

ROBERT STOLZLE

CONSULTING PETROLEUM GEOLOGIST

AAPG Cert # 3244

6211 E. 201st St., W.

Georgetown, MO 67032 - 0240

(316) 704 - 2400

DRILLING TIME AND SAMPLE LOG

OPERATOR: Pickrell Drilling Co., Inc.

LEASE: Matson Estate WELL NO.: 3

FIELD: Spivey-Grabs-Bassi

LOCATION: SE 1/4 SW 1/4

SEC.: 31 TWP: 29S RANGE: 6W

COUNTY: Kingman STATE: KS

API NO.: 15-095-22269-00-00

CONTRACTOR: Pickrell Drilling Co., Reg #1

COMENCED: February 6, 2013 COMPLETED: 2/14/13

ROTARY TOTAL DEPTH: 4220' LOG TOTAL DEPTH: 4220'

GEOLOGICAL SUPERVISION FROM: 2900' to: T.D.

LOG-UP DEPTH: 2932' LOG TYPE: Chemical/Polymer

FORMATION

FORMATION	THICKNESS TOP GSSCA	LOG TOP GSSCA	STRUCTURAL CORRELATION
Haebner shale	3022(-1569)	3019(-1566)	44'
Douglas shale	3043(-1590)	3047(-1594)	46'
Lansing group	3248(-1795)	3248(-1795)	41'
KS City group	3544(-2091)	3536(-2083)	410'
Stark shale	3688(-2235)	3685(-2232)	47'
Base KS City gp.	3785(-2332)	3780(-2327)	46'
Altamont ls.	3836(-2383)	3830(-2377)	49'
Palmer ls.	3896(-2443)	3891(-2438)	411'
Miss. Osage fm.	4112(-2659)	4109(-2656)	-19'
Total Depth	4220	4220	

WIRELINE SERVICES
Tucker Energy
Services: Comp.
Nation P&L Density,
Phased Induction
and Micro logs
Ward run

ELEVATIONS

KB 1453'
GL 1443'

Measurements are all
from KB

CASING RECORD

SURFACE: NW 8 5/8"
23# @ 217' w/ 2255X

PRODUCTION:
None - P+H.

LOCATION MAP

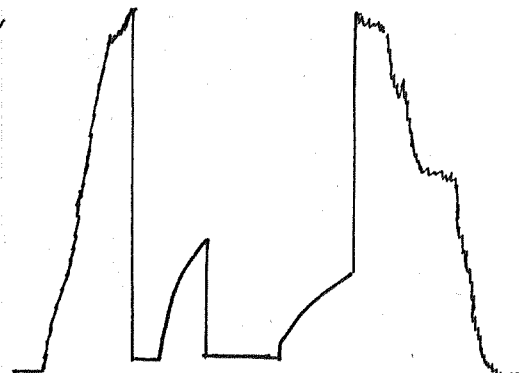
LOCATION MAP
#31
#31 Matson Est.

Reference Well for Structural Comparison: Wells #110537 SINKER 6305-6W
Comments and Recommendations: Geological malfunctioning repaired at T.D.
Sample at 50% shale cavings throughout.

DST # 1 ZONE: Mississippian Osage chert
INTERVAL: 4111'-4125'

DST # 1 8790 Chart
Interval: 4111'-25' Depth: 4112'

Pressures:	Time	Press.	RECOVERY
1. Initial Hydrostatic		2023 psi	840' Gas in Pipe
2. Initial Flow: Start	0	44 psi	20' Mud
3. Initial Flow: End	30	53 psi	60' V. Sli. Dil cut Mud
4. Initial Shut-in: End	60	734 psi	(1% O.I.)
5. Final Flow: Start	0	54 psi	Blow Desc.
6. Final Flow: End	90	69 psi	I.F. - BOB 10 Min.
7. Final Shut-in: End	90	559 psi	I.S.I. - WK. Surf. Blow
8. Final Hydrostatic		2034 psi	F.F. - BOB 8 Min.
BHT: <u>128°F</u>			F.S.I. - No Blow



ABBREVIATIONS USED

ROCK TYPES:

Lo - Limestone

FAERIC:

Fn. grn - Fine grained

MODIFIERS:

gd - Good

Snd - Sandstone
 Sil - Siltstone
 Cong - Conglomerate
 Chrt - Chert
 Qtz - Quartzite
 Gren - Granite
 Dol - Dolomite
 Chlk - Chalky

COLOR:

Wh - White
 Crm - Cream
 Clr - Clear
 Rd - Red
 Grn - Green
 Gry - Grey
 Blk - Black
 Mot - Mottled

HARDNESS:

Sft - Soft
 M.Sft - Moderately soft
 Hrd - Hard
 V.Hrd - Very hard

Vrb - Very fine grained
 Med - Medium
 Gro - Coarse
 Det - Detrital
 Foss - Fossiliferous
 Crn - Crystalline
 Mxln - Microcrystalline
 Ool - Oolitic
 Osm - Osmotic
 Mat - Matrix

OTHER TERMS:

Fl - Fluorescence (of oil)
 min Fl - mineral fluorescence
 pyr - pyritic
 glau - glauconitic
 carb - carbonaceous
 stn - stain (of oil)
 cut - oil cut
 AA - as above
 G - porosity
 NSFOC - no stain, fluorescence, odor, or cut (of oil)
 sepl - seepage
 perm - permeability
 F.O. - free oil
 vug - vugular
 tr - trace
 w - with

pr - poor
 ex - excellent
 v - very
 w - wall
 tr - trace
 occ - occasional
 vis - visible
 N - no
 gran - granular
 intergran - intergranular
 pp - pinpoint
 dd - dead
 gey - gassy

OIL SHOWS

- ☐ Weak Oil Show
☐ Fair Oil Show
☐ Good Oil Show
☐ Excellent Oil Show

TEXTURE:

Dns - Dense
 Cly - Clayey
 Fri - Friable
 Earth - Earthy
 Hack - Hackly
 Fiss - Fissile
 Vit - Vitreous
 Vug - Vugular
 Mic - Micritic

Rate of Penetration
 in minutes per foot

1/2 1 2 3 4 5 6 7 8 9 10

2800

2850

Start 1 foot drilling time
 at 2800'

Start 10' wet and dry

2900

2950

3000

3050

3100

Samples at 2900'

sh. lt. gry-gry, sft. earthy
 Ls. crm., hrd.-sft. cherty,
 occ. foss. NØ NSFOC
 V. fine grained samples
 Ls. A.A. NØ NSFOC
 sh. A.A., tr. sandy.-silty.

Start Displacing
 Native Mud System
 At 2908'

sh. lt. gry-gry, m. sft.-sft.,
 dns., tr. silty, earthy.
 Ls. wh.-crm., sft. cherty.-hrd.
 dns., occ. foss. NØ NSFOC

Finish Displacing
 at 2932'

Ls. crm.-tan, hrd., dns., vfg-
 mxln., tr. foss., tr. sandy.
 NØ NSFOC
 Ls. crm.-tan, hrd.-m. sft., dns.,
 vfg-mxln., tr. cherty, tr. sandy.
 occ. foss., w/pr.-tr. moldic
 NØ NSFOC
 Ls. crm.-tan, hrd., dns., fn. xln.
 -mxln., mic., tr. foss., tr. sandy.
 occ. sh. stnd. NØ NSFOC

Ls. A.A. sli. fn. grnd, mod.
 sh. stnd. NØ NSFOC

Ls. crm.-tan, tr. gry, hrd., dns.-
 sft. cherty, fn. xln.-mxln.,
 foss., tr. sh. stnd. NØ NSFOC

Ls. A.A., tr. chrt. tr. pr. vug. φ.
 NØ NSFOC
 sh. dk. gry, m. sft.-m. hrd., dns.,
 earthy
 sh. A.A., tr. carb.
 Ls. crm.-tan, hrd., dns., fn. xln.
 foss.-v. foss. NØ NSFOC

Ls. A.A. NØ NSFOC

sh. dk. gry, blk., m. hrd., dns.,
 earthy, carb.

sh. A.A.
 Ls. crm.-blk., hrd., dns., fn. xln.
 -mxln., foss., tr. sh. stnd.
 NØ NSFOC

Ls. A.A. fn. xln., tr. v. xln.
 NØ NSFOC

Hechmer Shale
 (-1569')

sh. blk., m. hrd., dns., carb.,
 earthy
 sh. A.A. occ. lt. gry
 Ls. crm.-tan-gry, fn. vfg xln.,
 foss.-v. foss. NØ NSFOC

Ls. A.A., tr. v. pr. pr. vug. moldic φ.
 NØ NSFOC

Douglas Shale
 (-1590')

sh. dk. gry-gry, m. hrd.-m. sft.,
 earthy
 sh. dk. gry, m. hrd., dns., earthy
 occ. carb.

Ls. tan-bkn., hrd., dns., foss.-
 v. foss., fn. vfg xln. NØ NSFOC

Ls. A.A., tr. pr. moldic vug. φ NSFOC

sh. gry-gry, m. hrd., dns.,
 earthy.-hackly

sh. dk. gry, m. hrd.-sft., dns.,
 earthy.-hackly
 tr. Ls. w/pr. vug. φ A.A. NSFOC

sh. A.A.

ss. wh., hrd., dns., fn. grnd, mod.-
 w. sft., sub ang. sub rdn., w. omd.
 No vis. φ. sh. pellets NSFOC

sh. gry, m. sft., dns., earthy
 ss. A.A., tr. sft. tr. pr. vis. φ
 NSFOC

ss. A.A., occ. calc.-v. sandy. Ls.
 NØ NSFOC

sh. lt. gry-gry, m. sft., dns., occ.
 silty, mica, earthy
 sh. A.A., occ. sandy.-silty

3150

3200

3250

3300

Sh. wh. sft. sft. A. - m. hrd. dns.
 TN. gnd. mod. w. sft. sft. ang.
 W. cm. d. pr. No Vis. ϕ NSF OC
 Ss. A. A. occ. VFG. occ. sft. part.
 tr. mica. 1 pr. Vis. ϕ NSF OC
 Sh. gry. - lt. gry. m. sft. sft.
 earthy
 tr. Ss. A. A. ϕ NSF OC

Sh. gry. m. sft. occ. sft. - sndy,
 mica, earthy - hackly

Sh. gry. - lt. gry. m. sft. dns, occ.
 sft. mica, earthy

Sh. lt. dk. gry. m. sft. dns, occ.
 sft. mica, earthy

Sh. gry. m. hrd. - m. sft. dns,
 tr. sft. mica, earthy -
 hackly

Sh. lt. dk. gry. m. hrd. - m. sft. dns,
 occ. sndy - sft. mica,
 earthy

Sh. gry. - dk. gry. m. hrd. - m. sft.,
 dns, sli. mod. sft. mica,
 earthy

Sh. dk. gry. - gry. m. hrd. dns,
 occ. sft. mica, earthy

Sh. lt. dk. gry. m. hrd. dns,
 sft. mica, earthy -
 hackly

Sh. lt. dk. gry. m. hrd. dns,
 sft. - sndy, mica, earthy -
 hackly

Sh. gry. m. hrd. - m. sft. dns,
 sft. - sndy. tr. ls. frags. itr.
 Ss. stringers - VFG. mica.
 ϕ NSF OC

Sh. gry. - dk. gry. m. hrd. - m. sft.
 dns, sft. mica, earthy

Sh. gry. - dk. gry. sft. clayey -
 m. hrd. dns, sft. earthy.
 sndy, mica.

LS. tan. - crm. hrd. dns, VFG - mxln.
 mic. tr. foss. itr. sndy.
 ϕ NSF OC

LS. crm. - wh. hrd. - m. sft. dns,
 occ. foss. &ool. w/ tr. oom.
 ϕ VFG - mxln. ϕ NSF OC

LS. crm. - wh. hrd. sft. chik, VFG
 - mxln. tr. foss. &ool. w/ occ.
 tr. - pr. oom. NSF OC

LS. crm. - tan. hrd. dns, VFG - mxln.
 mic. foss. tr. chik.
 ϕ NSF OC

LS. crm. - tan. hrd. dns, VFG - mxln.
 mic. occ. foss. &ool.
 ϕ NSF OC

LS. crm. hrd. - m. sft. VFG mxln,
 foss. &ool. w/ 90.00 m. ϕ
 tr. int. pr. ϕ NSF OC

LS. wh. crm. - gry. hrd. sft. &
 chik. tr. foss. &ool. w/ pr.
 moldic. ϕ NSF OC

LS. crm. - lt. gry. hrd. dns, VFG -
 mxln. mic. occ. foss. &ool.
 tr. chik. ϕ NSF OC

Mud Check @
 3242'

M.W. 8.8 lb./gal.

Vis. 46 sec./qt.

W.L. 8.8 ml./30 min.

chl. 6,000 p.p.m.

Solids 3.2%

L.C.M. 0 lbs./bb1.

Lansing
 Group (-1795')

3350

Ls. crm.-tan-lt. gry., hrd., dns.,
VFG-mxln., tr. mic., foss.
V. foss. NØ NSFOC

Ls. crm.-wh., hrd., dns., VFG-mxln.
mic., occ. foss. +ool. w/ tr. fr.
int. part. +VUG. Ø NSFOC

Ls. A.A. tr. pr. int. part. Ø NSFOC

Sh. gry. gry., m. hrd.-m. sft., dns.,
hackly

Sh. A.A.

Ls. crm.-lt. gry., hrd., dns., VFG-
mxln., mic., occ. foss.
NØ NSFOC

Ls. crm., hrd., dns., VFG-mxln., tr.
textd., occ. foss., tr. sh. std. NØ NSFOC

Ls. crm.-gry., hrd., dns., VFG-
mxln., mic., tr. chiky., occ.
foss., tr. sh. std., tr. textd.
NØ NSFOC

Ls. crm.-tan-gry., hrd., dns.,
VFG-mxln., mic., tr. chik.,
foss. NØ NSFOC

Ls. crm.-tan-gry., hrd., dns., VFG-
mxln., mic., tr. foss. +ool., tr.
pr. oom. Ø NSFOC

Ls. crm.-brn.-gry., hrd., dns., VFG-
mxln., tr. mic., tr. chiky., occ.
foss. +ool., tr. sh. std. NØ NSFOC

Ls. crm.-tan-gry., hrd., dns.,
VFG-mxln., mic., occ. foss.
NØ NSFOC

Ls. crm.-tan-dk. gry., hrd., dns.,
VFG-mxln., mic., tr. chiky.,
foss. +ool. -det., tr. pr.
int. part. Ø, sh. std. NSFOC
Ls. A.A., more gry. NØ NSFOC

Sh. gry., m. sft.-m. hrd., dns.,
partly-hackly

Ls. crm.-tan-gry., hrd.-m. sft.,
VFG-mxln., tr. mic., tr. chik.,
occ. foss. +sh. std. NØ NSFOC
occ. sh. A.A.

Ls. A.A. NØ NSFOC

Sh. gry. +gry. gry., m. sft., dns.,
partly-hackly

Sh. A.A., occ. dk. gry.
Ls. crm., hrd.-m. sft., dns., VFG-
mxln., occ. foss., tr. pr. moldic
Ø, sh. std. NSFOC

Sh. gry. +dk. gry., m. hrd.-sft.,
partly-hackly, tr. clayey

Ls. crm., hrd.-m. sft., VFG-mxln.,
occ. foss. +sh. std. NØ NSFOC

Sh. gry.-dk. gry., m. hrd., dns.,
hackly

Ls. A.A., occ. gry. NØ NSFOC

Sh. gry.-dk. gry., m. hrd.-m. sft., dns.,
occ. ls. foss. frags., hackly

Sh. A.A.

Ls. crm.-brn., hrd., dns., VFG-
mxln., mic., occ. foss., sh.
std. NØ NSFOC

Sh. gry.-dk. gry., m. hrd., dns.,
hack., occ. foss. frags.
occ. Ls. A.A., tr. chik. NØ NSFOC

Sh. gry.-dk. gry., sft.-m. hrd.,
partly-hackly
tr. Ls. A.A. NØ NSFOC

Sh. A.A.

Ls. crm.-gry., hrd., dns.-sft. +chik.

3400

3450

3500

W. Stark Shale
(-2235')

Mudcheck@3756
M.W. 9.3 lb./gal.
Vis. 51 sec./qt.
W.L. 9.0 ml./30Min.
Chl. 6.000 P.P.M

1001. W/ 9d. + N. 9rd. 00m. ϕ
NSFOC
LS: A. A. 1, 0cc. 00m. ϕ A. A. NSFOC

CFS

CFS

Solids 6.8%
L.E.M.-0 16.19al.

**Base of
Kansas City
Group (-2332')**

**Altamonte Ls.
(-2383')**

**Pawnee Ls.
(-2443')**

Sh. gry. - dk. gry. m. hrd. - m. sft.,
dns., hackly
Ls. crm. - tan, hrd. dns., VEG -
mxln., mic., tr. foss.
NPN SFOC
Sh. dk. gry. m. hrd. dns., hack.
Ls. crm. - tan, hrd. - m. sft. dns.,
tr. foss., VEG mxln. NPN SFOC
Sh. dk. gry. - gry. m. hrd. dns.,
earthy - hackly
tr. Ls. A.A. NPN SFOC
Sh. dk. gry. - blk., m. sft. - m. hrd. dns.,
tr. carb., earthy - hackly
Sh. gry. - blk. - blk. m. sft. - m. hrd.,
dns., earthy - hackly, tr. carb.
Sh. A.A. - ls. frag.
Ls. tan - blk., hrd. dns., VEG mxln.
mic., abun. sh. std. tr. foss.
NPN SFOC
Ls. A.A. frags in sh. ? NPN SFOC
Sh. gry. - blk. - dk. gry. m. sft. - m. hrd.
dns. earthy - hackly
Sh. A.A.
Ls. crm. - blk., hrd. dns., VEG mxln.
mic., occ. pebb. surf.
sh. std. NPN SFOC
Ls. A.A. NPN SFOC
Sh. gry. - blk. m. hrd. dns., occ.
carb., earthy - hackly
Sh. A.A. occ. sandy.
tr. ss. gry. m. sft. frag. fr. VEG,
mod. pr. std., w. cm. No vis.
NPN SFOC Ls. A.A. NPN SFOC
Ls. crm. - blk., hrd. dns., VEG mxln.
mic., occ. pebb. surf. NPN SFOC
Sh. gry. - dk. gry. m. sft. dns.,
earthy - hackly
Sh. gry. - dk. gry. m. hrd. dns., hack.
Ls. crm. - tan, hrd. dns., VEG mxln.
mic., tr. foss. NPN SFOC
Sh. A.A.
Ls. crm. - tan, mod. hrd. dns.,
rare foss., VEG mxln., mic.
NPN SFOC
Sh. dk. gry. - blk. m. sft. dns., carb.
earthy
Ls. crm. - tan, hrd. dns., VEG mxln.
mic., tr. foss., pebb. surf. NPN SFOC
Ls. crm. - blk. dns., VEG mxln.,
mic., rare foss. NPN SFOC
Sh. gry. - dk. gry. m. sft. - m. hrd.,
dns., hack.
Ls. crm. - tan - gry. hrd. dns., VEG
mxln., mic., tr. foss. NPN SFOC
Sh. gry. - blk. hrd. - m. sft. dns.,
earthy - hackly, tr. carb.
Sh. A.A. tr. rd. blk. earthy.
Ls. crm. - gry. sft. chik. - hrd.,
dns., VEG mxln., mic., rare
foss., tr. sh. std. NPN SFOC
tr. Ls. A.A. NPN SFOC
Sh. gry. - blk. m. sft. - m. hrd. dns.,
tr. sily., tr. carb., earthy - hack.
Sh. A.A. carb.
Ls. crm. - blk. dns., VEG mxln.,
mic., tr. foss. + sh. std.
NPN SFOC
Sh. dk. gry. - blk. m. hrd. dns.,
earthy - hackly
Ls. crm. - blk. sft. chik. VEG mxln.
mic., tr. foss. NPN SFOC
Ls. crm. - tan, hrd. - m. sft. dns.,
VEG mxln., mic. + chik., tr.
foss., occ. sh. std. NPN SFOC
Ls. A.A. tr. sandy. NPN SFOC
Sh. gry. - blk. m. sft. occ. sandy, earthy
tr. ss. / sily. gry. sft. VEG, pr. std.
mod. - w. cm. No vis. NPN SFOC
Ls. crm. - dk. gry. hrd. dns., VEG

3800

3850

3900

3950

4000

4050

4100

4150

4200

Driller Added 3' to
Match BoardMississippi an
Osage Fm.
chert (-2659')Ls. crm. tan-gr. hrd. dns. vfg-
mxln. mic. tr. foss. sh. std. NQ NSFOC

Sh. A.A. occ. slty.

Sh. gry. - blk. m. hrd. dns. hack-
earthy.Ls. crm. tan-gr. hrd. dns. vfg-
mxln. mic. tr. foss. sh. std. NQ NSFOC

Ls. A.A. occ. sndy NQ NSFOC

Sh. gry. - blk. m. slt. m. hrd. dns.,
tr. slty. earthy-hacklySh. A.A. slty. - sndy. hack
Ls. crm. tan-gr. hrd. dns. vfg-
mxln. mic. occ. sndy. v. sndy
rare foss. NQ NSFOCSh. A. occ. pebb. hack. occ.
slty. - sndy.Ls. crm. tan. hrd. dns. vfg-
mic. sh. std. tr. foss. NQ NSFOCSh. lt. dk. gry. - rd. brn. m. hrd. 1
occ. slty. - sndy. earthy-hacktr. ss. gry. hrd. dns. vfg. sh. NQ
NSFOC. 1 Ls. A.A. NQ NSFOC

Sh. A.A.

Ls. crm. dk. gry. hrd. dns. vfg-
mxln. mlf. tr. pebb. surr.

sh. std. NQ NSFOC

Sh. gry. - blk. mar. rd. brn. m. hrd.
dns. hacklyLs. crm. tan-gr. hrd. dns. occ.
sh. std. tr. pebb. NQ NSFOCCg. / sh. gry. gr. - rd. brn. - dk. gry.
tr. ss. rd. tr. Ls. pebb. m. slt.

m. hrd. dns. earthy

Cg. / sh. dk. gry. - gry. gr. - rd. brn. 1
m. slt. dns. 1 sndy. tr. Ls. foss.

+ pebb. earthy-hackly

Cg. / sh. dk. gry. - pass. cavings.
wt. gry. gr. - rd. brn. mott.

m. slt. dns. occ. sndy. earthy

tr. Ls. brn. hrd. dns. mic. NQ NSFOC

Sh. A.A. abun. splinter. sh.
occ. mar. earthy.tr. Ls. wh. - crm. slt. ch. hrd.
dns. mic. vfg-mxln. NQ NSFOCSh. / Cg. A.A. cavings
tr. Ls. A.A. NQ NSFOC

Sh. / Cg. A.A. tr. Ls. A.A. NQ NSFOC

Ch. wh. m. hrd. slt. tr. p. brn. blk.
stn. w. dol. tan. hrd. vfg. mxln.

tr. vfg. p. tr. int. xln. p. 1-2 pc.

blg. oil. qd. odor. qd. cut. fl.

Cht. + Dol. A.A. occ. tr. qd. tr. vfg.
p. tr. blg. oil. qd. odor. tr. cut. fl.

Ls. wh. - crm. hrd. vfg. mxln. tr. p. tr.

tr. vfg. p. ? int. xln. p. tr. dev. ch. NQ

Ls. A.A. tr. rd. vfg. p. h. brn. stn.

tr. - qd. cut. fl. ? int. xln. p. 1 perm.

occ. Cht. wh. hrd. dns. dev. 1
p. tr. lt. brn. stn. wk. sh.

Ls. wh. - crm. hrd. dns. vfg. mxln. 1

tr. p. vfg. p. tr. brn. stn. wk.

odor. tr. wk. cut. fl. v. perm.

tr. Ch. wh. hrd. dns. dev. NQ

tr. Ch. A.A. 1-2 pc. mott. brn. stn. 1

wk. cut. fl. 1 perm. v. wk. show

Ls. crm. hrd. - m. slt. dns. vfg. mxln. 1

tr. vfg. p. p. dolomite NSFOC

occ. Ls. A.A. w. wk. sh. p. A.A.

Cht. wh. hrd. dns. v. dev. tr. p.

tr. mott. brn. stn. wk. odor. 1

tr. - wk. cut. fl.

Cht. wh. hrd. dns. occ. dev. 1

NSFOC

Ls. crm. tan. hrd. - m. slt. vfg. mxln.

occ. fr. A. tr. p. vfg. p. NSFOC

Ls. crm. - tan. slt. + fr. A. - hrd. 1

dns. vfg. mxln. dol. NQ NSFOC

Cht. wh. hrd. dns. v. dev. tr. p.

NSFOC

Cht. wh. hrd. dns. v. dev. tr. p.

NSFOC

Ls. tan. m. slt. hrd. dns. vfg. mxln. 1

dolomite. 1 no vfg. p. int. xln. NSFOC

2

Mudcheck @ 4114'

M.W. 9.3+

Vis. 54

W.L. 8.8

Chl. 6,000

Solids 6.7%

LCM. 2#

Short Trip

15 stands

at 4060'

Geolograph Malfunction

lost 3, Drig. Time OK?

DST #1

4111-4125'

30-60-90-90

Rec. 840' GIP

20' DM.

60' V50CM

Strap 4, 12' long

Deviation 34°

Good Show

Good Show

Weak Show

Fair-Weak Show

Very Weak Show

Weak Show

Mudcheck @ 4125'

M.W. 9.3+

Vis. 46

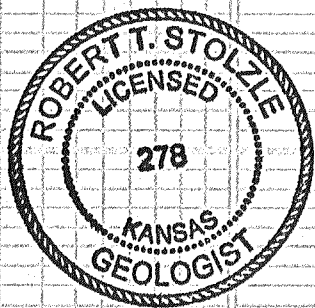
W.L. 8.8

Chl. 5,000

Solids 6.8%

LCM. 2#

1111



Chl. wh. 1 hrd. 1 dms. 1 vit. dev. t. n.p.
NSFOC
Ls. tan, m. sft. - m hrd. dolo, veg.
x 14. No v.s. inty n.p. NSFOC
Ls. crm. sft. - hrd. id ns, veg x n.
No v.s. p, occ. tri A, dolo, NSFOC
Chl. wh. 1, hrd. 1, dms. 1, vit. t. dev. t.
n.p. NSFOC

D.T.D. 4220'

L.T.D 4220'

Robert Stoffle
2/14/13