

Init.
Deliverability

NEW MEXICO OIL CONSERVATION COMMISSION

WELL DELIVERABILITY TEST REPORT FOR 19 68

Form C122-A
Revised 1-1-68

POOL NAME BASIN	POOL SLOPE n = .75	FORMATION SAKOTA	COUNTY SJ
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COMPANY EL PASO NATURAL GAS CO			WELL NAME AND NUMBER HUERFANO UNIT #180		
UNIT LETTER D	SECTION 18	TOWNSHIP 26	RANGE 9	PURCHASING PIPELINE EL PASO NATURAL GAS CO.	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 6743	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 6544
GAS PAY ZONE		WELL PRODUCING THRU		GAS GRAVITY 0.701	GRAVITY X LENGTH 4587
FROM 6572 TO 6725		CASING		TUBING X	
DATE OF FLOW TEST FROM 06/03/68 TO 06/11/68			DATE SHUT-IN PRESSURE MEASURED 04/03/68		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt)	(b) Flowing Tubing Pressure (DWt)	(c) Flowing Meter Pressure (DWt)	(d) Flow Chart Static Reading	(e) Meter Error (Item c - Item d)	(f) Friction Loss (a-c) or (b-c)	(g) Average Meter Pressure (Integr.)
0	0	0	0	0	0	449
(h) Corrected Meter Pressure (g+e)	(i) Avg. Wellhead Press. $P_t = (h+f)$	(j) Shut-in Casing Pressure (DWt)	(k) Shut-in Tubing Pressure (DWt)	(l) P_e higher value of (i) or (k)	(m) Del. Pressure $P_d = \frac{50}{100} \% P_c$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only
449	449	1973	1963	1973	987	

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D	Quotient of $\frac{\text{Item c}}{\text{Item d}}$	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$	Corrected Volume
512	1.0000	1.0000	Q = 512 MCF/D

WORKING PRESSURE CALCULATION

$(1-e^{-s})$	$(F_c Q_m)^2 (1000)$	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$	P_t^2	$P_w^2 = P_t^2 + R^2$	$P_w = \sqrt{P_w^2}$
.284	23,175	6582	201601	208183	456

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = 512 \left[\frac{2918560}{3684546} \right]^n = \left(\frac{0.7921}{0.8396} \right)^n = 430 \text{ MCF/D}$$

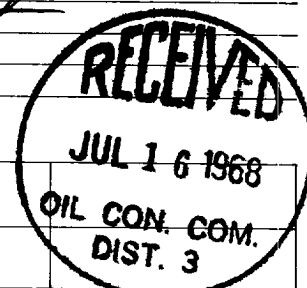
REMARKS:

New Well First Delivered 5-17-68.

SUMMARY

Item h 449 Psia
 P_c 1973 Psia
 Q 512 MCF/D
 P_w 456 Psia
 P_d 987 Psia
 D 430 MCF/D

Company EL PASO NATURAL GAS CO
 By [Signature]
 Title [Signature]
 Witnessed By _____
 Company _____



68/07/12

2045 75-773

NEW MEXICO OIL COMMISSION

REPORT OF INVESTIGATION

THIS REPORT WAS PREPARED BY THE NEW MEXICO OIL COMMISSION IN RESPONSE TO A REQUEST FROM THE U.S. DEPARTMENT OF THE INTERIOR, BUREAU OF LAND MANAGEMENT, ALBUQUERQUE, NEW MEXICO.

THE FOLLOWING INFORMATION WAS OBTAINED FROM THE RECORDS OF THE NEW MEXICO OIL COMMISSION:

1. A WELL WAS DRILLED ON THE LANDS OF THE U.S. DEPARTMENT OF THE INTERIOR, BUREAU OF LAND MANAGEMENT, ALBUQUERQUE, NEW MEXICO, ON JULY 1, 1958.

2. THE WELL WAS DRILLED TO A DEPTH OF 1,000 FEET.

3. THE WELL WAS DRILLED BY THE NEW MEXICO OIL COMMISSION.

4. THE WELL WAS DRILLED BY THE NEW MEXICO OIL COMMISSION.

5. THE WELL WAS DRILLED BY THE NEW MEXICO OIL COMMISSION.

FLUID RATE OF FLOW

DATE	TIME	FLOW RATE (GPM)	WELL HEAD PRESSURE (PSI)	DOWNHOLE PRESSURE (PSI)
7/1/58	10:00	100	100	100
7/1/58	11:00	100	100	100
7/1/58	12:00	100	100	100
7/1/58	13:00	100	100	100
7/1/58	14:00	100	100	100
7/1/58	15:00	100	100	100
7/1/58	16:00	100	100	100
7/1/58	17:00	100	100	100
7/1/58	18:00	100	100	100
7/1/58	19:00	100	100	100
7/1/58	20:00	100	100	100
7/1/58	21:00	100	100	100
7/1/58	22:00	100	100	100
7/1/58	23:00	100	100	100
7/1/58	24:00	100	100	100

WORKING PRESSURE CALCULATION

DATE	TIME	WORKING PRESSURE (PSI)
7/1/58	10:00	100
7/1/58	11:00	100
7/1/58	12:00	100
7/1/58	13:00	100
7/1/58	14:00	100
7/1/58	15:00	100
7/1/58	16:00	100
7/1/58	17:00	100
7/1/58	18:00	100
7/1/58	19:00	100
7/1/58	20:00	100
7/1/58	21:00	100
7/1/58	22:00	100
7/1/58	23:00	100
7/1/58	24:00	100

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7/1/58	15:00	100	100	100
7/1/58	16:00	100	100	100
7/1/58	17:00	100	100	100
7/1/58	18:00	100	100	100
7/1/58	19:00	100	100	100
7/1/58	20:00	100	100	100
7/1/58	21:00	100	100	100
7/1/58	22:00	100	100	100
7/1/58	23:00	100	100	100
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7/1/58	19:00	100	100	100
7/1/58	20:00	100	100	100
7/1/58	21:00	100	100	100
7/1/58	22:00	100	100	100
7/1/58	23:00	100	100	100
7/1/58	24:00	100	100	100

NEW MEXICO OIL COMMISSION

ALBUQUERQUE, NEW MEXICO

