

NEW MEXICO OIL CONSERVATION COMMISSION
INITIAL WELL DELIVERABILITY TEST REPORT FOR 19 67

Form C122-A
Revised 1-1-66

POOL NAME BASIN	POOL SLOPE n = .75	FORMATION DAKOTA	COUNTY SAN JUAN
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COMPANY SOUTHERN UNION PRODUCTION COMPANY			WELL NAME AND NUMBER NEWSON "A" No. 4		
UNIT LETTER L	SECTION 10	TOWNSHIP 26 NORTH	RANGE 8 WEST	PURCHASING PIPELINE EL PASO NATURAL GAS COMPANY	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 7382	TUBING O.D. - INCHES 1.900	TUBING I.D. - INCHES 1.610	TOP - TUBING PERF. - FEET 7222
GAS PAY ZONE FROM 7115 TO 7322		WELL PRODUCING THRU CASING TUBING XX		GAS GRAVITY .678	GRAVITY X LENGTH 4897
DATE OF FLOW TEST FROM 12/19/67 TO 12/27/67			DATE SHUT-IN PRESSURE MEASURED 9/29/67		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 624	(b) Flowing Tubing Pressure (DWt) 550	(c) Flowing Meter Pressure (DWt) 541	(d) Flow Chart Static Reading 540	(e) Meter Error (Item c - Item d) + 1	(f) Friction Loss (a - c) or (b - c) + 9	(g) Average Meter Pressure (Integr.) 541
(h) Corrected Meter Pressure (g + e) 542	(i) Avg. Wellhead Press. $P_t = (h + f)$ 551	(j) Shut-in Casing Pressure (DWt) 1995	(k) Shut-in Tubing Pressure (DWt) 2014	(l) P_c = higher value of (j) or (k) 2014	(m) Del. Pressure $P_d = \frac{50}{100} P_c$ 1007	(n) Separator or Dehydrator Pr. (DWt) for critical flow only —

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 1038	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0018	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0009	Corrected Volume Q = 1039 MCF/D
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WORKING PRESSURE CALCULATION

$(1 - e^{-s})$ 0.300	$(F_c Q_m)^2 (1000)$ 292,476	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$ 87,743	P_t^2 303,601	$P_w^2 = P_t^2 + R^2$ 391,344	$P_w = \sqrt{P_w^2}$ 626
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 1039	$\left[\frac{3,042,147}{3,664,852} \right]^n =$.8301	$=$.8697	$=$ 904 MCF/D
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REMARKS:

SHUT-IN PRESSURES WERE TAKEN FROM INITIAL POTENTIAL TEST ON 9/29/67.

SUMMARY

Item h **542** Psia
P_c **2014** Psia
Q **1039** MCF/D
P_w **626** Psia
P_d **1007** Psia
D **904** MCF/D

Company **SOUTHERN UNION PRODUCTION COMPANY**

By **KENNETH E. RODDY**

Title **PRODUCTION TECHNICIAN**

Witnessed By

Company

- 001 (3) NEW MEXICO OIL CONSERVATION COMMISSION
(1) BENNY E. BECHTOL - EXPLORATION
(1) ROBERT J. MCCRARY - PRODUCTION
(1) BRUCE MOSE - EL PASO NATURAL GAS CO.
P.O. Box 990, FARMINGTON, NEW MEXICO
(1) H. L. KENDRICK - EL PASO NATURAL GAS CO.
P.O. Box 990, FARMINGTON, NEW MEXICO



EAST		75.		YAKOTA		SAN JUAN	
COUNTRY UNION PRODUCTION COMPANY		NEWCOM "A" NO. 4		EL PASO NATURAL GAS COMPANY		NEWCOM "A" NO. 4	
1	4.270	4.028	7.000	25 NORTH	1.900	1.610	1.725
2	7.115	7.025	1.000	25 NORTH	1.900	1.610	1.725
3	10.125	10.025	1.000	25 NORTH	1.900	1.610	1.725
4	13.135	13.025	1.000	25 NORTH	1.900	1.610	1.725
5	16.145	16.025	1.000	25 NORTH	1.900	1.610	1.725
6	19.155	19.025	1.000	25 NORTH	1.900	1.610	1.725
7	22.165	22.025	1.000	25 NORTH	1.900	1.610	1.725
8	25.175	25.025	1.000	25 NORTH	1.900	1.610	1.725
9	28.185	28.025	1.000	25 NORTH	1.900	1.610	1.725
10	31.195	31.025	1.000	25 NORTH	1.900	1.610	1.725
11	34.205	34.025	1.000	25 NORTH	1.900	1.610	1.725
12	37.215	37.025	1.000	25 NORTH	1.900	1.610	1.725
13	40.225	40.025	1.000	25 NORTH	1.900	1.610	1.725
14	43.235	43.025	1.000	25 NORTH	1.900	1.610	1.725
15	46.245	46.025	1.000	25 NORTH	1.900	1.610	1.725
16	49.255	49.025	1.000	25 NORTH	1.900	1.610	1.725
17	52.265	52.025	1.000	25 NORTH	1.900	1.610	1.725
18	55.275	55.025	1.000	25 NORTH	1.900	1.610	1.725
19	58.285	58.025	1.000	25 NORTH	1.900	1.610	1.725
20	61.295	61.025	1.000	25 NORTH	1.900	1.610	1.725
21	64.305	64.025	1.000	25 NORTH	1.900	1.610	1.725
22	67.315	67.025	1.000	25 NORTH	1.900	1.610	1.725
23	70.325	70.025	1.000	25 NORTH	1.900	1.610	1.725
24	73.335	73.025	1.000	25 NORTH	1.900	1.610	1.725
25	76.345	76.025	1.000	25 NORTH	1.900	1.610	1.725
26	79.355	79.025	1.000	25 NORTH	1.900	1.610	1.725
27	82.365	82.025	1.000	25 NORTH	1.900	1.610	1.725
28	85.375	85.025	1.000	25 NORTH	1.900	1.610	1.725
29	88.385	88.025	1.000	25 NORTH	1.900	1.610	1.725
30	91.395	91.025	1.000	25 NORTH	1.900	1.610	1.725
31	94.405	94.025	1.000	25 NORTH	1.900	1.610	1.725
32	97.415	97.025	1.000	25 NORTH	1.900	1.610	1.725
33	100.425	100.025	1.000	25 NORTH	1.900	1.610	1.725
34	103.435	103.025	1.000	25 NORTH	1.900	1.610	1.725
35	106.445	106.025	1.000	25 NORTH	1.900	1.610	1.725
36	109.455	109.025	1.000	25 NORTH	1.900	1.610	1.725
37	112.465	112.025	1.000	25 NORTH	1.900	1.610	1.725
38	115.475	115.025	1.000	25 NORTH	1.900	1.610	1.725
39	118.485	118.025	1.000	25 NORTH	1.900	1.610	1.725
40	121.495	121.025	1.000	25 NORTH	1.900	1.610	1.725
41	124.505	124.025	1.000	25 NORTH	1.900	1.610	1.725
42	127.515	127.025	1.000	25 NORTH	1.900	1.610	1.725
43	130.525	130.025	1.000	25 NORTH	1.900	1.610	1.725
44	133.535	133.025	1.000	25 NORTH	1.900	1.610	1.725
45	136.545	136.025	1.000	25 NORTH	1.900	1.610	1.725
46	139.555	139.025	1.000	25 NORTH	1.900	1.610	1.725
47	142.565	142.025	1.000	25 NORTH	1.900	1.610	1.725
48	145.575	145.025	1.000	25 NORTH	1.900	1.610	1.725
49	148.585	148.025	1.000	25 NORTH	1.900	1.610	1.725
50	151.595	151.025	1.000	25 NORTH	1.900	1.610	1.725
51	154.605	154.025	1.000	25 NORTH	1.900	1.610	1.725
52	157.615	157.025	1.000	25 NORTH	1.900	1.610	1.725
53	160.625	160.025	1.000	25 NORTH	1.900	1.610	1.725
54	163.635	163.025	1.000	25 NORTH	1.900	1.610	1.725
55	166.645	166.025	1.000	25 NORTH	1.900	1.610	1.725
56	169.655	169.025	1.000	25 NORTH	1.900	1.610	1.725
57	172.665	172.025	1.000	25 NORTH	1.900	1.610	1.725
58	175.675	175.025	1.000	25 NORTH	1.900	1.610	1.725
59	178.685	178.025	1.000	25 NORTH	1.900	1.610	1.725
60	181.695	181.025	1.000	25 NORTH	1.900	1.610	1.725
61	184.705	184.025	1.000	25 NORTH	1.900	1.610	1.725
62	187.715	187.025	1.000	25 NORTH	1.900	1.610	1.725
63	190.725	190.025	1.000	25 NORTH	1.900	1.610	1.725
64	193.735	193.025	1.000	25 NORTH	1.900	1.610	1.725
65	196.745	196.025	1.000	25 NORTH	1.900	1.610	1.725
66	199.755	199.025	1.000	25 NORTH	1.900	1.610	1.725
67	202.765	202.025	1.000	25 NORTH	1.900	1.610	1.725
68	205.775	205.025	1.000	25 NORTH	1.900	1.610	1.725
69	208.785	208.025	1.000	25 NORTH	1.900	1.610	1.725
70	211.795	211.025	1.000	25 NORTH	1.900	1.610	1.725
71	214.805	214.025	1.000	25 NORTH	1.900	1.610	1.725
72	217.815	217.025	1.000	25 NORTH	1.900	1.610	1.725
73	220.825	220.025	1.000	25 NORTH	1.900	1.610	1.725
74	223.835	223.025	1.000	25 NORTH	1.900	1.610	1.725
75	226.845	226.025	1.000	25 NORTH	1.900	1.610	1.725
76	229.855	229.025	1.000	25 NORTH	1.900	1.610	1.725
77	232.865	232.025	1.000	25 NORTH	1.900	1.610	1.725
78	235.875	235.025	1.000	25 NORTH	1.900	1.610	1.725
79	238.885	238.025	1.000	25 NORTH	1.900	1.610	1.725
80	241.895	241.025	1.000	25 NORTH	1.900	1.610	1.725
81	244.905	244.025	1.000	25 NORTH	1.900	1.610	1.725
82	247.915	247.025	1.000	25 NORTH	1.900	1.610	1.725
83	250.925	250.025	1.000	25 NORTH	1.900	1.610	1.725
84	253.935	253.025	1.000	25 NORTH	1.900	1.610	1.725
85	256.945	256.025	1.000	25 NORTH	1.900	1.610	1.725
86	259.955	259.025	1.000	25 NORTH	1.900	1.610	1.725
87	262.965	262.025	1.000	25 NORTH	1.900	1.610	1.725
88	265.975	265.025	1.000	25 NORTH	1.900	1.610	1.725
89	268.985	268.025	1.000	25 NORTH	1.900	1.610	1.725
90	271.995	271.025	1.000	25 NORTH	1.900	1.610	1.725
91	275.005	275.025	1.000	25 NORTH	1.900	1.610	1.725
92	278.015	278.025	1.000	25 NORTH	1.900	1.610	1.725
93	281.025	281.025	1.000	25 NORTH	1.900	1.610	1.725
94	284.035	284.025	1.000	25 NORTH	1.900	1.610	1.725
95	287.045	287.025	1.000	25 NORTH	1.900	1.610	1.725
96	290.055	290.025	1.000	25 NORTH	1.900	1.610	1.725
97	293.065	293.025	1.000	25 NORTH	1.900	1.610	1.725
98	296.075	296.025	1.000	25 NORTH	1.900	1.610	1.725
99	299.085	299.025	1.000	25 NORTH	1.900	1.610	1.725
100	302.095	302.025	1.000	25 NORTH	1.900	1.610	1.725

OUT-OF-STATE - WHERE TAKEN FOR THE STATE OF TEXAS.

COUNTRY UNION PRODUCTION COMPANY
NEWCOM "A" NO. 4
SAN JUAN

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- (1) NEW MEXICO OIL CONSERVATION COMMISSION
- (2) BERNY E. BECHTOLD - EXPLORATION
- (3) ROBERT J. BOGARTY - PRODUCTION
- (4) BRUCE MOSE - EL PASO NATURAL GAS CO.
- (5) P.O. BOX 990, FARMINGTON, NEW MEXICO
- (6) P.O. BOX 990, FARMINGTON, NEW MEXICO
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