

Initial Deliverability
Test

Form C-122-A
Revised April 20, 1955

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 Dania Formation Dakota County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed 4-1-65
Operator THE AMERICAN PETROLEUM CORP. Lease Calleguas Canyon 9179 Unit Well No. 1
Unit 2 Sec. 34 Twp. 20N Rge. 12W Pay Zone: From 2032 To 2070
Casing: OD 4-1/2 WT. 20.3 Set At 6007 Tubing: OD 2-3/8 WT. 4.7 T. Perf. 2000
Produced Through: Casing 1 Tubing 2 Gas Gravity: Measured .600 Estimated
Date of Flow Test: From 3-23-65 To 3-3-65 * Date S.I.P. Measured 11-12-64
Meter Run Size 4" Orifice Size 1.750 Type Chart Eq. 21 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 (_____) ² x sp. const. _____ = _____ psia (g)
Corrected seven day avg. meter press. (p_f) (g) + (e) _____ = _____ psia (h)
P_t = (h) + (f) _____ = _____ psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (k)
P_c = (j) or (k) whichever well flowed through _____ = _____ psia (l)
Flowing Temp. (Meter Run) _____ °F + 460 _____ = _____ °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = _____ psia (n)

FLOW RATE CALCULATION

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

(Integrated)

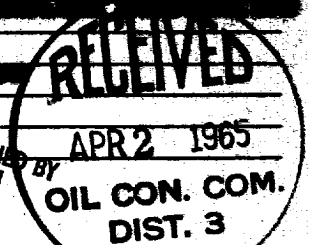
DELIVERABILITY CALCULATION

$$D = Q \text{_____} \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{2,320,000}{\text{_____}} \right]^n \text{_____} = \text{2721} \text{ MCF/da.}$$

SUMMARY

P_c = 2070 psia
Q = 2721 Mcf/day
P_w = 2000 psia
P_d = 2000 psia
D = 2721 Mcf/day

Company THE AMERICAN PETROLEUM CORP.
By F. L. Nelson
Title District Engineer
Witnessed by RFT
Company ORIGINAL SIGNED BY F. W. Foell



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

REMARKS OR FRICTION CALCULATIONS

GL	(1-e ^{-s})	(F _c Q) ²	(F _c Q) ² (1-e ^{-s}) R ²	P _t ² (Column i)	P _t ² + R ²	P _w
<u>4000</u>	<u>+25%</u>	<u>642,937</u>	<u>254,300</u>	<u>200,300</u>	<u>400,600</u>	<u>2000</u>

Current Records:

Change To:

AZTEC PICTURED CLIFFS POOL:

M. Pollock Gas Unit #1	P-28-29-10	M. Pollock Gas Com #1
Prespentt Gas Unit #1	0-21-29-10	Prespentt Gas Com #1
Sanchez Gas Unit #1	G-28-29-10	Sanchez Gas Com #1
State of New Mexico AX #1	H-32-29-9	State AX #1
Trujillo Gas Unit #1	M-21-29-10	Trujillo Gas Com #1
Wallace Gas Unit #2	C-35-31-11	Wallace Gas Com #2

BASIN DAKOTA POOL:

Abrams Gas Unit E #1	I-30-29-10	Abrams Gas Com E #1
Archuleta Gas Unit A #3	K-5-29-9	Archuleta Gas Com A #3
Armenta Gas Unit C #1	H-27-29-10	Armenta Gas Com C #1
Bell Federal Gas Unit A #1	B-12-30-13	Bell Federal Gas Com A #1
Bell Federal Gas Unit B #1	A-11-30-13	Bell Federal Gas Com B #1
Bergin Gas Unit #1	B-21-29-11	Bergin Gas Com #1
Black Gas Unit #1	C-29-29-10	Black Gas Com #1
Bruington Gas Unit #1	E-14-29-11	Bruington Gas Com #1
Bruington Gas Unit B #1	A-15-29-12	Bruington Gas Com B #1
Burnham Gas Unit #1	M-12-29-13	Burnham Gas Com #1
Carpenter Gas Unit B #1	K-25-30-14	Carpenter Gas Com B #1
Carson Gas Unit #1	K-32-30-12	Carson Gas Com #1
Chavez Gas Unit C #1	N-23-29-10	Chavez Gas Com C #1
Chavez D Gas Com #1	G-3-29-9	Chavez Gas Com D #1
Cooper Gas Unit #1	B-15-29-11	Cooper Gas Com #1
Crawford Gas Unit B #1	L-24-29-12	Crawford Gas Com B #1
Dadivson Gas Unit F #1	M-28-28-10	Davidson Gas Com F #1
Davidson Gas Unit G #1	H-21-28-10	Davidson Gas Com G #1
Davidson Gas Unit H #1	H-22-28-10	Davidson Gas Com H #1
Davies B Gas Unit #1	A-27-28-13	Davies Gas Com B #1
Davis Gas Unit F #1	I-27-29-11	Davis Gas Com F #1
Day Gas Unit #1	P-7-28-10	Day Gas Com #1
Duff Gas Unit #1	D-34-30-12	Duff Gas Com #1
Duff Gas Unit C #1	M-27-30-12	Duff Gas Com C #1
Elliott Gas Unit N #1	I-33-30-9	Elliott Gas Com N #1
Farnsworth Gas Unit A #1	B-17-30-13	Farnsworth Gas Com A #1
Farnsworth Gas Unit B #1	0-8-30-13	Farnsworth Gas Com B #1
Federal Gas Unit D #1	D-30-30-12	Federal Gas Com D #1
Federal Gas Unit E #1	L-30-30-12	Federal Gas Com E #1
Federal Gas Unit F #1	A-7-27-12	Federal Gas Com F #1
Florence Gas Unit B #1	H-9-29-12	Florance Gas Com B #1
Jack Frost C Gas Unit #1	I-26-27-10	Jack Frost Gas Com C #1
Gallegos Canyon No. 94 Unit #1	F-23-29-13	Gallegos Canyon Unit Com #94
Gallegos Canyon No. 142 Unit #1	0-25-29-12	Gallegos Canyon Unit Com A #142
Gallegos Canyon No. 143 Unit #1	F-25-29-12	Gallegos Canyon Unit Com B #143
Gallegos Canyon No. 144 Unit #1	L-16-29-12	Gallegos Canyon Unit Com C #144
Gallegos Canyon No. 160 Unit #1	I-27-29-12	Gallegos Canyon Unit Com D #160
Gallegos Canyon No. 161 Unit #1	0-23-29-13	Gallegos Canyon Unit Com E #161
Gallegos Canyon No. 162 Unit #1	J-36-29-12	Gallegos Canyon Unit Com F #162
Gallegos Canyon No. 179 Unit #1	K-26-29-12	Gallegos Canyon Unit Com G #179
Gallegos Canyon No. 180 Unit #1	J-28-29-12	Gallegos Canyon Unit Com H #180
Gallegos Canyon No. 181 Unit #1	F-34-29-12	Gallegos Canyon Unit Com I #181
V. W. McManus #1	M-22-28-12	Gallegos Canyon Unit #8
Gerk Gas Unit B #1	G-30-29-9	Gerk Gas Com B #1
Gutierrez Gas Unit B #1	B-4-29-9	Gutierrez Gas Com B #1
Hancock Gas Unit #1	L-15-30-12	Hancock Gas Com #1
Haney Gas Unit B #1	I-20-29-10	Haney Gas Com B #1
Hare Gas Unit B #1	G-23-29-11	Hare Gas Com B #1
Hare Gas Unit C #1	M-25-29-10	Hare Gas Com C #1

C-104 Required

cc:

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

Effective March 1, 1966

APPROVED PAN AMERICAN PETROLEUM CORPORATIONBY *[Signature]*