

NEW MEXICO OIL CONSERVATION COMMISSION

WELL DELIVERABILITY TEST REPORT FOR 19 68

Form C122-A
Revised 1-1-68

POOL NAME BLANCO	POOL SLOPE n = .75	FORMATION MV	COUNTY SJ
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70-535

COMPANY EL PASO NATURAL GAS CO			WELL NAME AND NUMBER NEIL #2		
UNIT LETTER H	SECTION 15	TOWNSHIP 31	RANGE 11	PURCHASING PIPELINE EL PASO NATURAL GAS CO.	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 5168	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 5054
GAS PAY ZONE		WELL PRODUCING THRU		GAS GRAVITY	GRAVITY X LENGTH
FROM 4388	TO 5126	CASING	TUBING X	0.677	3422
DATE OF FLOW TEST			DATE SHUT-IN PRESSURE MEASURED		
FROM 05/15/68 TO 05/23/68			03/11/68		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 0	(b) Flowing Tubing Pressure (DWt) 0	(c) Flowing Meter Pressure (DWt) 0	(d) Flow Chart Static Reading 0	(e) Meter Error (Item c - Item d) 0	(f) Friction Loss (a-c) or (b-c) 0	(g) Average Meter Pressure (Integr.) 490
(h) Corrected Meter Pressure (g+e) 490	(i) Avg. Wellhead Press. $P_i = (h+f)$ 490	(j) Shut-in Casing Pressure (DWt) 748	(k) Shut-in Tubing Pressure (DWt) 742	(l) P_e higher value of (j) or (k) 748	(m) Del. Pressure $P_d = 30\% P_e$ 598	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 200	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume $Q =$ 200 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-5})$.229	$(F_c Q_m)^2 (1000)$ 3,534	$R^2 = (1-e^{-5}) (F_c Q_m)^2 (1000)$ 777	P_t^2 240100	$P_w^2 = P_t^2 + R^2$ 240877	$P_w = \sqrt{P_w^2}$ 491
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DELIVERABILITY CALCULATION

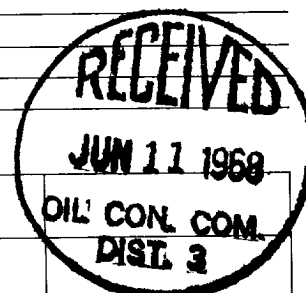
$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{200}{\left(\frac{201900}{318627} \right)^n} = \frac{0.6336}{0.7102} = 142 \text{ MCF/D}$$

REMARKS: Installed packer, turned back on production 4-17-68.

SUMMARY

Item h **490** Psia
 P_c **748** Psia
 Q **200** MCF/D
 P_w **491** Psia
 P_d **598** Psia
 D **142** MCF/D

Company **EL PASO NATURAL GAS CO**
 By _____
 Title _____
 Witnessed By _____
 Company _____



2565 70-535

PRESSURE DATA - ALL - RESERVOIR PRESSURE

Well No.	Pressure (psi)	Depth (ft)	Pressure (psi)	Depth (ft)
1	1000	1000	1000	1000
2	1000	1000	1000	1000
3	1000	1000	1000	1000
4	1000	1000	1000	1000
5	1000	1000	1000	1000
6	1000	1000	1000	1000
7	1000	1000	1000	1000
8	1000	1000	1000	1000
9	1000	1000	1000	1000
10	1000	1000	1000	1000

FLOW RATE CORRECTED WATER FLOW

Well No.	Flow Rate (bbl/day)	Water Cut (%)	Flow Rate (bbl/day)	Water Cut (%)
1	1000	1000	1000	1000
2	1000	1000	1000	1000
3	1000	1000	1000	1000
4	1000	1000	1000	1000
5	1000	1000	1000	1000
6	1000	1000	1000	1000
7	1000	1000	1000	1000
8	1000	1000	1000	1000
9	1000	1000	1000	1000
10	1000	1000	1000	1000

WORKING PRESSURE CALCULATION

Well No.	Working Pressure (psi)	Flow Rate (bbl/day)	Working Pressure (psi)	Flow Rate (bbl/day)
1	1000	1000	1000	1000
2	1000	1000	1000	1000
3	1000	1000	1000	1000
4	1000	1000	1000	1000
5	1000	1000	1000	1000
6	1000	1000	1000	1000
7	1000	1000	1000	1000
8	1000	1000	1000	1000
9	1000	1000	1000	1000
10	1000	1000	1000	1000

DELIVERABILITY CALCULATION

Well No.	Deliverability (bbl/day)	Flow Rate (bbl/day)	Deliverability (bbl/day)	Flow Rate (bbl/day)
1	1000	1000	1000	1000
2	1000	1000	1000	1000
3	1000	1000	1000	1000
4	1000	1000	1000	1000
5	1000	1000	1000	1000
6	1000	1000	1000	1000
7	1000	1000	1000	1000
8	1000	1000	1000	1000
9	1000	1000	1000	1000
10	1000	1000	1000	1000

REMARKS: Installed packer, turned back on production 4-17-64.

SUMMARY

Well No.	1	2	3	4	5	6	7	8	9	10
Pressure (psi)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Flow Rate (bbl/day)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Water Cut (%)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Working Pressure (psi)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Deliverability (bbl/day)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000

