

NEW MEXICO OIL CONSERVATION COMMISSION
INITIAL WELL DELIVERABILITY TEST REPORT FOR 19 69

Form C122-A
 Revised 1-1-66

POOL NAME BASIN DAKOTA	POOL SLOPE n = .75	FORMATION DAKOTA	COUNTY SAN JUAN
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COMPANY BETA DEVELOPMENT CO.			WELL NAME AND NUMBER ONEDA FEDERAL #1		
UNIT LETTER K	SECTION 30	TOWNSHIP 27 North	RANGE 11 West	PURCHASING PIPELINE EPNG Co.	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 6356	TUBING O.D. - INCHES 1.900	TUBING I.D. - INCHES 1.610	TOP - TUBING PERF. - FEET 6288
GAS PAY ZONE FROM 6264 TO 6295		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY .701	GRAVITY X LENGTH 4408 ✓
DATE OF FLOW TEST FROM 4-6-69 TO 4-14-69			DATE SHUT-IN PRESSURE MEASURED 1967 Annual S.I. Used - Tbg. only		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) -0-	(b) Flowing Tubing Pressure (DWt) 463	(c) Flowing Meter Pressure (DWt) 457	(d) Flow Chart Static Reading 458	(e) Meter Error (Item c - Item d) - 1 ✓	(f) Friction Loss (a - c) or (b - c) 6 ✓	(g) Average Meter Pressure (Integr.) 457
(h) Corrected Meter Pressure (g + e) 456 ✓	(i) Avg. Wellhead Press. $P_t = (h + f)$ 462 ✓	(j) Shut-in Casing Pressure (DWt) -0-	(k) Shut-in Tubing Pressure (DWt) 980	(l) P_c = higher value of (j) or (k) 980 ✓	(m) Del. Pressure $P_d =$ 50 % P_c 990 490	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 342	Quotient of $\frac{\text{Item c}}{\text{Item d}}$.9978 ✓	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$.9989 ✓	Corrected Volume Q = 342 MCF/D
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WORKING PRESSURE CALCULATION

$(1 - e^{-s})$.274 ✓	$(F_c Q_m)^2 (1000)$ 31,689 ✓	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$ 8,683 ✓	P_t^2 213,444 ✓	$P_w^2 = P_t^2 + R^2$ 222,127 ✓	$P_w = \sqrt{P_w^2}$ 471 ✓
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 342 ✓	$\left[\frac{720,300}{738,273} \right]^n \left(.9756 \right)^n =$.9816 ✓	$=$ 336 MCF/D
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REMARKS:

SUMMARY

Item h	456 ✓	Psia
P_c	980 ✓	Psia
Q	342 ✓	MCF/D
P_w	471 ✓	Psia
P_d	490 ✓	Psia
D	336 ✓	MCF/D

Company **Beta Development Co.**
 By **J.C. Dean**
 Title _____
 Witnessed By _____
 Company _____



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