

**STATE OF KANSAS - CORPORATION COMMISSION**  
**ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST**

FORM G-2  
8-7-58  
29  
7-25-86

TYPE TEST:  Deliverability  Open Flow TEST DATE: 15-127-20202-0000

COMPANY: BENSON MINERAL GROUP, INC. LEASE: GANT WELL NO.: 2-14-X

COUNTY: MORRIS LOCATION: SECTION 14 TWP 17 R1G 7E ACRES: SUB 100

FIELD: NENEHA RESERVOIR: PIPELINE CONNECTION:

COMPLETION DATE: PLUG BACK TOTAL DEPTH: PACKER SET AT:

CASING SIZE: WT. L.D. SET AT PERF. TO

TUBING SIZE: WT. L.D. SET AT PERF. TO

TYPE COMPLETION (Describe): TYPE FLUID PRODUCTION: GAS

PRODUCING THRU: RESERVOIR TEMPERATURE F: BAR. PRESS - P<sub>a</sub>: 14.4 Psia

GAS GRAVITY - G<sub>g</sub>: 0.6750 % CARBON DIOXIDE: 0.0000 % NITROGEN: 0.0000 API GRAVITY OF LIQUID: -

VERTICAL DEPTH (H): TYPE METER CONN.: (METER RUN)(PROVER) SIZE: 3068

SHUT-IN PRESSURE: SHUT IN 5-2 19.86 AT 8 (AM)(PM) TAKEN 5-5 19.86 AT 7 (AM)(PM)  
 FLOW TEST: STARTED 5-12 19.86 AT 8 (AM)(PM) TAKEN 5-13 19.86 AT 7 (AM)(PM)

OBSERVED DATA										DURATION OF SHUT-IN HR.	
SHUT-IN OR FLOW	ORIFICE SIZE in.	(METER) (PROVER) PRESSURE psig	DIFF. in. (h <sub>w</sub> )(h <sub>d</sub> )	FLOWING TEMP. t	WELL-HEAD TEMP. t	CASING WELLHEAD PRESS		TIEING WELLHEAD PRESS		DURATION HOURS	LIQUID PROD. Bbls.
						psig	(P <sub>w</sub> )(P <sub>i</sub> )(P <sub>c</sub> ) psia	psig	(P <sub>w</sub> )(P <sub>i</sub> )(P <sub>c</sub> ) psia		
SHUT-IN						8.9				72	
FLOW	0.25	7.6	3	60	60	7.6				24	0

RATE OF FLOW CALCULATIONS								
COEFFICIENT (F <sub>b</sub> )(F <sub>d</sub> ) Mcfd	(METER) (PROVER) PRESSURE psia	EXTENSION $\sqrt{P_m h_w}$	GRAVITY FACTOR F <sub>g</sub>	FLOWING TEMP. T <sub>L</sub>	DEVIATION FACTOR F <sub>pv</sub>	RATE OF FLOW R Mcfd	GOR	Q <sub>m</sub>
12.996	22.0	8.124	1.2172	1.0000	1.0007	3		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS							
(P <sub>c</sub> ) <sup>2</sup> =	(P <sub>w</sub> ) <sup>2</sup> =	P <sub>d</sub> <sup>2</sup> =	%	(P <sub>c</sub> - 14.4) + 14.4 =	(P <sub>w</sub> ) <sup>2</sup> = 0.207	(P <sub>d</sub> ) <sup>2</sup> =	
$\frac{(P_c)^2 - (P_w)^2}{(P_c)^2 - (P_d)^2}$	$(P_c)^2 - (P_w)^2$	$\frac{P_c^2 - P_w^2}{P_c^2 - P_w^2}$	LOG [ ]	"n"	n x LOG [ ]	ANTILOG	OPEN FLOW DELIVERABILITY EQUALS R x ANTILOG Mcfd
				.66			9.5

OPEN FLOW Mcfd @ 14.65 psia DELIVERABILITY Mcfd @ 14.65 psia

The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct.

Executed this the 9<sup>th</sup> day of July, 1986.

Witness (if any) \_\_\_\_\_ For Commission \_\_\_\_\_  
 RECEIVED STATE CORPORATION COMMISSION 07-11-86 JUL 11 1986  
 Bob Sipey For Company \_\_\_\_\_  
 jfk Checked by \_\_\_\_\_