

DRILL STEM TESTS

No.	Interval	IFP/Time	ISIP/Time	FFP/Time	FSIP/Time	IHH-FIN	RECOVERY

REMARKS AND RECOMMENDATIONS *THIS WELL HAD A VERY STRONG COND. SAND GAS TEST BUT A VERY LOW BTU - LOTS OF NITROGEN - BUT ALSO 2% HELIUM. PRODUCTION ATTEMPT IN THE AROUND INITIAL @ 3540' - 46'.*

For John

LEGEND

- Dolomite
- Chert
- Col. Lime
- Limestone
- Carb. sh
- Shale
- Sandstone
- Salt
- Anhydrite

REMARKS						
OIL SHOWS						
SAMPLE DESCRIPTIONS						
LITHOLOGY						
DEPTH						
DRILLING TIME IN MINUTES PER FOOT Rate of Penetration Decreases 	5"	10"	15"	20"	25"	

2850

2900

30

3050

Sh: gray

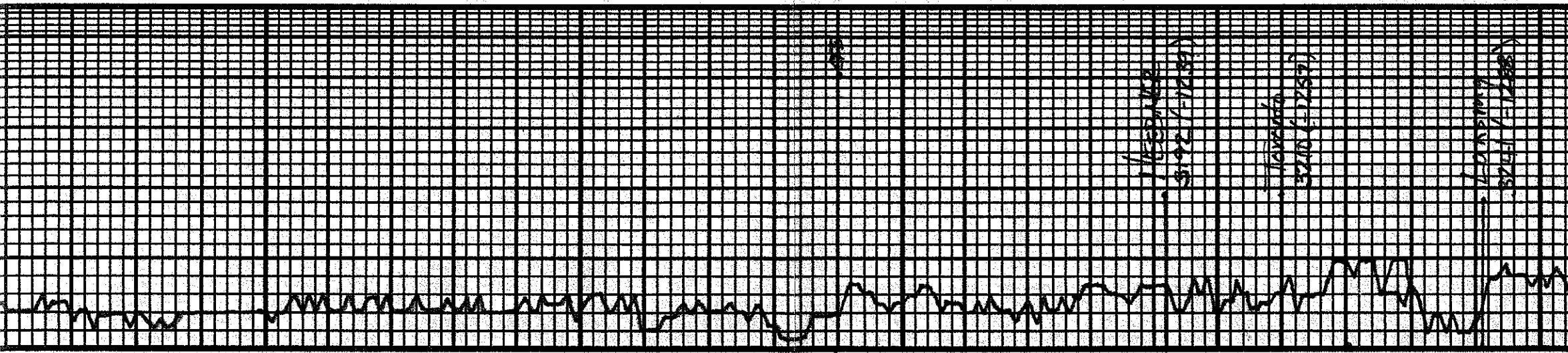
Ls: wht f-subxln ls.
w/ much gm shales
int bed.

Ls: gm - vfm, vDSE
Arthropods - gray - brown
Acht

Ls: gm - brown, w/ obs

2850
2900
3050





LS: Crm fm foss w small spst sta NsF No odor	LS: Tan-wht v. fm v. dse w fow pes wnt skent	LS: Tan-off wnt v. coal Fow d. Ns.	LS: Tan fm silt calcareate v. small v. dse Ns.	Sh: Black - carb	Sh: gm - Brown	LS: wnt fm, silt calcareate v. small v. dse Ns. No odor	LS: wnt - Tan fm foss dse	LS: Tan fm v. foss - odd w/ good d v. good v. strong odor grossly uneven texture	LS: wnt f. subrn - only w Au. Dicotyled fossil	LS: wnt - Ns	LS: wnt subrn - chalky foss w No show - some v. ch. k.	Sh: Black - carb	LS: wnt v. fm v. dse	Sh: gm - Brown	LS: wnt Bone wnt v. fm No appd - Ns all v. dse	Sh: Red - gm - w. sh Red - Brown	LS: wnt fm, all v. fm v. dse No Appd Ns No od.
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50

5100

50

3200

50

VIS 50
WT 9.0
WL 0.2
LUM 2#

DST # 1
15-30-60-60
Intral Flow
GTS - 12 min Tstn
Final:
10" - 30,776 CF9
20" - 27,603 "
30" - 24,431 "
→ stab till 60"
Zcc:
76' mag
IHP: 14.77 #
IIP: 32-36 #
FAP: 38-34 #
SIP: 871-865 #
Temp: 990F

DST # 1

163102
3192 (12.57)

163103
3210 (12.57)

163104
3241 (12.57)

Sh. Gray - Brown

LS: Whit Am. w. summer w. fair
Mtn. w. - No show No odor
all today barn - brown
dise

LS: Whit Am. w. stark v. light
occ. d. - No show - No odor
lots v. Am. v. dise N. d

LS: Tan Am. silty. w. board
MSF. w. spk. am. No od. mostly
all dise

LS: Tan. H. qm. fair. gd. v. up
w. H. v. fair. a. i. - No odor
v. strong

LS: Tan. cm. Am. d. SE. son
v. Am. L. H. S.

LS: Tan. cm. Am. v. large
spk. sm. N. S. No od.

LS: Tan. H. qm. v. Am. all v. SE
w. grey. d. ch. w.

sh. gm -

LS: Tan. Am. w. scab. h. interm.
at top. v. sp. sm. No od.
som. 1/4 sp. w. in. d. ch. 1-2
pc. mostly all dise

LS: Whit. fair. w. fair. v. up. d
w. H. v. show. all - strong
v. Am. odor - most dise

LS: Whit. Tan. Am. v. Abs. w. good
D. s. d. w. H. v. sp. fair. odor. som.
gassy. w. in. d. ch.

LS: Tan. fa. ryle. 1-2. scab. pp. d
the. top. v. Am. sp. sm. d. ch.

LS: Whit. m. sp. fa. v. Am. d. ch.
MSF. No. sm. p. s. d. ch. s. g.
in. mic. ryle. wh. LS. all. ch.

MSF. barn. LS. a. a. - top. p. s.
long. tan. H. Am. all. barn.
MSF.

sh. grey

MSF. w. Am. m. sp. d. ch. v. up.
MSF. No. m. sp. 1-2. p. s. d. ch. o.
MSF. sm. No. d. ch.

sh. grey

MSF. Am.
MSF. wh. s. 1-2. v. Am. sp. sm. p. s.
MSF. 1/2. sm. d. ch. MSF. 1/2.
MSF. No. d. ch.

3300

50

3400

50

3500

V. s. 52
wt 8.2
wt 8.9
com 1/2#

DST #2
3356-3430
30-30-30-30

Rec
110' gip

10' 50g/cm

IFP: 1600#
IFP: 18-87#
IFP: 17-24#
SIP: 87-72#
CFP: 1594#

DST #8
3401-3575
15' 60"-20'-120"
1st op 675 2"
3,973,000 1st op
4,598,000 2nd op
Rec 50' m
IFP 798-788
FFP 776-797
SIP 1122-1145
HP 1648-1632
DST 110°

D S T # 2

A S T # 3

MSF - 1507
MSF - 1510

MSF - 1507
MSF - 1510

fine ss plates, calc and siliceous sub
eng. in sand, sm. thin sh. w/ 5-10% S/
or

w/ 10-15% phosphate

sm. cr. sh. 2-3 grains, dr. n., no pr. m.

dec. calc. sh. - clay matrix, clean sh.
sm. fr. v. v. p. 95%, v. qd. sh. s. sh. t. c.

sm. sh. sh. - 8-10 m.

dec. calc. sh. - clay matrix, clean sh.
v. qd. sh. s. sh. t. c. 95%, v. v. p. 95%

sm. v. qd. sh. s. sh. t. c. 95%, v. v. p. 95%

sh. sh. sh. - 8-10 m.

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DST #4
3538-3544
45.2-45"-45"-45"
1" top 8" blow
(P. m. m.)
1st SI surf blow @ 20
2nd OP 808.10"
2nd SI surface blow
IFP 49-52
FFP 29-50
SIP 164-191
HP 1683-1674
Rec 650.945
70°C. lew. v. c.
20.6 MO
Gravity 25

51

50

3600

50

RTD 37487
LTD 4687

Dec aa

aa

Dec aa - 1/2" to 1/4" dia

K.S.

For Nelson

	DEPTH 5" 10" 15" 20" 25" DRILLING TIME Minutes/Foot Rate of Penetration Decreases	LITHOLOGY	SAMPLE DESCRIPTIONS	OIL SHOWS	REMARKS
CONTRACTOR <u>DISCOVERY DRILLING Co. #3</u> LOCATION <u>1203 FINE & 1501 FINE</u> LEASE <u>11/20/00-1-9</u> IP AREA _____ SEC <u>9</u> TWP <u>16 S</u> RNG <u>12 W</u> ELEVATION <u>1953' M.A.</u> RTD <u>3100'</u> COUNTY <u>Rock</u> STATE <u>Missouri</u>					