ROGER L. MARTIN

INDEPENDENT PETROLEUM GEOLOGIST 316-250-6970

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY VESS OIL CORPORATION

LEASE MOTHES #6

FIELD BINDLEY

LOCATION 840' FNL & 2260' FWL

SECTION 2 TOWNSHIP 22S RANGE 24W

COUNTY HODGEMAN STATE KANSAS

ELEVATIONS

KB 2439' GL 2434'

Measurements Are All From KB

API 15-083-21711

CONTRACTOR L.D. DRLG, RIG #1

SPUD 07/14/2011 COMP 07/24/2011

RTD 4694' (-2255) LTD n/a

ELECTRICAL SURVEYS

NO ELOGS RUN

CASING

SURFACE 8-5/8" csg set @ 418' w/300 sx

PRODUCTION n/a

FORMATION TOPS	LOG	SAMPLES
ANHYDRITE		1710' (+729)
BASE ANHYDRITE		1743' (+696)
TOPEKA		3598' (-1159)
HEEBNER		3960' (-1521)
LANSING		4011' (-1572)
STARK		4285' (-1846)
FORT SCOTT		4547' (-2108)
CHEROKEE SH		4571' (-2132)
MISSISSIPPIAN LS		4642' (-2203)
MISSISSIPPIAN DOLOMITE		4667' (-2228)
RTD		4694' (-2255)

CHRONOLOGY

06/28/11- MIRU LD Drlg, Rig #1.

07/14/11- Put rig back together. Spud rathole @ 4:30 PM. Spud 12-1/4" hole @ 5:30 PM. TD @ 420' @ 1:00 AM 07/15. Run 10 jts 8-5/8" 24#/FT LS casing, tally = 410', set @ 418' KB. Strap weld btm 3 jts, tack the rest. CONSOLIDATED: 300 sx Class A, 2% Gel, 3% CC, circ cement, plug down @ 2:30 AM.

07/15/11- 420' WOC, drill out @ 12 PM.

07/16/11- Drlg @ 1694. Drillers picked top and base of Anhydrite, but picks were too high.

07/17/11- Drlg @ 2690'. SHS @ 2421'= 1/2 deg.

07/18/11- Drlg @ 3268', Mud up at 3514'.

07/19/11- Drlg @ 3795', MW 9.0.

07/20/11- Drlg @ 4300', MW 8.9m VUS 47 WK 9.6, LCM 1#, Cl 5100, Geol corrected Anhy picks.

07/21/11- Circ @ 4650'.

07/22/11- 4684' Running DST #1, MW 9.3, VIS 50, WL 10.4, 10 hr short trip due to sticking and fill, Only slid 1' to btm w/DST tool.

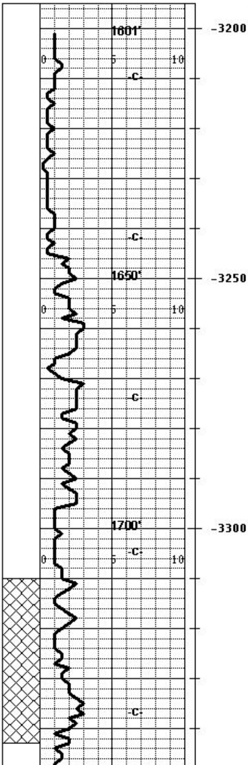
07/23/11- 4694' Pulling DST #2.

07/24/11- 4694' Well plugged by 6 PM. CONSOLIDATED: 230 sx 60/40 Pozmix, 4% Gel, 100# FloCele, 1743': 50 sx, 850': 80 sx, 440': 50 sx, 60': 20 sx, Rathole: 35 sx.

07/27/11- 60 bbl hauled from reserve pit.

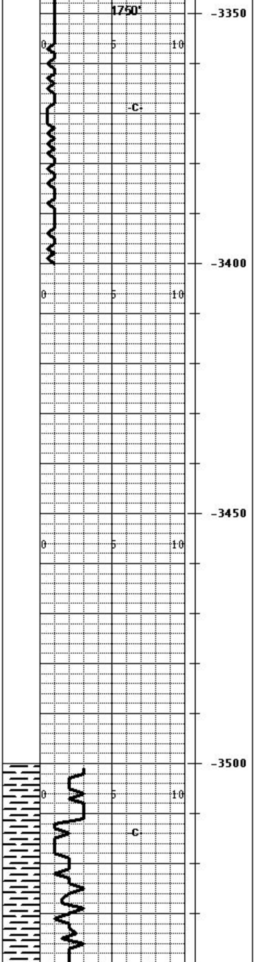
REMARKS:

LITH	DRILLING TIME MIN/FT	DST	SAMPLE DESCRIPTION	REMARKS

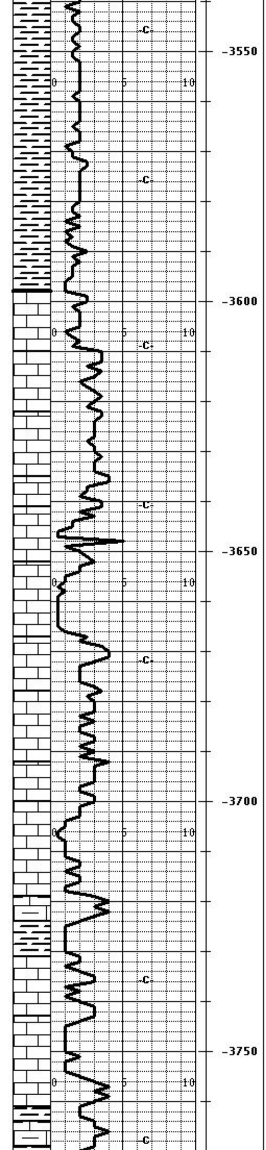


1710' (+729)
ANHYDRITE

1743' (+729)
ANHYDRITE BASE



Samples from 3500' to ~3600' pred red beds- SH w/NS.



{TOPEKA} LS: gy-tn, dn-mx & argil (abndt SH & rd bds AA).

LS: (Abndt) cm-tn-gy, mx-fn vPr- mIX Por, sm wh-chky & gy-bn dn Mdst.

LS: tn-gy-bn, nd-mx, sm argil, VPr- NVP.

LS: AA & cm-tn-gy, mx w/Pr pp- vug Por, NS.

LS: cm-tn, mx-fnxln, sm fos, prt mldc, sm Fr- Gd Por: pp-vug Por, mldc Por. NS.

LS: tn-gy, mx-fnxln, profusely oomldc w/Gd- V.Gd Por w/NS.

LS: tn-gy, dn mx- fnx, sm argil, VPr- NVP.

LS: cm-tn-gy, mx- fnxln, VPr- Pr IX Por, NS. sm grnlr Por, I.Gr Por. NS.

LS: gy-tn, dn & argil Mdst.

LS: cm-tn, mx- vfnx, sm v.oomldc & fn oomldc & prt fn ool w/Fr- V.Gd Por: oomldc Por & I.ool Por & mIX Por & ml.Gr Por. NS.

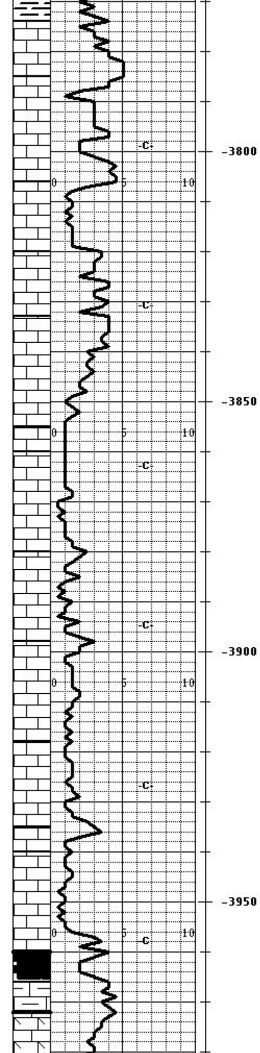
LS: gy argil- dn Mdst & SH: gy- blk.

LS: cm-tn-gy, mx- fnxln, sm fos, sm Pr- Fr Por, trc Gd vug Por & IX Por. NS. sm wh-chky.

LS: tn-gy-cm, sm mot, mx- fnx, frag Pkst- fos w/Pr- Fr Por: I.Gr Por, I.fos Por, IX Por, NS. sm wh-chky.

SH: gn-gy.

3598' (-1159)
TOPEKA



LS: cm-tn-gy, dn mx Mdst.

LS: cm-gy-tn, sm mot, mx- fnxln, sm fos w/Pr- Fr Por: IX Por, I.fos Por, VRr Gd Por. NS. sm dn Mdst & sm wh-chlky.

LS: cm-tn-gy, mx- fnxln, sm fos, Fr- Gd Por: pp- vug Por, I.Gr Por, IX Por. NS. sm wh-chlky.

LS: cm-tn-gy, sm mot, mx- fnx, pred Pr visbl Por, NS. sm wh-chlky.

LS: AA, sm dn Mdst.

LS: cm-tn-gy, mot, mx- fnx, sm fos Pkst, Pr- Fr Por, NS. sm wh-chlky.

LS: tn-gy-wh, mx- fnxln, sm ool & fos Pkst, sm Fr- Gd vug Por & I.Gr Por & IX Por, NS.

LS: cm-tn-gy, sm mot, mx- fnxln, VRr prt mdxln- crsX w/Fr- Gd Por, NS. sm sl cherty fos Pkst, sm chky, NS.

LS: cm-tn-gy, mot, mxln- fnx, Pr pr mdxln, sm fn ool & fos Pkst, Pred Pr- Fr Por: I.Gr Por, pp Por, IX Por, VRr Gd Por, NS. sm wh- chky.

LS: cm-tn, mx- fnxln, sm fnly granlr w/Fr I.Gr Por & IX Por, sm Fr- Gd Por, sm prt oomldc. NS. sm wh- chky.

LS: tn-cm dn- mx & Pr pp Por. NS.

LS: tn-gy-wh, dn-mx- fnx, sm chky, Rr ool & fos, prt oomldc w/Fr- Gd Por. NS. Sl cherty.

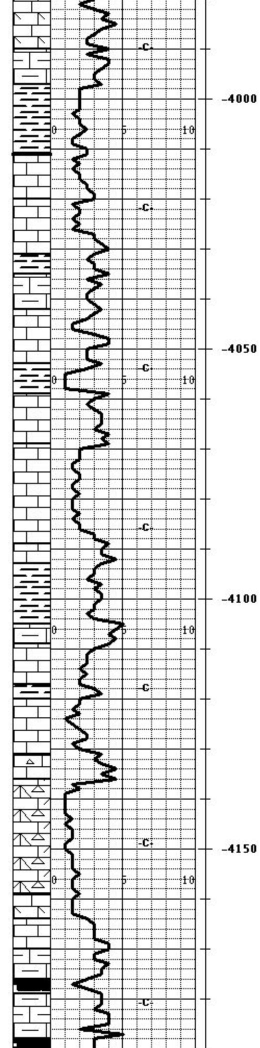
3960' (-1521)
HEEBNER

{HEEBNER} SH: blk carb- v.carb.

LS: dk- lt gy, cm, mot, dn- mx & argil SH: gn-gy & blk.

MW 8.9, VIS 47,
PV 11, YP 12,
WL 9.6, pH 11.0,
LCM 1#, Cl 5100

{TORONTO} DLS- DOLO: cm- bf, mx- fnxln, VRr prt mdxln, trc crs- v.crs X's Pr- Fr pp- vug Por & IX Por, NS.



4011' (-1572)
LANSING

LS: tn-gy, crn dn Mdst, sm argil.

SH: gn-gy.

{LANSING} LS: crn-bf-tn, mx- fnx, sm dolo, sm grnlr Pkst, Pr- Fr IX Por & I.Gr Por, NS. Sl Cherty.

LS: crn-gy-tn, mot Pkst w/Pr- Fr pp- vug Por. NS. sm wh-chlky, sm fn- crs 2RX.

SH: gn-gy-blk.

LS: dk gy & gn-gy, dn mx- fnx, prt argil.

LS: crn-tn, mx- vfnxln, sm fos, sl cherty, pred Pr- NVP. NS.

SH: (Incrs) gn-gy & blk SH.

LS: wh-tn-gy, mx- fnxln, sm prt md-crs X's- 2RX, Pr- Fr Por: pp Por, IX Por, NS. Abndt dn to chlky, sl Cherty.

LS: crn-bf-tn, mxln- fnxln, Rr dolomc, sm fos Pkst, sm wh-chlky, pred Pr- Fr Por: pp Por, I.Gr Por, IX Por, VRr vug Por, Sl Cherty. Rr Gd vug Por & prt oomldc, VRr md-crsX's- 2RX.

LS: gy-tn-wh, pred dn to chlky, VPr- NVP.

SH: gn-gy & blk & mrn-rd.

LS: tn-gy-crn, dn- fnx, sl Cherty. & SH: gn-gy.

LS: crn-tn, dn- mx- vfnxln, Pr- NVP. NS. Sl Cherty.

SH: Incrs gn-gy & blk.

LS: crn-bf-tn, mx- vfnxln, sm dolomc, pred Por IX Por, pp Por, VRr Fr Por. NS. Sl Cherty, sm wh-chlky, sm dn Mdst. CHERT: wh-crn-gy, opq, shrp.

DLS- DOLO: bf-tn, mx- vfnxln, sm msucro, Pr- Fr IX Por. NS. Rr Prt fnxln- sucro w/Fr- Gd Por. NS. Sl CHERTY: wh-gy, shrp opq.

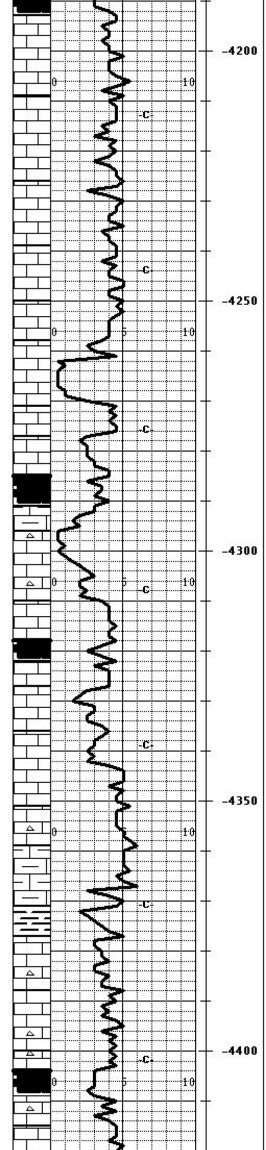
DLS- DOLO & LS: AA, sm wh-chlky LS.

LS: crn-gy-tn, dn-chlky.

LS: tn-gy-wh, dn mx- fnx, VPr- NVP, sm argil- shly.

SH: blk carb- v.carb.

LS: dk gy, gy-bn-tn-wh, dn- mx- vfnx, dn & argil w/VPr-NVP.



SH: gn-gy & blk carb.

LS: gy-tn-wh, mx- fnx, pred dn, sm Pkst, VPr- Pr Por, Sl Cherty.

LS: cm-tn, mx- fnxln, Rr fos Pkst w/Pr- Fr pp- vug Por & sm Pr IX Por, NS. trc Gd Por, sm wh-chlky.

LS: tn-cm, pred dn, mx- fnx, trc md- vcrsX's- 2RX, Pred Pr- NVP. Sl Cherty.

LS: dk gy-bn-tn-cm, sm mot ool & fos Pkst, sm argil, VPr- NVP.

LS: cm-tn, mx- vfnxln & dn, sm wh-chlky, sm dn & argil, VPr- NVP.

LS: cm-tn & gy, sm mot, mx- fnxln, sm ool & fos & prt mldc. Abndt v.oomldc w/Gd- V.Gd oomldc Por. NS. sm Fr mldc & l.ool & IX Por. NS.

LS: gy-tn, mx- fnx, pred dn Mdst- Pkst w/Pr- NVP.

LS: wh-tn-gy, sm mot ool & fos, prt mldc, sm chlky, Pr- Fr Por. NS.

4285' (-1846)
STARK

{STARK} SH: blk carb.

LS: gy-tn-bn, dn mx- fnx, sm argil.

trc SFO

LS: cm-tn-gy, mx- fnxln, VRr md- crsxln w/Fr- Gd IX Por, trc FLR- trc SFO, sm sl dolomc, mx- fnxln, sm fol & ool Pkst w/Pr- Fr Por. Sl CHERTY: cm, blu-gy, tn, shrp, sm wh-chlky & subchky. >99% barren.

LS: wh-tn-gy, dn-chlky w/ pred Pr- NVP.

{HUSHPUCKNEY} SH: blk carb- v.carb.

LS: tn-gy-bn, dn hd Mdst, sm argil, VPr- NVP.

trc SFO

LS: cm-tn, mx- vfnxln, sm fnly grnlr Pkst, Fr Por: pp- vug Por, l.Gr Por, IX Por, trc Gd Por. trc SFO- FLR- STN. >99% barren. sm wh-chky.

trc SFO

LS: cm-tn, sm mot, mx- fnxln, Rr v.ool w/Fr- Gd l.ool Por w/ trc SFO- FLR- STN- Cut, pred barren. Abndt dn to chlky w/Pr- NVP.

LS: tn-gy-wh, dn- mx- fnx & chlky, Pr- NVP. Sl CHERTY: gy, opq, shrp.

LS: gy-tn-wh, pred dn- mx- vfnx, sm sl fos Wkst- Mdst, sm argil & shly.

SH: gy-blk.

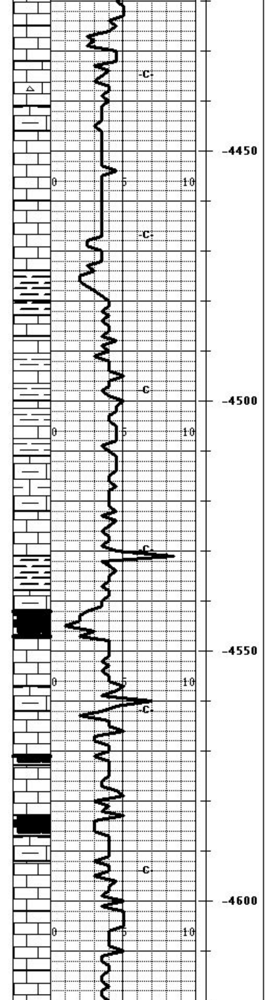
LS: tn-gy-wh, mx- fnxln, sm 2RX- VRr mdX's, prt Fr- Gd pp- vug Por & IX Por & l.Gr Por, NS. Sl CHERTY: cm-gy-tn.

MW 9.0, VIS 56,
PV 15, YP 17,
WL 10.0, pH 10.5,
LCM trc, Cl 4900

LS: tn-gy-wh, pred dn to chky, sl CHERTY: cm-blu-gy-tn, shrp.

LS: gy-tn-wh, pred dn hd & mx- fnx, sm 2RX, trc prd mdx, sm chlky, trc mldc Por, sl Cherty. NS.
SH: gn-gy & blk carb & mrn.

LS: tn-gy-wh, pred dn- mx- fnx, sm chky, VPr- NVP. NS.



LS: wh-chlky & cm-tn, mx- fnxln, Pr- Fr IX Por & pp Por & aprnt Frc Por, NS.

LS: tn-cm, mx- fnx, pred dn, sm Wkst- Pkst, sm wh-chlky, sl CHERTY: orng-rd, shrp.

SH: gn-gy & argil- shly LS:

& LS: wh-gy-tn, mx- fnx, sm dn, sm chlky, VPr- Pr Por: mFrac Por, mxPor & pp Por w/VRr FLR- trc SFO- STN-FLR- Cut.

LS: tn-gy-wh, pred dn & mx- fnx, sm sl 2RX, VRr VPr- Pr pp- vug Por, mFrac Por & mlX Por. ~1% w/spt'd tn STN-FLR & VSlSFO & Cut. sm chlky.

SH: gn-gy & mrn rd.

SH: AA, Incrs 90' spl.
LS: AA, pred dn- mx- fnx chlky.

SH: blk carb & gn-gy & mrn-rd & LS: tn-gy-wh, mx- fnx, pred dn- chlky, VPr- NVP.

SH:(Incrs 4520' spl) gn-gy, sm blk & mrn & LS: tn-gy-wh, mx- fnx, pre dn, sm sl ool & fol Wkst- Pkst, Pr- NVP.

LS: gy argil- silty Mdst & v.calc Siltst & LS: gy-tn-cm, mxln- fnx- dn AA.

LS: tn-gy, Rr wh, pred dn- mx, sm chlky.

SH: (Incrs 4550' spl) gy-blk-sbcarb, gn-gy.

LS: gy-tn, dn Mdst
& SH: blk subcarb- v.carb & gn-gy.

{FORT SCOTT} LS: tn-gy-wh, pred dn Mdst, mx- fn- 2RX, sm fn ool & fos Wkst- Pkst, sm chky w/VPr- Pr Por: mlX Por, I.gr Por, mFrac Por, VRr FLR, trc STN, trc SFO- Cut Sl Cherty.

sm argil LS & SH: rd-mrn & gn-gy.
LS: tn-gy-wh, pred nd, mx- fnx- sm 2RX, VRr mFrac & IX Por & vug Por w/FLR- VSlSFO, VRr STN- Cut.
{CHEROKEE} SH: blk carb & gn-gy.
& LS: tn-gy-wh, sm mot, mx- fnx, trc mdX's- 2RX, sl Cherty, Rr fos & fnly grnlr Pkst, VRr VPr- Pr Por: pp Por, I.Gr Por, mlX Por, mFrac Por, trc vug Por. ~5% w/FLR, lt STN & VSlSFO.
SH: (Incrs 4600' spl): gn-gy & blk carb.
& LS: gy argil & LS: AA w.trc STN-FLR.

LS: gy-tn-wh, pred dn mx- fnx- 2RX, trc mFrc & pp- vug Por, trc spt'd STN- FLR- SFO.

LS: dk gy-tn-wh, sm mot, pred dn, sm argil, mx- vfnx, sm fos Wkst- Pkst, VRr VPr- Pr pp Por, trc STN- FLR- SFO. >99% barren.

LS: Incrs wh- chlky & subchlky & tn-gy, dn- mx- fnx, trc Pr Por w.trc STN- SFO- FLR. >99% barren. VRr fos Pkst. Sl Cherty.

4547' (2108)
FORT SCOTT

4571' (-2132)
CHEROKEE SH

trc SFO

trc SFO

trc SFO

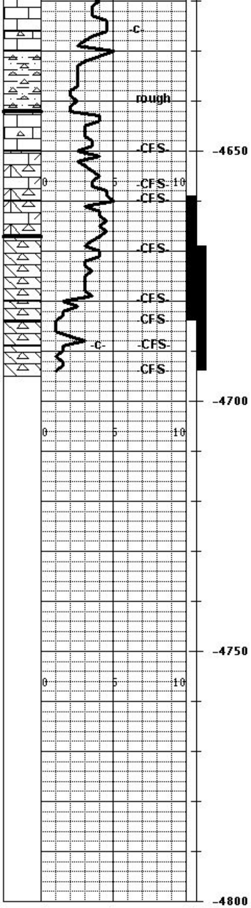
VSl SFO

VSl SFO

trc SFO

trc SFO

trc SFO



CHERTY & Incrs in shrp Chert.
SH: gn-gy & blk & mrn-rd, Abndt VC. SH- SILTST: gn-gy & rd mrn & CHERT: VC, gn-gy & ambr-tn-yg, shrp & wthr'd, Pr Por, trc SFO- FLR- STN- Cut.

{MISSISSIPPIAN} (20 min spl} V.Abndt CHERT: bf-tn, pred shrp, frsh- sl wthr'd, trc SFO. (40 min spl} LS: wh-tn, prt chlky & mx- fnxln, sl fos, Pr- NVP, trc vug Por w/ STN- trc SFO- Cut.
DLS: ambr-tn & cm mot, mx- vfnxln, fos Pkst. CHERTY: cm- ambr-tn, pred shrp, frsh- sl wthr'd, VPr- Pr mIX Por & mFrac Por, trc SFO- FLR, sm chlky LS.

Abndt DOLO- DLS- LS AA & mx- fnx.

{MISSISSIPPIAN} DOLO: cm-gn-gy, bf, mx- vfnxln w/Pr- Fr pp- vug Por, mldc Por, VPr- Pr IX Por, spt'd STN- FLR, Sl- Fr SFO, Fr Odor, sl Cherty.

DOLO: cm-bf-tn- STN & gn-gy, mx- fnxln, sm 2RX, VRr sucro, sm grnlr-fos, ~50% w/Fr- Gd vug, mldc & IX Por w/spt'd- sat STN. Cherty-qtzc.
DOLO: cm-gy-tn, mx- fnxln, VRr Fr- Gd vug & IX Por, spt'd lt- dk STN, Fr SFO.
DOLO: cm-bf-gy, tn STN, mx- vfnxln, VRr fnx- sucro, Fr- Gd vug & mldc Por, Pr- Fr IX Por, pred spt'd- sat STN & Fr- Gd SFO, SISGB, Fr Odor, dull FLR.

4642' (-2203) MISSISSIPPI LM Trc SFO	**trc SFO**
trc SFO 4667' (-2228) MISSISSIPPI DOLO Sl- Fr SFO MW 9.3, VIS 50, PV 13, YP 15, WL 10.4, pH 10.5, LCM trc, Cl 5200 4694' (-2255) RTD	**DST #1 MISS 4659'-4684' 30-45-45-60 1st Op: wk blo bldg to 1-1/4" in 22", sl dwn 2nd Op: 1/4" after 33" Rec: 25'OspkM Tool spl: 1%O,99%M IHP: 2297 IFP: 9-12 ISIP: 729 FHP: 2242 FFP: 12-15 FSIP: 697 BHT: 130 F**
VESS OIL CORP MOTHES #6 840'FNL & 2260'FWL SEC 2-22S-24W HODGEMAN CO, KS API#15-083-21711	**DST #2 MISS 4669'-4694' 30-45-45-60 1st OP: wk blo blt to 2" 2nd OP: wk blo blt to 1-1/8" Rec: 35' drlg M w/Ospks Tool spl: 1%G,2%O,97%M IHP: 2293 IFP: 6-13 ISIP: 751 FHP: 2239 FFP: 13-22 FSIP: 711 BHT: 126 F**