

Info.
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 DAKOTA	COUNTY SJ
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75-767

COMPANY EL PASO NATURAL GAS CO			WELL NAME AND NUMBER HUERFANO UNIT #160		
UNIT LETTER 0	SECTION 17	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 6736	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 6568
GAS PAY ZONE FROM 6472 TO 6570		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY 0.678	GRAVITY X LENGTH 4453
DATE OF FLOW TEST FROM 05/10/68 TO 05/18/68			DATE SHUT-IN PRESSURE MEASURED 03/28/68		

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	456
(h) Corrected Meter Pressure (g+e)	(i) Avg. Wellhead Press. P _i = (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 = 50 % P _c	(n) Separator or Dehydrator Pr. (DWt) for critical flow only
456	456	1998	1530	1998	999	

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
120	1.0000	1.0000	Q = 120 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	$P_w^2 = P_t^2 + R^2$	$P_w = \sqrt{P_w^2}$
.277	1,272	352	207936	USE PT2	456

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{120}{\left[\frac{2994003}{3784068} \right]^n} = \frac{120}{(0.7912)^n} = \frac{120}{0.8389} = 101 \text{ MCF/D}$$

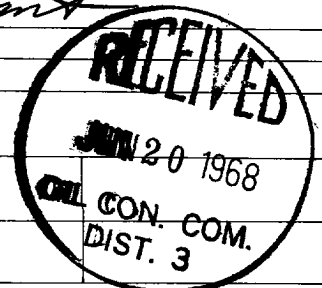
REMARKS:

New Well First Delivered 4-11-68.

SUMMARY

Item h	456	Psia
P _c	1998	Psia
Q	120	MCF/D
P _w	456	Psia
P _d	999	Psia
D	101	MCF/D

Company **EL PASO NATURAL GAS CO**
By **J.B. Grant**
Title
Witnessed By
Company



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ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED

[illegible]

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THE STATE CORRECTIONAL INSTITUTION

WORKING ASSURES COUNCIL

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