ROGER L. MARTIN

INDEPENDENT PETROLEUM GEOLOGIST 316-250-6970

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY VESS OIL CORPORATION

LEASE SCULLY "A" #26

FIELD AUGUSTA

LOCATION 900' FSL & 2170' FEL

SECTION 9 **TOWNSHIP** 28S **RANGE** 4E

COUNTY BUTLER **STATE** KANSAS

ELEVATIONS

KB 1220' **GL** 1214'

Measurements Are All From KB: 1220'

API 15-015-24104-0000

CONTRACTOR C & G DRILLING, RIG #1

SPUD 08/13/2018 **COMP** 08/18/2018

RTD 2482' (-1262) **LTD** 2480' (-1260)

ELECTRICAL SURVEYS

ELI: DIL & CDL/CNL/PE & MEL

1 DST by DIAMOND TESTING

CASING

SURFACE 8&5/8" 23# @~263' w/ 150sx Class A (see chrono)

PRODUCTION 5&1/2" 15.5# MW-55 csg set @ 2473'KB w/175sx (see Remarks)

FORMATION TOPS	LOG	SAMPLES
*	*	
OREAD	1383' (-163)	1387' (-167)
HEEBNER	1423' (-203)	1425' (-205)
DOUGLAS SH	1457' (-237)	1460' (-240)
DOUGLAS SS	1464' (-244)	1466' (-246)
LANSING	1652' (-432)	1652' (-432)
KANSAS CITY	1996' (-776)	2000' (-780
STARK SH	2116' (-896)	2116' (-896)
B/ KANSAS CITY (B/KC)	2204' (-984)	2205' (-985)
ALTAMONT	2286' (-1066)	2289' (-1069)
PAWNEE	2325' (-1105)	2328' (-1108)
CHEROKEE	2372' (-1152)	2375' (-1155)
ARDMORE	2435' (-1215)	2438' (-1218)
BASAL SIMPSON SS	2473' (-1253)	2476' (-1256)
TOTAL DEPTH (LTD/RTD)	2480' (-1260)	2482' (-1262)

CHRONOLOGY

8/13/18; MIRU C&G#1; Drld rathole; Spud 12&1/4"hole @7:45am. TD 12&1/4" hole @ 6:06pm; Ran 6 jts of 8&5/8" 23# LS; tally of 253'. MI QES & cmt'd w/ 150sx Class A; plug dwn @ 8:33pm.

8/14/18; Drlg 7&7/8" hole @ 282' @ 8:00am. Started drlg out under surface @ 7:50am. (late startdue to mud pump issue; now fixed)

8/15/18; Drlg @ 1946' @ 8:00am. LOST CIRC @ 1530'; Lost~350 bbls; Mud Wt:8.8; Vis:44; LCM:7 CFS/CTCH@1962' (20/40min.spls) Bit Trip @ 1962'; PDC out; Tri-cone bit in; (TIH slowly due to Lost Circ).

8/16/18; Drlg @ 2249' @ 8:00am Md Wt:9.0; Vis:46; LCM:7

8/17/18; Wiper/short trip to DC & CTCH @ 2482' in prep. for DST#1:ARB; 2444'--2482'; Md Wt:9.2; Vis:50; LCM:7

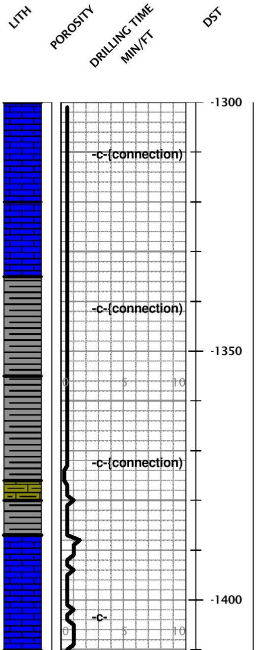
8/18/18; RTD:2482'; LTD:2480'; Ran oped hole E-logs: ELI: DIL & CNL/CDL/PE & MEL. 5&1/2", 15.5# MW-55 csg delivered to location @ 7:30am. Inspect & Tally csg & figure depths for packer shoe, baske & 7 centralizers. Ran 59 jts of 5&1/2" 15.5# MW-55 csg. (csg tally = 2469.81 +~2.5' packer shoe = 2472.31'. Tagged btm w/ landing jt @ ~2477'. Picked up~1' off btm; circ'd for 45min; ~4" to~5". Circ'd an additional 45min & gained a few more inches. Picked up 5' off bottom (btm of packer shoe @~2473') disconnected landing jt. RU QES head, dropped ball, set packer shoe w/ 1700#. Pumped 5 bbl water, displaced w/~61 bbls (57.8 bbls capacity calc) Lift pres.=750#@42 bbls out. PD@ 3:15pm @ 1500# Held

REMARKS:

*E-LOG TOPS BY PAUL J RAMONDETTA, GEOLOGIST, VESS OIL CORP.

5&1/2", 15.5# MW-55 csg delivered to location @ 7:30am on 08/18/2018.
Inspect & Tally csg & figure depths for packer shoe, basket, & 7 centralizers.
Ran 59 jts of 5&1/2" 15.5# MW-55 csg. (csg tally = 2469.81 +~2.5' packer shoe = 2472.31'.
Tagged btm w/ landing jt @ ~2477'. Picked up~1' off btm; circ'd for 45min; ~4" to~5".
Circ'd for an additional 45min & gained a few more inches. Picked up 5' off bottom (btm of
packer shoe @~2473') disconnected landing jt. RU QES head, dropped ball, set packer shoe
w/ 1700#. Pumped 5 bbl water, displaced w/~61 bbls (57.8 bbls capacity calc)
Lift pres.=~750# @ 42 bbls out. Plug Down @ 3:15pm @ 1500# Held.
Basket @~2430' {E-Log measurments). Centralizers @~2387', @~2175', @~2090',
@~2005', @~1883', & @~1798' {E-Log measurments).
By Dylan Klaus P.E. Operations Engineer, VOC, & Roger Martin, Well-site Geologist

PRODUCTION CASING WAS SET (AS ABOVE) FOR A COMPLETION IN THE BASAL
SIMPSON SANDSTONE.
RESPECTFULLY SUBMITTED,
ROGER L MARTIN, WELL-SITE GEOLOGIST
(print length: 78" without DST report/charts)



SAMPLE DESCRIPTION

1311'spl} ~50% LS: wh-tn-gy, prt chlky, & microXln{ux) to fnXln, w/ some{sm) MdX-VCrsXln- 2nd ReX, sm fos.mold Porosity{Poro) sm Fr-Gd Poro: vug, mold, InterXlnPoro {IXP) w/ NS{No Show of Oil)~50% SH: gy-bk, sm bk-carb.
1342'spl} LS: AA{As Above) (Sl incrs) wh-gy-tn, microXln{ux)-CrsXln- 2nd ReX, & sm MdXln-CrsXln; sm wh-chlky; Rr Fr-Gd Poro: AA; NS; sm LS w/ pr Visbl Poro to NVP{No Visbl Poro) w/ NS; & SH: gy-bk-AA, & green-gray{gn-gy).

1373'spl} >90% SH: pred dk-gy-bk.

1404'spl} ~70% SH:AA, pred dk-gy-bk;

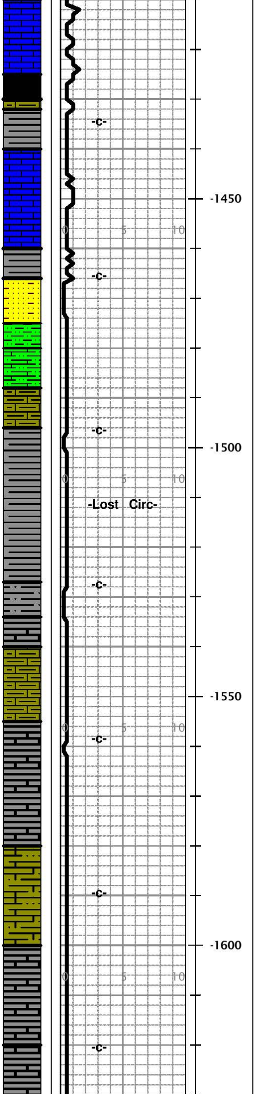
1404'spl.cont'd} ~30% LS: cm-tn-gy, sm dn- Mdst-Wkst, sm argil; Rare{Rr) wh-chlky; Very rare {Vrr) fnXln-MdXln; pred pr Visbl Poro- NVP; NS.

1435'spl} OREAD} Abndt (~70%) LS: cm-tn-gy, ux-fnXln, & fnly granlr- Pkst- Wkst, sm subchlky to wh-chlky w/ pr-Fr Poro: pin point {pp) & Inter-Granular {IGr) & IXP w/ NS.

REMARKS

**Drlg w/ PDC bit
Kelly Down {KD)
(~31') samples
Wet cups & bags
(& dry by RLM)**

**1387'(-167)
OREAD**



1466'spl} LS:AA; pred ux- prt fnXln{fnX) prt chlky, & prt dense{dn) w/ pred pr-NVP w/ NS.

1466'spl.cont'd} HEEBNER} SH: bk carb to V.carb, & gy-bk subcarb SH (incrs SH to ~20%)

1497'spl} LS: cream-buff-tan{cm-bf-tn) ux-fnXln, w/ Rr MdX- CrsX- sm 2nd ReX; & sm Wkst-Pkst, & sm subchlky to wh-chlky; pred Vpr-pr Visbl Poro: pp, IGr, IXP; NS;

~5% SH: gn-gy & bk.

1497'spl.cont'd} SS: Sd Clusters: Lt-gy, gn-gy, Vfn-fn Gr'd, Rnd'd to subanglr, well sort'd, argil- silty, micac, well cmt'd to friabl w/ pr-Fr Visbl & aprnt Poro; sm Gd aprnt Poro; w/ NS; No FLR {NF), No Cut {NC);
& SILTS: Lt-gn-gy, sndy, micac, sm calc; NS.

1528'spl} Sndy SILTS & sm Silty Sd Clusters: AA; NS; (sharp decrs in Sd Clust:AA).

1528'spl.cont'd} sm LS: gy-tn-cm, pred dn- ux-fnX; Trc MdX-CrsX's; sm argil; pred Vpr-NVP; NS; (sharp decrs in Sd Clust:AA) sm SILTS:AA; & SH (incrs) dk-Lt-gy, sm calc & Lmy.

1559'spl} Pred SH: gy-bk, sm fiss, & sm calc & Lmy, Rr pyrtc; & sm LS: dk-md-gy, argil to dn, & ux-fnX, & Wkst-Pkst, & sm Mdst; pred Vpr-NVP;NS.

1590'spl} increase{incrs) V.argil & argil LS: dk-md-gy, ux-fnX, & Mdst-Wkst-Pkst w/ pr Poro to NVP w/ NS;
& SH:AA, sm calc & Lmy, sm pyrtc; (Trc Sd Clust: AA; NS; NF; NC.)

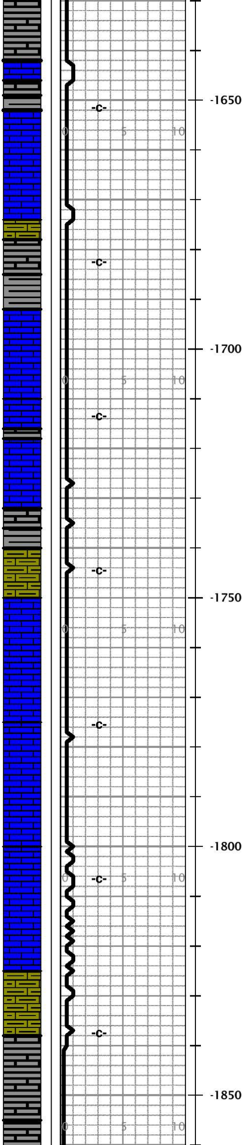
1621'spl} SH-SILTS: dk-Lt-gy, sm micac, & Rr Sndy; Trc Sd Clust:AA; NS.

1652'spl} SH: pred dk-gy-bk, sm fiss, sm calc & Lmy.

1425'(-205)
HEEBNER SH

1460'(-240)
DOUGLAS SH
1466'(-246)
DOUGLAS SD{NS)

{LOST CIRC @ 1530'
(Lost ~350 bbls)



1683'spl} IATAN} LS: gy-tn-cm, mot, ux-fnX; & Wkst-Pkst, sm argil; pred pr-NVP; NS; ~10% SH: AA; gy-bk.

1683'spl.cont'd} LANSING} LS: tn-gy-wh, pred ux-fnX, w/ Trc MdX-CrsX, sm prt wh-chlky, pred dn to pr Poro; pp & IGr, IXP; <5% w/ FLR {Flourescence) & Trace Show Free Oil {Trc SFO) & Trace Very Light Oil Stain{Trc VLt OSTN)& Trc milky Cut.
1714'spl} Abndt LS: cm-gy-tn, ux-fnX; Vrr MdX's--V.CrsX's- sm 2nd ReX; sm subchlky to wh-chlky; pr-Fr Visbl Poro & sm aprnt Frac.Poro- 2nd ReX w/ FLR & OSTN; ~5% to ~10% w/ FLR; Trc SFO-STN-Cut.

1714'spl} sm SH: (~10%) gy-bk subcarb & gn-gy; & sm argil- shly LS.

1745'spl.cont'd} LS: wh-cm-tn, ux-fnXln, sm prt MdXln-CrsXln- 2nd ReX; prt chlky, sm Wkst & fos-Pkst; Rr Fr-Gd Poro: pp-vug, & IGr & IXP; <5% w/ spt'd- subsat FLR, & Trc SFO & OSTN & Cut, sm Barren Poro.

1776'spl} LS: tn-gy-wh, ux-fnXln, w/ Rr MdX-CrsX; sm Wkst-Pkst; pred pr Poro to NVP & Barren; (<5% w/Poro & FLR & Trc SFO-STN-Cut: AA)

1807'spl} LS: cm-tn & gy-wh, sm mot; ux-fnXln; & Wkst-Pkst, sm subchlky to wh-chlky; pred pr visbl Poro to NVP w/ NS; (Trc FLR-AA)

1838'spl} LS: cm-tn, & gy-wh, pred dn- Mdst-Wkst, sm Pkst; Rr ux-fnX w/ pr Visbl Poro (Trc FLR: AA) Pred Vpr-NVP w/ NS.

1869'spl} ~75% LS: gy-tn-wh, pred dn Mdst, sm prt chlky, sm Wkst, Vrr Pkst, sm argil Mdst, & ux-fnX; pred Vpr-NVP; NS; ~25% SH: dk gy to bk, sm calc & Lmy; sm bk carb.

1900'spl} ~90% SH: dk-gy-bk, Abndt bk subcarb to carb; ~10% LS:AA.

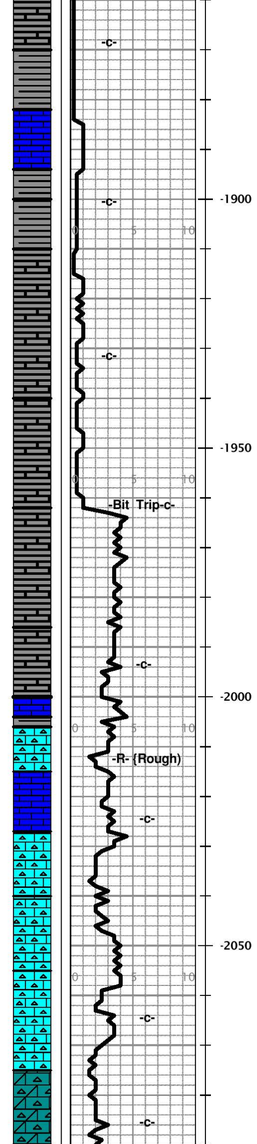
1642'(-422)
IATAN

1652'(-432)
LANSING
{Trc SFO)
(Trace Show
Free Oil)

{Trc SFO)

{Trc SFO)

{Trc SFO)



1931'spl} ~50% SH:AA; ~50% LS: wh-bf-tn, sm prt chlky, & sm ux-fnXln- sm 2nd ReX- Trc MdX's to VCrsX's; sm pr-Fr Poro: IGr & pp & IXP; Trc Gd Visbl Poro; Trc SFO-STN-FLR-Cut, Pred Barren.

1962'KellyDown{KD) drlg.spl} >95% SH: pred dk-gy-bk, sm calc & Lmy, Vrr carb SH; (<5%LS:AA).

1962'+20min.circ.spl} SH:AA; sm sl micac, & sl pyrtc

1962'+40min.circ.spl} ~>90% SH: AA; sm V.calc & Lmy; (~<10%LS:AA).

1980'spl} Pred cavings

1990'&2000'spls} >90% SH: dk-gy-bk, sm calc, sm sl micac, sm sl pyrtc, Rr bk carb.

2010'spl} ~70% SH: AA;

2010'spl.cont'd} KC} ~30% LS: cm-tn-gy, pred dn- ux & Mdst, sm chlky, >99%Barren; Trc LS: As Below, w/ Poro w/ SFO-STN-FLR-Cut. (2020'spl} KC} >90% LS: cm-gy-tn, pred dn- ux, & Mdst-Wkst; sm ux-fnXln, Vrr prt MdXln; & Pkst-Grst w/ Fr- Vrr Gd Poro: pp-vug, & IGr, oomldc & I.oolc, & IXP; >10%<20% w/ subsat FLR & spt'd to sat OSTN & Sl-Fr SFO & Cut, & Fr Odor. (2030'spl} LS: gy-tn-wh, sm mot- ool & fos- Pkst-Grst w/ Fr-Gd Poro; sm wh-chlky; & ux-fnXln, Vrr MdX's- 2nd ReX; sm Fr Visbl Poro, & Vrr Gd-VGd Visbl Poro: pp, IGr, & moldc, & IXP; ~10% w/ spt'd to sat FLR & OSTN & Sl-Fr SFO {Gsy & "Lively") & Sl-Fr Cut, Fr Odor. (2040'&50'spls} LS: gy-tn-wh, pred dn Mdst-Wkst, & ux; sm chlky; sm ool & fos Pkst & Grst; Vrr Fr-Gd IGr.Poro; <5% w/ FLR & SlSFO-STN & Cut, Vsl Odor; Sl Cherty. (2050'spl.cont'd} LS: cm-tn-gy, ux-fnX w/ Vrr MdX-2nd ReX; sm wh-semichlky; sm fos & ool Pkst, Trc Grst; Trc Fr-Gd Poro:AA <5% w/ FLR-SFO-STN-Cut: AA; Pred Vpr-pr Visbl Poro & pred Barren. Sl Cherty: wh-cm-gy-bf, opq, sharp. 2060'&70'spls} Pred LS:AA; incrs dn to pr visbl Poro w/ NS; Mdst-Wkst- sm argil; & sm Pkst w/ pred Pr-NVP & Barren (Trc LS: w/ Poro & Trc SFO-STN-FLR-Cut:AA).

2080'spl} LS: cm-tn-gy, ux-fnXln, Vrr MdX-CrsX's- 2nd ReX; sm Wkst-Pkst, sm prt wh-chlky; Cherty; sm pr-Fr Poro: pp, IGr & IXP; Trc FLR & OSTN & Trc SFO & Cut; Cherty: wh-gy, opq. (2090'spl} LS: cm-bf-gy, sm fos-Pkst, sm ux-fnXln- sm 2nd ReX; sm wh-chlky; sm Fr-Gd Poro: I.Fos, IGr, & IXP; & aprnt Poro: 2nd ReX; Trc FLR-SFO-STN-Cut; pred Barren.

2100'&2110'spls} Dolomitic LS {DLS) - DOLO: bf-tn, micro-Xln{ux) to fnXln, sm dn, & sm sucro, Rr prt MdXln-CrsX's- 2nd ReX; sm granlr- Pkst-Grst; Fr-Gd Poro: IGr & IXP; Trc SFO-STN-FLR-Cut; Pred Barren; Cherty.

{Trc SFO)

1894'(-674)
B/LANSING/
Bonner Springs SH.

{Bit Trip @ 1962'
PDC out; Tri-cone in.
10' samples (spls)
from 1970'
(wet cups & bags)
(dried by RLM)

2000'(-780)
KC {Trc SFO)

{~15% Sl-Fr SFO)

{~10% Sl-Fr SFO)

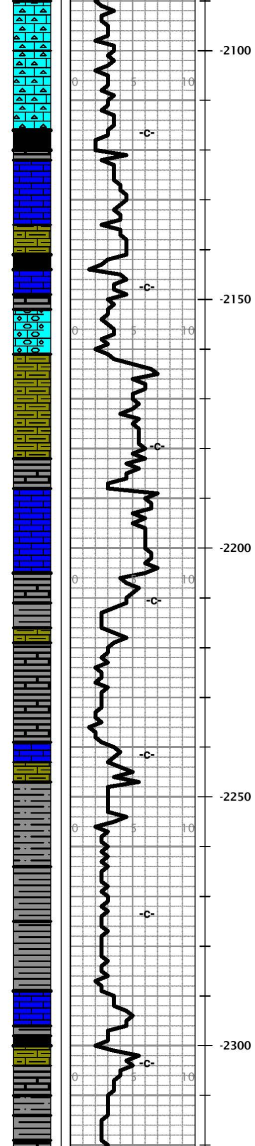
{<5% Sl SFO)

{<5% Sl SFO)

{Trc SFO)

{Trc SFO)

{Trc SFO)



2120'spl} LS: wh-tn, ux-MdXln, w/ Vrr CrsX's- 2nd ReX; sm chlky, Sl Cherty; pr-Fr Visbl Poro: IXP; ~5% w/ FLR & OSTN & VSlSFO & Cut, Pred Barren; Sl Cherty.

2130'spl} sm LS:AA; <5% w/ FLR-SFO-STN-Cut: AA.

2130'spl.cont'd} STARK} SH: (~40%) bk subcarb to V.carb, & sm gn-gy;
SWOPE}~60% LS: gy-tn-wh, pred dn to subchlky; & ux-fnX- 2nd ReX; sm Vpr-pr Visbl Poro: pp, IXP & aprnt u-Frac.Poro; <5% w/ FLR & OSTN & VSl-Sl SFO & Cut, Trc Odor. (2140'spl}~90% LS: tn-wh, pred dn- mx & chlky; Sl Cherty:AA; Rr Wkst-Pkst w/ Vpr-pr Visbl Poro: pp, IGr & IXP; ~2% w/ spt'd-sat brt FLR, Trc SFO & OSTN & Cut, Trc Odor.

2150'spl} HUSHPUCKNEY SH} incrs SH:AA, bk carb & Vcarb, & gn-gy, sm pyrtc. (2160'spl} HERTHA} LS: tn-gy-wh, pred dn- ux-fnX, w/ Rr MdX-CrsX- 2nd ReX; sm fn ool & fos; Rr pr-Fr Poro: pp, IGr, & IXP w/ spt'd-sat FLR & OSTN & Cut, ~>5%~<10% w/ FLR & VSl-Sl SFO & Cut, VSl Odor. (2170'spl} LS: tn-gy-wh, mot- Pkst-Grst: ool & fos, & Vrr oomldc, & sm fnXln-MdXln; Vrr Fr-Gd Visbl Poro: IGr, oomldc, & IXP; ~10% w/ pr-Gd Poro w/ FLR & OSTN & VSl-SlSFO & Cut, Sl Odor.

2180'&2190'spls} ~70%LS; (~5%~<5% LS: AA w/ Poro & FLR-SFO-STN-Cut:AA) Pred LS: dk-Lt-gy & tn, dn-ux, & argil- shly Mdst w/ pred Vpr-NVP & Barren; VSl Cherty. & SH: gy-bk, sm calc & Lmy.

2200'spl} ~80%LS: dk-gy-tn, pred dn-ux; & argil Mdst:AA; w/ Vpr-NVP w/ NS;
sm SH: gy-bk, sm calc & sm carb.

2210'spl} V.Abndt (~90%) LS: tn-bn-gy, pred dn-ux-fnX, & Mdst; Rr wh-chlky, w/ Vpr-NVP w/ NS.

2220'spl} B/KC} Sharp incrs in SH:(~80%SH) pred dk-gy-bk, sm calc & Lmy, & subcarb to carb SH.

2230'spl} sm LS: gy-bk, V.argil- Mdst w/ Vpr-NVP & NS; ~90% SH: pred bk subcarb, sm carb, & dk-gy, sm calc, sm calc.

2240'spl} >90% SH: dk-gy, sm gn-gy, sm calc & Lmy, incrs pyrtc, & sm bk carb.

2250'spl} CHECKERBOARD} sharp incrs in LS: ~50% LS: tn-gy-wh, pred dn Mdst- sm argil-shly, & sm Wkst-Pkst, & ux, w/ Vpr-NVP; NS.

2260'spl} >90% SH: Vgated, dk-Lt-gn-gy, gy-bk, sm bk carb.

2270'spl} SH-SILTS: Lt-md-gy & gn-gy, sm micac.

2280'spl} pred SH: Lt-dk-gy, & gn-gy, sm silty & sl micac.

2290'spl} >90% SH: md-gy, gn-gy, sm gy-bk, Rr pyrtc, & bk carb.

2300'spl} <5% SH:AA.

2300'spl} ALTAMONT} >75% LS: gy-tn-wh, ux-fnX, Vrr (<5%) oomldc, w/ pr to Gd oomldc Poro; & Vpr-pr IXP; w/ NS; pred dn Mdst & ux w/ Vpr-NVP w/ NS; & sm wh-chlky LS w/ NS. (2310'spl} Abndt SH:AA; sm bk subcarb to carb SH; & ~40%~<50% LS: sm AA, & sm gy-bn-tn-wh-mot-Pkst-Grst, sm fos, pred pr Visbl Poro to NVP w/ NS.

2320'spl} SILTS: Lt-dk-gy, & gn-gy, sm calc, sl micac, & sl pyrtc.

2330'spl} pred SH: dk-gy to bk, pred fiss, sm carb; (& sm LS:AA).

{~5% VSlSFO)

2116'(-896)
STARK SH

SWOPE LS
{<5%VSl-SlSFO)

HERTHA
2144'(-924)
{~10%VSl-SlSFO)

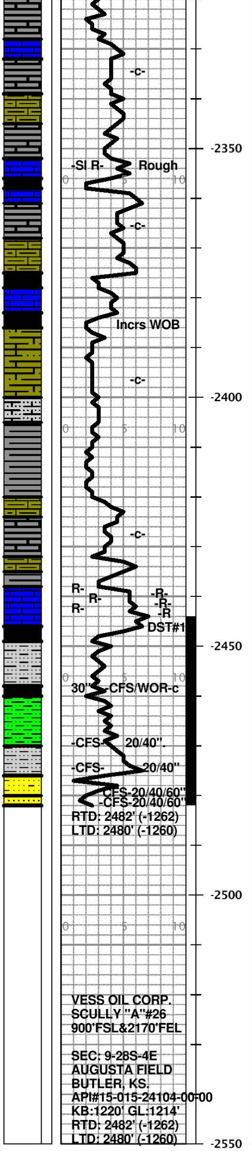
{~10%VSl-SlSFO)

2205'(-985)
B/KC

2239'(-1019)
CHECKERBOARD

2289'(-1069)
ALTAMONT

FUD MUD Report
6:40am. 08/16/18
Drlg @ 2218'
Wt:9.0; Vis:46
PV:18; YP:14
pH:9.5; WL:8.8
CT:1/32" Alk:0.25
Cl: 1,100 ppm
Ca: 40 ppm
Solids: 4.9%
LCM: 7#/bbl
ECD: 9.52#/gal



2340'spl} <40% SH:AA, & pred bk subcarb to carb.

2340'spl.cont'd} PAWNEE} LS: tn-gy-wh, pred dn-cryptoXln-fnX; & Mdst-Wkst; Rr Pkst; sm argil-shly w/ Vpr-NVP w/ NS.

2350'spl} ~50% SH: gy-bk, & gn-gy, sm sl pyrtc;
& ~50% LS: tn-gy, dn-ux, & Mdst w/ Vpr-NVP w/ NS.

2360'spl} ~50% LS: AA, pred dn-ux w/ Vpr-NVP w/ NS.
~50% SH: gy & gn-gy, & sm bk carb.

2370'spl} FT.SCOTT} ~90% LS: wh-tn-gy, mot, ux-fnX, sm ool & fos Pkst, sm prt chlky; Abndt dn Wkst & Mdst, sm argil-shly; pr-NVP; NS.

2380'spl} ~50% LS: gy-tn, dn & argil Wkst-Mdst w/ Vpr-NVP w/ NS.
2380'spl.cont'd} CHEROKEE} ~50% SH: gy, sm calc; sm bk carb.

2390'spl} incrs LS: tn-gy-wh, pred dn-ux, & Mdst- sm argil-shly w/ Vpr-NVP; NS; & ~30% SH:AA.

2400'spl} pred SH: AA; & SILTS: Lt-dk-gy, & gn-gy, sm calc & Vfnly Sndy; & sm Silty SS: V.Silty Sd Clusters: gy, VfnGr'd w/ Vpr-pr Visbl Poro w/ NS; NC.

2410'spl} SILTS-SH:AA; Vrr Sd Clusters: gy, Vfn-fn Gr'd; argil- V.silty w/ Vpr-pr Visbl Poro; NS; Vrr LS:AA; dn & argil; Vpr-NVP; NS.
2420'spl} Pred SH: gy-bk, sm pyrtc, & sm gn-gy; Vrr dn & argil LS.

2430'spl} ~95% SH: incrs bk subcarb to V.carb.

2440'spl} ~70% SH: Pred bk subcarb to carb, sm calc; & ~30% LS: tn & Lt-dk-gy & wh, pred dn Mdst w/ Vpr-NVP w/ NS.

2450'spl} ~30% SH:AA; & dk-gy, sm calc.

2450'spl.cont'd} ARDMORE}~70% LS: (sharp incrs in LS) tn-gy-wh, pred dn- crypto-ux, Trc fnXln-2nd ReX; & Mdst w/ Vpr-NVP; NS.
2459'KD&30min.circ.spls} sm SH: bk carb & subcarb.
& SS: >10%~20% Sd Clust: gy, w/ tn-bn OSTN, Vfn-fnGr'd, Rnd'd to subanglr, silty- argil, micac, well cmt'd-subfribl w/ pr-Fr Visbl Poro w/ subsat to sat Frly brt FLR &OSTN; Sl-FrSFO-Gsy{lively),Sl-Fr milky Cut, FrOdor.
2470'drlg&circ.spls} sm SH: bk carb & sm Turq-blu-gn & waxy & pyrtc; & SS: (decrs AA) Sd Clust: wh-gy-transl, fn-Crs Gr'd, well Rnd'd to subanglr, pred well cmt'd w/ Vpr-pr Poro w/ spt'd to subsat FLR & OSTN & SlSFO & Cut, pred Barren; Abndt Free(F) Sd Gr's: fn-Crs, pred Md, well Rnd'd Gr's; Sl Odor. (2475'circ.spls} incrs SH:Turq-blu-gn, pyrtc, waxy,Vgtd; & SS:Sd Clust:AA; pred Vpr-pr Visbl Poro w/ sm FLR-SFO-STN-Cut: &F.Sd Gr's:AA;sl Odor.
{2480'+20min.circ.spl} SS: sm Sd Clust: rich tn-bn OSTN (on gy-transl Sd Clust) fn-Crs Gr'd, pred Md Gr'd, well Rnd'd to subanglr, mod to Hi Sphr, well to pr sort'd w/ Fr-Gd IGr Poro w/ subsat to sat brt yel FLR & tn-gn OSTN, Gd SFO-Gsy"Lively" & Abndt F.Sd Gr's: AA; Strong Odor.
(2480'+40min.circ.spl} SS: Rr Sd Clust:AA, & fn-VCrs Gr'd; sl incrs in % of pr sort'd clust w/ sm Crs-VCrs well Rnd'd to subanglr Gr's, pred sat brt FLR & rich tn-bn OSTN & GdSFO-Gsy/Lively, & Gd streaming to milky Cut; & Abndt F.Sd Gr's: fn-VCrs Gr's, pred Md Gr's: well Rnd'd to subRnd'd, Rr subanglr, sm Sl FLR, {Strong Odor} 2480'+1hr.circ.spl} Sl incrs F.Sd Gr's:AA, sm w/brt FLR.

(2482'+20min.circ.spl} Sl incrs Sd Clusters:AA; pred rich tn-bn-OSTN, Vfn to Crs Gr'd, pred fn-Md Gr'd, well Rnd'd to subanglr, mod- Hi Sphr, Fr-VGd Poro w/ subsat- sat FLR & OSTN & Fr-Gd SFO-Gsy/Lively, & Fr-Gd Strmg & milky Cut; & Abndt Free Sd Gr's:AA, sm (sl incrs) w/ FLR, Strong Odor.
(2482'+40min.spl} (sm SH:AA) Rr Sd Clusters:AA w/ Poro:AA & FLR-SFO-STN-Cut:AA; V.Abndt Free Sd Gr's: AA, pred fn-Md Gr's, well Rnd'd to subRnd'd, Rr Crs-VCrs Gr's & Rr anglr Gr's, sm FLR on F.Sd Gr's; Strong Odor.
(2482'+1hr.circ.spl} V.Abndt Free Sd Gr's:AA w/ sm FLR; Rr Sd Clusters:AA w/ subsat-sat brt FLR {wet & dry) & rich tn-bn OSTN & Fr-Gd SFO-Gsy/Lively, Gd streamg & milky Cut, Strong Odor.

2328'(-1108)
PAWNEE

2358'(-1138)
FT.SCOTT

2375'{-1155)
CHEROKEE

2438'(-1218)
ARDMORE

SS{Sl-FrSFO)

2476'(-1256)
BSL.SIMP.SS
{Gd SFO-Gsy)
RTD:2482'(-1262)

VESS OIL CORP.
SCULLY "A"#26
900'FSL & 2170'FEL
SEC: 9-28S-4E
AUGUSTA FIELD
BUTLER CNTY., KS.
API#15-015-24104-00-00
KB:1220' GL:1214'
RTD:2482' LTD:2480'

FUD MUD Report
6:40am. 08/17/18
Short Trip @2482'
Wt:9.2; Vis:55
PV:35; YP:10
pH:9.5; WL:8.0
CT:1/32" Alk:0.20
Cl: 1,100 ppm
Ca: 20 ppm
Solids: 6.3%
LCM: 6#/bbl
ECD: 9.71#/gal

DST#1; ARB.
2444'--2482'
30-45-45-60min
IF:1/4"blow built to BOB in 22min.
ISI:No Blow Back
FF: Built to BOB in 22min.
FSI: No BB
Rec: 20'GIP
170' Clean Oil
(32.5 grav.@60F)
20' HOCM
(25%Oil;75%Mud)
120' SIG&OCM
(6%G;20%O;74%M)
310' Total Fluid
Tool Sample:
40%Oil, 3%Water
5%Mud
IHP: 1159
IFP: 17--81
ISIP: 965
FFP: 90--142
FSIP: 958
FHP: 1136
Max.Temp:108deg.F

Company: Vess Oil Corporation
Lease: Scully "A" #26

SEC: 9 TWN: 28S RNG: 4E
County: BUTLER
State: Kansas
Drilling Contractor: C & G Drilling
Company - Rig 1
Elevation: 1214 GL
Field Name: Augusta
Pool: Infield
Job Number: 215

Operation:
Uploading recovery & pressures

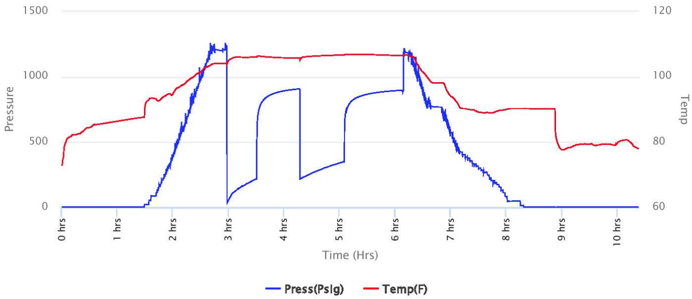
DATE
August
17
2018

DST #1 **Formation: Basal-Simpson** **Test Interval: 2444 - 2482'** **Total Depth: 2482'**

Time On: 10:46 08/17 Time Off: 20:52 08/17
Time On Bottom: 13:40 08/17 Time Off Bottom: 16:40 08/17

Electronic Volume Estimate:	1st Open	1st Close	2nd Open	2nd Close
754'	Minutes: 30	Minutes: 45	Minutes: 45	Minutes: 60
	Current Reading:	Current Reading:	Current Reading:	Current Reading:
	59.5" at 30 min	0" at 45 min	57.6" at 45 min	0" at 60 min
	Max Reading: 59.5"	Max Reading: .5"	Max Reading: 57.6"	Max Reading: 1.6"

Inside Recorder



Company: Vess Oil Corporation
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Recovered

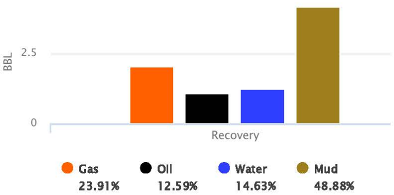
Foot	BBLS	Description of Fluid	Gas %	Oil %	Water %	Mud %
114	1.23576	G	100	0	0	0
72	0.78048	O	0	100	0	0
341	3.69644	SLOCSLWCSLGCHOSM	10	3	6	81
186	1.9814896	SLOCGCWCHOSM	20	5	26	49
174	0.85608	SLGCSLOCMCW	5	10	60	25

Total Recovered: 887 ft
Total Barrels Recovered: 8.5502496

Reversed Out
NO

Initial Hydrostatic Pressure	1200	PSI
Initial Flow	33 to 218	PSI
Initial Closed in Pressure	**908**	**PSI**
Final Flow Pressure	217 to 349	PSI
Final Closed in Pressure	**898**	**PSI**
Final Hydrostatic Pressure	1195	PSI
Temperature	107	°F
Pressure Change Initial Close / Final Close	1.1	%

Recovery at a glance



DIAMOND TESTING LLC

Company: Vess Oil Corporation
Lease: Scully "A" #26

SEC: 9 TWN: 28S RNG: 4E
County: BUTLER
State: Kansas
Drilling Contractor: C & G Drilling Company - Rig 1
Elevation: 1214 GL
Field Name: Augusta
Pool: Infield
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Operation:
Uploading recovery & pressures

DATE
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17
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BUCKET MEASUREMENT:

1st Open: 1" Blow. BOB in 4 mins
1st Close: 1/2 inch Blow Back
2nd Open: 1" Blow. BOB in 6 1/4 mins
2nd Close: 1 3/4 inch Blow Back

REMARKS:

The Mud in all The grind outs were Heavy Oil Cut!

Tool Sample: 0% Gas 97% Oil 0% Water 3% Mud

Gravity: 32.5 @ 60 °F

Ph: 7

Measured RW: .59 @ 79 degrees °F

RW at Formation Temp: 0.445 @ 107 °F

Chlorides: 25,000 ppm

Company: Vess Oil Corporation
Lease: Scully "A" #26

SEC: 9 TWN: 28S RNG: 4E
County: BUTLER
State: Kansas
Drilling Contractor: C & G Drilling Company - Rig 1
Elevation: 1214 GL
Field Name: Augusta
Pool: Infield
Job Number: 215

Operation:
Uploading recovery & pressures

DATE
August
17
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Down Hole Makeup

Heads Up: 10.96 FT

Drill Pipe: 2242.52 FT
ID-3

Weight Pipe: FT
ID-2 7/8

Collars: 179.87 FT
ID-2 1/4

Test Tool: 33.57 FT
ID-3 1/2-FH
Jars
Safety Joint

Total Anchor: 38

Anchor Makeup

Packer Sub: 1 FT

Perforations: (top): 3 FT
4 1/2-FH

Change Over: 0 FT

Drill Pipe: (in anchor): 0 FT
ID-3

Change Over: 0 FT

Perforations: (below): 34 FT
4 1/2-FH

Packer 1: 2439 FT

Packer 2: 2444 FT

Top Recorder: 2428.42 FT

Bottom Recorder: 2449 FT

Well Bore Size: 7 7/8

Surface Choke: 1"

Bottom Choke: 5/8"

Company: Vess Oil Corporation
Lease: Scully "A" #26

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Mud Properties

Mud Type: Chem
Weight: 9.2
Viscosity: 55
Filtrate: 8
Chlorides: 1100 ppm

Company: Vess Oil Corporation
Lease: Scully "A" #26

SEC: 9 TWN: 28S RNG: 4E
County: BUTLER
State: Kansas
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Gas Volume Report

1st Open

Time	Orifice	PSI	MCF/D

2nd Open

Time	Orifice	PSI	MCF/D