Current Records:		Change To:
BLANCO PICTURED CLIFFS POOL:		
Archuleta Gas Unit A #2	I-5-29-9	Archuleta Gas Com A #2
Cole Gas Unit B #1	O-15-29-9	Cole Gas Com B #1
Elliott Gas Unit J #1	C-34-30-9	Elliott Gas Com J #1
Elliott Gas Unit K #1	O-26-30-9	Elliott Gas Com K #1
Elliott Gas Unit L #1	A-33-30-9	Elliott Gas Com L #1
Elliott Gas Unit M #1	I-33-30-9	Elliott Gas Com M #1
Heath Gas Unit F #1	E-8-29-9	Heath Gas Com F #1
Houck Gas Unit B #1	G-6-29-9	Houck Gas Com B #1
Jaquez Gas Unit A #2	E-5-29-9	Jaquez Gas Com A #2
Jaquez Gas Unit B #2	C-4-29-9	Jaquez Gas Com B #2
Likins Gas Unit A #2	J-34-30-9	Likins Gas Com A #2
Likins Gas Unit C #1	C-9-29-9	Likins Gas Com C #1
Lobato Gas Unit B #1-X	E-2-29-9	Lobato Gas Com B #1-X
Lobato Gas Unit C #1	H-3-29-9	Lobato Gas Com C #1
Lobato Gas Unit D #1	D-3-29-9	Lobato Gas Com D #1
Rochelle Gas Unit #1	P-4-29-9	Rochelle Gas Com #1
Sandoval Gas Unit B #1	D-35-30-9	Sandoval Gas Com B #1
Ulibarri Gas Unit #2	O-35-30-9	Ulibarri Gas Com #2
FLORA VISTA MESAVERDE POOL:		
Duff Gas Unit B #1	P-27-30-12	Duff Gas Com B #1
McCoy Gas Unit C #1	A-28-30-12	McCoy Gas Com C #1
Stedje Gas Unit #1	F-27-30-12	Stedje Gas Com #1
UNDESIGNATED FARMINGTON POOL:		
Trujillo Gas Unit #1	M-21-29-10	Trujillo Gas Com #1
OTERO CHACRA GAS POOL:		
Jicarilla Gas Unit B #1	G-31-26-5	Jicarilla Gas Com B #1
SIMPSON GALLUP OIL POOL:		
Gallegos Canyon Unit #126	K-23-28-12	Gallegos Canyon Unit NP #126

cc:
OCC - Santa Fe
File
U.S.G.S.
Operator
El Paso Nat'l Gas Company
Southern Union Gas Company
Southern Union Gathering Co.
Pan American Pipeline Co.
Plateau, Inc.
Shell Oil Company
Graves Oil Company
Basin Pipeline Co.
Transwestern Tankers

Effective March 1, 1966

APPROVED PAN AMERICAN PETROLEUM CORPORATION

BY [signature]

Form C-122-A
Revised April 20, 1955

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 12-24-59

Operator Pan American Petroleum Corp. Lease Heath Gas Unit "F" Well No. 1

Unit E Sec. 8 Twp. 29N Rge. 9W Pay Zone: From 2158 To 2192

Casing: OD 4-1/2 WT. 9.5 Set At 2292 Tubing: OD 1-1/4 WT. 2.3 T. Perf. 2161

Produced Through: Casing X Tubing Gas Gravity: Measured 0.649* Estimated

Date of Flow Test: From 11-22-59 To 11-30-59 * Date S.I.P. Measured 8-25-59

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 (6.90*) ^{2} x sp. const. 5	= 238	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	= 238	psia	(h)
P_t = (h) + (f)	= 238	psia	(i)
Wellhead casing shut-in pressure (Dwt) 970	psig + 12 = 982	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 970	psig + 12 = 982	psia	(k)
P_c = (j) or (k) whichever well flowed through	= 982	psia	(l)
Flowing Temp. (Meter Run) 52* °F + 460	= 512	°Abs	(m)
P_d = ½ P_c = ½ (l)	= 491	psia	(n)

FLOW RATE CALCULATION

Q = _____ (integrated) X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\quad}{\quad} = \quad \right)^*$ = _____ MCF/da

DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{723,243}{907,680} \right]^n$ .8247 = 361 MCF/da.

SUMMARY

P_c =	982	psia
Q =	438*	Mcf/day
P_w =	938*	psia
P_d =	491	psia
D =	361	Mcf/day

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

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

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-s})$	$(F_cQ)^2$	$\frac{(FcQ)^2 \quad (1-e^{-s})}{R^2}$	P_t^2 (Column i)	$P_t^2 + R^2$	P_w
Friction loss negligible						

*Furnished by pipeline company.