

3-OCC, 1-Depco
1-HLKendrick
1-JTH, 1-F

NEW MEXICO OIL CONSERVATION COMMISSION
INITIAL WELL DELIVERABILITY TEST REPORT FOR 19 67

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 Fiffield 5 #1		
UNIT LETTER N	SECTION 5	TOWNSHIP 29	RANGE 11	PURCHASING PIPELINE El Paso Natural Gas Co.	
CASING O.D. - INCHES 4.5	CASING I.D. - INCHES 4.090	SET AT DEPTH - FEET 6689	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 6350
GAS PAY ZONE FROM 6402 TO 6580		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY .658	GRAVITY X LENGTH 4178
DATE OF FLOW TEST FROM 2-19-67 TO 2-27-67			DATE SHUT-IN PRESSURE MEASURED 4-4-66		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 511	(b) Flowing Tubing Pressure (DWt) 511	(c) Flowing Meter Pressure (DWt) 504	(d) Flow Chart Static Reading 504	(e) Meter Error (Item c - Item d) 504	(f) Friction Loss (a - c) or (b - c) 7	(g) Average Meter Pressure (Integr.) 504
(h) Corrected Meter Pressure (g + e) 504	(i) Avg. Wellhead Press. $P_t = (h + f)$ 511	(j) Shut-in Casing Pressure (DWt) 852	(k) Shut-in Tubing Pressure (DWt) 852	(l) P_c = higher value of (j) or (k) 852	(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 406	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 406 MCF/D
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WORKING PRESSURE CALCULATION

$(1 - e^{-s})$.262	$(F_c Q_m)^2 (1000)$ 14,569	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$ 3,817	P_t^2 261,121	$P_w^2 = P_t^2 + R^2$ 264,938	$P_w = \sqrt{P_w^2}$ 515
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 406	$\left[\frac{544,428}{460,966} \right]^n =$ 1.181	$=$ 1.133	$=$ 460 MCF/D
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REMARKS:

SUMMARY	
Item h	504 Psia
P_c	852 Psia
Q	406 MCF/D
P_w	515 Psia
P_d	426 Psia
D	460 MCF/D

Company **Beta Development Co.**
By **G. L. Hoffman**
Title **Prod. Engr.**
Witnessed By _____
Company _____



