

# GEOLOGICAL REPORT

Vess Oil Corporation

Wilson A #438

Production Dept.  
File Copy

330' FNL & 2565' FEL Section 8-T25S-R5E

Butler County, Kansas

COMMENCED: 11-15-11

STATUS: Oil

COMPLETED: 11-20-11

A.P.I. #: 15-015-23926

CONTRACTOR: C & G Drilling, Inc.

OPERATOR LIC.: 5030

SIZE OF HOLE: 7 7/8"

FIELD: El Dorado

SURFACE PIPE: 253' 8 5/8"

ELEVATION: 1389 K.B.

CEMENTED WITH: N/A

LOGS: CNL/CDL, DIL, MEL

LONG STRING: 2439' 5 1/2"

MUD SYSTEM: Chemical

CEMENTED WITH: N/A

OTHER:

R.T.D.: 2450'

*Will - Stout  
11-21-11*

William M. Stout  
Geologist

## FORMATION TOPS

1383 G.L. 1389 K.B.

	Sample	LOG
Burlingame	841 +548	838 +551
White Cloud	933 +456	932 +457
Topeka	1094 +295	1093 +296
Oread	1400 -11	1401 -12
Heebner	1441 -52	1438 -49
Lansing	1713 -324	1713 -324
Kansas City	1990 -601	1988 -599
Base Kansas City	2159 -770	2156 -767
Cherokee	2353 -964	2350 -961
Viola	2439 -1050	2437 -1048
Total Depth	2450 -1161	2449 -1160

## SAMPLE SHOW DESCRIPTIONS

Burlingame 841' (+548)

847' - 858'

Limestone - light brown, off white, fine crystalline, cherty, scattered pure calcite crystals, trace with light stain, no odor, no show free oil, scattered intercrystalline porosity.

White Cloud 933' (+456)

940' - 955'

Sandstone - light gray, light brown, fine grain, micaceous, some argillaceous, fair odor, scattered stain, show free oil, poor porosity, fair scattered fluorescence.

1050' - 1062'

Sandstone - light brown, fine grain, micaceous, no odor, scattered stain, show free oil, scattered fluorescence, poor porosity.

Topeka 1094' (+295)

1149' - 1155'

Limestone - light brown, fine crystalline, fossiliferous, some dense, no odor,

Sandstone - light gray, light brown, blue gray, blue, blue-gray, white, light gray, tan  
odor, scattered stain, show free oil, poor porosity, fair scattered fluorescence.

1050' - 1062'

Sandstone - light brown, fine grain, micaceous, no odor, scattered stain, show  
free oil, scattered fluorescence, poor porosity.

Topeka 1094' (+295)

1149' - 1155'

Limestone - light brown, fine crystalline, fossiliferous, some dense, no odor,  
brown stain, slight show free oil, scattered intercrystalline and vugular porosity  
with fluorescence

Oread 1400' (-11)

1406' - 1414'

Limestone - light brown, brown, fine crystalline, few fossils, faint odor, brown  
stain, show free oil, scattered intercrystalline and vugular porosity with  
fluorescence.

Douglas Sand 1500' (-111)

1420' - 1434'

Sandstone - light brown, fine grain, calcareous, some argillaceous, friable in part,  
faint odor, brown stain, show free oil, poor porosity, fair to good fluorescence,  
with gray shale.

Lansing 1713' (-324)

1725' - 1731'

Limestone - light brown, fine to medium crystalline, some dense, few fossils,  
fair odor, scattered light stain, show free oil with few gas bubbles, scattered  
intercrystalline and vugular porosity with fluorescence.

1744' - 1752'

Limestone - light brown, brown, fine crystalline, fossiliferous, some dense,  
slightly chalky, faint odor, light stain, slight show free oil, scattered  
intercrystalline porosity with fluorescence.

1756' - 1766'

Limestone - light brown, fine crystalline, fossiliferous, some dense, some chalky,  
very faint odor, some stain, slight show free oil, poor intercrystalline porosity  
with spotty fluorescence.

1774' - 1781'

Limestone - light brown, light gray, fine crystalline, few fossils, chalky, some  
dense, faint odor, trace brown stain, slight show free oil, scattered vugular  
porosity with fluorescence.

Kansas City 1990' (-601)

2003' - 2008'

Limestone - light brown, fine crystalline, fossiliferous, chalky, scattered large  
calcite crystals, faint odor, scattered light stain, very slight show free oil, some  
intercrystalline porosity, spotty fluorescence.

2020' - 2034'

Limestone - light brown, fine crystalline, fossiliferous, fair odor, scattered light  
stain, slight show free oil, scattered intercrystalline porosity with few vugs,  
spotty fluorescence.

2048' - 2058'

Limestone - light brown, fine crystalline, fossiliferous, some chalky, very faint  
odor, very slight show live oil, scattered poor intercrystalline porosity, very  
spotty fluorescence.

Viola 2439' (-1050)

2442' - 2450'

Dolomite - brown, fine crystalline, sucrosic, some friable, strong odor, even  
brown stain, good show free oil, excellent fluorescence, intercrystalline porosity  
with few vugs, trace with mottled white chert. Covered by DST #1.

DST #1 2415' - 2450'

Open tool 30 min. with weak blow building to 9 inches into water. Close  
tool 45 min. Open tool 45 min. with weak blow building to 10.5 inches  
into water. Close tool 60 min. Recovered 90' clean gassy oil (10% gas,  
90% oil) 37 degree gravity corrected, 60' oil cut mud (10% oil, 90% mud),  
60' oil cut mud (5% gas, 15% oil, 80% mud), 60' oil cut mud (15% oil, 85%  
mud).

IFP 46-115#

ISIP 606#

HP 1193-1185#

Temp. 103 degrees

FFP 117-158#

FSIP 607#

into water. Close tool 60 min. Recovered 90' clean gassy oil (10% gas, 90% oil) 37 degree gravity corrected, 60' oil cut mud (10% oil, 90% mud), 60' oil cut mud (5% gas, 15% oil, 80% mud), 60' oil cut mud (15% oil, 85% mud).

IFP 46-115#      FFP 117-158#  
 ISIP 606#      FSIP 607#  
 HP 1193-1185#  
 Temp. 103 degrees

**CONCLUSIONS**

The decision was made to set 5 1/2" casing to further evaluate the shows of oil through perforations.

ING TIME IN MINUTES PER FOOT of Penetration Decreases		DEPTH	LITHOLOGY	SAMPLE DESCRIPTIONS	OIL SHOWS	REMARKS
5" 10" 15" 20" 25"		500	[Sandstone pattern]	LS Gy. Brn. Fx Fos. NWS, NS.		G.A. 1383 K.B. 1389
		50	[Sandstone pattern]	SAL. Gy Gy		
		50	[Sandstone pattern]	SAL. Gy SLKY, Sdy.		
		600	[Sandstone pattern]	SAL. SLKY Gy S/Sdy		
			[Sandstone pattern]	SAL. SLKY w/ls/ls. Red. Fx.		
			[Sandstone pattern]	SAL. SLKY Gy S/Sdy		
			[Sandstone pattern]	SAL. SLKY w/ls/ls. 2. Brn. W/M.		
			[Sandstone pattern]	F.Y. Fos. S/DM. NS, N.V.		
			[Sandstone pattern]	SAL. Gy Ben		

**LEGEND**

Anhydrite   
 Salt   
 Sandstone   
 Shale   
 Carb sh   
 Limestone   
 Ool. Lime   
 Chert   
 Dolomite

50

SA-GY W-67 w/LS-BRN. F.X. PAX  
DUBS. NS. NUP

SA-DKGY GY 4/5/67

SA-AR. LALL. AIG.

700

SS-GY F.G. MICH ARO. 15 PP  
w/5/67

SA-GY GRAY STAY w/3/LS-BRN. FX  
DUBS. POS. NS. PAX

50

SA-ARCY GY. w/LS-AR.

SA-GY DKGY 3/31/67 F.G. MICH  
DUBS. POS. NS. PAX

SS/SA-AR.

800

LS-BRN. F.X. POS. DUBS. NS.

LS-LC-BRN. F.X. NY POS. STONS  
NS. NUP

LS-AR. w/5/67

SA-DKGY GY.

50

LS-LC-BRN. OFFSHORE  
SOAK PUMP CHAIR SCHOOL. F.X. GRAY  
LS-SEN. N. ARO. NS FO. N. PAX  
SCOT. PAX

LS-AR. w/1/67

LS-LC-BRN. F.X. POS. DUBS. NS. NUP

SA-GY DKGY

SA-GY DKGY

900

SA-GY LS-GY 1/5/67

JOURLINGAME  
891 (7548)

900

50

1000

50

1100

50

SA-GY LK GY 7/5/64	SA-AM 5/14/54	SA-AM. W/HO LK-GY F-X POS. N.S. NOD	SA-GY MS. SAK 5/10/54 N.S. NOD	SS-LK-GY L. BEN. F-G. NOD. SILTS. FE. 000 R. SCAT. STN. SFO. FE. FE. FE. FE. FE. FE. FE.	SS-AM/5/5/64	SA-GY W/LG 5/5/54	SA-AM	LS-DE BEN. BEN. FX. ANZ. FEW POS. N.S. NOD OF SILTS.	LS-AM. W/5/5/64	SA-GY W/LS. GY BEN. FX. AGG. N.S. NOD	LS-BEN. FX. DIS. N.S. P.V.G. W/5/5/64	Silt. L.S. MA.	SA-GY AKG	SS-LK. BEN. F-G. MICH. N. 000 SCAT. STN. 5 P. W. SCAT. STN. P. W. W/5/5/64	LS-LK. BEN. F-X. L. N.S. N. S. NOD	SA-GY W/5/5/55- AM. W/5/5/64	SA-GY W/5/5/64	LS-OFF. W/H. LK. BEN. F-X POS. CART. STN. N.S. NOD	LS-LK. BEN. F-X POS. ANZ. S/ CART. N.S. SCAT. STN.	LS-AM.	SA-GY W/LS. AN.	LS-GY BEN. F-X. AGG. ANZ. POS. N.S. NOD	SA-GY AKG	LS-LK. BEN. F-X S/D. N.S. POS. N. 000 BEN. STN. S.S. O. SCAT. STN. W/5/5/64
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WHITE CLOUD LIME  
933 (+456)

WHITE CLOUD SAND  
946 (+443)

TOPDEKA  
1094 (+295)

0

0

0

0

50

LS-GY BEN. FX ACC LNS POS.  
 NS. NUP  
 SA-GY BK GY

LS-LI BEN. FIX S/DNS. POS.  
 N. DOR. BENEFIT. SSB. O.  
 SEAT. TX / NUP W/ FLOOR.

SA-GY BK GY

1200

LS-BEN. FX DNS. POS. NY.  
 NUP W/ SA-BLK

LS-H. BEN. LI. GY. FX. CARY STUB  
 NS. NUP

SA-GY BEN W/ SS. GY F.G. A.G.

50

LS BEN. LIBEN. F.N. POS DNS  
 N.E. NUP

LS-AM W/ SA-GY BK GY

LS-BEN FX LNS. POS. NS. NUP  
 W/ SA-GY BK GY

LS-LI BEN. FX. POS. GARY  
 S/DNS. NS. SEAT TX

LS-AA. W/ SA-GY BEN

1300

SA-GY BEN. S/304

LS-GY LEG. LIBEN. FX. POS.  
 DNS. S/MEG. NS. NUP

SA-BLK CAB. W/ SA-AA.

LS-LI GY LIBEN. FX. POS. S/DNS.  
 ARG. NS. P/B W/ SA-GY

LS-AA. W/ SA-AA. NUP

50

LS-LI BEN BEN. FX. POS. S/DNS  
 NS. SEAT TX

LS-BEN. FX POS. NS. EXE  
 W/ SS. GY F.G. NUP NY.

SS-H. GY UNFG. MCA. ARG. NS.  
 P/B W/ SA-GY

AA.

1400

SA-GY M-GY S/304

SA-AA

SA-AM W/ SA-BEN. FX POS.  
 DNS NS. NUP

LS-LI BEN. BEN. FX. POS. POS

OREAD  
1400(-11)

0

9

1400

SA-MD w/LS-BEN. F-X POS.  
DMS NS. NUP

LS-L. BEN. BEN. F-X. FEN POS  
F. ADOR. BEN. SP. SFO  
SCAT IX. NUGP w/ FLOR.  
AS-MA.

LS-L. BEN. H. GY. F-X. POS. CASE  
NS. EXD

SA-M. BUCK. CASE. W/ GY.

SA-M. GY. DREY. W/LS. K. GY. FX. POS  
NS. NUP

AS-L. BEN. UPT. CASE. DMS.  
NS. NUP

SA-M. GY. LOREN. SAY. TO SS. H. GY. FID  
AGE. CASE. NUP. POS

SA-L. KS-AA.

SA-M. GY. BEN. SAY. W/LS. H. BEN.  
BEN. F-X. DMS. NS. NUP

SS-L. GY. G. FG. M. N. P. ADG.  
S/ C. H. C. NS. NUP w/ S. H. GY

SS-L. SA-AM.

SS-AM. W/LS. N. GY. SAY

SA-M. GY. DR. GY. SAY. W/LS-AA.

SA-AA.

SA-M. GY. AK. GY. SAY

AS-BEN. F-X. POS. ANS. NS.  
NUP w/ S. H. GY.

SS-AA. BEN. F. G. CASE. 2. H. GY.  
F. IA. M. PL. F. G. ADOR. BEN. SAY  
SFO. P. P. F. G. FLOR.  
w/ S. H. GY

SS-AM. W/ INC. SAY. GY

AS-L. BEN. BEN. F-X. POS. DMS.  
NUP. P. P. P. TO SS-AA.

SS-MA. W/LS. H. GY. COM. SAY

50

1500

50

1600

50

OREAD  
1400 (-11)

HEEBNER  
1441 (-52)

DOUGLAS  
1469 (-80)

LOST. CIRC. @ 1555

JATAN  
1643 (-254)



20

15-21 BEN. BEN. F-X POS. DNS.  
 203. NVP to 55 AM  
 15-22 W/STAGY COM. SBY  
 5-23 M-67 5/5BY  
 5-24 M-67  
 5-25 A.A.

7:00 AM 11-18-11

1700

LANSING  
1713(-324)

15-26 BEN. BEN. F-X POS. DNS.  
 S/C KEY N.E. AUG 2/1/84  
 15-27 BEN. F-M-X S/DNS. FANFB  
 FF. FR. PAOR. SCAT. EX. STN. 5500  
 W/FLOR. SCAT. EX. 1/0000  
 15-28 A.A. WOOD. DNS. W/STAGY

50

15-29 BEN. BEN. F-X POS. DNS.  
 SW. CRK. F. POS. STN. 5500  
 SCAT. EX. 1/0000  
 15-30 BEN. F-X POS. STN. 5500  
 S/C KEY F/1000 SCAT. EX. STN.  
 SCFO. DICK. W/5 POTT. FANFB

15-31 BEN. F-X POS. STN. 5500  
 W/FLOR. SCAT. EX. STN. 5500  
 15-32 BEN. F-X POS. DNS.  
 N.S. NUB. S/POS. W/STAGY

1800

15-33 BEN. F-X POS. STN. 5500  
 W/FLOR. SCAT. EX. STN. 5500  
 15-34 BEN. F-X POS. DNS.  
 S/C KEY N.S. AUG 2/1/84

15-35 A.A. RE. CITY

15-36 G. L. BEN. F-X POS. CURY  
 N.S. SCAT. EX. 1/0000

15-37 BEN. F-X POS. S/DNS. N.S.  
 SCAT. EX. 1/0000

15-38 A. G. L. BEN. F-X POS. DNS. S/  
 REG. N.S. AUG 2/1/84

50

15-39 BEN. W/STAGY F-X POS. DNS. REG.  
 N.S. AUG 2/1/84

15-40 L. G. L. BEN. F-X POS. DNS. S/  
 REG. N.S. AUG 2/1/84

15-41 G. L. BEN. F-X POS. DNS. S/  
 REG. N.S. AUG 2/1/84

15-42 G. L. BEN. F-X POS. DNS. S/  
 REG. N.S. AUG 2/1/84

1900

15-43 G. L. BEN. F-X POS. DNS. S/  
 REG. N.S. AUG 2/1/84

BONNER SPRINGS  
1849 (-460)



1900

50

2000

50

2100

50

KANSAS CITY  
1990 (-60)

BASE KANSAS CITY  
2159 (770)

SN-64 M-64 Bens/544

SN-64 M-64 5/2-ALL

SN-AA

SN-67 GAGE-122

SN-AA

KS-64 BEN. F.X. Fos. DNS 4/126.  
N.S. NUP w/54-64

KS-AA w/54-AA. 5/25 44. BROWNS  
F.X. Fos. CHAS/54 AT 2 BROWS  
FL. 0102. SCOT KSTN VS 560

5/25 44 SPOTY FAVOR  
KS-64 BEN. F.X. Fos 4/100  
DNS. N.S. NUP w/54-64

KS-46 BEN. F.X. Fos. 42 0002  
SCAT 66. STN. 2550 SCAT 220  
w/FAN 0005. SPOTTY FAVOR.

KS-AA. 541 CMY

KS-46 BEN. F.X. Fos. DNS. CMY  
N.S. NUP w/42-46-AA.

KS-46 BEN. F.X. Fos. CMY 4/126.  
N.S. NUP

KS-46 BEN. F.X. Fos. 3/21/94  
11/12/00. 12/11/90. 155 LUGO  
SCAT P TUG w/SPOTTY FAVOR.

KS-46 BEN. F.X. Fos. CMY  
to w/5400 AA. EXP

KS-AA w/42 SAT BCE CMY.

KS-46 BEN. F.X. Fos. CMY. NUP  
5/12/95. N.S. to EXP 4/20/94

KS-46 BEN. F.X. Fos. 3/12/95  
SCAT CMY. N.S. NUP w/CAT.  
ANT 074

KS-AA w/54 SAT BCE CMY.

KS-BEN 64 46. BEN. F.X. Fos DNS.  
3/12/95. N.S. NUP w/54-64

KS-AA w/54-64 BEN. 541 504

KS-BEN BEN. F.X. Uy. 000.  
DNS. N.S. NUP w/54-64.

SN-67 DEBY GEN. w/46-AA.



2400

DST #1

50

67. FE CALL REC. ADAMS.  
 SA-G. NKG. GEN. SPK

AS-BEN L. BEN. G. BY. W. F. X.  
 DNS. CHY. S/ME. WS. NUP

SA-BECK. CAB. BY BEN W/S  
 A.A.

SA- PACE TO BRIGHT GRAY,  
 FIEM. W/RY W/S. N.A.

DEC-BEN VVE X. SUC. S/DAS  
 BY BENE. BEN. STU. TO P/ND  
 BY BENE. BENE. SUC. S/ P/ND  
 DEC-BEN. F. X. SUC. S/ P/ND. 66. 66. 66.  
 BY BENE. G. S/ND. S/ND. S/ND. S/ND.  
 GO BENE. TO MUSLIC. W/RY

7:00 PM 11/77-11

ARMORE  
 2410 (-1021)  
 DST #1 RESULTS  
 WITH SAMPLE  
 DESCRIPTIONS.

VIO LA  
 2439 (-1050)  
 RTD  
 2450 (-1061)

