



**Production Dept.**  
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Office (828) 587-4250 212 Main St. • P.O. Box 215 • Clark, MO 67025 Home (828) 587-3444

**GEOLOGIST'S REPORT**  
DRILLING TIME AND SAMPLE LOG

COMPANY Vess Oil Corporation  
LEASE Hagen 'B' #1  
FIELD Chase - Silica  
LOCATION SW-SW-NE-NW (1177 FUL & 1486 FUL)  
SEC 28 TWP 20s RGE 11w  
COUNTY Barton STATE Kansas  
CONTRACTOR Petromark Drilling (rig#2)  
SPUD 10-04-2011 COMP 10-11-2011  
RTD 3410 LTD  
MUD WT 2600 TYPE MUD Chemical Displaced

ELEVATIONS  
KB 1787  
LF  
OL 1782  
Measurements Are All From KB  
CASING SURFACE 85/8" @ 523'  
PRODUCTION  
ELECTRICAL SURVEYS  
By Log-Tech

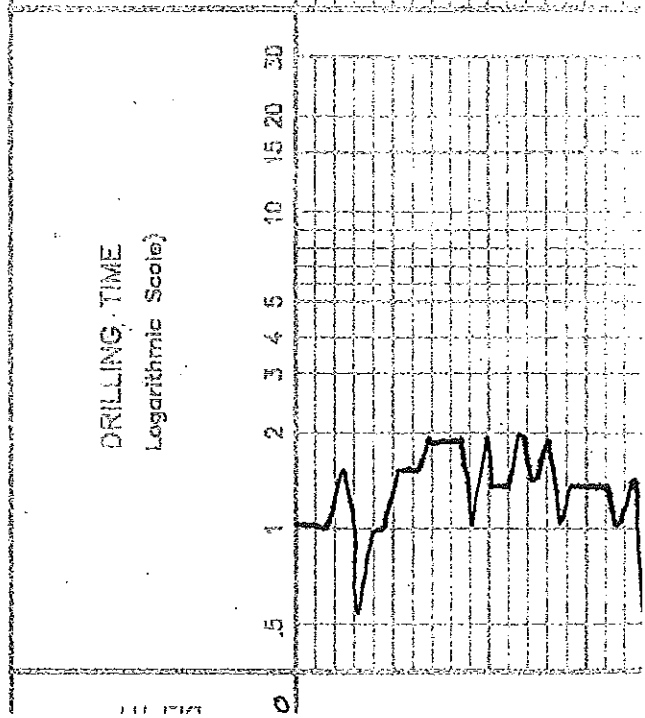
SAMPLES SAVED FROM 2600 TO 3410  
DRILLING TIME KEPT FROM 2600 TO 3410  
SAMPLES EXAMINED FROM 2600 TO 3410 RTD  
GEOLOGICAL SUPERVISION FROM 2840 TO 3410 /  
GEOLOGIST ON WELL Josh Austin

FORMATION TOPS	LOG	SAMPLES
anhydrite	521 +1266	RTD 3410
Base anhydrite	540 +1247	LTD 3410
Topexa	2674 -887	} -1623
Heebner	2945 -1158	
Toronto	2959 -1172	
Douglas	2976 -1189	
Brown Lime	2067 -1280	

*See typed reports for recommendations -  
Respectfully Submitted  
Josh Austin  
Petroleum Geologist*

**LEGEND**

- Anhydrite
- Salt
- Sandstone
- Shale
- Dark sh
- Limestone
- Coal/Lime
- Chert
- Dolomite



REMARKS
SAMPLE DESCRIPTIONS
<u>LS, con/gy fac desc</u> <u>alky in part</u>

LS: cream/gry fss dense  
chky in part

dark gry - grayish green mic  
shale

Sand: gry - grayish green vfy  
sub rounded friable mic N/S

shale i sand aa

LS: gry - cream chky fss  
dense poor vis. N/S  
+ gry shale

LS: cream fss sl. green  
poor vis. N/S

LS: cream/buff sl. dense  
AY in part sl. fss  
+ tan - gry bony fss A

LS: cream - tan sl. chky  
dense poor  
+ gry - tan bony A

blk carb shale

+ gry - Mar - grayish green  
shale

LS: cream - lt. gry fss med xl  
fss chky poorly dev.  
N/S + A gry fss bony

LS: aa green fss N/S

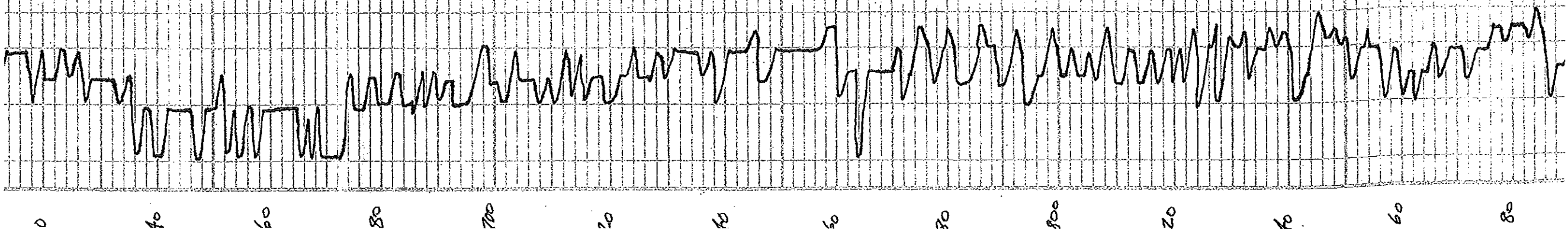
SS

blk carb sh.

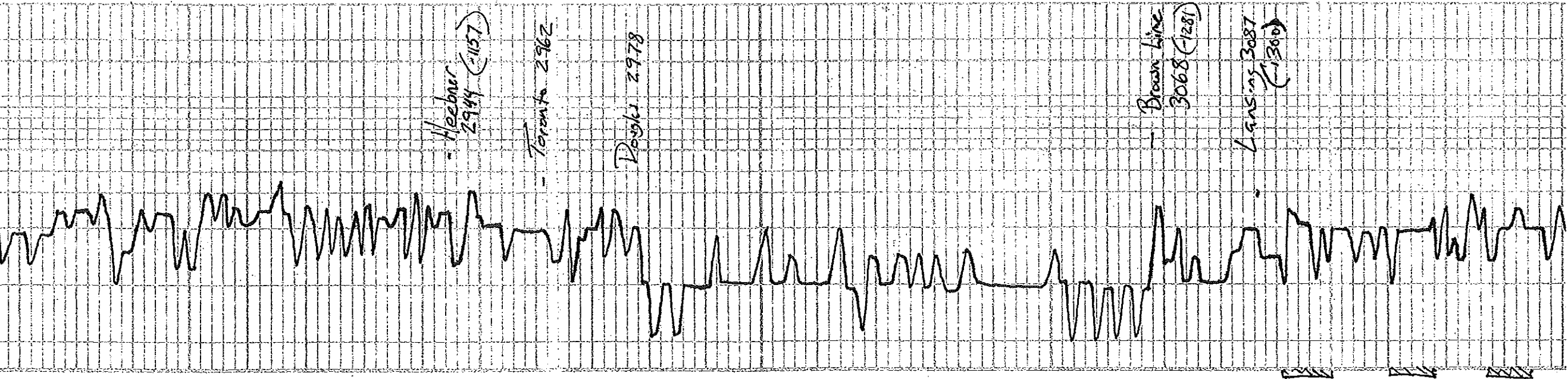
LS: cream sl. dense sl. AY  
fss sectt. - shool - fss  
N/S

LS: cream - tan highly fss  
dense poor. N/S

Topoka 2673  
(-886)



80 1900 20 40 60 80 1000 20 40 60 80 3000 20 40



LS: cream tan highly fossil  
dense part, 1/2 p/s

LS: cream tan cherty  
gran in part. sil. fossil  
few scatt. p/s

LS: grey tan fossil dense  
dy

LS: tan-grey dense dy  
no v.s.o. n/s

blk Carb shale  
grey-greyish green sh

LS: wh-cream fine cherty to thin  
sh. n.s.f.o. poorly dev.  
No odor few scatt. sp. n.s.

shale: grey-green-mar

shale: grey-greyish green  
silty mica in part

shale: o.a.

grey-greyish green shale  
mica silty

to sand v/s mica dense

shale o.a.  
silty mica

Brown line  
3068 (1281)

Lansing 3087  
(1300)

LS: tan-fxl dense dy

grey-mar sh.

LS: cream fine silty dense

LS: wh-cream fine cherty few  
mica fossil in part. tan-yellow in  
sh. sp. n.s. fxl. fxl. factor. when dark  
10 min

LS: cream-tan fossil cherty in  
part. n. vuggy. brack. s.f.o.  
no odor

LS: grey-cream fine dense  
with chlk

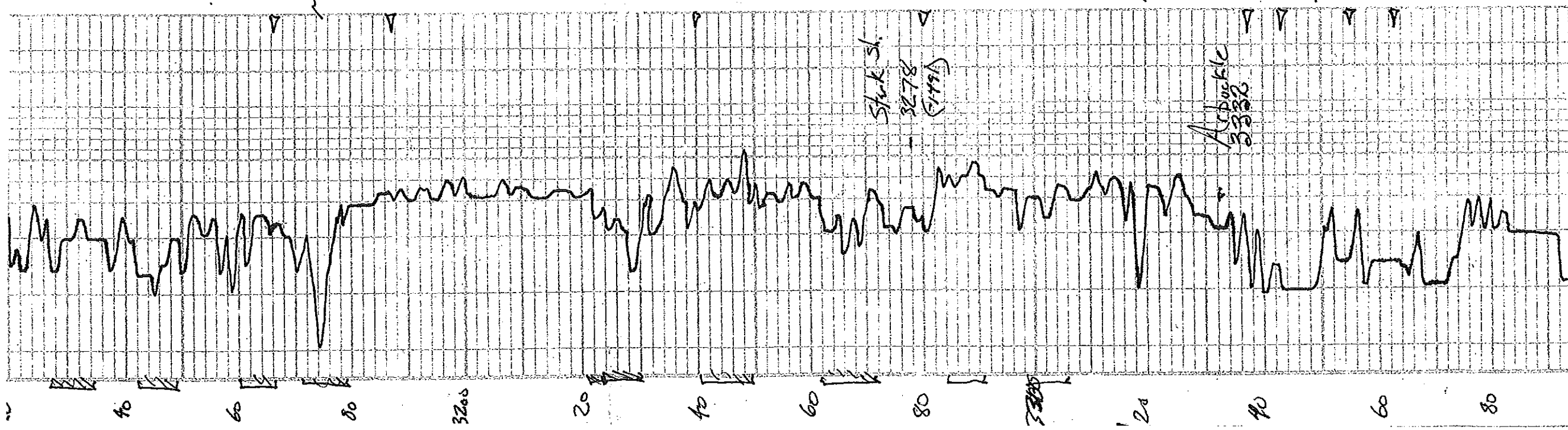
DST #1 3071-3167  
30-45-45-60

Blow: BOB in low 9:30 AM  
Foul GTS thru out  
No blow back  
Gas gaged as follows

Initial	30 min	8 mcf/d
Final	20 min	20 mcf/d
20 "	14 "	"
30 "	11 "	"
40 "	7 "	"

Recovery 100' 9:00 AM  
(20% gas 20% oil 60% mud)

400' 90  
30' v.s.w. memo



100' 9 1/2 ocm  
 60% gas 20% oil 60% mud  
 400' 90  
 30' vs 12000  
 (3/4 water 30% gas 25% mud 40% oil)  
 Pressure: ISIP 920 PSI  
 FSIP 901 "  
 IFP 72-155 "  
 FFP 170-272 "  
 HSH 1481 "  
 -1462  
 DST #2 3167-3281  
 30-45-45-60  
 Blow: Fair boill to 5"  
 First boill to 3"  
 Recovery 700' gassy water  
 Pressure ISIP 885  
 FSIP 873  
 IEP 98-200  
 FFP 209-360  
 HSH 1551  
 =1507  
 DST #3 3215-3310  
 30-30-30-30  
 Blow: weak - Dead  
 Recovery 15' mud  
 Pressure ISIP 66 PSI  
 FSIP 44 "  
 IFP 35-35 "  
 FFP 33-36 "  
 HSH 1578  
 -1549  
 DST #4 3314-3337  
 30-45-45-60  
 Blow: weak 1/2"  
 Recovery 120' SIP  
 60' 9 1/2 ocm  
 (15% gas 30% oil 55% mud)  
 Pressure ISIP 533  
 FSIP 905  
 IFP 43-45  
 FFP 48-52  
 HSH 1561  
 -1552  
 DST #5 3336-3343  
 - Packer Failure -  
 DST #6 3314-3343  
 30-45-45-60  
 Blow: weak 2"  
 Recovery 280' SIP  
 70' 9 1/2 ocm  
 (25% gas 30% mud 45% oil)  
 Pressure ISIP 934 PSI  
 FSIP 904 "  
 FFP 39-49 "  
 Trace wh/Hsgy berry Δ

1st. grey - crm fine shale  
 rock chalk  
 2nd. Tan - buff  
 fine gran N/S  
 3rd. Tan - buff  
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 4th. Tan - buff  
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