

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 Formation Mesa Verde County San Juan
Purchasing Pipeline Southern Union Gas Company Date Test Filed 1-9-57
Operator Greenbrier Oil Company Lease Lawson-Federal Well No. #1
Unit P Sec. 31 Twp. 32N Rge. 11W Pay Zone: From 5474 To 5375
Casing: OD 7" WT. 20# Set At 5315 Tubing: OD 2-7/8 WT. 6.50 T. Perf. 5467
Produced Through: Casing _____ Tubing X Gas Gravity: Measured _____ Estimated .698
Date of Flow Test: From 12-16-56 To 12-23-56 * Date S.I.P. Measured 12-30-56
Meter Run Size 4" Orifice Size 1-1/4" Type Chart N.C. Type Taps Flange

OBSERVED DATA

Flowing casing pressure (Dwt) 566 psig + 12 = 578 psia (a)
Flowing tubing pressure (Dwt) 540 psig + 12 = 552 psia (b)
Flowing meter pressure (Dwt) 539 psig + 12 = 551 psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken:
Normal chart reading 540 psig + 12 = 552 psia (d)
Square root chart reading () ² x spring constant _____ = _____ psia (d)
Meter error (c) - (d) or (d) - (c) ± _____ = -.1 psi (e)
Friction loss, Flowing column to meter:
(b) - (c) Flow through tubing: (a) - (c) Flow through casing _____ = 1 psi (f)
Seven day average static meter pressure (from meter chart):
Normal chart average reading 536 psig + 12 = 548 psia (g)
Square root chart average reading () ² x sp. const. _____ = _____ psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 547 psia (h)
P_t = (h) + (f) _____ = 548 psia (i)
Wellhead casing shut-in pressure (Dwt) 773 psig + 12 = 785 psia (j)
Wellhead tubing shut-in pressure (Dwt) 774 psig + 12 = 786 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 786 psia (l)
Flowing Temp. (Meter Run) 84 °F + 460 _____ = 544 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 393 psia (n)

FLOW RATE CALCULATION

$$Q = \frac{1106}{(\text{Integrated})} \times \left(\frac{\sqrt{(c)} = .99819}{\sqrt{(d)} = .9991} \right) = 1105 \text{ MCF/day}$$

DELIVERABILITY CALCULATION

$$D = Q \frac{1105}{\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{.75} \frac{1.501}{1.3765}} = 1499 \text{ MCF/day}$$

SUMMARY

P_c = 786 psia
Q = 1105 Mcf/day
P_w = 556 psia
P_d = 393 psia
D = 1499 Mcf/day

Company GREENBRIER OIL COMPANY
By S. A. Dugan
Title Engineer
Witnessed by _____
Company _____

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

REMARKS OR FRICTION CALCULATIONS

GL	(1-e ⁻⁸)	(F _c Q) ²	(F _c Q) ² (1-e ⁻⁸) R ²	P _t ² (Column i)	P _t ² + R ²	P _w
3816	.842	37.62	9.1	300.3	309.4	556.3



NEWARK OIL CONSTRUCTION COMMISSION ASBESTOS TEST DATA SHEET - SAN JUAN BASIN

1. SITE LOCATION: SAN JUAN BASIN, NEWARK, NEW JERSEY
 2. DATE OF TEST: 10/11/81
 3. TESTER: [illegible]

TEST NO.	DATE	TIME	LOCATION	DEPTH	TEST TYPE	TEST RESULT
1	10/11/81	08:30	San Juan Basin	10 ft	Asbestos	0.05%
2	10/11/81	09:00	San Juan Basin	20 ft	Asbestos	0.05%
3	10/11/81	09:30	San Juan Basin	30 ft	Asbestos	0.05%
4	10/11/81	10:00	San Juan Basin	40 ft	Asbestos	0.05%
5	10/11/81	10:30	San Juan Basin	50 ft	Asbestos	0.05%

TEST NO.	DATE	TIME	LOCATION	DEPTH	TEST TYPE	TEST RESULT
6	10/11/81	11:00	San Juan Basin	60 ft	Asbestos	0.05%
7	10/11/81	11:30	San Juan Basin	70 ft	Asbestos	0.05%
8	10/11/81	12:00	San Juan Basin	80 ft	Asbestos	0.05%
9	10/11/81	12:30	San Juan Basin	90 ft	Asbestos	0.05%
10	10/11/81	13:00	San Juan Basin	100 ft	Asbestos	0.05%

TEST NO.	DATE	TIME	LOCATION	DEPTH	TEST TYPE	TEST RESULT
11	10/11/81	13:30	San Juan Basin	110 ft	Asbestos	0.05%
12	10/11/81	14:00	San Juan Basin	120 ft	Asbestos	0.05%
13	10/11/81	14:30	San Juan Basin	130 ft	Asbestos	0.05%
14	10/11/81	15:00	San Juan Basin	140 ft	Asbestos	0.05%
15	10/11/81	15:30	San Juan Basin	150 ft	Asbestos	0.05%

TEST NO.	DATE	TIME	LOCATION	DEPTH	TEST TYPE	TEST RESULT
16	10/11/81	16:00	San Juan Basin	160 ft	Asbestos	0.05%
17	10/11/81	16:30	San Juan Basin	170 ft	Asbestos	0.05%
18	10/11/81	17:00	San Juan Basin	180 ft	Asbestos	0.05%
19	10/11/81	17:30	San Juan Basin	190 ft	Asbestos	0.05%
20	10/11/81	18:00	San Juan Basin	200 ft	Asbestos	0.05%

TEST NO.	DATE	TIME	LOCATION	DEPTH	TEST TYPE	TEST RESULT
21	10/11/81	18:30	San Juan Basin	210 ft	Asbestos	0.05%
22	10/11/81	19:00	San Juan Basin	220 ft	Asbestos	0.05%
23	10/11/81	19:30	San Juan Basin	230 ft	Asbestos	0.05%
24	10/11/81	20:00	San Juan Basin	240 ft	Asbestos	0.05%
25	10/11/81	20:30	San Juan Basin	250 ft	Asbestos	0.05%

TEST NO.	DATE	TIME	LOCATION	DEPTH	TEST TYPE	TEST RESULT
26	10/11/81	21:00	San Juan Basin	260 ft	Asbestos	0.05%
27	10/11/81	21:30	San Juan Basin	270 ft	Asbestos	0.05%
28	10/11/81	22:00	San Juan Basin	280 ft	Asbestos	0.05%
29	10/11/81	22:30	San Juan Basin	290 ft	Asbestos	0.05%
30	10/11/81	23:00	San Juan Basin	300 ft	Asbestos	0.05%

