

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 Formation Mesa Verde County San Juan
Purchasing Pipeline El Paso Natural Gas Date Test Filed _____

Operator El Paso Natural Gas Lease Hardie Well No. 1-B
Unit B Sec. 16 Twp. 28 Rge. 8 Pay Zone: From 4880 To 5230
Casing: OD 5-1/2 WT. 15.50 Set At 5320 Tubing: OD 2 WT. 4.7 T. Perf. 5177
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .710 Estimated _____
Date of Flow Test: From 12-16-57 To 12-23-57 * Date S.I.P. Measured 8-20-57 (16 days)
Meter Run Size _____ Orifice Size _____ Type Chart _____ Type Taps _____

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: _____ = _____ psi (f)
(b) - (c) Flow through tubing: (a) - (c) Flow through casing
Seven day average static meter pressure (from meter chart):
Normal chart average reading _____ psig + 12 = _____ psia (g)
Square root chart average reading (7.45) ² x sp. const. 10 _____ = 555 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 555 psia (h)
P_t = (h) + (f) _____ = 555 psia (i)
Wellhead casing shut-in pressure (Dwt) 1026 psig + 12 = 1038 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1029 psig + 12 = 1041 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1041 psia (l)
Flowing Temp. (Meter Run) 67 °F + 460 _____ = 527 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 521 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} = \frac{\text{_____}}{\text{_____}} = \text{_____} \right)^* = \text{948 MCF/da}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 948 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{812,240}{756,987}^n \frac{1.0729}{1.0541} = \text{999 MCF/da.}$

SUMMARY

P_c = 1041 psia Company El Paso Natural Gas
Q = 948 Mcf/day By _____
P_w = 572 psia Title _____
P_d = 521 psia Witnessed by _____
D = 999 Mcf/day Company _____

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

REMARKS OR FRICTION CALCULATIONS

GL	(1-e ^{-S})	(F _c Q) ²	$\frac{(F_c Q)^2 (1-e^{-S})}{R^2}$	P _t ² (Column i)	P _t ² + R ²	P _w
3676	.235	79.442	18,669	308,025	326,694	572

D at 500 = 990

OK



NEW MEXICO OIL CONSERVATION COMMISSION
OIL WELL TEST DATA SHEET - SALT FLAT BASIN

TO BE FILLED OUT BY THE OPERATOR OF THE WELL OR BY AN AUTHORIZED REPRESENTATIVE OF THE OPERATOR
EXCEPT WHERE SHOWN OTHERWISE

8-4-64

WELL NO.

DATE

WELL LOCATION

3-2

WELL TYPE

EL PASO NATURAL GAS

250

115

(see 11)

TEST DATA

1	Flow rate (bbls/hr)	1.0
2	Pressure (psi)	100
3	Temperature (°F)	100
4	Gas gravity	0.6
5	Oil gravity	0.8
6	Water content (lb/bbl)	0
7	Gas composition (vol %)	
8	Oil composition (wt %)	
9	Water composition (wt %)	
10	Gas composition (mol %)	
11	Oil composition (mol %)	
12	Water composition (mol %)	
13	Gas composition (mass %)	
14	Oil composition (mass %)	
15	Water composition (mass %)	

WELL LOG

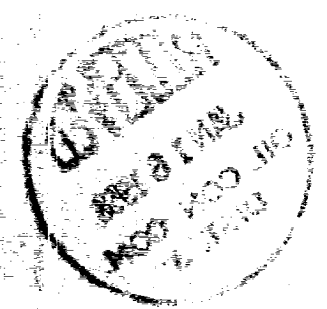
WELL DEPTH (ft) _____

WELL LOG

1	2	3	4	5	6	7	8	9	10
1	2	3	4	5	6	7	8	9	10

1	2	3	4	5	6	7	8	9	10
1	2	3	4	5	6	7	8	9	10

1	2	3	4	5	6	7	8	9	10
1	2	3	4	5	6	7	8	9	10



CURRENT RECORDS;

CHANGE TO:

Blanco Mesaverde Pool (Continued)

Grambling #4-C	L-12-30-10	Grambling C #4	
Hancock #1-A	H-35-28-9	Hancock A #1	
Hancock #2-A	G-26-28-9	Hancock A #2	
Hancock #1-B	L-28-28-9	Hancock B #1	
Hardie #1-A	N-26-29-8	Hardie A #1	
Hardie #2-A	M-24-29-8	Hardie A #2	
Hardie #1-B	L-28-29-8	Hardie B #1	
Hardie #1-D	M-12-28-8	Hardie D #1	
Hardie #1-E	B-16-28-8	Hardie E #1	
Hardie #3-E	B-23-28-8	Hardie E #3	
Heaton #9	B-32-31-11	Heaton Com #9	C-104 Required
Heizer Pooled Unit #1	B-15-32-10	Heizer #1	
Howell #1-A	G-8-30-8	Howell A #1	
Howell #2-A	N-5-30-8	Howell A #2	
Howell #3-A	M-4-30-8	Howell A #3	
Howell #1-C	B-1-29-8	Howell C #1	
Howell #2-C	B-3-29-8	Howell C #2	
Howell #3-C	B-7-30-8	Howell C #3	
Howell #4-C	M-18-30-8	Howell C #4	
Howell #1-D	M-28-31-8	Howell D #1	
Howell #2-D	L-29-31-8	Howell D #2	
Howell #3-D	G-31-31-8	Howell D #3	
Howell #1-E	M-29-30-8	Howell E #1	
Howell #2-E	A-14-30-8	Howell E #2	
Howell #1-F	M-1-27-8	Howell F #1	
Howell #2-G	M-6-30-8	Howell G #2	
Howell #3-J	A-11-30-8	Howell J #3	
Howell #4-J	L-3-30-8	Howell J #4	
Howell #1	K-21-30-8	Howell K #1	C-104 Required
Howell #2	K-22-30-8	Howell K #2	C-104 Required
Howell #3-K	B-15-30-8	Howell K #3	
Howell #4-K	H-17-30-8	Howell K #4	
Howell #1-L	N-23-30-8	Howell L #1	
Howell #2-L	A-25-30-8	Howell L #2	
Howell #3-L	M-35-30-8	Howell L #3	
Howell #4-L	G-34-30-8	Howell L #4	
Howell #1-M	M-30-30-8	Howell M #1	
Hudson Pooled Unit #1	N-17-31-11	Hudson #5	C-104 Required
Hughes #1-A	A-33-29-8	Hughes A #1	
Hughes #2-A	B-27-29-8	Hughes A #2	
Hughes #3-A	M-27-29-8	Hughes A #3	
Hughes #4-A	A-34-29-8	Hughes A #4	
Hughes #5-A	H-28-29-8	Hughes A #5	
Hughes #6-A	K-33-29-8	Hughes A #6	
Hutchin Pooled Unit #1	G-7-31-10	Hutchin #1	
Jacquez Pooled Unit #1	A-29-31-9	Jacquez #1	
Jicarilla #93-2	A-34-27-3	Jicarilla 93 #2	
Jicarilla #92-2	K-29-27-3	Jicarilla 92 #2	
Johnston State #8	B-36-27-6	Johnston A #8	C-104 Required
Johnston State #9	L-36-27-6	Johnston A Com C #9	C-104 Required
Jones #1-A	N-10-28-8	Jones A #1	
Jones #2-A	M-11-28-8	Jones A #2	
Jones #3-A	G-15-28-8	Jones A #3	
Jones #4-A	B-13-28-8	Jones A #4	
Jones #5-A	K-13-28-8	Jones A #5	
Jones #6-A	H-14-28-8	Jones A #6	
Kelly #1-A	M-15-31-10	Kelly A #1	
Kelly #3-A	G-15-31-10	Kelly A #3	
Kelly #1-B	B-8-30-10	Kelly B #1	
Koch Pooled Unit #1	H-3-30-10	Koch #1	
Lackey #1-A	B-12-29-10	Lackey A #1	
Lackey #2-A	L-12-29-10	Lackey A #2	
Lackey #3-A	N-11-29-10	Lackey A #3	
Lackey #4-B	A-29-28-9	Lackey B #4	

cc: El Paso Natural Gas Co. (3)
 Southern Union Gas Co.
 Southern Union Gathering Co.
 Oil Conservation Commission, Santa Fe
 U.S. Geological Survey

APPROVED

E. S. Oberly
 El Paso Natural Gas Co.
 Effective 11-1-65