

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 FOGELSON 2 COM. #1		
UNIT LETTER J	SECTION 2	TOWNSHIP 29 North	RANGE 11 West	PURCHASING PIPELINE EPNG Co.	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 6815	TUBING O.D. - INCHES 1.900	TUBING I.D. - INCHES 1.610	TOP - TUBING PERF. - FEET 6646
GAS PAY ZONE FROM 6630 TO 6697		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY .671	GRAVITY X LENGTH 4459
DATE OF FLOW TEST FROM 4-22-69 TO 4-30-69			DATE SHUT-IN PRESSURE MEASURED 1968 Annual S.I. Used		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 613	(b) Flowing Tubing Pressure (DWt) 476	(c) Flowing Meter Pressure (DWt) 471	(d) Flow Chart Static Reading 471	(e) Meter Error (Item c - Item d) -0-	(f) Friction Loss (a - c) or (b - c) 5	(g) Average Meter Pressure (Integr.) 471
(h) Corrected Meter Pressure (g + e) 471	(i) Avg. Wellhead Press. $P_t = (h + f)$ 476	(j) Shut-in Casing Pressure (DWt) 851	(k) Shut-in Tubing Pressure (DWt) 849	(l) P_c = higher value of (j) or (k) 851	(m) Del. Pressure $P_d = \frac{50}{426} P_c$ 426	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 354	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.000	Corrected Volume Q = 354 MCF/D
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WORKING PRESSURE CALCULATION

$(1 - e^{-s})$.277	$(F_c Q_m)^2 (1000)$ 33,952	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$ 9,405	P_t^2 226,576	$P_w^2 = P_t^2 + R^2$ 235,981	$P_w = \sqrt{P_w^2}$ 486
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 354	$\left[\frac{542,725}{488,220} \right]^n =$ 1.1116	$\left[\frac{542,725}{488,220} \right]^n =$ 1.0825	383 MCF/D
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REMARKS:

SUMMARY

Item h **471** Psia
 P_c **851** Psia
 Q **354** MCF/D
 P_w **486** Psia
 P_d **426** Psia
 D **383** MCF/D

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

