OR = HNSON 2-1
✓ # 00377

MICH POTASH
permit apl
MI-133 / I-0004,5,6

Will in AOR
DIRECTIONALLY DRILLED
inactive
Dry Hole

SURFACE CASING $13\frac{3}{8}$, $17\frac{1}{2}$ → 1.4396 ft/ft³

$$(700\ sk)\left(\frac{1.18\ ft^3}{sk}\right)\left(\frac{1.4396\ ft}{ft^3}\right) = 1{,}189\ ft$$

INTERMEDIATE CASING $9\frac{5}{8}$, $12\frac{1}{4}$ → 3.1930 ft/ft³

$$(2{,}100\ sk)\left(\frac{1.18\ ft^3}{sk}\right)\left(\frac{3.1930\ ft}{ft^3}\right) = 7{,}912\ ft$$

PRODUCTION CASING 7, $8\frac{1}{2}$ → 7.8859 ft/ft³

$$(1{,}205\ sk)\left(\frac{1.18\ ft^3}{sk}\right)\left(\frac{7.8859\ ft}{ft^3}\right) = 11{,}212\ ft$$

PBTD $8\frac{1}{2}$ OPEN HOLE → 2.5377 ft/ft³

$$(50\ sk)\left(\frac{1.18\ ft^3}{sk}\right)\left(\frac{2.5377\ ft}{ft^3}\right) = 149\ ft$$

PBTD ≈ 7935 ft

plugging records identify PBTD = 7920 ft

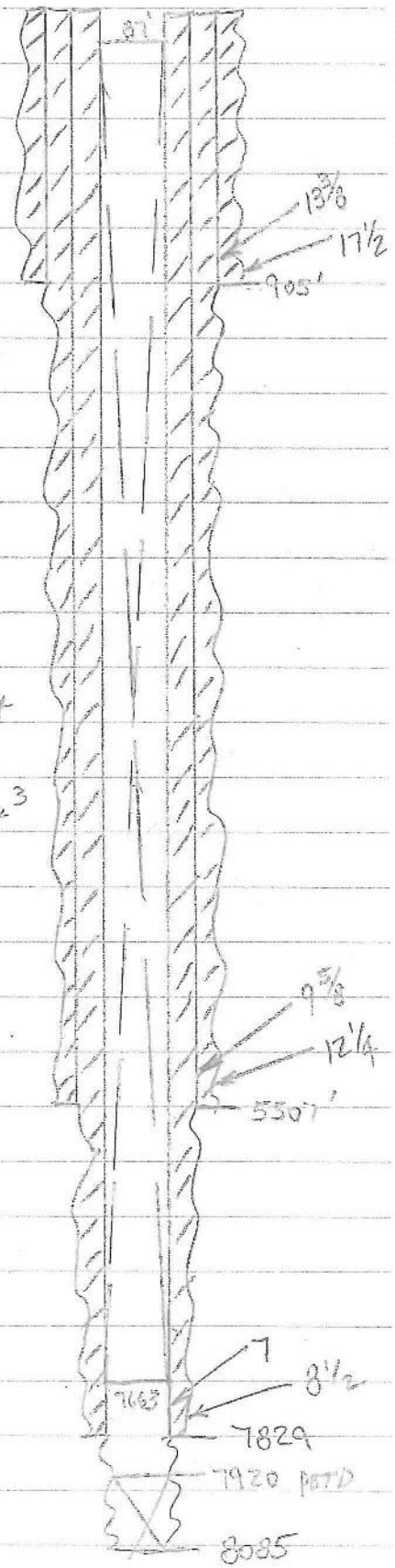
7" CASING PLUGS 7, #23 → 4.524 ft/ft³

PLUG ① $(88\ sk)\left(\frac{1.18\ ft^3}{sk}\right)\left(\frac{4.524\ ft}{ft^3}\right) = 469\ ft$

Plug ① from 7663' to 7194'

PLUG ② - ⑥ $(91\ sk)\left(\frac{1.18\ ft^3}{sk}\right)\left(\frac{4.524\ ft}{ft^3}\right) = 485\ ft$

Plug ②	6847' to 6362'
Plug ③	6036' to 5551'
Plug ④	5222' to 4737'
plug ⑤	4411' to 3926'
plug ⑥	3599' to 3114'



JOHNSON 2-1
#00377
WELL INFO

Plug 7 – 8 $(90\ sk)\left(\frac{1.18\ ft^3}{sk}\right)\left(\frac{4.524\ ft}{ft^3}\right) = 480\ ft$

plug 7 2789' to 2309'
plug 8 1981' to 1501'

Plug 9 $(62\ sk)\left(\frac{1.18\ ft^3}{sk}\right)\left(\frac{4.524\ ft}{ft^3}\right) = 330\ ft$

plug 9 1172' to 842'

Plug 10 $(58\ sk)\left(\frac{1.18\ ft^3}{sk}\right)\left(\frac{4.524\ ft}{ft^3}\right) = 309\ ft$

plug 10 622' to 313'

Plug 11 $(42\ sk)\left(\frac{1.18\ ft^3}{sk}\right)\left(\frac{4.524\ ft}{ft^3}\right) = 224\ ft$

plug 11 311' to 87'