ROGER L. MARTIN

INDEPENDENT PETROLEUM GEOLOGIST 316-250-6970

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY VESS OIL CORPORATION

LEASE KOOGLER S-107

FIELD EL DORADO

LOCATION 330' FSL 5' FEL

SECTION 30 TOWNSHIP 26S RANGE 05E

COUNTY BUTLER STATE KANSAS

ELEVATIONS

KB 1330' GL 1324'

Measurements Are All From KB

API 15-015-23971

CONTRACTOR C&G DRILLING, Rig #1

SPUD 05/05/2013 COMP 05/10/2013

RTD 2634' (-1304) LTD n/a

ELECTRICAL SURVEYS

No Open Hole E-logs

CASING

SURFACE 8&5/8" set @ 270' KB w/150 sx Class A, 3% CC

PRODUCTION 64 jts 5&1/2" J-55 set @ 2627' KB w/125 sx Thickset.

FORMATION TOPS	LOG	SAMPLES
LANSING	1756' (-436)	1758' (-428)
KANSAS CITY	2057' (-727)	2059' (-729)
STARK SHALE	2163' (-833)	2164' (-834)
BASE KANSAS CITY	2230' (-900)	2234' (-904)
CHECKERBOARD	2289' (-959)	2290' (-960)
HEPLER SAND	2304' (-974)	2305' (-975)
ALTAMONT		2341' (-1011)
CHEROKEE	2420' (-1090)	2420' (-1090)
ARDMORE	2494' (-1164)	2494' (-1164)
VIOLA	2622' (-1292)	2621' (-1291)
RTD/LTD	2636' (-1306)	2634' (-1304)

CHRONOLOGY

05/05/2013- MIRU. Drill rathole. Spud 12 1/4" hole @ 1:30 PM. TD 12 1/4" hole @ 278' @ 10:30 PM. Set 270' of 8 5/8" 24#/ft LS casing, set @ 278' KB. Consolidated: 150 sx Class A, 3% CC, Done @ midnight.

05/06/2013- Drill out from under surface @ 8 AM. PDC BIT.

05/07/2013- Bit trip @ 1925', change to button bit. Lost 20 bbl mud @ 1675'. Mud up. MW 9.3, VIS 35, LCM 1#.

05/08/2013- Drilling @ 2321; 2400' MW 9.2, VIS 39, WL 9.8, LCM 2#. Short trip @ 2576' before Viola Zone.

05/09/2013- Circ @ 2610'. DD to 2624' and run DST #1. MW 9.4, VIS 51, WL 8.2, LCM 2#.

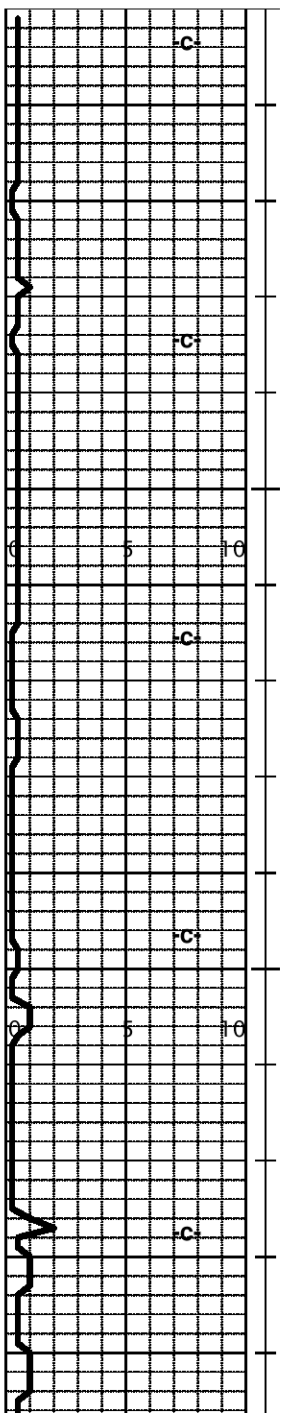
05/10/2013- TD @ 2634' after DST #2.

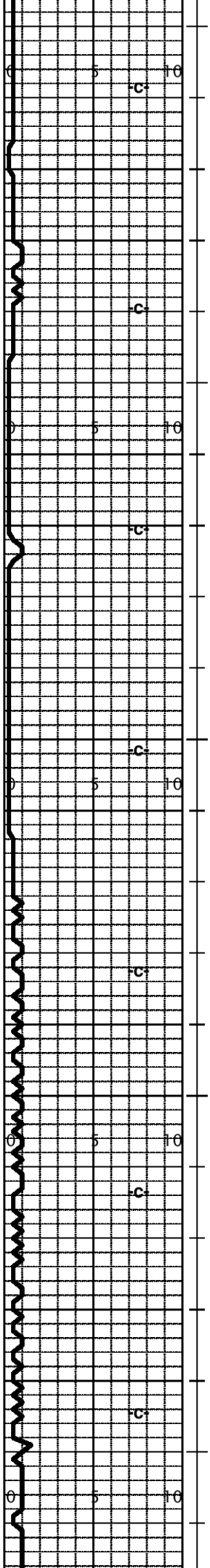
CASING JOB: Ran 64 jts of 5 1/2" 15.5#/ft J-55 LT&C casing, Tally = 2627.65, Packer shoe = 2.50, Total = 2630.15'. Tagged TD @ 2634;, Set @ 2627'. Put on 6 centralizers and 1 basket. Circ mud for 20 min, Set packer shoe @ 1050#, Circ mud for 20 min. Consolidated Services: pump 500 gal mud flush. Cemented with 125 sx Thickset Cement. Caught pressure @ 31 bbl, Good circ of mud. Lift pressure to 700#, Land plug @ 950# @ 8:40 PM. Release, it held. Set slips and cut off casing.

REMARKS:

** Cased hole E-log tops picked by P. Ramondetta, Geologist, VOC

Respectfully submitted,
Roger L. Martin, Geologist (Wellsite)

LITH	POROSITY	DRILLING TIME MIN/FT	DST	SAMPLE DESCRIPTION	REMARKS
				LS: tn-gy-wh, Pred dn- mx- fnx, prt chlky, Pr- NVP. NS.	**{DRILLING w/PDC BIT: KELLY DOWN SAMPLES}**
				SH: sm blk carb & dk Gy, Pred LS: AA & sm fnxln- mdxln w/Pr- Fr Por. (1366' spl)	
				LS: AA & tn-gy-wh, mx- fnx & dn, sm argil, Rr chlky, Pr- NVP. NS. (1397' spl)	
				LS: dk tn-gy-bn, dn hd- mx- fnx, sm argil, VPr- NVP, NS. Shrp Incrs SH: dk gy & blk carb & gn-gy, sm pyrtc. (1428' spl)	
				SH: Pred gy-blk, & LS: (>70%) tn-gy-wh, sm mot, Pred dn Mdst, sm argil, prt chlky, sm mx- fnx, VPr- NVP, NS. (1459' spl)	
				sm Sl Cherty LS: tn-gy-wh, Pred dn Mdst, sm mx- Mdxln, Pred Pr- NVP, NS.	



Pred SH: gn-gy & sm blk carb- Vcarb. (1490' spl)

Incrs LS: wh-tn, mx- fnx, prt chlky, prt dn, Pred Pr- NVP, NS. (1521' spl)

Shrp Incrs SH: (>80% SH) Pred dk gy, sm micac, sm pyrtc, sm lt gy, sndy Silts & silty Vfn Gr'd Sd Clust w/NS. (1552' spl)

VAbndt SS- SD CLUST: lt-md gy, sm gy-wh, Vfn Gr'd, silty & sm Vfn- fn Gr'd, Pred well cmt'd, Sl calc, sm fribl w/Fr- Gd Por, NS. NF. NC. sm micac, Pred silty, sm shly & SILTS: gy & gn-gy, sm sndy, micac. (1585' spl)

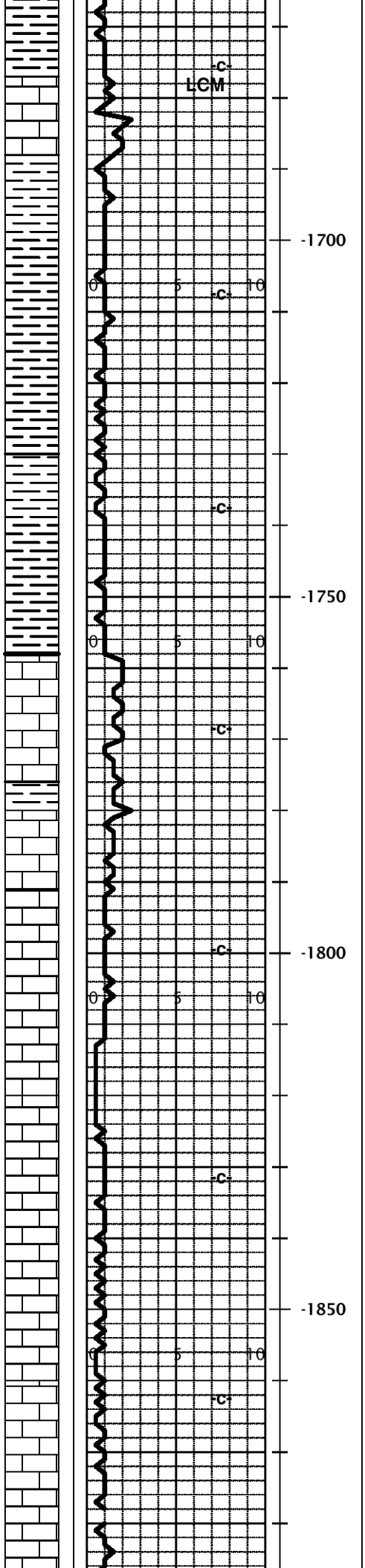
SS- SD CLUST: (>30% Sd Clust) AA, Incrs Vfn- fn Gr'd, fribl w/Fr- Gd Por, NS. NF. NC.
SILTS: AA & SH: dk-md gy, micac.

Pred SH: dk-md gy & blk, sm micac, Rr pyrtc.
SILTS: AA, Trc Sd Clust, AA. NS. (1645' spl)

SH: (~50% SH) AA, gy-blk & gn-gy, sm blk carb. (1676' spl)

Abndt LS: (~50% LS) tn-wh, Pred mot, mx- fnxln, Rr prt Mdx- crsx- 2nd ReX, sm Pkst, sm chlky, Pr- NVP, NS. (1676' spl)

Pred SH: gn-gy, pyrtc & Silts & blk carb SH. (1708' spl)



LS: gy-tn, dn Mdst, cryptox- Vfnxln, VPr- NVP. (1708' spl)

{Losing mud volume- Mix Mud & LCM}

LS: (~10%) gy-bn, dn- mx, Mdst w/ NVP.
Pred SH: gy-blk, sm carb & lt- dk Gy.
SILTS: lt- dk gy, micac. (1738')

SH: Pred dk gy, sm micac. (1769' spl)

1758' (-428)
LANSING

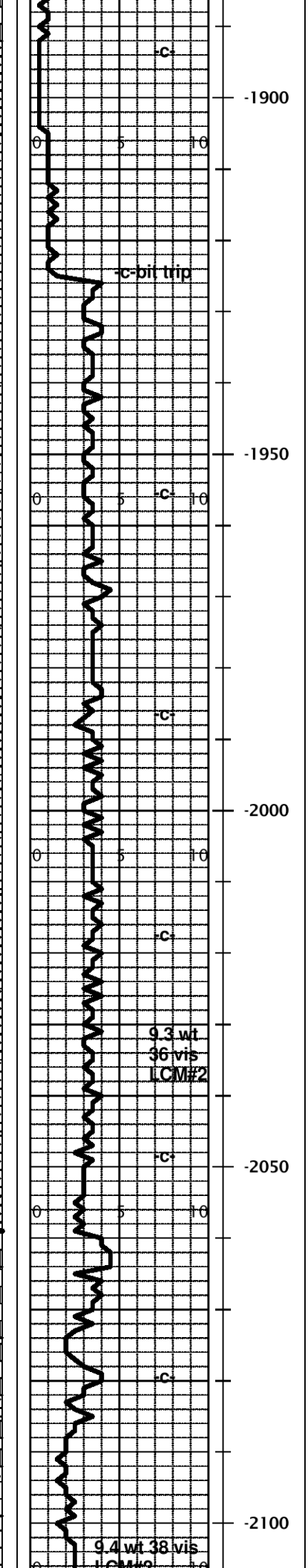
{LANSING} VAbndt (>95%) LS: tn-gy-wh, mx- fnx, VRr Mdx- VcrsX's- 2nd ReX, Pred dn, sm chlky, Pr- NVP, NS. (<5% gn-gy SH & blk carb).

LS: tn-gy-wh, sm mot, mx- fnx, VRr Mdx- VcrsX's- 2nd ReX, sm fos Pkst, sm chlky, sm Pr- Fr IX Por, NS. (1832' spl)

LS: tn-wh, sm mx- fnxln, VRr Mdx- crsX's- 2nd ReX, sm grnlr Pkst, Pr- Fr Por, Trc Gd Por, NS. Abndt dn to chlky LS w/VPr- NVP, NS.

LS: tn-gy-wh, Pred dn- mx- fnx, VRr prt Mdx, sm 2nd ReX, sm chlky, Pred Pr- NVP, NS. (1894' spl)

LS: tn-wh, Pred dn- mx- fnx- 2nd ReX, Rr mot Pkst, Rr chlky, Sl Cherty. VPr- NVP, NS. (1925' spl)



Pred LS AA, Rr SILTS: gn-gy, micac, sm calc & gn-gy SH. (1935' spl)

~30% LS: AA, VRr prt Mdx- VcrsX's- 2nd ReX, NS. VAbndt SILTS- SH: gn-gy, micac, sm sndy, Vfn Gr'd, sm pyrtc.

>90% SH & SILTS: AA.

{10' samples @ 1950'}

MUD CHECKS by FUD MUD: WT 9.2+, VIS 36 PV 26, YP 16 WL 10.8, pH 8.5 Cl 900, LCM 1#

SH- SILTS: dk-lt gy, micac, sm pyrtc, sm calc. (1960' spl)

SH- SILTS: dk-lt gy, sm micac. (1970' spl)

SH: dk-lt gy & gn-gy, sm micac. (1980' spl)

SH: >95% SH: AA. (1990' spl)

SH: gy-blk. (2000' spl)

SH: gy, sm pyrtc, sm calc, sm micac.

SH: gy-blk & gn-gy, Rr pyrtc.

SH: Pred dk gy.

SH: AA, VRr pyrtc.

SH: AA, Trc LS.

SH: gy-blk, Rr pyrtc. (2060' spl)

~50% SH: gy-blk & gn-gy. (2070' spl)

2059' (-729)
KANSAS CITY

{KANSAS CITY} LS: ~50% tn-gy-wh, sm mot, Pred dn- mx- fnx, Rr Pkst, VPr- PR Por, NS. (2070' spl)

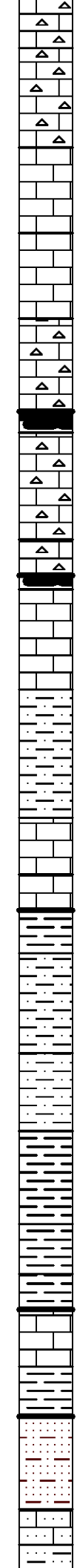
LS: lt tn-gy-wh, mx- fnxln, sm Pkst, sm Fr- Gd vug Por, NS. sm chlky. (2080' spl)

LS: gy-tn-wh, Rr mot, ool- Vool Pkst w/Pr- Fr Por, Pred dn- Pr Por, NS. (2090' spl)

Incrs SH: gn-gy & blk & LS: AA.

LS: cm-tn-gy, mot Pkst, mx- fnx, Trc FLR- STN, NC, NFO. Rr Mdx- crsX's- 2nd ReX, sm chlky. CHERTY: lt gy-tn- cm-wh, blu-gy, shrp, opq. (2110' spl)

LS: tn-wh, Pred dn- chlky, sm mx- fnx, sm Pkst, VPr- NVP, NS, Sl Cherty, NS. (2120' spl)



LS: AA, Incrs chlky, NS. (2130' spl)

LS: tn-gy-wh, sm mot Pkst, sm mx- fnx, prt chlky, Pr- Fr Por: pp- vug Por, NS. (2140' spl)

LS: AA & tn-gy, dn Mdst & Wkst, VPr- NVP, NS. Incrs SH: blk carb & gn-gy. (2150' spl)

LS: tn-wh, Pred dn, sm mot Pkst, Sl Cherty: gy, shrp, opq, sm shly- argil LS w/blk SH. (2160' spl)

{STARK} SH: Abndt gy-blk subcarb- blk Vcarb.

2164' (-834)
STARK SHALE

LS: tn-wh, pred dn- mx- Rr fnxln, CHERTY: cm-bf-gy, shrp, Rr mFrc & IX Por w/trc brt FLR, NFO, NC. (2170 & 2180' spl)

LS: AA, Incrs chlky, Trc vug Por, Trc FLR, NFO, Sl Cherty. (2190' spl)

Incrs SH: Pred blk carb-Vcarb, sm gn-gy.
LS: tn-gy-wh, sm mot Pkst- Wkst w/VPr- Pr Por w/NS. sm chlky, sm argil- shly, NS. (2200' & 2210' spls)

VAbndt SILTS: gn-gy, sndy, calc & silty. SD CLUST: lt-dk gn-gy, Vfn Gr'd, calc, VPr- Pr Por, NS. SH: gy-blk. (2220' spl)

LS: tn-gy-wh, mot Pkst, sm fos & ool, sm fnxln- Mdx, sm prt chlky, sm argil, NS. (2230' spl)

LS: dn & argil Mdst- Wkst. (2240' spl)

2234' (-904)
BASE KANSAS CITY

{BASE KANSAS CITY} VAbndt SH- SILTS: Pred dk gy-blk, sm carb & sm calc & lmy. Rr LS: gy- blk, dn- cryptox-mx. (2250' spl)

SILTS- SH: AA, blk-gy, sm calc & lmy, micac. (2260' spl)

SH- SILTS: AA. (2270' spl)

SH: gy-blk, sm carb, sm pyrtc. (2280' spl)

SH: Pred dk gy-blk, sm carb. (2290' spl).

SH: AA, Incrs blk carb, sm gn-gy. (2300' spl)

2290' (-960)
CHECKERBOARD

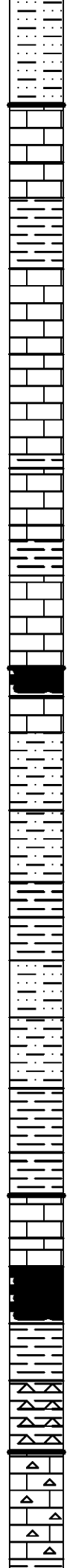
{CHECKERBOARD} LS: tn-wh, dn- chlky, mx- VcrsX's-2nd ReX, sm argil- shly. (2300' spl)

Pred SH: gn-gy-blk, sm carb. (2310' spl)

2305' (-975)
HEPLER SD

{HEPLER} SS- SD CLUST: (~20%) Silty lt gy & gn-gy, Vfn- fn Gr'd, rnd'd- anglr, sm Sl calc, well cmt'd- fribl w/Pr-Fr Por, NS, NF, NC. (2320' spl)

Sdy LS: tn-wh & gn-gy, fn- md Gr'd, Pr Por & calc- lmy Sd Clust. NS. (2330' spl)



SH: gy- blk & SILTS: gn-gy. (2340' spl)

{ALTAMONT} LS: tn-gy, dn hd- cryptox- mx Mdst. (2350' spl)

2341' (-1011)
ALTAMONT

LS: tn-wh, pred dn Mdst, Rr chlky, VPr- NVP. (2360' spl)

SH: gy-blk & blk carb- Vcarb. (2370' spl)

LS: tn-bn-gy-wh, mot, sm Pkst, sm argil- shly, sm fos, sm Vargil- shly & SH: gy-blk carb. (2380' spl)

LS: tn-wh, pred dn- chlky, sm Pkst, Pr- NVP, NS. (2390' spl)

sm SH: gn-gy & blk carb. Abndt LS: gy-tn, dn Mdst, sm argil, VPr- NVP, NS. (2400' spl)

LS: AA & SH: blk carb & dk gy. (2410' spl)

LS: tn-gy, dn Mdst, sm chlky, sm mx- fnx, VPr- NVP. (2420' spl)

WT 9.2+, VIS 39
PV 30, YP 20
WL 9.8, pH 9.0
Cl 800, LCM 2#

2420' (-1090)
CHEROKEE

{CHEROKEE} SH: blk carb- Vcarb & gn-gy. (2430' spl)

LS: gn-gy dn Mdst, argil.

SILTS- SH: dk-lt gn-gy, sm micac & pyrtc. (2440' spl)

SILTS: gn-gy & SH: AA. (2450' spl)

Incrs SH: gy-blk & gn-gy. (2460' spl)

SH: gy-blk subcarb. (2470' spl)

Abndt SILTS: lt-dk gy, sndy & calc. & Silty SD CLUST: Vcalc, VPr- Pr Por, NS. (2480' spl)

SH: blk & dk gy, micac, sm blk carb. (2490' spl)

SH: AA & ~40% Ardmore LS. (2500' spl)

2494' (-1164)
ARDMORE

{ARDMORE} LS: tn-gy, dn- mx, sm blk carb SH.

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

SH: blk carb w/ sm coal & carb Silts.

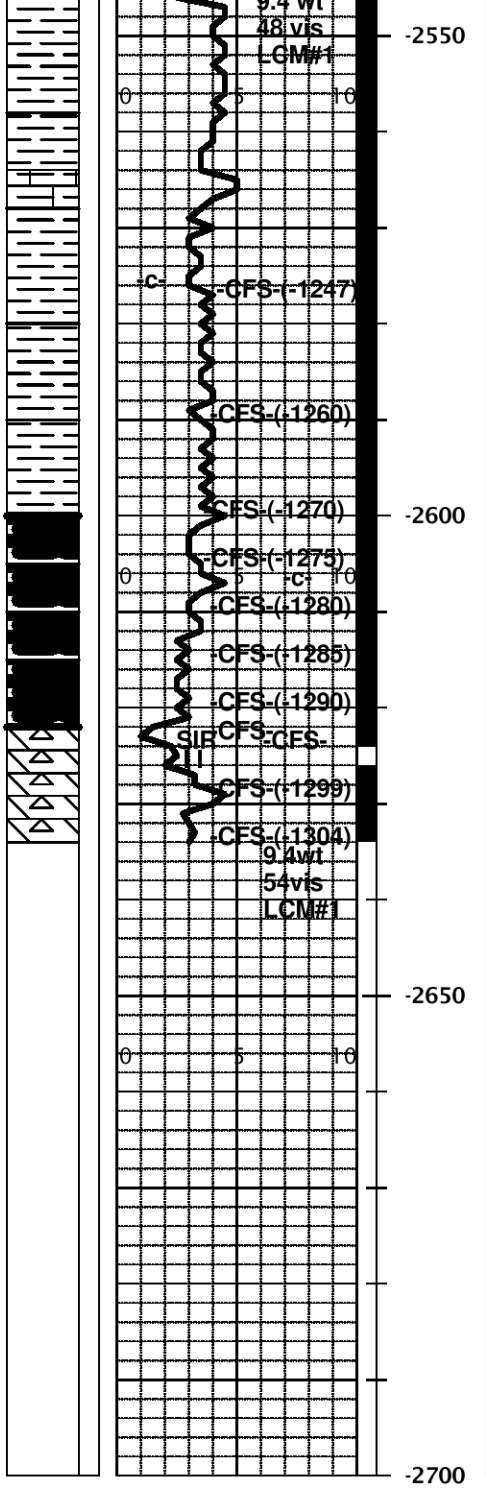
SH: lt-dk gn-gy, sm pyrtc.

SH: VC & ~10% CHERT: VC, orng-rd-tn-gy, shrp, frsh- Sl wthr'd. (2540' spl)

DST #1 VIOLA
2501'-2624'
30-45-45-60
1st Op: 1/4" blo
blt to 3" in 30 min
No BB
2nd Op: WSB,
blt to 2.75"

{MISSISSIPPIAN} LS: (>90%) gy-tn-wh, Pred dn Mdst & mx- fnx, sm prt chlky, sm Sl argil, VPr- NVP, NS. (2550' spl)

Pred SH: (~70%) dk-lt gn-gy, sm prt mrn. (& LS: AA)



(2560' spl)

~90% SH: AA, ~10 % LS: gy-bn-tn, mx- Vfnxln, dn & argil. (2570' spl)

SH: dk gy-blk carb & pyrtc. (2576' Circ Spl)

SH: AA, Pred gy-blk, sm blk carb, sm gn-gy.

SH: gy- blk, subcarb, Vpyrtc, Abndt pyrtc in 2600' spl. (40 min circ spl)

{CHATT/WOODFORD} SH: dk gy-bn-blk carb & dolomc.

SH: AA, sm Sl pyrtc.

SH: Pred dk gy- bn & blk subcarb.

SH: AA, sm phos, Sl pyrtc.

{VIOLA} (2623' 20 min spl} <5% VIOLA- ~3% DOLO: cm-bf w/ lt Tn STN & brt yel-gld FLR, mx- Vfnxln- sucro & grnlr, sm pyrtc, Fr- Gd Por: mIX Por, mIGr Por, pp Por w/subsat- sat brt FLR & STN, Fr- Gd SFO, Fr- Gd Cut, Pred lt Tn Sl Gsy F.Oil- sm 'semisqr' & filmy F.Oil, <2% CHERT: wh-gy-bf, sm shrp, Sl wthr'd, sm wthr'd- Triplc w/Pr-Fr Por: IGr Por, vug Por, mFrc's, sm spt'd FLR & SFO-STN-Cut, Frly Strng Odor. (2624' 20 min spl} Shrp incrs (~70%) VIOLA- ~20% DOLO: cm-tn- STN, mx-Vfnxln, sucro & grnlr, sm pyrtc, Fr- Gd Por: IX Por, IGr Por, pp- vug Por, subsat- sat brt FLR & lt Tn STN, Fr- Gd SFO, sm Sl Gsy, sm smisqr F.Oil, Fr- Gd Cut, Frly Strng Odr; VAbndt CHERT: sm dolomc & Silic, VCherty DOLO: cm-bf-gy, sm mot, pyrtc, grnlr, wthr'd Chert, sm dolomc, Pr- VPr visbl Por: IGr Por, IX Por, mFrc Por, sm spt'd brt FLR & STN, SFO & Cut, Frly Strng Odor.(2629' 20 min spl} ~90% VIOLA, Pred silic DOLO: cm-tn, mx- dn, VCherty & dolomc Chert w/Pred VPr- Pr visbl Por: IX Por, pp Por, mFrc Por w/spt'd- subsat FLR & lt STN, Sl SFO & Cut; ~10% sucro & grnlr DOLO: cm-tn, mx- Vfnxln, Fr-Gd IX Por w/subsat- sat brt FLR & lt Tn STN, Fr- Gd SFO & Cut, Frly Strng Odor, wthr'd- Triplc & dolomc Chert w/Fr- Gd Por- STN- FLR- SFO- Cut. (2634' 20 min spl} ~70% DOLO w/sat STN, mx- Mdxln, Pred Vfn- fnxln sucro, Rr prtly Mdxln, Fr- VGd Por: IX Por, vug Por w/ Abndt sat Rich Tn-bn OSTN & FLR w/Gd SFO- Gsy & Strng Odor.

2621' (-1291)
VIOLA
{Fr- Gd SFO)

2634' (-1304)
RTD
WT 9.4+, VIS 51
PV 34, YP 24
WL 8.2, pH 9.0
Cl 900, LCM 2#

VESS OIL CORP
KOOGLER S#107
330' FSL & 5' FEL
Sec 30-26S-5E
BUTLER CO., KS
API#15-015-23971

in 45 min

Rec: 95' Ospk M
TOOL SPL:
100% M w/
Ospks
IHP: 1219
IFP: 8-29
ISIP: 439
FFP: 31-55
FSIP: 438
FHP: 1205
BHT: 103 F

DST #2 VIOLA
2626'-2634'
30-45-45-60
1st Op: BOB
in 43 sec
No BB
2nd Op: blt to
4.5" (static)
No BB.
Rec: 1139' TF:
31' GIP
186' CO
(33.5 grav)
91' SIOMCW
(8%O,26%M
66%W)
682'SIOCMW
(2%O,12%M
86%W)
180'SIOMCW
(2%O,12%M
86%W)
TOOL SPL:
2%O,97%W
1%M
Cl: 21,000 ppm
IHP: 1270
IFP: 114-490
ISIP: 490
FFP: 488-498
FSIP: 500
FHP: 1262
BHT: 106 F

DIAMOND TESTING

DIAMOND TESTING
ROGER D. FRIEDLY - TESTER
CELL 620-793-2043

Company Name	Vess Oil Corp.
Contact	Casey Coats
Well Name	Koogler S #107
Unique Well ID	DST #1 Viola 2501-2624'
Surface Location	SEC 30-26S-5E Butler County
Field	El Dorado

Field El Dorado

Test Information

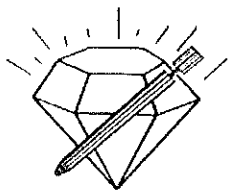
		Job Number	S0326
		Test Unit	3
		Representative	Jacob McCallie
		Well Operator	Vess Oil Corp.
		Report Date	2013/05/09
Test Type	Drill Stem Test	Prepared By	Jacob McCallie
Formation	DST #1 Viola 2501-2624'	Qualified By	Roger Martin
Test Purpose	Initial Test		
Well Fluid Type	01 Oil		
H2S			
Start Test Date	2013/05/09	Start Test Time	14:14:00
Final Test Date	2013/05/09	Final Test Time	22:32:00

Remarks

RECOVERED:

	5'	SLOSM	100% M (oil specks)
DC	90'	SLOSM	100% M (oil specks)
	95'	TOTAL FLUID	

TOOL SAMPLE:
100% M (oil specks)



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: kooglers107DST1

TIME ON: 14:14:00
TIME OFF: 22:32:00

Company Vess Oil Corp. Lease & Well No. Koogler S #107
Contractor C&G Rig #1 Charge to Vess Oil Corp.
Elevation 1330 KB Formation Viola Effective Pay Ft. Ticket No. SO326
Date 5-9-13 Sec. 30 Twp. 26 S Range 5 E W County Butler State KANSAS
Test Approved By Roger Martin Diamond Representative JACOB MCCALLIE

Formation Test No. 1 Interval Tested from 2501 ft. to 2624 ft. Total Depth 2624 ft.
Packer Depth 2496 ft. Size 6 3/4 in. Packer depth ft. Size 6 3/4 in.

Packer Depth 2501 ft. Size 6 3/4 in. | Packer depth ft. Size 6 3/4 in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 2482 ft. | Recorder Number 8471 Cap. 10000 P.S.I.

Bottom Recorder Depth (Outside) 2621 ft. | Recorder Number 3851 Cap. 5700 P.S.I.

Below Straddle Recorder Depth ft. | Recorder Number Cap. P.S.I.

Mud Type CHEMICAL Viscosity 51 | Drill Collar Length 89 ft. I.D. 2 1/4 in.

Weight 9.4 Water Loss 8.2 cc. | Weight Pipe Length 0 ft. I.D. 2 7/8 in

Chlorides 900 P.P.M. | Drill Pipe Length 2379 ft. I.D. 3 1/2 in

Jars: Make STERLING Serial Number 3 | Test Tool Length 33 ft. Tool Size 3 1/2-IF in

Did Well Flow? NO Reversed Out NO | Anchor Length 123 (35p) ft. Size 4 1/2-FH in

Main Hole Size 7 7/8 Tool Joint Size 4 1/2 4 FH in. | Surface Choke Size 1 in. Bottom Choke Size 5/8 in

Blow: 1st Open: 1/4" Blow- Built to 3" in 30 min NOBB

2nd Open: WSB- Built to 2 3/4" in 45 min NOBB

Recovered 5 ft. of SLOSM 100% M (oil specks)

Recovered DC 90 ft. of SLOSM 100% M (oil specks)

Recovered 95 ft. of TOTAL FLUID

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

TOOL SAMPLE: 100% M (oil specks)

Price Job	
Other Charges	
Insurance	
Total	

Time Set Packer(s) 4:33 PM A.M. P.M. Time Started Off Bottom 7:33 PM A.M. P.M. Maximum Temperature 103

Initial Hydrostatic Pressure ..... (A) 1219 P.S.I.

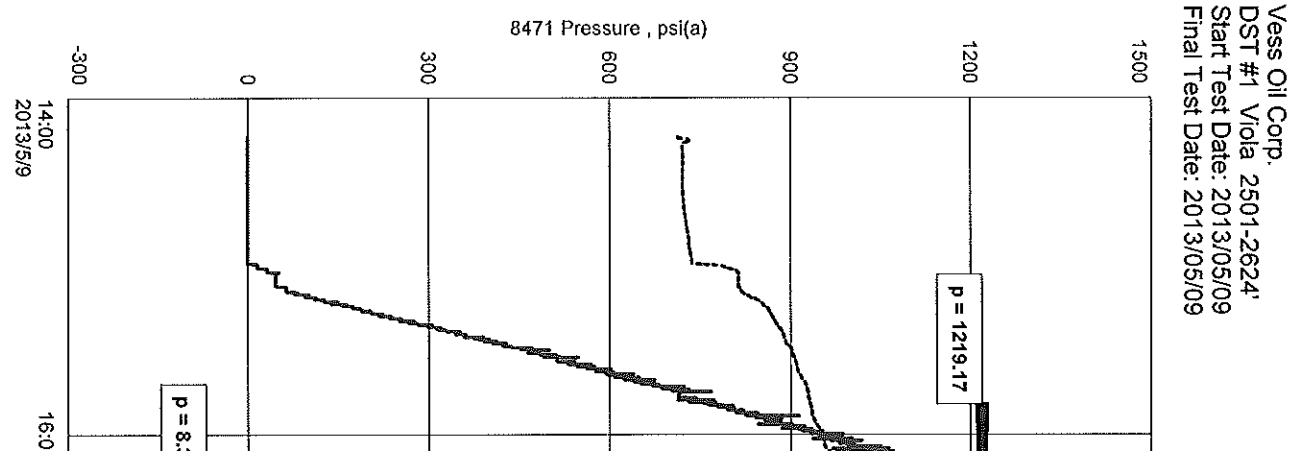
Initial Flow Period ..... Minutes 30 (B) 8 P.S.I. to (C) 29 P.S.I.

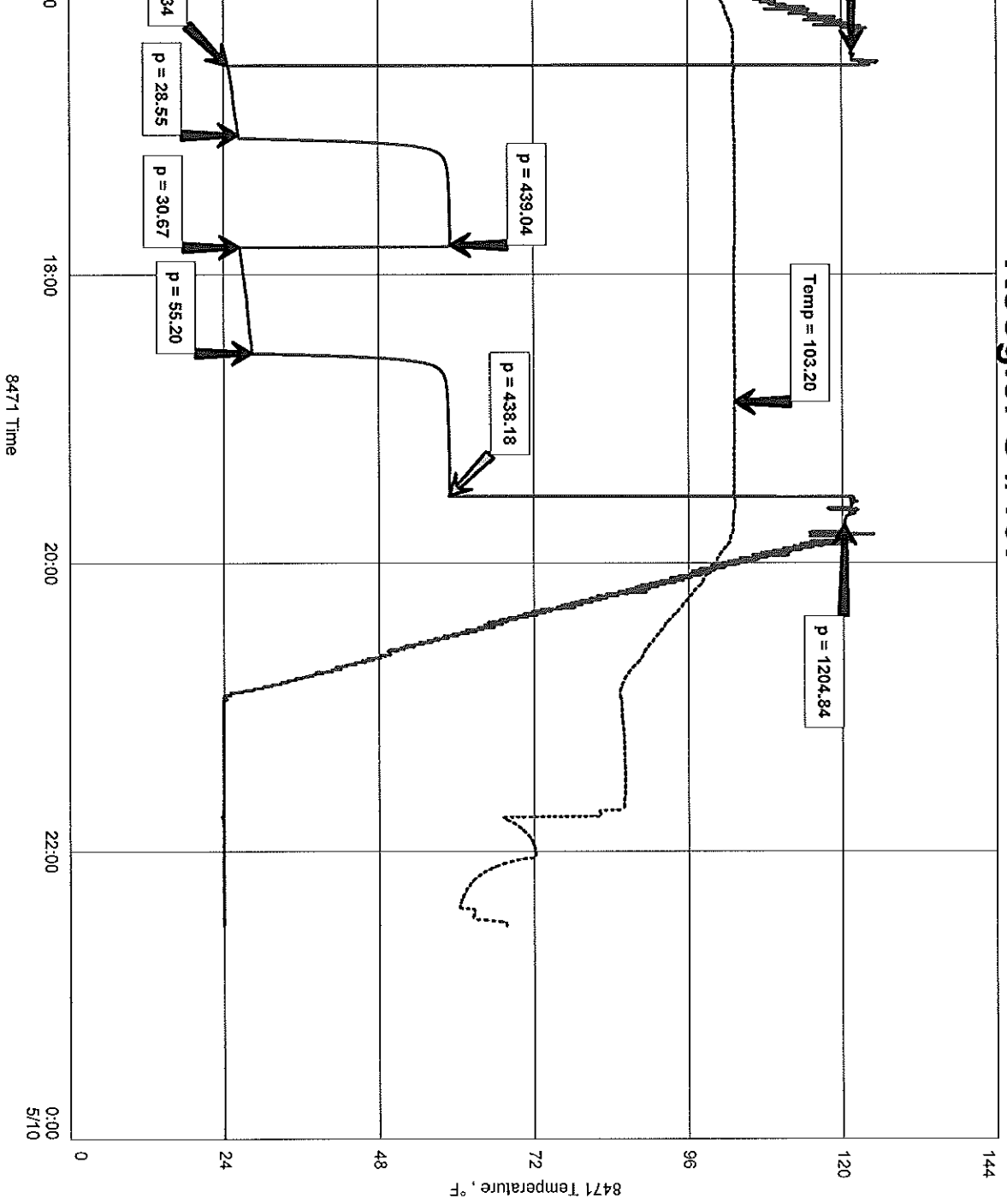
Initial Closed In Period ..... Minutes 45 (D) 439 P.S.I.

Final Flow Period ..... Minutes 45 (E) 31 P.S.I. to (F) 55 P.S.I.

Final Closed In Period ..... Minutes 60 (G) 438 P.S.I.

Final Hydrostatic Pressure ..... (H) 1205 P.S.I.





Fast

DIAMOND TESTING

DIAMOND TESTING
ROGER D. FRIEDLY - TESTER
CELL 620-793-2043

Company Name	Vess Oil Corp.
Contact	Casey Coats
Well Name	Koogle S #107
Unique Well ID	DST #2 Viola 2626-2634'
Surface Location	SEC 30-26S-5E Butler County

Field	Eldorado		

Test Information

		Job Number	S0327
		Test Unit	3
		Representative	Jacob McCallie
		Well Operator	Vess Oil Corp.
		Report Date	2013/05/10
Test Type	Drill Stem Test	Prepared By	Jacob McCallie
Formation	DST #2 Viola 2626-2634'	Qualified By	Roger Martin
Test Purpose	Initial Test		
Well Fluid Type	01 Oil		
H2S			
Start Test Date	2013/05/10	Start Test Time	05:51:00
Final Test Date	2013/05/10	Final Test Time	14:20:00

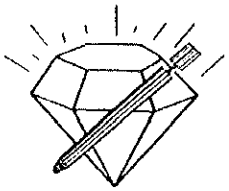
Remarks

RECOVERED:

	31'	GIP		
	186'	CO	100% O	GRAVITY: 33.5 @ 60 degrees F
	91'	SLOCMCW	8% O 66% W 26% M	
	682'	OSSLMCW	2% O 86% W 12% M	
DC	180'	OSSLMCW	2% O 86% W 12% M	
	1139'	TOTAL FLUID		

PH: 7
RW: .25 @ 78 degrees F
Chlorides: 21,000 ppm

TOOL SAMPLE:
2% O 97% W 1% M



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: kooglers107DST2

TIME ON: 05:51
TIME OFF: 14:20

Company Vess Oil Corp. Lease & Well No. Koogler S #107
Contractor C&G Rig #1 Charge to Vess Oil Corp.
Elevation 1330 KB Formation Viola Effective Pay Ft. Ticket No. SO327
Date 5-10-13 Sec. 30 Twp. 26 S Range 5 E W County Butler State KANSAS
Test Approved By Roger Martin Diamond Representative JACOB MCCALLIE

Formation Test No. 2 Interval Tested from 2626 ft. to 2634 ft. Total Depth 2634 ft.

Packer Depth 2621 ft. Size 6 3/4 in. Packer depth ft. Size 6 3/4 in.

Packer Depth 2626 ft. Size 6 3/4 in. Packer depth ft. Size 6 3/4 in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 2607 ft. Recorder Number 8471 Cap. 10000 P.S.I.

Bottom Recorder Depth (Outside) 2631 ft. Recorder Number 3851 Cap. 5700 P.S.I.

Below Straddle Recorder Depth ft. Recorder Number Cap. P.S.I.

Mud Type CHEMICAL Viscosity 51 Drill Collar Length 178 ft. I.D. 2 1/4 in.

Weight 9.4 Water Loss 8.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in

Chlorides 900 P.P.M. Drill Pipe Length 2415 ft. I.D. 3 1/2 in

Jars: Make STERLING Serial Number 3 Test Tool Length 33 ft. Tool Size 3 1/2-IF in

Did Well Flow? NO Reversed Out NO Anchor Length 8 ft. Size 4 1/2-FH in

Main Hole Size 7 7/8 Tool Joint Size 4 1/2 4 FH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in

Blow: 1st Open: 7 1/2" Blow- Built to BB in :43 seconds NOBB

2nd Open: 1/2" Blow- Built to 4 1/4" in 45 min NOBB

Recovered 31 ft. of GIP

Recovered 186 ft. of CO 100% O GRAVITY: 33.5 @ 60 degrees F

Recovered 91 ft. of SLOCMCW 8% O 66% W 26% M

Recovered 682 ft. of OSSLMCW 2% O 86% W 12% M

Recovered 180 ft. of OSSLMCW 2% O 86% W 12% M

Recovered 1139 ft. of TOTAL FLUID

Remarks: PH: 7 RW: .25 @ 78 degrees F CHLORIDES: 21,000 ppm

TOOL SAMPLE: 2% O 97% W 1% M

Price Job	
Other Charges	
Insurance	
Total	

Time Set Packer(s) 7:48 AM A.M. P.M. Time Started Off Bottom 10:48 AM A.M. P.M. Maximum Temperature 106

Initial Hydrostatic Pressure ..... (A) 1270 P.S.I.

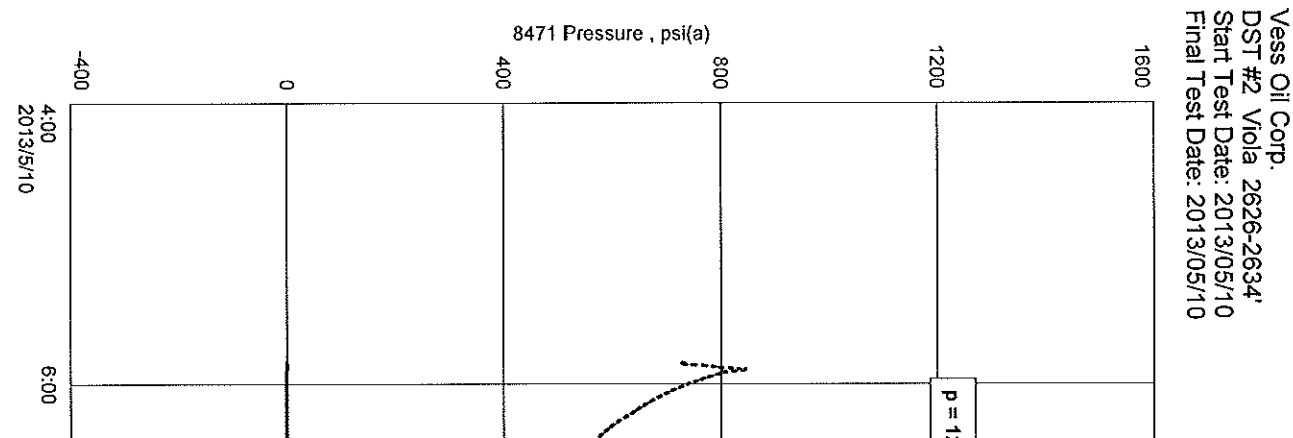
Initial Flow Period ..... Minutes 30 (B) 114 P.S.I. to (C) 490 P.S.I.

Initial Closed In Period ..... Minutes 45 (D) 497 P.S.I.

Final Flow Period ..... Minutes 45 (E) 488 P.S.I. to (F) 498 P.S.I.

Final Closed In Period ..... Minutes 60 (G) 500 P.S.I.

Final Hydrostatic Pressure ..... (H) 1262 P.S.I.



Koogle S #107
Formation: DST #2 Viola 2626-2634'
Pool: Infield
Job Number: S0327

Koogle S #107