NEW MEXICO OIL CONSERVATION COMMISSION

INITIAL WELL DELIVERABILITY TEST REPORT FOR 19 72

Form C122-A
Revised 1-1-66

POOL NAME	POOL SLOPE	FORMATION	COUNTY
Basin	n= .75	Dakota	San Juan

COMPANY			WELL NAME AND NUMBER		
Odessa Natural			Burroughs State #1		
UNIT LETTER	SECTION	TOWNSHIP	RANGE	PURCHASING PIPELINE	
D	36	26	11	El Paso Natural Gas	
CASING O.D. – INCHES	CASING I.D. – INCHES	SET AT DEPTH – FEET	TUBING O.D. – INCHES	TUBING I.D. – INCHES	TOP – TUBING PERF. – FEET
4.500	4.052	6348	2.375	1.995	6232
GAS PAY ZONE		WELL PRODUCING THRU		GAS GRAVITY	GRAVITY X LENGTH
FROM 6168 TO 6241		CASING	TUBING X	.728	4537
DATE OF FLOW TEST			DATE SHUT-IN PRESSURE MEASURED		
FROM 8-8-72 TO 8-16-72			11-27-71		

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.)
						247
(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_c = higher value of (j) or (k)**	**(m) Del. Pressure P_d = 50 %P_c**	**(n) Separator or Dehydrator Pr. (DWt) for critical flow only**
	247	1700	1687	1700	850	

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
480			Q = 480 MCF/D

WORKING PRESSURE CALCULATION

$(1-e^{-s})$	$(F_c\ Q_m)^2\ (1000)$	$R^2 = \frac{}{(1-e^{-s})\ (F_c\ Q_m)^2(1000)}$	P_t^2	$P_w^2 = P_t^2 + R^2$	$P_w = \sqrt{P_w^2}$
					247

DELIVERABILITY CALCULATION

$$D = Q\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2}\right]^n = 480 \left[\left(\frac{2,167,500}{2,828,991}\right)^n = (.7662)^n = .8190\right] = 393 \text{ MCF/D}$$

REMARKS:

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DIST. 3

SUMMARY

Item h		Psia
P_c	1700	Psia
Q	480	MCF/D
P_w	247	Psia
P_d	850	Psia
D	393	MCF/D

Company
By
Title
Witnessed By Jack D. Cook
Company Engineering & Production Service, Inc.


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SEP 18 1992
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DIST. 3