



KANSAS CORPORATION COMMISSION 1102859
OIL & GAS CONSERVATION DIVISION

Form ACO-1
June 2009

Form Must Be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 5120
Name: Range Oil Company, Inc.
Address 1: 125 N MARKET ST STE 1120
Address 2: _____
City: WICHITA State: KS Zip: 67202 + 1711
Contact Person: John Washburn
Phone: (316) 265-6231
CONTRACTOR: License # 30141
Name: Summit Drilling Company
Wellsite Geologist: Roger Martin
Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SLOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____
Well Name: _____
Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to ENHR Conv. to SWD

Conv. to GSW

Plug Back: _____ Plug Back Total Depth _____

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

ENHR Permit #: _____

GSW Permit #: _____

07/07/2012 07/16/2012 07/16/2012
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 15-015-23947-00-00

Spot Description: _____
N2_SW_SE_SW Sec. 4 Twp. 29 S. R. 3 East West

620 Feet from North / South Line of Section

1650 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW

County: Butler

Lease Name: MOEDER Well #: 1

Field Name: Rosehill

Producing Formation: none

Elevation: Ground: 1324 Kelly Bushing: 1334

Total Depth: 3190 Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: 220 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____
feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 1200 ppm Fluid volume: 500 bbls

Dewatering method used: Evaporated

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Letter of Confidentiality Received
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: Dianna Garrisa Date: 11/29/2012



1102859

Operator Name: Range Oil Company, Inc. Lease Name: MOEDER Well #: 1
 Sec. 4 Twp. 29 S. R. 3 East West County: Butler

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: Dual Porosity & Induction	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:10%;"><input checked="" type="checkbox"/> Log</td> <td style="width:70%;">Formation (Top), Depth and Datum</td> <td style="width:20%;"><input checked="" type="checkbox"/> Sample</td> </tr> <tr> <td></td> <td style="text-align: center;">Name Top Datum</td> <td></td> </tr> <tr> <td></td> <td>Heebner 1801 -467</td> <td></td> </tr> <tr> <td></td> <td>Lansing 2042 -708</td> <td></td> </tr> <tr> <td></td> <td>Kansas City 2395 -1061</td> <td></td> </tr> <tr> <td></td> <td>BKC 2617 -1283</td> <td></td> </tr> <tr> <td></td> <td>Mississippian 2880 -1546</td> <td></td> </tr> <tr> <td></td> <td>Simpson 3146 -1812</td> <td></td> </tr> <tr> <td></td> <td>Arbuckle 3176 -1842</td> <td></td> </tr> </table>	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input checked="" type="checkbox"/> Sample		Name Top Datum			Heebner 1801 -467			Lansing 2042 -708			Kansas City 2395 -1061			BKC 2617 -1283			Mississippian 2880 -1546			Simpson 3146 -1812			Arbuckle 3176 -1842	
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CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	220	common	125	3% CaCl

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	-			
	-			

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____		Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date of First, Resumed Production, SWD or ENHR. _____		Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____	
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls. Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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ROGER L. MARTIN

INDEPENDENT PETROLEUM GEOLOGIST 316-250-6970

GEOLOGIST'S REPORT DRILLING TIME AND SAMPLE LOG

COMPANY RANGE OIL COMPANY, INC.
LEASE MOEDER #1
FIELD ROSE HILL
LOCATION 620' FSL & 1650' FWL
SECTION 4 **TOWNSHIP** 29S **RANGE** 3E
COUNTY BUTLER **STATE** KANSAS

ELEVATIONS

KB 1334' **GL** 1324'

Measurements Are All
 From KB

API 15-015-23947-00-00

CONTRACTOR SUMMIT DRILLING
SPUD 07/08/2012 **COMP** 07/16/2012
RTD 3190' (-1856) **LTD** 3188' (-1854)
ELECTRICAL SURVEYS
LOG-TECH: DIL, CNL/CDL

CASING

SURFACE 885/8" @ 220' KB w/
125 sx + 3% CaCl

PRODUCTION n/a -- D&A

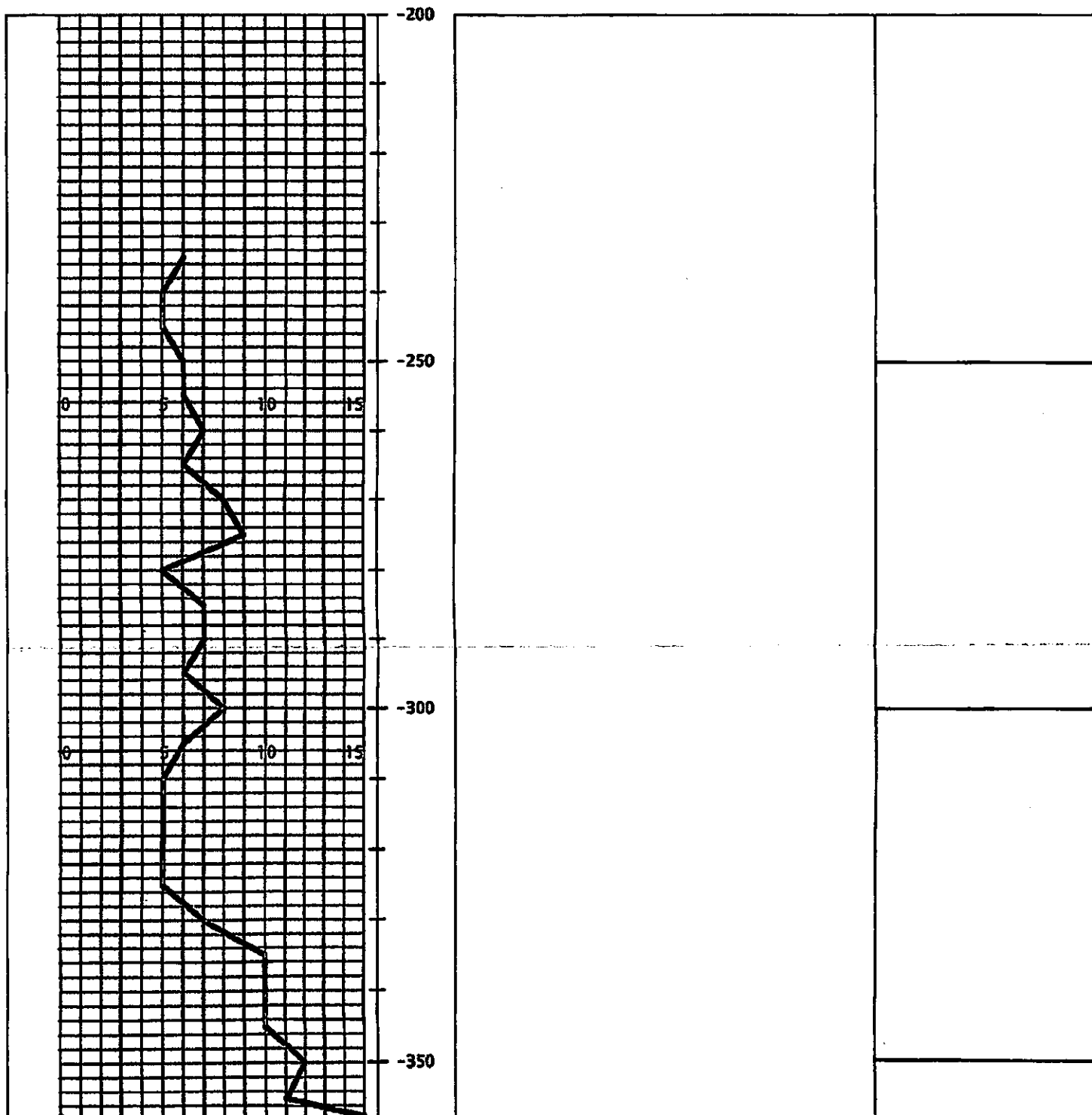
FORMATION TOPS	LOG	SAMPLES	CHRONOLOGY
OREAD	1760' (-426)	1760' (-426)	07/07/2012- MIRT.
HEBNER SH	1801' (-467)	1803' (-469)	07/08/2012- 10:00 AM, PTD 232'. WOC. SHS = 1/4 degree @ 232'.
LANSING	2042' (-708)	2044' (-710)	07/09/2012- 7:40 AM, DRLG @ 618'.
BASE LANSING	2183' (-849)	2184' (-850)	07/10/2012- 7:40 AM, DRLG @ 1303'.
KANSAS CITY	2385' (-1061)	2397' (-1063)	SHS = 3/4 degree @ 872'. SHS = 1/2 degree @ 1177'.
BASE KANSAS CITY	2617' (-1289)	2618' (-1284)	07/11/2012- 8:00 AM, DRLG @ 1908'.
MARMATON	2641' (-1307)	2642' (-1308)	SHS = 1 degree @ 1618'.
MISSISSIPPIAN CHERT	2880' (-1546)	2879' (-1545)	07/12/2012- 8:20 AM, DRLG @ 2351'.
MISSISSIPPIAN LS	2892' (-1558)	2891' (-1557)	SHS = 1 1/4 degrees @ 2119'.
KINDERHOOK	3065' (-1731)	3066' (-1732)	07/13/2012- 8:00 AM, DRLG @ 2720'.
UPPER SIMPSON SS	3146' (-1812)	3145' (-1811)	SHS = 1 3/4 degrees @ 2620'.
MIDDLE SIMPSON SS	3155' (-1821)	3155' (-1821)	07/14/2012- 8:00 AM, DRLG @ 2975'.
LOWER SIMPSON SS	3169' (-1835)	-	SHS = 1 3/4 degrees @ 3059'.
ARBUCKLE	3176' (-1842)	3176' (-1842)	07/15/2012- 7:30 AM, CIRC @ 3145'.
RTD/LTD	3188' (-1854)	3190' (-1856)	Wiper trip @ 3059'.
			07/16/2012- 8:00 AM, RTD 3190'.
			Preparing for E-logs.
			07/17/2012- 7:00 AM, RTD 3190'. Ran LogTech electric Logs.

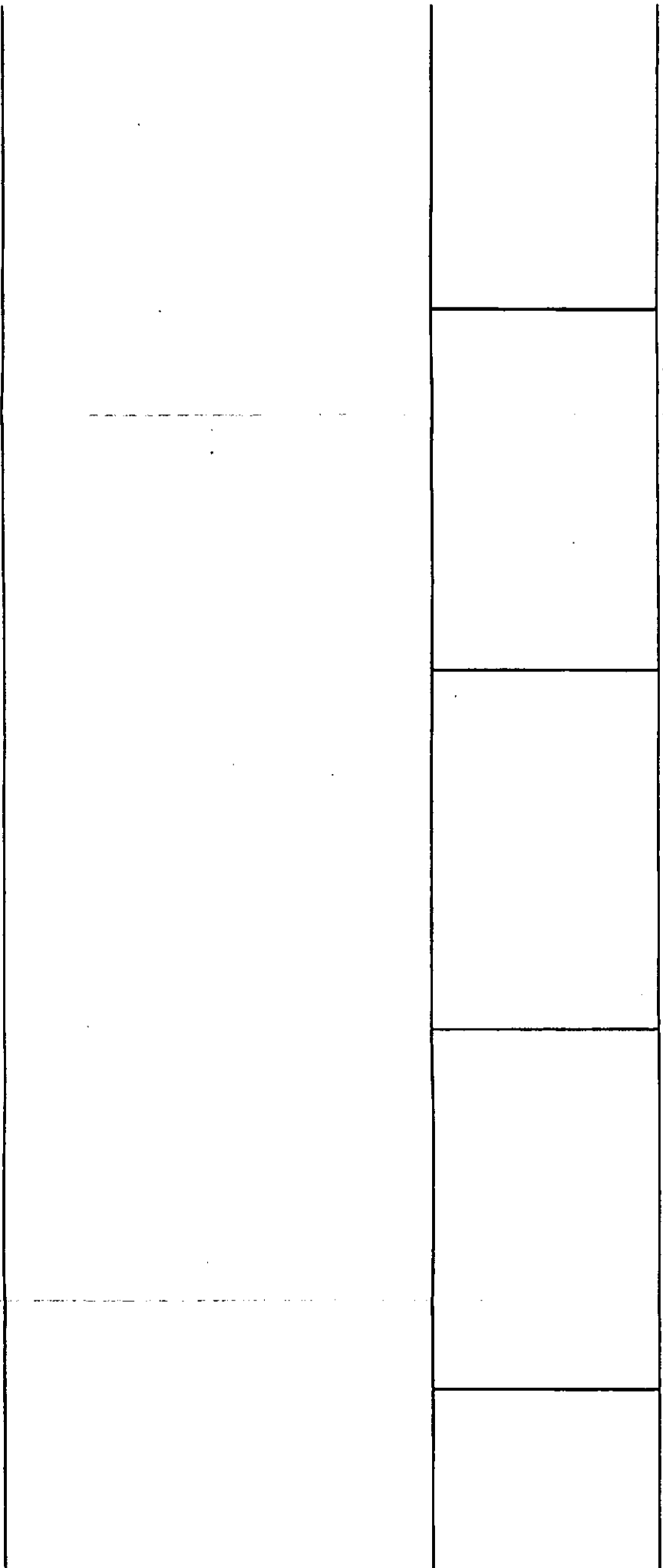
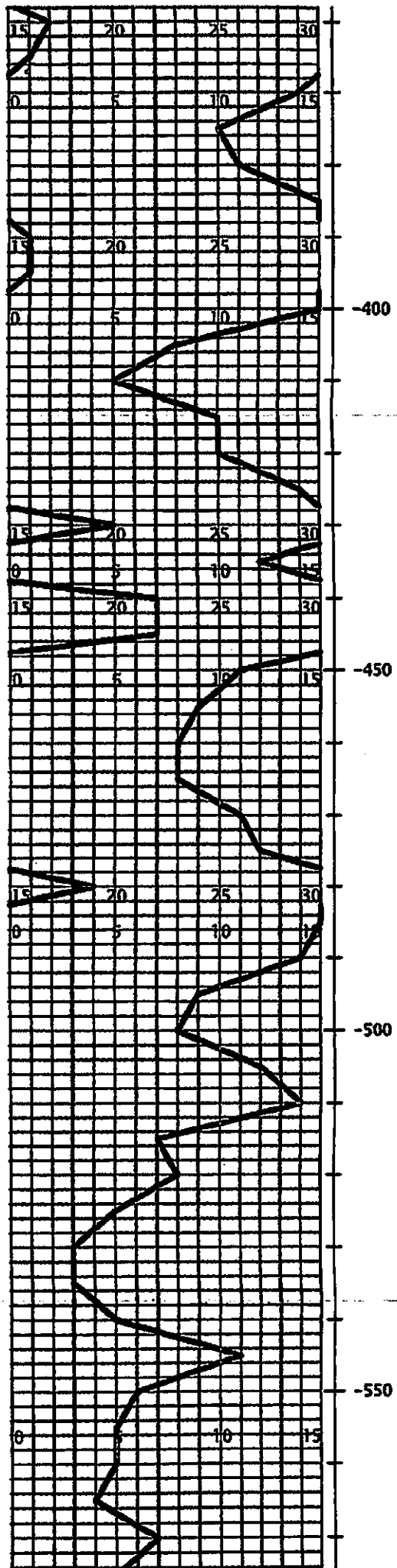
REMARKS:

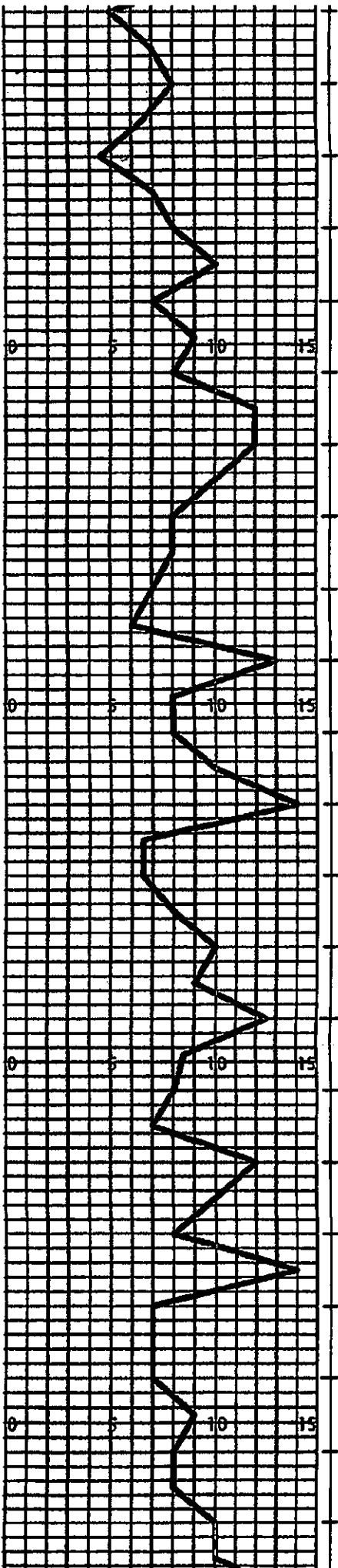
The decision was made by the operator following sample evaluation,
 E-log evaluation and drill stem testing to plug and abandon the
 ROC Moeder #1 test well.

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

LITH	DRILLING TIME ROP MIN/FT	DST DEPTH	SAMPLE DESCRIPTION	REMARKS
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-1050

-1100

-1150

-1200

0

5

10

15

0

5

10

15

0

5

10

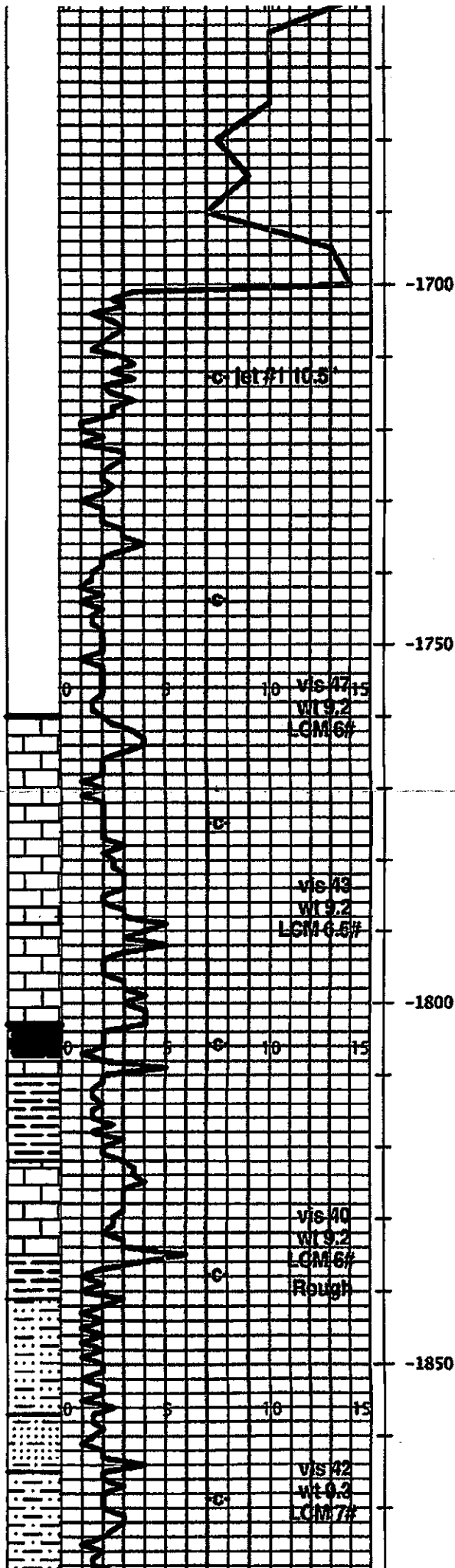
15

0

5

10

15



-1700

c 1st #1 10.5'

-1750

vis 47
wt 9.2
LCM 6#

(OREAD) LS: cm-tn, xm- mdxn, VRr prt crsx's- 2RX- Vcrs, sm fos & ool- gmir, Pr- Fr Por. NS. sm chiky.

vis 43
wt 9.2
LCM 6.5#

Abndt dn- Pr Por, NS.

-1800

vis 40
wt 9.2
LCM 6#
Rough

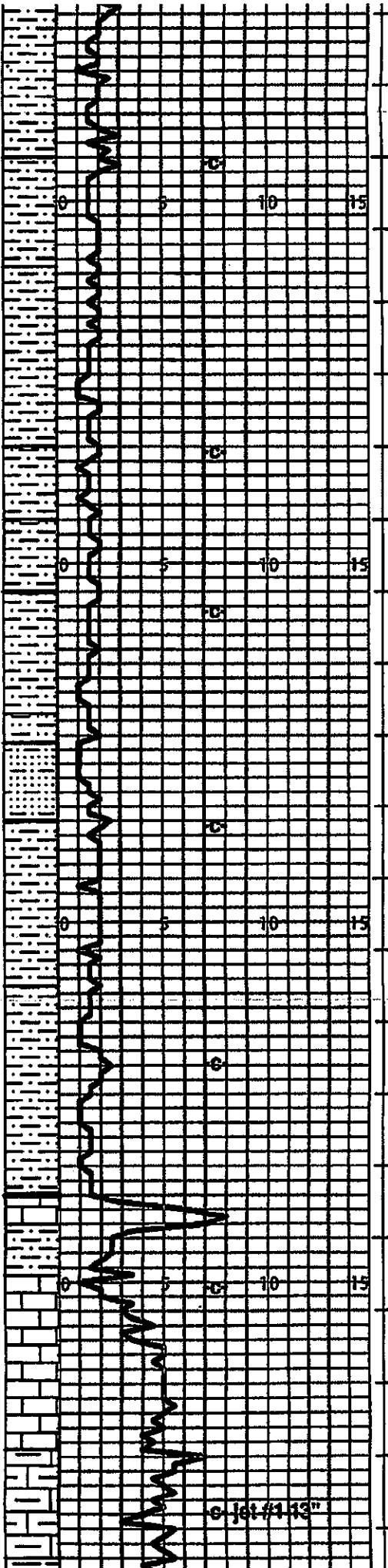
(HEEBNER) SH: blk carb.
LS: gy-tn, dn- frx, sm argil.
SH: gy-blk & gn.
LS: tn-cm, dn- frx, sm chiky, sl fos, Pr- NVP, NS.
SH: gn-gy & blk.
SILTS: gy, micac, sndy.

-1850

vis 42
wt 9.3
LCM 7#

SS- SD CLUST: gy-wh, vfn- fn Gr'd, Rnd'd- anglr, well cmt'd- sbfrbl, Pred VPr- Pr Por. NS. sm slity & shly.
SILTS: AA & SH: pred gy, VRr Sd Clust: AA.

1760' (-426) OREAD
1803' (-469) HEEBNER SH



-1900

SILTS- SH: dk- lt gy, micac.

SILTS: dk- lt gy, micac, sm sndy- Vfn Gr'd.
& SH: gy- blk, sm micac.

SH- SILTS: dk- lt gy, micac.

-1950

SILTS- SH: AA.

AA, Incrs Silts, sm sndy, sm Sl calc.

SILTS: AA

& Fr SS: lt bf-gy, Vfn-fn Gr'd, silty, Vwell cmf'd, VPr- Pr Por, NS.

-2000

SILTS: dk- lt gy, micac, sm sndy.
& SH: gy- blk.
VRr Sd Clust w/Pr- VPr Por. NS.

SH- SILTS: dk- lt gy, micac, sm sndy, Rr SD CLUST: AA, NS.

-2050

[LANSING] LS: tn-cm, dn Mdst, cryptox- fmx, VPr- NVP, NS.

SH- SILTS: sm micac & sndy.

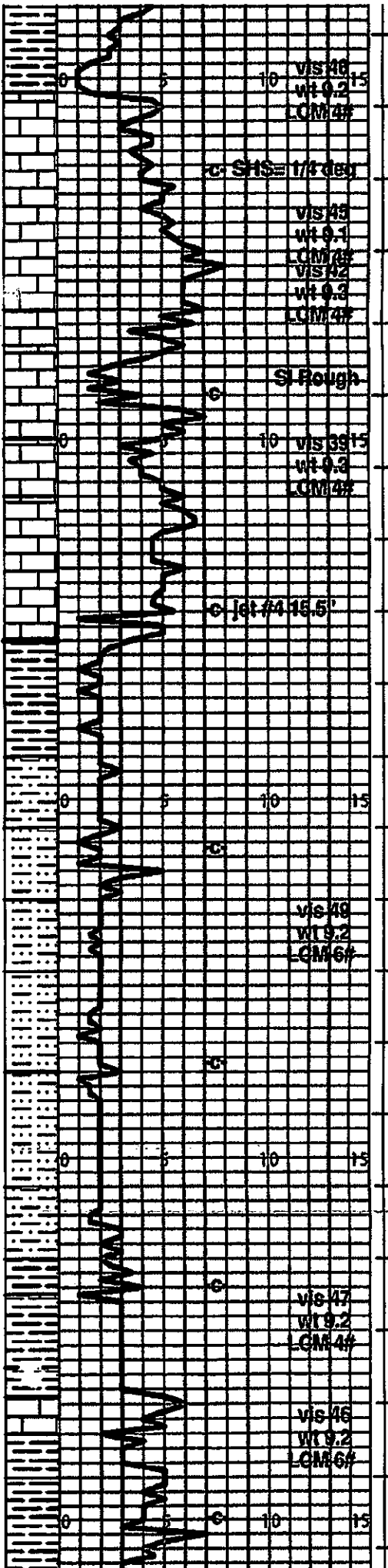
LS: cm-tn, mx- frdn, VRr crs- Vers's- 2RX, VRr Pr- Fr vug Por, fos midc Por, NS. sm Plkst & sm wh-chiky, Pred Pr- VPr Por, NS.

c-jet #1 13"

SH: mv-blk & nn-ov.

**MUD CHECK
BY FUD MUD:
WT 9.1, VIS 42, PV 26,
YP 18, pH 9.0, WL 9.8,
CI 1100, LCM 6#**

**2044' (-710)
LANSING**



-2100

10 vis 46
wt 9.2
LCM 4#

c- SHS= 1/4 deg

vis 45
wt 9.1
LCM 4#
vis 42
wt 9.3
LCM 4#

-2150

10 vis 39 15
wt 9.3
LCM 4#

c- Jet #4 15.5'

-2200

10 15

vis 49
wt 9.2
LCM 6#

-2250

10 15

vis 47
wt 9.2
LCM 4#

vis 46
wt 9.2
LCM 6#

-2300

10 15

LS: cm-tn-gy, mx- frxn, sm fos Pkst w/Pr- Fr Por: pp Por, l.fos Por, IX Por, NS. sm gmlr Pkst w/Pr l.Gr Por, NS. (Abndt SH- SILTS: AA)

LS: gy-tn-wh, mx- frxn, VPr md- crsx, Pred Pr Por, sm chiky.

LS: cm-tn-gy, mx- frxn, sm mbdn, prt crsdn w/Fr- Gd IX Por, sm Fr- Gd vug Por w/2RX, NFO, NC,

LS: AA, sm Fr- Gd Por, sm chiky, NS.

LS: tn-gy-wh, mx- mdx- 2FX, Fr crs- vcrx's, Pred VPr- Pr Por, sm wh-chiky LS AA, Iners dn, sm pyrite.

(BASE LANSING) SH: pred dk gy, micac.

SH- SILTS: md- dk gy, micac.

SILTS: lt- dk gy, micac, sm sndy, sm calc.

SILTS: Iners lt- md gy, sm micac.

SILTS: Abndt lt gy, micac & sndy, Vfn Gr'd, sm sl calc.

SILTS: AA.

Iners SH: dk gy (Abndt SILTS: AA).

SH: Abndt dk gy.

SH: pred dk gy, AA.

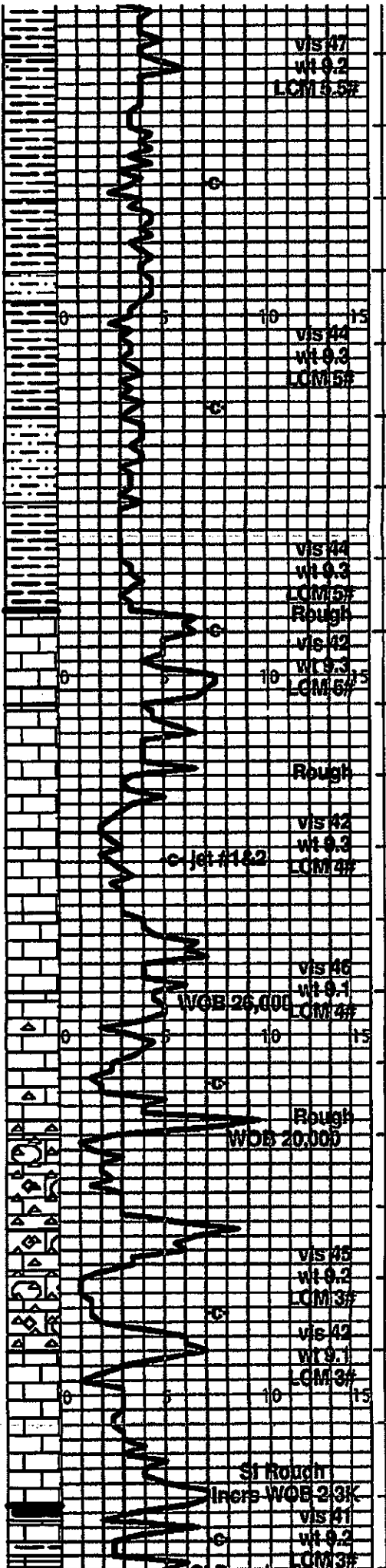
SH: gy- blk.

LS: tn-cm, dn- mx, Rr mdxn, Pr- NVP.

SH: gy- blk, pred carb.

SH: gy-blk, sm calc & lmy, sm blk carb & subcarb.

**2184' (-850)
BASE LANSING**



SH: gy & gn-gy, sm micac.

SH: dk- md gy, sm micac, sm calc.

SILTS- SH: gy & gn-gy, sm calc & micac.

SH: md- dk gy, micac.

SH: dk- lt gy, micac AA & SILTS: sm calc.

SH: gy-blk, sm calc & lmy.

(KANSAS CITY) LS: cm-tn-gy, mx- frxn, pred dn, sm sl fos, Pr- PR Por, IX Por, pp Por. Trc STN- FLR, Trc SFO.

LS: cm-tn-gy, mx- frxn, Rr prt mdx w/crs- Vcrsx- 2RX, sm chiky, Pr- Fr Por: IX Por, pp- vug Por. <5% w/sp'd- subsat FLR, Vit STN, SI SFO & Cut, VSI Odor. sm chiky- wh, sm ool & fos Pkst.

LS: AA, Iners md- Vcrs- 2RX, ~5% w/FLR- STN- SFO & Cut, SI Odor, VSI Cherty.

LS: cm-tn-gy, mx- frx, VRr md- crsx. CHERTY: cm-bf-gy, shrp, opq, <5% pp Por & IX Pr w/FLR, VSI SFO & Vit STN. Prt wh-chiky.

LS: tn-wh, mx- frxn, sm gmlr- fos & Cherty, Pr- Fr Por: pp Por, l.Gr Por, vug Por, l.fos Por. <5% w/FLR- SFO, Vit STN.

LS: cm-bf-tn, mx- frxn, sm fos & gmlr, Pr- Fr Por: l.Gr Por, pp Por, IX Por, VRr Gd Por. <5% FLR, VSI SFO, Trc STN. CHERTY: cm-gy-bf, opq, shrp.

LS: cm-tn-gy, sm mot, mx- frxn, Rr mdxn- crsx, ool & prt oomldc w/Fr- Gd Por: l.ool Por, IX Por, midc Por. <5% w/FLR- STN, VSI SFO.

LS: cm-tn-gy, sm mot, mx- mdxn, VRr crs- Vcrsx- 2RX, Fr- VRr Gd Por: pp- vgu Por, midc Por, IX Por. <5% w/FLR- VSI SFO, VRr Vit STN, sm argil, sm dn.

(STARK) SH: blk subcarb- Vcarb.

LS: AA & gy-tn, dn argil. & SH: gn-gy, sm micac, sm calc & lmy.

LS: cm-tn-av, sm mot, mx- frxn, sm fn oomldc & prt fn ool

2397' (-1063)
KANSAS CITY
 (Trc SFO)

{SI SFO}
MUD CHECK
BY FUD MUD:
WT 9.3+, VIS 42, PV 28,
YP 20, pH 9.5, WL 8.8
CI 1500, LCM 4#

{SI SFO}

{VSI SFO}

{VSI SFO}

{VSI SFO}

{VSI SFO}

{VSI SFO}

{SI- Fr SFO}

w/~5% Fr- Gd Por: midc & pp- vug Por, IX Por. >5%<10%
w/mot- sat Tn STN, Sl- Fr SFO& GB, Sl- Gd Cut, Fry stmg
Odor, VRr barren Por.

LS: tn-gy-wh, pred dn- mx & chiky, VRr Vtrdn, Rr Pr- Fr
Por, AA. VRr Gd Por, prt barren, VRr Sl SFO- STN

{SI SFO}

LS: tn-gy-wh, pred dn mx & chiky.
{HUSHPUCKNEY} SH: blk subcarb- Vcarb.

{Trc SFO}

LS: tn-gy-wh, mx- frxn, VRr prt mdx- vcrx- 2RX, sm Sl fos
Pkst, Pr- Fr Por: IX Por, l.fos Por, pp Por, Trc SFO- FLR &
Vtr STN, Trc Cut.

LS: dk- lt gy-tn-wh, pred dn- mx, sm sl argil- sm prt chiky,
Pred VPr- NVP. Trc Por- STN AA, sm SH: AA, gy-blk & blk
carb. VRr LS: AA w/Pr- Gd Por, STN- SFO- FLR & Cut.

LS: dk- lt gy- wh, pred dn hd Mdst & mx w/VPr- NVP.

SH: (Incrs) gy-blk & gn-gy & blk subcarb- carb. & SILTS: lt
gy, micac.

{Trc SFO}

LS: tn-gy-cm, pred dn mx- frxn, VRr mdxn, sm 2RX, sm
fos, VRr Pr- Fr Por w/Trc SFO- STN- Cut. Pred Pr- NVP.
LS: tn-gy-bn, dn- frx, VPr- NVP.

{BASE KANSAS CITY} SH: blk carb & gy- blk subcarb.
(& LS AA)

2618' (-1284)
BASE KANSAS CITY

SH: AA.

{MARMATON} LS: tn-cm, pred dn- mx- frx- 2RX, VSI fos,
VPr- NVP.

2642' (-1308)
MARMATON

SH: blk carb & subcarb & gy-gn.

LS: gy argil Mdst.

SH: lt- dk gn-gy, sm blk carb, sm SH- SILTS: lt-dk gy & gn-
gy, micac, sm sndy: Vin Grd.

SH:AA & SILTS: AA. & SH: md gy & gn-gy.

LS: cm-tn, mx- Rr frxn, Rr ool- mot, VRr oomldc w/Fr- Gd
Por, NS. Pred dn- mx & chiky w/VPr- NVP. NS.

SH: gy- blk subcarb to blk carb & gn-gy.

LS: AA & tn-gy dn Mdst.

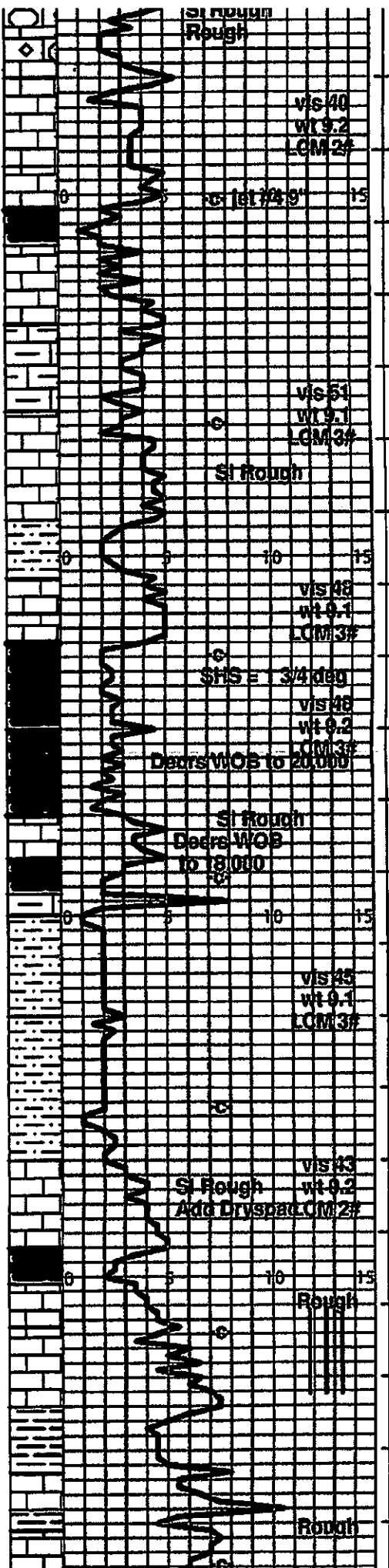
LS: tn-gy-cm, sm mot- fos Pkst, mx- frxn, VPr- Pr Por, sm
wh-chiky & gy dn Mdst.

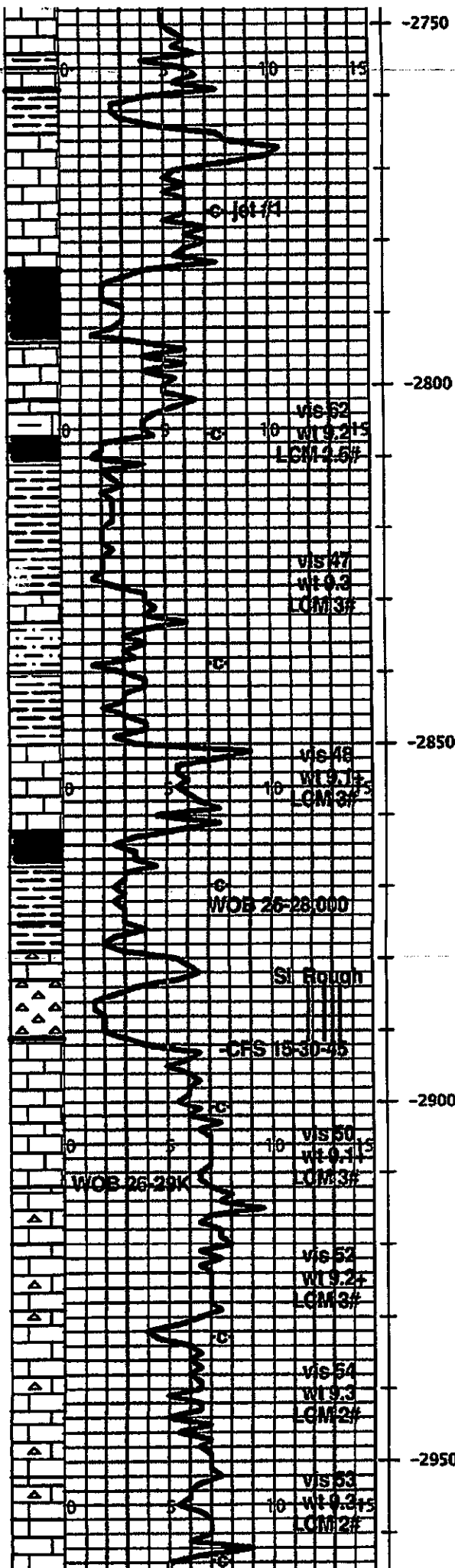
SH: gy-blk & lt- dk gn-gy, sm pyrct.

LS: tn-cm-gy, dn- mx- frx, pre dn to VPr Por, NS.

SH: gn-gy & blk carb.

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





-2750
SH: gy-blk, gn-gy, sm calc & lmy. & LS: AA, pred dn Mdst.

SH: Rr blk carb, Abndt dk-lt gy & gn.
LS: cm-tn-bn, sm mot, mx- frxdn- VRr mxd- 2RX, Rr Pkst & Trc Grst w/Por & NS. Abndt dn- sm chiky, sm argil dn Mdst w/Pr- NVP, NS.

SH: blk carb & gn-gy, sm calc & lmy.

LS: cm-tn-gy, dn- mx- frx, pred dn to VPr Por, sm argil VSI pyrte.

-2800
LS: gy & gn-gy, sm argil Mdst.
SH: Rr blk Vcarb & carb.
SH- SILTS: gn-gy, sm micac & calc.
SH: dk- lt gy & gn, sm calc & lmy.
SH: (Incrs) blk carb & dk gy-blk.
LS: tn-cm, pred dn- mx, sm prt frx- 2RX.
(Trc LS: AA w/Por & STN)
SH- SILTS: gy-blk & gn-gy.
SH: AA.

vis 62
wt 9.215
LCM 2.5#

vis 47
wt 9.3
LCM 3#

-2850
LS: tn-gy, Rr wh, pred dn- mx- frx, VRr Pr Por: pp Por, IX Por, pred VPr- NVP. sm argil Mdst.
SH: blk subcarb- Vcarb, Abndt dk-md gy & gn-gy.
SH: (2880' spl) VC, Vgf'd rd-mrn & gn-gy & blk, sm carb- Vcarb, Trc Coal.
SH: AA.

vis 48
wt 9.115
LCM 3#

WOB 26-28-000

St. Rough
CFS 15-30-45

-2900
(MISSISSIPPIAN CHERT) LS: cm-tn-gy, pred dn- mx- Vinxln, sm silic- Cherty, Sl pyrte, sm Sl fos, sm lmy Chert. CHERT: wh-cm-bf & tn-ormg, ~50% wthrd- smi tripolc, Rr triple w/Fr- Gd visbl IX & vug Por, sm ml.Gr Por. NS. CHERT: bf-tn-ormg & gy, frsh- sl wthrd- shrp, Rr pyrte. NS.
(MISSISSIPPIAN LS) LS: tn-gy-bn, dn hd Mdst, mx- frx.
LS: cm-bf, mx- vfrxdn, sm dolomc- sucro, Rr fr-mdx's- 2RX, VPr- Pr IX Por, NS.
LS: AA, sm doloc, sm mot-cm-bf-gy Pkst, sm gnrtr, sm argil, Pr- NVP. NS.
LS: cm-bf-gy, mx- vfrxdn, Rr fr- mdx's- 2RX, sm fos- mot Pkst. CHERTY: cm-bf-gy, shrp, sm fos.
LS: AA, sm gn-gy argil & Cherty.
LS: cm-bf-gy, mx- frxdn, sm prt md-crsxdn, sm 2RX, sm fos Pkst, sm doloc, sm silic. CHERTY: cm-blu-gy, shrp, sm fos, sm qtzc, Rr omg-tn.
LS: cm-bf-gy, mx- frx, sm fos Pkst, CHERTY: cm-blu-gy, pred shrp.

vis 50
wt 9.115
LCM 3#

WOB 26-29K

vis 52
wt 9.24
LCM 3#

vis 54
wt 9.3
LCM 2#

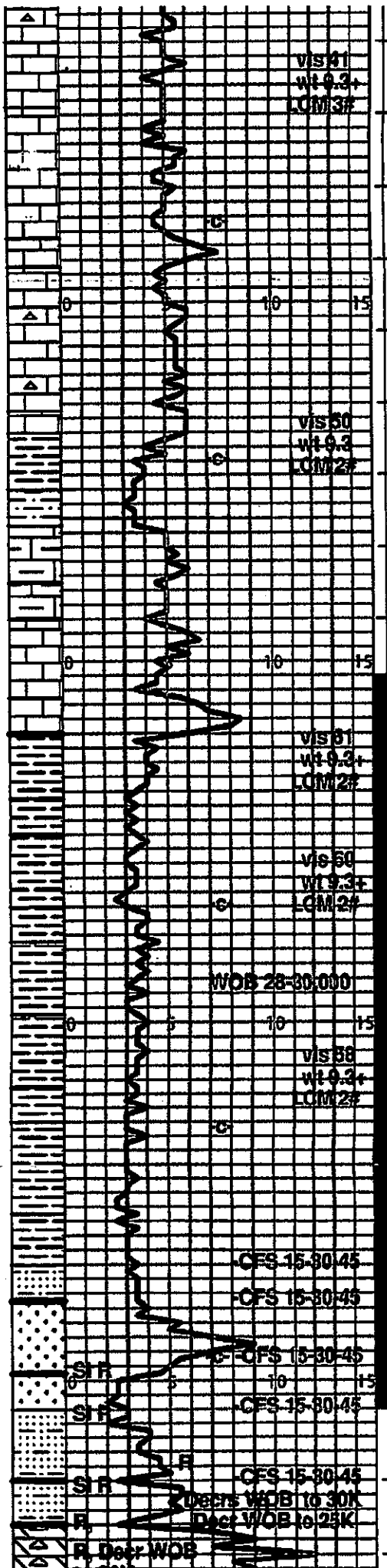
-2950
LS: cm-bf-gy, mxln- frx, sm silic, VCherty vos Pkst, sm wh- chiky.
LS: cm-bf-gy & gn-gy, mxln- vfrxdn, sm doloc, sm silic. CHERTY: blu-gy, shrp, sm sl argil.

vis 53
wt 9.315
LCM 2#

**MUD CHECK
BY FUD MUD:
WT 9.3", VIS 44, PV 30,
YP 22, pH 9.5, WL 8.2,
CI 1400, LCM 2#**

**2879' (-1545)
MISSISSIPPIAN
CHERT**

**2891' (-1557)
MISSISSIPPIAN LS**



LS: cm-bf-gy, mx- vfrxn, sm SI dolomc, sm fos & gmlr Pkst, SI Cherty, sm argil- shly.

LS: AA

LS: cm-bf-gy, mx- vfrxn, sm SI dolomc, sm silic, SI Cherty, sm gmlr fos Pkst, Pr IX Por, Lfos Por, I.Gr Por. NS.

LS: cm-bf-gy, AA, Incrs fos Pkst- mx- frxn, Pr- VPr Por, NS.

LS: cm-bf-gy, mx- frxn, sm gmlr-fragmtl Pkst. CHERTY: cm-blu-gy, sm fos, shrp, Rprtr mxn, sm VSI dolomc.

LS: AA & dn Mdst & gn-gy argil, VPr- NVP. NS.

SH: lt- dk gn-gy & blk, VRr mm-rd SH.

SH: AA & SILTS: lt- dk gn-gy, sm calc & lmy.

SH & SILTS & LS: gy, argil Mdst.

LS: gy-tr-cm, Abndt dn Mdst, sm argil- shly.

LS: gy-tr-cm, dn- cryptox- mx Mdst & mx- frx Wkst- Pkst, AA.

LS: AA & gy-bn, dn Mdst, sm pyrte.

(KINDERHOOK) SH: lt-dk gy & gn-gy, sm pyrte.

SH: lt-dk gn-gy & sm blk carb.

SH- SILTS: gy, micac.

Incrs SH: blk subcarb- carb- Vcarb & dk gy- blk.

SH: AA, pred dk gy-blk, sm carb.

SH: dk gy-bn, sm SI dolomc- subcarb, VSI pyrte.

SH: gy-bn-blk, Abndt SI dolomc, VSI micac.

SH: gy-bn-blk, sm mx- dolomc, Rr pyrte, sm carb- Vcarb, sm phos.

SH: AA, sm dolomc & phos, sm pyrte, Rr blk carb SH. (LS: AA)

VRr SD CLUST: gy-wh, Vfr- fn Gr'd, well cmt'd, VPr- Pr Por, sm shly, Trc fibril w/Trc SFO- FLR.

{UPPER SIMPSON} SS- SD CLUST: wh-gy-Tn- STN, Vfr- Vcrs Gr'd, Pr sort'd, pred fn- md Gr'd, well cmt'd, Pr- Rr Fr Por, sp'd- sat Tn STN- FLR, Fr- Gd SFO, sm dd STN. {MIDDLE SIMPSON} SS- SD CLUST: gy-wh, gn-gy, pred Vfr Gr'd, Vwell sort'd & Vwell cmt'd- sm shly- gn, Rr Vfr-fn & Vfr-md Gr'd w/Pr Por, VRr Gd Por, ~10% w/SFO- STN. SS- SD CLUST: AA, pred Vfr Gr'd, Vwell cmt'd, Vwell sort'd, Rr Pr sort, Vfr- ers Gr'd, sm shly, pred well cmt'd. <5% AA w/SFO- STN-FLR. & SH: gn-gy-blk & mm. SS- SD CLUST: AA, sm fn- md Gr'd, Pr- Fr Por, <5% w/SFO- STN {ARBUCKLE} DOLO: cm-tr-gy, fn- mxn, VRr prt crsxn- rhmbc, Rr Fr- Gd Por: vug Por, IX Por. NS. DOLO: bf-tr-av, Incrs mxn- Rr crsxn- Vcrsxx- 2RX- rhmbc

**MUD CHECK
BY FUD MUD:
WT 9.2+, VIS 52, PV 32,
YP 22, pH 9.5, WL 7.8,
CI 1100, LCM 2#**

**3066' (-1732)
KINDERHOOK**

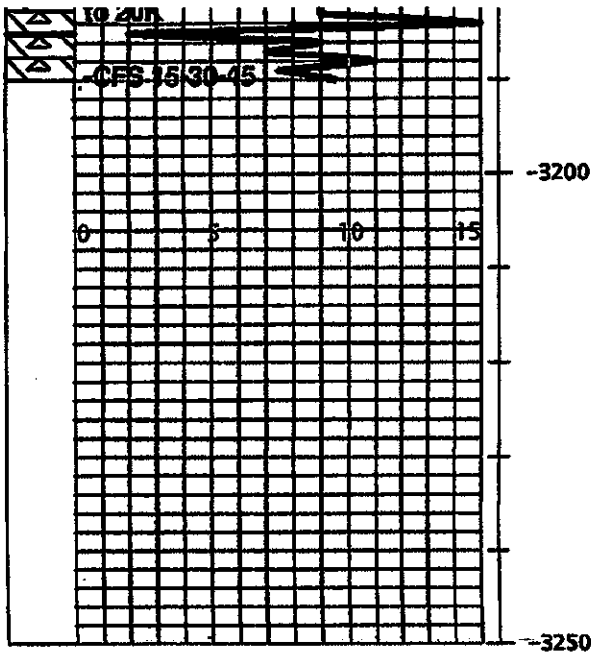
**DST #1
SIMPSON
3058'-3160'
30-30-60-60
1st Op: wk blo
incrs to 3"
2nd Op: wk blo
incrs to 6"**

**Rec: 222' GWM
(1%G,79%M,
20%W- scum oil)
IHP: 1503
IFP: 16-55
ISIP: 1149
FFP: 58-124
FSIP: 1149
FHP: 1489
BHT: 106 F**

**{Trc SFO}
3145' (-1811)
U.SIMPSON SS
{Fr- Gd SFO}**

**3155' (-1821)
M. SIMPSON SS
{SI SFO}
{VSI SFO}**

**{VSI SFO}
3176' (-1842)
ARBUCKLE**



w/sm Fr- Gd For. NS. Fr pyrto Dol. CHERTY: cm-bf & transl qtz & blu-gy, sm ool- mot, pred shrp.

3190' (-1856)
RTD

RANGE OIL CO, INC.
MOEDER #1
620' FSL & 1650' FWL
Sec 4-29S-03E
BUTLER CO., KS
API#15-015-23947

DIAMOND TESTING

Pressure Survey Report

General Information

Company Name	RANGE OIL CO.	Job Number	M883
Well Name	MOEDER #1	Representative	MIKE COCHRAN
Unique Well ID	DST#1 3058-3160 SIMPSON SS	Well Operator	RANGE OIL CO.
Surface Location	SEC.4-29S-3E BUTLER CO.KS.	Report Date	2012/07/16
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	ROGER MARTIN
		Test Unit	NO. 1

Test Information

Test Type	CONVENTIONAL		
Formation	DST#1 3058-3160 SIMPSON SS		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2012/07/16	Start Test Time	12:25:00
Final Test Date	2012/07/16	Final Test Time	23:05:00
		Well Fluid Type	01 Oil
Gauge Name	30037		
Gauge Serial Number			

Test Results

Remarks RECOVERED:

222' GMW 1% GAS, 79% MUD, 20% WTR W A THIN SCUM OF OIL, SLIGHT ODOR
222' TOTAL FLUID

CHLOR: 5,000 PPM

PH:8.0

RW: 1.0 @ 88 DEG

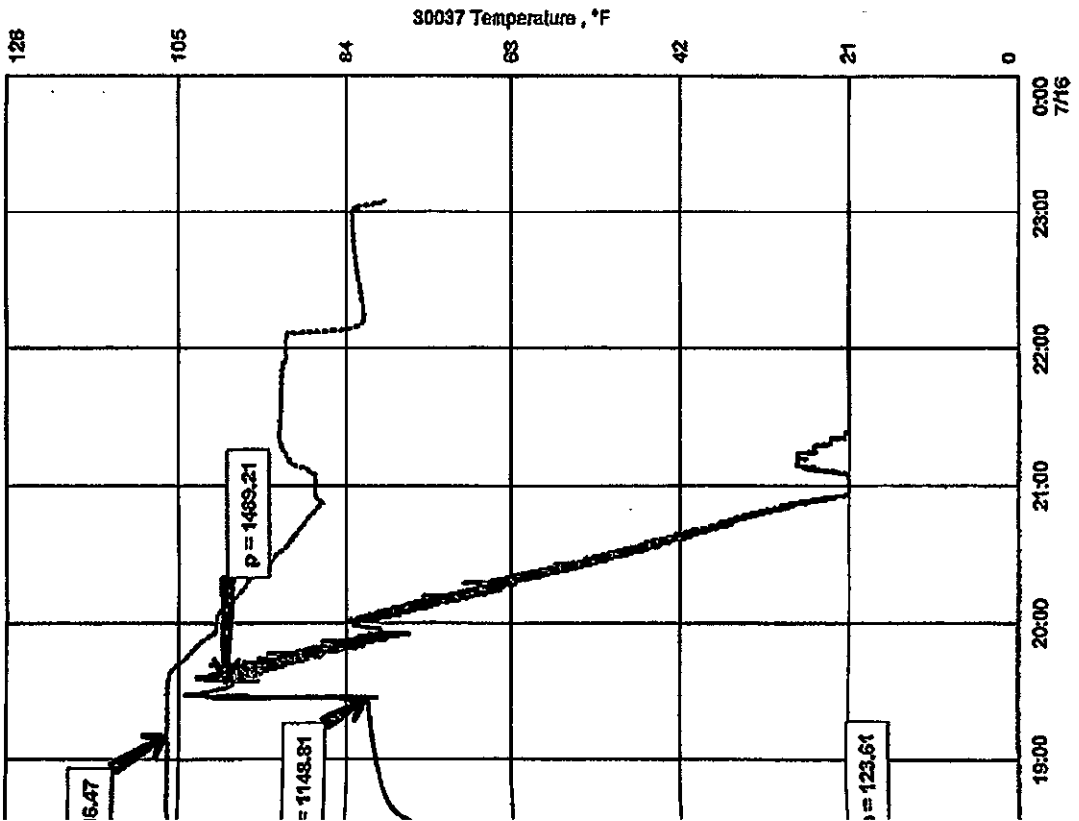
TOOL SAMPLE: 100% DRLG MUD

WinData™ Ver 7.3.0.44 121933
Citizens/Roger Friedly/Documents/MIKEDST/WOEDER #1/MDR1DST1/MDR1DST1CHT.FKT 15-Jul-11 1

Fast

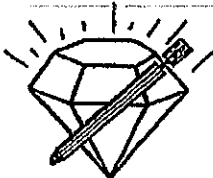
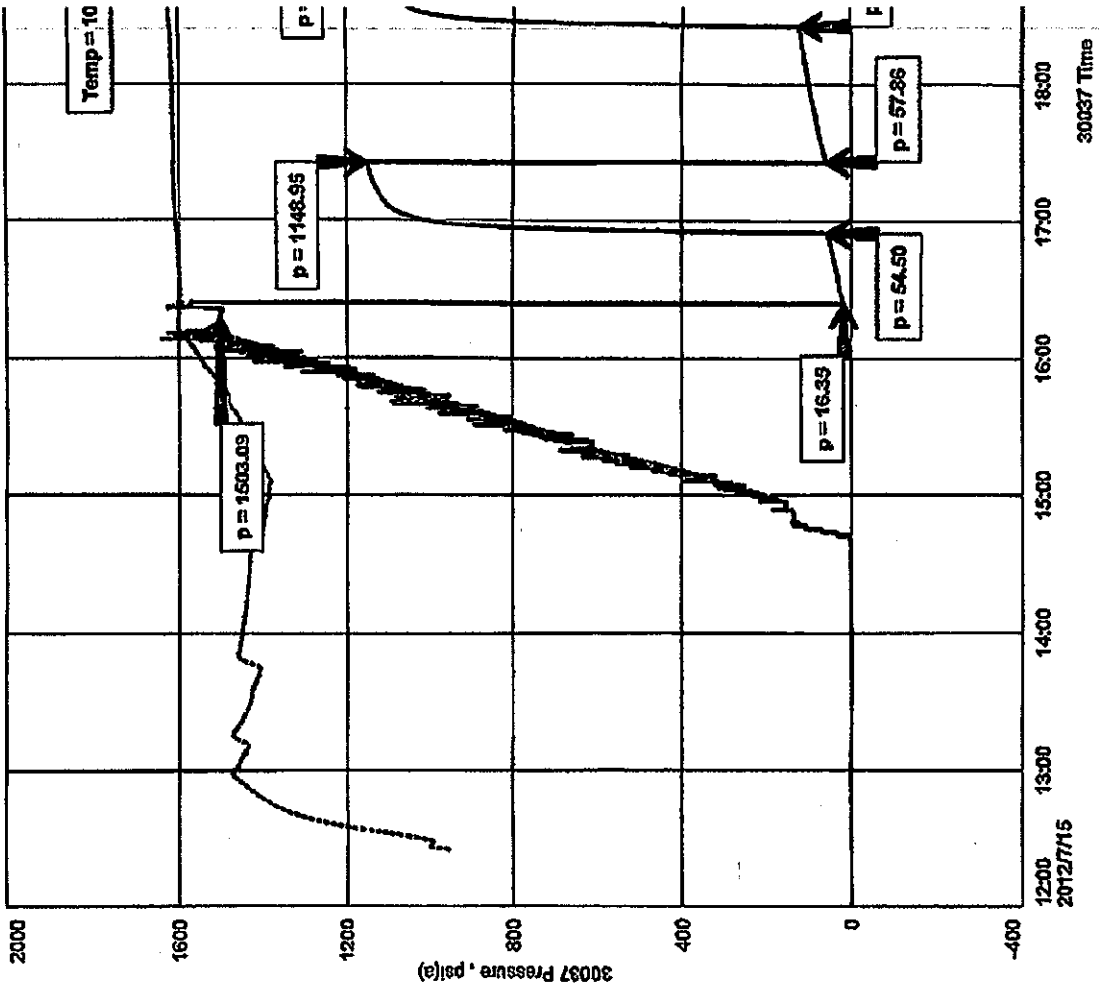
MOEDER #1
Formation: DST#1 3058-3160 SIMPSON SS
Pool: WILDCAT
Job Number: M353

#1



RANGE OIL CO.
 DST#1 3058-3160 SIMPSON SS
 Start Test Date: 2012/07/15
 Final Test Date: 2012/07/15

MOEDER



DIAMOND TESTING
 P.O. Box 157
 HOISINGTON, KANSAS 67544
 (800) 642-7313
DRILL-STEM TEST TICKET
 FILE: MDR1DST1

TIME ON: 1225
 TIME OFF: 2305

Company RANGE OIL CO. Lease & Well No. MOEDER #1
 Contractor SUMMIT RIG Charge to RANGE OIL CO.
 Elevation 1334 KB Formation SIMPSON SS Effective Pay _____ FL Ticket No. M359
 Date 7/15/2012 Sec. 4 Twp. 29 S Range 3 E W County BUTLER State KANSAS
 Test Approved By ROGER MARTIN Diamond Representative MIKE COCHRAN

Formation Test No. 1 Interval Tested from 3058 ft. to 3160 ft. Total Depth 3160 ft.
 Packer Depth 3053 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.
 Packer Depth 3058 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Depth of Selective Zone Set _____
 Top Recorder Depth (Inside) 3080 ft. Recorder Number 30037 Cap. 6,000 P.S.I.
 Bottom Recorder Depth (Outside) 3157 ft. Recorder Number 13386 Cap. 3,875 P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.
 Mud Type CHEM Viscosity 57 Drill Collar Length 250 ft. I.D. 2 1/4 in.
 Weight 9.3 Water Loss 7.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
 Chlorides 1,100 P.P.M. Drill Pipe Length 2776 ft. I.D. 3 1/2 in.
 Core Make STERLING Serial Number 1 Test Tool Length 32 ft. Tool Size 3 1/2 in.

Did Well Flow? NO Reversed Out NO Anchor Length 102 ft. Size 4 1/2-FH in
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. (64'D.C.) Surface Choke Size 1 in. Bottom Choke Size 5/8 in

Blow: 1st Open: A WSB THAT INC TO 3" (NO BB)
 2nd Open: A WSB THAT INC TO 6" (NO BB)

Recovered 222 ft. of GMW 1% GAS, 79% MUD, 20% WTR/W A THIN SCUM OF OIL, SLIGHT ODOR

Recovered 222 ft. of TOTAL FLUID

Recovered ft. of

Recovered ft. of CHLOR: 5,000 PPM

Recovered ft. of PH:8.0 Price Job

Recovered ft. of RW: 1.0 @ 88° Other Charges

Remarks: Insurance

 Total

TOOL SAMPLE: 100% DRLG MUD

Time Set Packer(s) 4:30 P.M. A.M. Time Started Off Bottom 7:30 P.M. A.M. Maximum Temperature 108
P.M. P.M.

Initial Hydrostatic Pressure..... (A) 1503 P.S.I.

Initial Flow Period..... Minutes 30 (B) 16 P.S.I. to (C) 55 P.S.I.

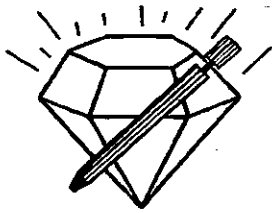
Initial Closed In Period..... Minutes 30 (D) 1149 P.S.I.

Final Flow Period..... Minutes 60 (E) 58 P.S.I. to (F) 124 P.S.I.

Final Closed In Period..... Minutes 60 (G) 1149 P.S.I.

Final Hydrostatic Pressure..... (H) 1489 P.S.I.

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



DIAMOND TESTING

P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313
STC 30037.D353

Company Range Oil Company, Inc. Lease & Well No. Moeder No. 1

Elevation 1334 KB Formation Simpson SS Effective Pay -- ft. Ticket No. M353

Date 7-15-12 Sec. 4 Twp. 29S Range 3E County Butler State Kansas

Test Approved By Roger L. Martin Diamond Representative Michael Cochran

Formation Test No. 1 Interval Tested from 3,058 ft. to 3,160 ft. Total Depth 3,160 ft.

Packer Depth 3,053 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 3,058 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 3,060 ft. Recorder Number 30037 Cap. 6,000 psi

Bottom Recorder Depth (Outside) 3,157 ft. Recorder Number 13386 Cap. 3,875 psi

Below Straddle Recorder Depth ft. Recorder Number Cap. psi

Drilling Contractor Summit Drilling Company - Rig 1 Drill Collar Length 250 ft. I.D. 2 1/4 in.

Mud Type Chemical Viscosity 57 Weight Pipe Length -- ft. I.D. -- in.

Weight 9.3 Water Loss 7.8 cc. Drill Pipe Length 2,776 ft. I.D. 3 1/2 in.

Chlorides 1,100 P.P.M. Test Tool Length 32 ft. Tool Size 3 1/2 - IF in.

Jars: Make Sterling Serial Number 1 Anchor Length 38' perf. w/64' drill collar Size 4 1/2 - FH in.

Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Main Hole Size 7 7/8 in. Tool Joint Size 3 1/2 - FH in.

Blow: 1st Open: Weak, surface blow increasing to 3 ins. No blow back during shut-in.

2nd Open: Weak, surface blow increasing to 6 ins. No blow back during shut-in.

Recovered 222 ft. of gassy watery mud with a thin scum of oil & a slight odor = 1.647240 bbls. (Grind out: 1%-gas; 20%-water; 79%-mud)

Recovered ft. of Chlorides: 5,000 Ppm

Recovered ft. of PH: 8.0 RW: 1.0 @ 88°

Recovered ft. of

Recovered ft. of

Remarks Tool Sample Grind Out: 100%-drilling mud

Time Set Packer(s) 4:30 A.M. P.M. Time Started Off Bottom 7:30 A.M. P.M. Maximum Temperature 106°

Initial Hydrostatic Pressure (A) 1503 P.S.I.

Initial Flow Period Minutes 30 (B) 16 P.S.I. to (C) 55 P.S.I.

Initial Closed In Period Minutes 30 (D) 1149 P.S.I.

Final Flow Period Minutes 60 (E) 58 P.S.I. to (F) 124 P.S.I.

Final Closed In Period Minutes 60 (G) 1149 P.S.I.

Final Hydrostatic Pressure (H) 1489 P.S.I.



CONSOLIDATED
Oil Well Services, LLC

ENTERED COPY

TICKET NUMBER 34890
LOCATION Eureka, KS
FOREMAN Shannon Feck

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT

CEMENT API # 15-015-23947

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
7-16-12	6942	Moeder #1	4	29S	3E	Butler
CUSTOMER Range Oil Company Inc			Summit Drly			
MAILING ADDRESS 125 N. Market St 1120						
CITY Wichita		STATE KS	ZIP CODE 67202			
TRUCK #	DRIVER	TRUCK #	DRIVER			
445	Dave G.					
667	Chris B					

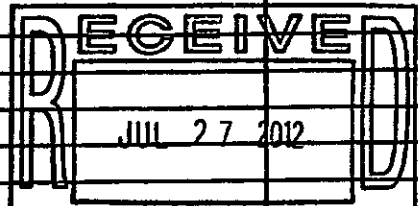
JOB TYPE P.T.A. 0 HOLE SIZE 7 7/8" HOLE DEPTH 3190' CASING SIZE & WEIGHT 8 5/8" Surface Pipe
 CASING DEPTH --- DRILL PIPE 4" TUBING --- OTHER ---
 SLURRY WEIGHT --- SLURRY VOL --- WATER gal/sk 6.95 CEMENT LEFT IN CASING ---
 DISPLACEMENT --- DISPLACEMENT PSI --- MIX PSI --- RATE ---

REMARKS: Safety Meeting, Rig up to 4" drill pipe & set following plugs

- #1 @ 3170' - 35 SKS
- #2 @ 260' - 35 SKS
- #3 @ 60' to Surface - 25 SKS Keep hole Full, Job Complete.

Thanks Shannon & Crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5405N	1	PUMP CHARGE	1030.00	1030.00
5406	40	MILEAGE	4.00	160.00
1131	95 SKS	60/40 Pozmix Cement	12.55	1192.25
1118 B	330 #	1cel @ 4%	.21	69.30
5407	Tons	Ton mileage bulk Truck	M/C	350.00
			Sub Total	2801.55
			SALES TAX 6.55%	82.63
			ESTIMATED TOTAL	2884.18



Rev'n 3737

AUTHORIZATION [Signature] TITLE _____ DATE _____

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.