

Initial Deliverability
Test

NEW MEXICO OIL CONSERVATION COMMISSION
GAS WELL TEST DATA SHEET - - SAN JUAN BASIN

(TO BE USED FOR FRUITLAND, PICTURED CLIFFS, MESAVERDE, & ALL DAKOTA
EXCEPT BARKER DOME STORAGE AREA)

Pool Blanco Pictured Cliffs Formation Pictured Cliffs County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed January 12, 1961

Operator Pan American Petroleum Corp. Lease State Gas Unit "Y" Well No. 1
Unit 0 Sec. 2 Twp. 29N Rge. 9W Pay Zone: From 3014 To 3050
Casing: OD 4-1/2 WT. 9.5 Set At 3020 Tubing: OD 1-1/2 WT. 2.3 T. Perf. 3019
Produced Through: Casing X Tubing _____ Gas Gravity: Measured .665 Estimated _____
Date of Flow Test: From 12-7-60 To 12-15-60 * Date S.I.P. Measured 9-25-60
Meter Run Size 4" Orifice Size 1.000 Type Chart Sq. Rt. Type Taps Flange

OBSERVED DATA

Flowing casing pressure (Dwt) _____ psig + 12 = _____ psia (a)
Flowing tubing pressure (Dwt) _____ psig + 12 = _____ psia (b)
Flowing meter pressure (Dwt) _____ psig + 12 = _____ psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken):
Normal chart reading _____ psig + 12 = _____ psia (d)
Square root chart reading (_____) ² x spring constant _____ = _____ psia (d)
Meter error (c) - (d) or (d) - (c) _____ ± _____ = _____ psi (e)
Friction loss, Flowing column to meter:
(b) - (c) Flow through tubing; (a) - (c) Flow through casing _____ = _____ psi (f)
Seven day average static meter pressure (from meter chart):
Normal chart average reading _____ psig + 12 = _____ psia (g)
Square root chart average reading (7.25) ² x sp. const. 10 = 526 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 526 psia (h)
P_t = (h) + (f) _____ = 526 psia (i)
Wellhead casing shut-in pressure (Dwt) 973 psig + 12 = 985 psia (j)
Wellhead tubing shut-in pressure (Dwt) 973 psig + 12 = 985 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 985 psia (l)
Flowing Temp. (Meter Run) 49 °F + 460 _____ = 509 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 493 psia (n)

FLOW RATE CALCULATION

$$Q = \text{(Integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\text{_____}}{\text{_____}} = \text{_____} \right)^* = \text{_____ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \text{ } \underline{542}^* \left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} = \frac{727,176}{693,549} \right]^n \text{ } \underline{1.0409} = \underline{564} \text{ MCF/da.}$$

SUMMARY

P_c = 985 psia
Q = 542 Mcf/day
P_w = 526 psia
P_d = 493 psia
D = 564 Mcf/day

Company Pan American Petroleum Corporation
By R. M. Bauer, Jr.
Title Sr. Petroleum Engineer
Witnessed by _____
Company _____

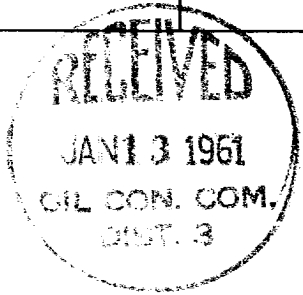
* This is date of completion test.
* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	(1-e ^{-S})	(F _c Q) ²	(FcQ) ² (1-e ^{-S}) R ²	P _t ² (Column i)	P _t ² + R ²	P _w
Friction Loss Negligible						

*Furnished by pipeline company

INITIAL DELIVERABILITY TEST



AUTHORIZATION TO TRANSPORT OIL AND GAS

DEPARTMENT	5
ANTARCTIC	
U.S.S.	
LAND OFFICE	
TRANSPORTER	
REGULATOR	
REGISTRATION OFFICE	

PAN AMERICAN PETROLEUM CORPORATION	ESG. 2-1-71
Security Life Building	125
Denver, Colorado	
Reason(s) for filing (check proper box)	Lease Name Change
New Well	Previously:
Recompletion	State Gas Unit Y #1
Change in Ownership	

If change of ownership give name and address of previous owner

II. DESCRIPTION OF WELL AND LEASE	
Lease Name	State Gas Com Y
Lease No.	1
Well Name	Blanco Pictured Cliffs
Location	Unit Letter 0, 1045 Feet From The South, 1640 Feet From The East
Line of Section	2
Township	29N
Range	9W
County	San Juan

III. DESIGNATION OF TRANSPORTER OF OIL AND GAS	
Name of Authorized Transporter of Oil	El Paso Natural Gas Company
Name of Authorized Transporter of Casinghead Gas	Box 990, Farmington, New Mexico
Is well producing oil or liquids, or combination of both	Yes
Unit	0
Sec.	2
Township	29N
Range	9W
County	San Juan

IV. COMPLETION DATA	
Designate Type of Completion - (X)	Oil Well
Date Spudded	Date Compl. Ready to Prod.
Elevations (DF, RKB, RT, GR, etc.)	Name of Producing Formation
Perforations	Depth Casing Shoe
HOLE SIZE	CASING & TUBING SIZE
TUBING SIZE	FEET
SACKS CEMENT	

V. TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL	
Date First New Oil Run To Tanks	Date of Test
Length of Test	Tubing Pressure
Actual Prod. During Test	Oil-Bbls.
GAS WELL	
Actual Prod. Test-MCF/D	Length of Test
Testing Method (pitot, back pr.)	Tubing Pressure

VI. CERTIFICATE OF COMPLIANCE	
I hereby certify that the rules and regulations of the Oil Conservation Commission have been complied with and that the information given above is true and complete to the best of my knowledge and belief.	
APPROVED OCT 11 1965	
Original Signed Emory C. Amos	
Supervisor Dist. # 3	
Administrative Assistant	
September 30, 1965	