

NEW MEXICO OIL CONSERVATION COMMISSION
INITIAL WELL DELIVERABILITY TEST REPORT FOR 10 76

Form O-129-A
 Revised 1-1-69

POOL NAME Ute Dome	POOL SLOPE n = .75	FORMATION Dakota	COUNTY San Juan
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86882

COMPANY Benson-Montin-Greer Drilling Corp.			WELL NAME AND NUMBER La Plata 2 F #30		
UNIT LETTER F	SECTION 30	TOWNSHIP 32	RANGE 13	PURCHASING PIPELINE Northwest Pipeline	
CASING O.D. - INCHES 5.500	CASING I.D. - INCHES 4.825	SET AT DEPTH - FEET 3309	TUBING O.D. - INCHES 2.063	TUBING I.D. - INCHES 1.751	TOP - TUBING PERF. - FEET 3178
GAS PAY ZONE FROM 2997 TO 3093		WELL PRODUCING THRU CASING TUBING XX		GAS GRAVITY .691	GRAVITY X LENGTH 2196
DATE OF FLOW TEST FROM Aug. 7 TO Aug. 15			DATE SHUT-IN PRESSURE MEASURED May 12, 1976		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 416	(b) Flowing Tubing Pressure (DWt) 416	(c) Flowing Meter Pressure (DWt) 689	(d) Flow Chart Static Reading 596	(e) Meter Error (Item c - Item d) 689	(f) Friction Loss (a - c) or (b - c) 345	(g) Average Meter Pressure (DWt) 416
(h) Corrected Meter Pressure (g + e) 416	(i) Avg. Wellhead Press. $P_t = (h + f)$ 416	(j) Shut-in Casing Pressure (DWt) 689	(k) Shut-in Tubing Pressure (DWt) 596	(l) $P_c =$ higher value of (j) or (k) 689	(m) Del. Pressure $P_d =$ <u>50</u> % P_c 345	(n) Separator or Dehydrator P_s (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 552	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume $Q =$ 552 MCF/D
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WORKING PRESSURE CALCULATION

$(1 - e^{-s})$.148	$(F_c Q_m)^2 (1000)$ 53253	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$ 7881	P_t^2 173056	$P_w^2 = P_t^2 + R^2$ 180937	$P_w = \sqrt{P_w^2}$ 425
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 552	$\left[\frac{355696}{293784} \right]^n =$ 1.2107	$=$ 1.1542	$=$ 637 MCF/D
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REMARKS:

First delivered 7-21-76

SUMMARY

Item h	416	✓	Psia
P_c	689	✓	Psia
Q	552	✓	MCF/D
P_w	425	✓	Psia
P_d	345	✓	Psia
D	637	✓	MCF/D

Company **Benson-Montin-Greer Drilling Corp.**

By **[Signature]**

Title

Witnessed By

Company

SEP 24 1976

**OIL CON. COM.
DIST. 3**

NEW MEXICO OIL CONSERVATION COMMISSION

INITIAL WELL DELIVERABILITY TEST REPORT FOR 19

Form C122-A
Revised 1-1-66

POOL NAME	POOL SLOPE n =	FORMATION	COUNTY
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COMPANY			WELL NAME AND NUMBER		
UNIT LETTER	SECTION	TOWNSHIP	RANGE	PURCHASING PIPELINE	
CASING O.D. - INCHES	CASING I.D. - INCHES	SET AT DEPTH - FEET	TUBING O.D. - INCHES	TUBING I.D. - INCHES	TOP - TUBING PERF. - FEET
GAS PAY ZONE FROM TO		WELL PRODUCING THRU CASING TUBING		GAS GRAVITY	GRAVITY X LENGTH
DATE OF FLOW TEST FROM TO			DATE SHUT-IN PRESSURE MEASURED		

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.)
(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 $P_d = \text{ } \% P_c$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

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 Q = MCF/D
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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	$P_w^2 = P_t^2 + R^2$	$P_w = \sqrt{P_w^2}$
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \left[\left(\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right)^n \left(\frac{P_c^2 - P_w^2}{P_c^2 - P_w^2} \right)^n \right] = \text{MCF/D}$
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REMARKS:

SUMMARY

Item h _____ Psia
 P_c _____ Psia
 Q _____ MCF/D
 P_w _____ Psia
 P_d _____ Psia
 D _____ MCF/D

Company _____
 By _____
 Title _____
 Witnessed By _____
 Company _____