

NEW MEXICO OIL CONSERVATION COMMISSION

WELL DELIVERABILITY TEST REPORT FOR 1969

Form
Revised

In		POOL SLT	FORMATION	COUNTY	
R = .75		Dakota		San Juan	
EL PASO			WELL NAME AND NUMBER		
Lodewick No. 11			75-55		
SECTION	TOWNSHIP	RANGE	PURCHASING PIPELINE		
30	27	9	EL PASO Natural Gas		
CASING I.D. - INCHES	SET AT DEPTH - FEET	TUBING O.D. - INCHES	TUBING I.D. - INCHES	TUBING PERF. - FEET	
4.500	6840	2.375	1.995	6777	
GAS PAY ZONE		WELL PRODUCING THRU		GAS GRAVITY	
6578 TO 6803		TUBING XX		.678	
DATE OF FLOW TEST		DATE SHUT-IN PRESSURE MEASURED		GRAVITY & LENGTH	
2-20-69 TO 2-28-69		12-31-68		4595	

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 (Item g)
				0	0	416
(h) Shut-in Meter Pressure (g + e)	(i) Avg. Wellhead Press. $P_w = (h + f)$	(j) Shut-in Casing Pressure (DWt)	(k) Shut-in Tubing Pressure (DWt)	(l) P_w - higher value of (i) or (k)	(m) Del. Pressure $P_d = 50$ 948	(n) Separator or Hydrator Pr. (DWt) for critical flow only
416	416	1896	1581	1896		

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D	Constant of $\frac{\text{Item c}}{\text{Item d}}$	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$	Corrected Volume
629	1.0000	1.0000	q = 629 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	34972	9932	173056	182988	428

DELIVERABILITY CALCULATION

$Q = C \left[\frac{P_t^2 - P_w^2}{P_t^2 - P_w^2} \right]^n$	629	$\left(\frac{2696112}{3411828} \right)^n$	$(0.7902)^n$	0.8381	527 MCF/D
--	-----	--	--------------	--------	-----------

Remarks:

New well first delivered 1-23-69

SUMMARY

Item h	416	Psic
P _c	1896	Psic
Q	629	MCF/D
P _w	428	Psic
P _d	948	Psic
D	527	MCF/D

Company EL PASO NATURAL GAS COMPANY
By H. L. Kennerly
Title Regional Well Test Engineer
Witnessed By _____
Company _____

