 1/2" 9.5" I.D. 4.890 Set at 6275 Perf. 6011 To 6111
Tubing 2 3/8" Wt. 4.7" I.D. 1.995 Set at 6019 Perf. 5986 To 5989
Gas Pay: From 6011 To 6111 1.5986 0.65 -GL Bar. Press. 14
Producing Thru: Casing ☐ Tubing ☒ Type Well Single
Date of Completion: 6/6/61 Packer Single-Bradenhead-G. G. or G.O. Dual Reservoir Temp.

OBSERVED DATA

Tested Through () (Choke) ()						Type Taps				
Flow Data						Tubing Data		Casing Data		Duration of Flow Hr.
No.	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. P_w	Temp. $^{\circ}F$.	Press. psig	Temp. $^{\circ}F$.	Press. psig	Temp. $^{\circ}F$.	
1.						2075		2076		7 days
2.		0.380				288	80(E)	587		3 days
3.										
4.										
5.										

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_{wpf}}$	Pressure psia	Flow Temp. Factor F_t	Gravity Factor F_g	Compress. Factor F_{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	12.365		230	0.9813	0.9608	1.023	32.34
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio cf/bbl.
Gravity of Liquid Hydrocarbons deg.
 P_c (1-e⁻⁸)
Specific Gravity Separator Gas
Specific Gravity Flowing Fluid
 P_c 2.076 P_g 4.309 P_{fg} 176

No.	P_w Pt (psia)	P_c	P_g	$(P_c Q)^2$	$(P_g Q)^2 (1-e^{-8})$	P_w^2	$P_c^2 - P_w^2$	Cal. P_w	
1.	587								
2.						319.569	3.945001		
3.									
4.									
5.									

Absolute Potential: 3443 MCFPD; P_w 2.35
COMPANY Aztec Oil & Gas Co.
ADDRESS Durham, N.C.
AGENT AND TITLE W. H. R. Jones, Engineer
WITNESSED
COMPANY