

PLOT SYMBOLS:

WHSIP - O
BHP/Z - Z
Common - C

6 MOS TOTAL MMCF/6 - R
(RATE/CUM SCALE ON RIGHT SIDE)
TEMP GRAD:

496

1,117

PRESSURE

4000

3600

3200

2800

2400

2000

1600

1200

800

400

0

SCF-PRESSURE →
SCF-RATE →

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RESERVE ESTIMATE - GAS RESERVOIR

COMPANY: HANAGANI PETROLEUM CORP WELL & NO.: NAN-BET COM NO 1

LOCATION: E-19-21-26

FIELD CATCLAW DRAW MORROW RESERVOIR MORROW

RESERVOIR DATA

INITIAL BHP	<u>4582</u>	+14.65 =	<u>4597</u>	psig
ABANDONMENT BHP	<u>550</u>	+14.65 =	<u>565</u>	psig
BH TEMPERATURE	<u>160</u>	+ 460 =	<u>620</u>	^{OR}
GAS GRAVITY	<u>.6</u>	: _{P_c}	<u>671</u>	, T _c <u>358</u>
LOG - ϕ =	<u>.07</u>			
	F =			
LOG - R_T =				
@RW = .055 S_W =	<u>.21</u>			
THICKNESS				

ORIG z : $P_r = \frac{P}{P_c} = \frac{(4597)}{(671)} = 6.851$, $T_r = \frac{T}{T_c} = \frac{(620)}{(358)} = 1.732 \therefore z_o = 965$

ABAND z : $P_r = \frac{(565)}{(671)} = .842$, $T_r = \frac{(\quad)}{(\quad)} = 1.732 \therefore z_a = .954$

$B_{go} = \frac{35.35 P}{z_o T} = \frac{35.35 (4597)}{(965)(620)} = 271.61$ SCF/FT³

$B_{ga} = \frac{35.35 P}{z_a T} = \frac{35.35 (565)}{(.954)(620)} = 33.77$ SCF/FT³

$\Delta B_g = 237.84$ SCF/FT

ULTIMATE RECOVERY

= 43.560 x ϕ x (1-SW) x ΔB_g x Acres x Ft.

= 43.560 (.07) (1-.21) (237.84) (X) (14) = 6138,000 MCF X = 765 acres

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BEFORE EXAMINER STAMETS
OIL CONSERVATION DIVISION TOTAL RESERVES = MCF

EXHIBIT NO. 7

CASE NO. 6398

Submitted by TXO

Hearing Date 12-7-'78

Radial drainage radius for 765 acres = 3257'