



KANSAS CORPORATION COMMISSION 1105685
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: Ken Wallace
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 #: _____
08/21/2012 08/27/2012 08/28/2012
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 15-169-20341-00-00
Spot Description: _____
NE NW SE Sec. 15 Twp. 15 S. R. 2 East West
2500 Feet from North / South Line of Section
2000 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Saline
Lease Name: Ross-Henry Well #: 1
Field Name: _____
Producing Formation: none
Elevation: Ground: 1374 Kelly Bushing: 1384
Total Depth: 2836 Plug Back Total Depth: _____
Amount of Surface Pipe Set and Cemented at: 316 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: 2100 ppm Fluid volume: 500 bbls
Dewatering method used: Hauled to Disposal
Location of fluid disposal if hauled offsite: _____
Operator Name: Scott's Well Service
Lease Name: Hess License #: 6819
Quarter NE Sec. 31 Twp. 15 S. R. 1 East West
County: Saline Permit #: E23931-1

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: Deanna Garrison Date: 01/14/2013



1105685

Operator Name: Range Oil Company, Inc. Lease Name: Ross-Henry Well #: 1
 Sec. 15 Twp. 15 S. R. 2 East West County: Saline

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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input checked="" type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Name</th> <th style="text-align: left;">Top</th> <th style="text-align: left;">Datum</th> </tr> </thead> <tbody> <tr> <td>Heebner</td> <td>1990</td> <td>-606</td> </tr> <tr> <td>Lansing</td> <td>2193</td> <td>-809</td> </tr> <tr> <td>Kansas City</td> <td>2352</td> <td>-968</td> </tr> <tr> <td>BKC</td> <td>2520</td> <td>-1136</td> </tr> <tr> <td>Burgess</td> <td>2818</td> <td>-1434</td> </tr> <tr> <td>Mississippian</td> <td>2824</td> <td>-1440</td> </tr> <tr> <td>RTD</td> <td>2836</td> <td>-1452</td> </tr> </tbody> </table>	Name	Top	Datum	Heebner	1990	-606	Lansing	2193	-809	Kansas City	2352	-968	BKC	2520	-1136	Burgess	2818	-1434	Mississippian	2824	-1440	RTD	2836	-1452
Name	Top	Datum																							
Heebner	1990	-606																							
Lansing	2193	-809																							
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BKC	2520	-1136																							
Burgess	2818	-1434																							
Mississippian	2824	-1440																							
RTD	2836	-1452																							

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	24.	316	common	200	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 (Amount and Kind of Material Used)	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)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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ENTERED

TICKET NUMBER 37871
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 # 15-169-20341

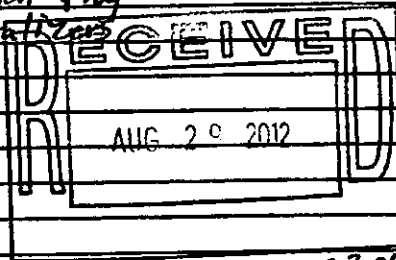
DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
8-22-12	6942	Ross-Henry #1	15	155	2 W	Saline
CUSTOMER Range Oil Company Inc.			Submit Drtg			
MAILING ADDRESS 125 N Market Suite 1120			TRUCK #	DRIVER	TRUCK #	DRIVER
CITY Wichita			520	John S		
STATE KS			611	Joey K		
ZIP CODE 67202						

JOB TYPE Surface HOLE SIZE 12 1/4" HOLE DEPTH 321' CASING SIZE & WEIGHT 8 3/8 @ 23#
 CASING DEPTH 304.0' 6.L DRILL PIPE --- TUBING --- OTHER ---
 SLURRY WEIGHT 14.5-15# SLURRY VOL 51 Bbl WATER gal/sk 6.5 CEMENT LEFT IN CASING 20'
 DISPLACEMENT 19 Bbl DISPLACEMENT PSI --- MIX PSI 100 RATE 5 BPM

REMARKS: Safety Meeting, Rig up to 8 3/8 Casing with head & manifold, Have drilling rig load hole & break circulation. Hook back up with pump truck, pump 1 Bbl go straight to cement, mixed 200 SKS Class "A" cement with 3% calcium 2% gel & 1/2 # Flo-cel/sk @ 14.5-15#/gal. Release wooden plug & displace with 19 Bbl water, & shut well in. Good circulation @ all times 12 Bbl slurry to Pit Job complete.

Thanks Shannon & Crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401S	1	PUMP CHARGE	825.00	825.00
5406	100	MILEAGE	4.00	400.00
1104S	200 SKS	Class "A" Cement	14.95	2990.00
1102	565 #	Calcium @ 3%	.74	418.10
1118B	380 #	Gel @ 2%	.21	79.80
1107	100 #	Flo-cel @ 1/2#/sk	2.35	235.00
5407A	9.4 Tons	Ton mileage bulk Truck	1.34	1259.60
4432	1	8 3/8" Wooden Plug	80.00	80.00
4132	2	8 3/8" Centralizers	69.00	138.00
			Sub Total	6425.50
			SALES TAX 7.3%	287.69
			ESTIMATED TOTAL	6713.19



250300

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.



ENTERED

TICKET NUMBER 37873
LOCATION Eureka, KS
FOREMAN Shannon Feck

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

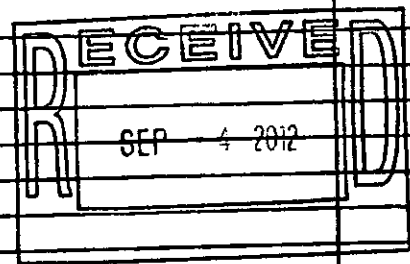
FIELD TICKET & TREATMENT REPORT
CEMENT API # 15-169-20341 KS

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
9-28-12	6942	Ross Henry #1	15	15S	2W	Saline
CUSTOMER Range Oil Company Inc			Summit DRL6			
MAILING ADDRESS 125 N. Market Suite 1120			TRUCK #	DRIVER	TRUCK #	DRIVER
CITY Wichita			445	Dave B		
STATE KS			515	Calin H		
ZIP CODE 67202						

JOB TYPE P.T.A. 0 HOLE SIZE 12 1/4 sp 7 1/2 o.h. HOLE DEPTH 2836' CASING SIZE & WEIGHT 8 3/8" Surface Casing
 CASING DEPTH _____ DRILL PIPE 4" .01084 TUBING _____ OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk 7.0 CEMENT LEFT in CASING _____
 DISPLACEMENT _____ DISPLACEMENT PSI _____ MIX PSI _____ RATE _____
 REMARKS: Safety Meeting, rig up to 4" drill pipe & set Following plugs

#1 35 SKS @ 370'
 #2 25 SKS @ 60' to Surface, Hole stayed 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	100	MILEAGE	4.00	400.00
1131	60 SKS	60/40 Pozmix Cement	12.55	753.00
1118 B	210 #	6el @ 4%	.21	44.10
5407	2.58 Tons	Ton Mileage bulk Truck	M/C	350.00
			Sub Total	2577.10
			7.3% SALES TAX	58.19
			ESTIMATED TOTAL	2635.29



252489

AUTHORIZATION Dan Co 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

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY <u>Range Oil Company, Inc.</u>	ELEVATIONS
LEASE <u>#1 Ross-Heary</u>	KB <u>1384'</u>
FIELD <u>Bachofer</u>	DF _____
LOCATION <u>2500' FSL & 2000' FEL, SE 1/4</u>	GL <u>1374'</u>
SEC <u>15</u> TWSP <u>15s</u> RGE <u>2w</u>	Measurements Are All From <u>K.B.</u>
COUNTY <u>Saline</u> STATE _____	
CONTRACTOR <u>Summit Drilling Co, Rig #1</u>	CASING SURFACE <u>8 5/8" @</u>
SPUD <u>8/22/12</u> COMP <u>8/28/12</u>	PRODUCTION <u>none</u>
RTD <u>2836'</u> LTD <u>No Log</u>	ELECTRICAL SURVEYS <u>none</u>
MUD UP <u>1400'</u> TYPE MUD <u>chemical</u>	
SAMPLES SAVED FROM <u>20' samples to 1980'</u> <u>10' samples 1980 to RTD</u>	TO _____
DRILLING TIME KEPT FROM <u>1900'</u>	TO <u>RTD</u>
SAMPLES EXAMINED FROM <u>1900'</u>	TO <u>RTD</u>
GEOLOGICAL SUPERVISION FROM <u>1900'</u>	TO <u>RTD</u>
GEOLOGIST ON WELL <u>Ken Wallace</u>	

FORMATION TOPS	LOG	SAMPLES
<u>Heebner</u>		<u>1990 (-606)</u>
<u>Toronto</u>		<u>2011 (-627)</u>
<u>Lansing</u>		<u>2193 (-809)</u>
<u>Kansas City</u>		<u>2353 (-968)</u>
<u>Stack sh</u>		<u>2448 (-1064)</u>
<u>Cherokee sh</u>		<u>2695 (-1311)</u>
<u>Burgess sd</u>		<u>2818 (-1434)</u>
<u>Miss Ls</u>		<u>2824 (-1440)</u>

REMARKS Tested non-commercial in Mississippi - plugged & abandoned
Ken Wallace, P.G.

LEGEND

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

SCALE " = 100'

DEPTH
DRILLING TIME - Minutes Per Foot
Ratio of Penetration Decreases

SAMPLE DESCRIPTIONS
REMARKS

1900'

20

40

60

80

2000'

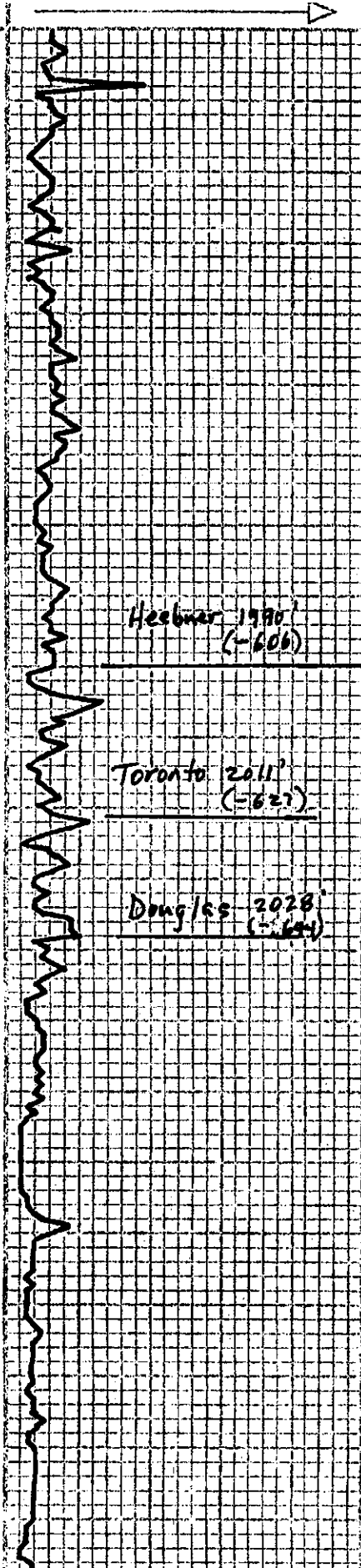
20

40

60

80

2100'



Hebner 1990' (-606)

Ls, wh-htgg, sm tan, gran-
chy, sl ool, sl dty, NS

sh, black
Ls, tan, dse, NS

Toronto 2011' (-623)

sh, gy

Ls, wh, sl ool, foss, dse-
cky, NS

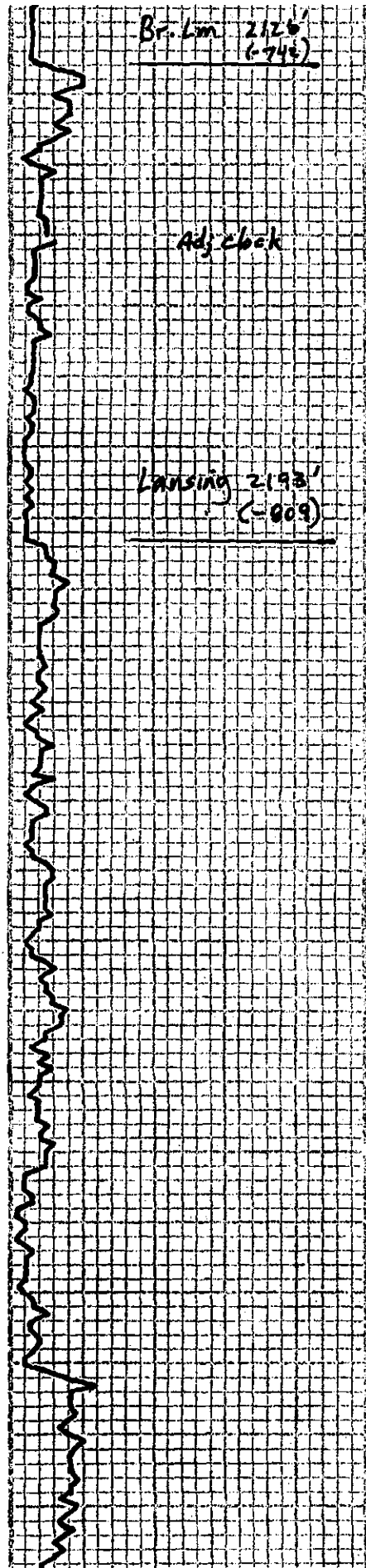
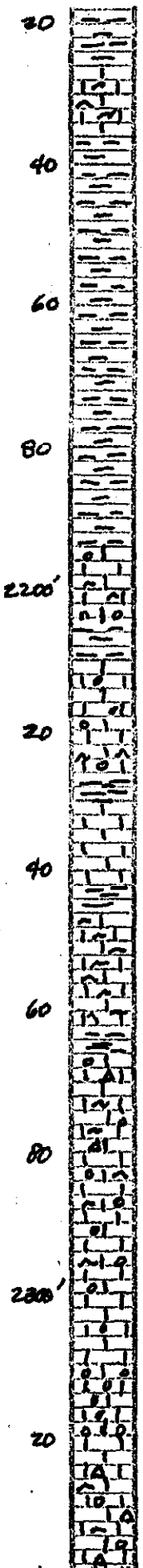
Douglas 2028' (-634)

sh, wxy gm, sm gy, sl micac

ss, gy, vy fn grd, well
sort, fr inteng. p, NS
sm pyrite

sh, gy, sl micac

AA, sm pyrite



Br. Lm 2126'
(-746)

Adj. clock

Lansing 2193'
(-809)

Ls, brwn, cs xln, foss
NS

sh, gy, red, sm pyrite

A.A.

Ls, bn ff, sl foss, ool,
med xln-cky, NS

sh gy, sm red

Ls, gy, ool, granul, cr
xlyn, NS

AA, foss, sm motlg

sh, dk gy

Ls, tan, ool, foss, pyrite
inclusions, NS

Ls, ltgy - med gy, foss
NS

sh, gy, sm red

Ls, tan, sl ool, foss, fahn-
duse, sl dty

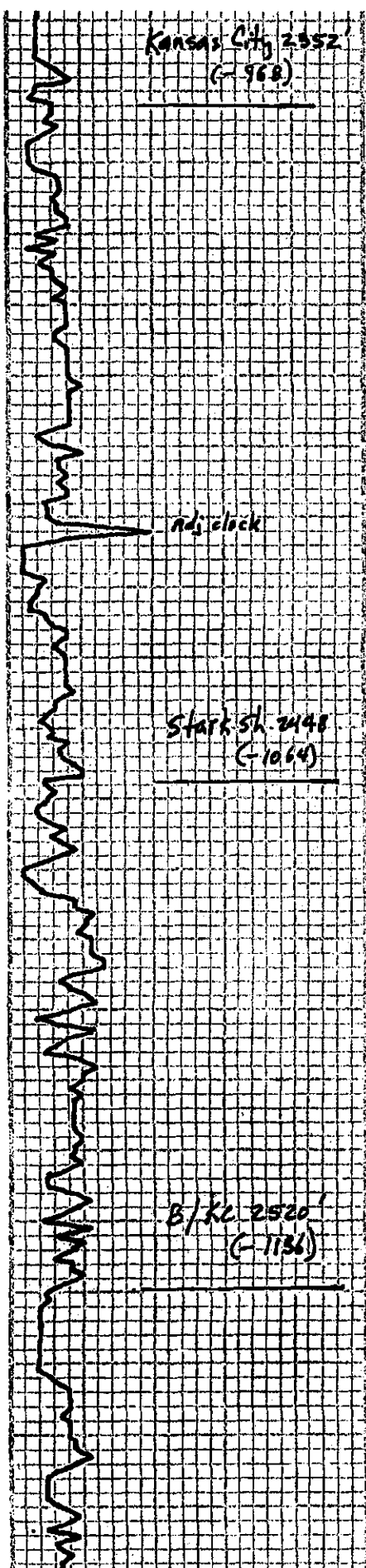
Ls, med gy, ool, fahn,
foss, pyrite incls, NS

Ls, gy-brwn, ool, p-sort
ool, foss, NS

Ls, wh-ltgy, ool, foss,
c.xln, ddkgy

to used ...

40
60
80
2400'
20
40
60
80
2500'
20
40



Kansas City 2552
(-968)

sh, med gy, tan wh, ls,
granl - dse, gd sorted
oolts, sl dty, NS

sh, gy, sm red
Ls, buff, sl ool, foss,
dense cky, dty

Ls, tan, ool, foss,
exln, NS

nd, black

sh, dk gy - black

Ls, tan, ool, fn-med
oolts, sm ool, sm
intergl, NS

Ls, AA, dse-cky, NS

Stark sh 2448
(-1064)

AA, foss & dty

sh, black

Ls, lt gy, sm wh, foss,
sl ool, dense, sm Δ,
sm pyrite, NS

sh, black

Ls, wh, ool, foss, granl
in pt, sm dense tan Ls
NS

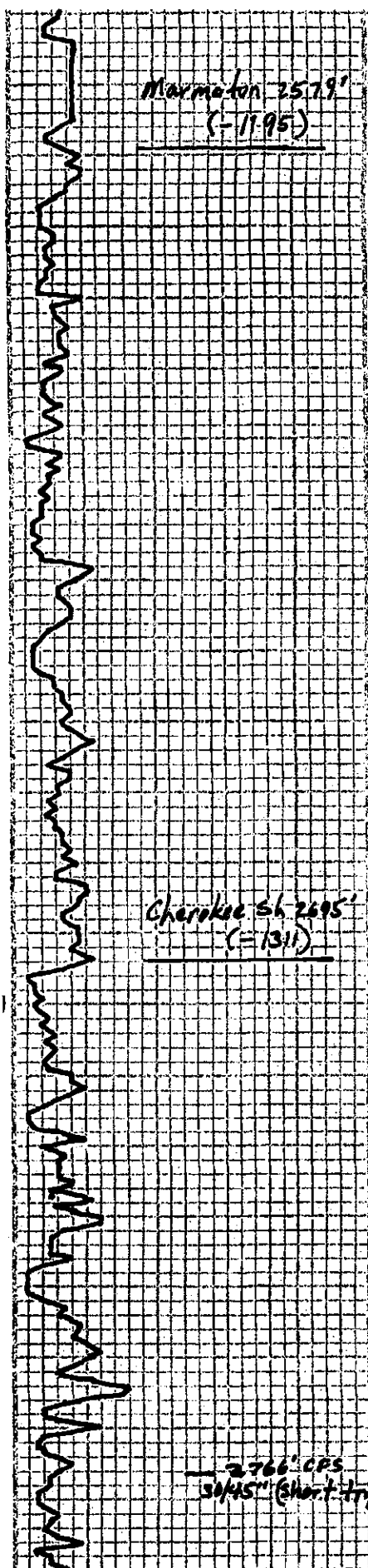
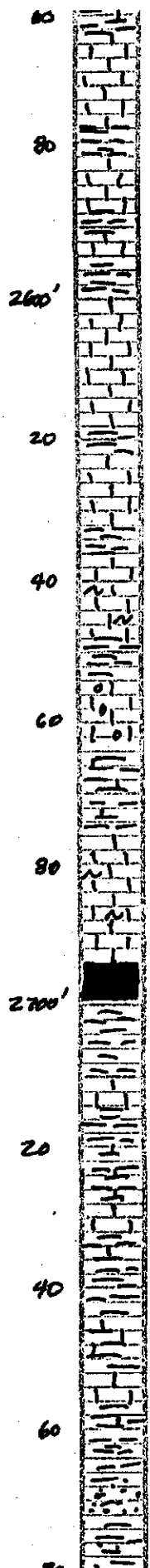
B/KC 2520
(-1136)

Ls, lt gy - tan, dse-cky
dty, sm pyrite, NS
sh, gg

sh, lt gy, sm lt grn
Ls, dense, NS

Ls, tan-brwn, foss,
exln - dense, NS

sh, gy, sm brwn, grn &
red
Ls, med gy - brwn, exln,
foss, NS



Marmaton 2579'
(=1195)

Ls, tan, fxl - cky
NS

sh, gy - black
Ls, brwn, c.xln, sm
pcc grn sh

sh, gy, grn, brwn, foss,
pyrite
Ls, tan, med xln -
cky, NS

sh, dk gy - black
Ls, tan-gy, dense-cky
NS

sh, gy, sm grn, pyrite
Ls, brwn, sl foss, c.xln
sm cky, NS

sh, gy - lt grn
Ls, brwn, ool, fxl -
sl cky, pyrite, NS

sh, gy & lt grn, argl
Ls, NS

Ls, tan-brwn, med
xln, sl foss, NS

Cherokee sh 2695'
(=131)

sh, black

sh, gy, sm yellow-grn,
foss
Ls, med gy, med xln,
sl cky

sh, gy, grn - yellow, sm
dk gy foss Ls, NS

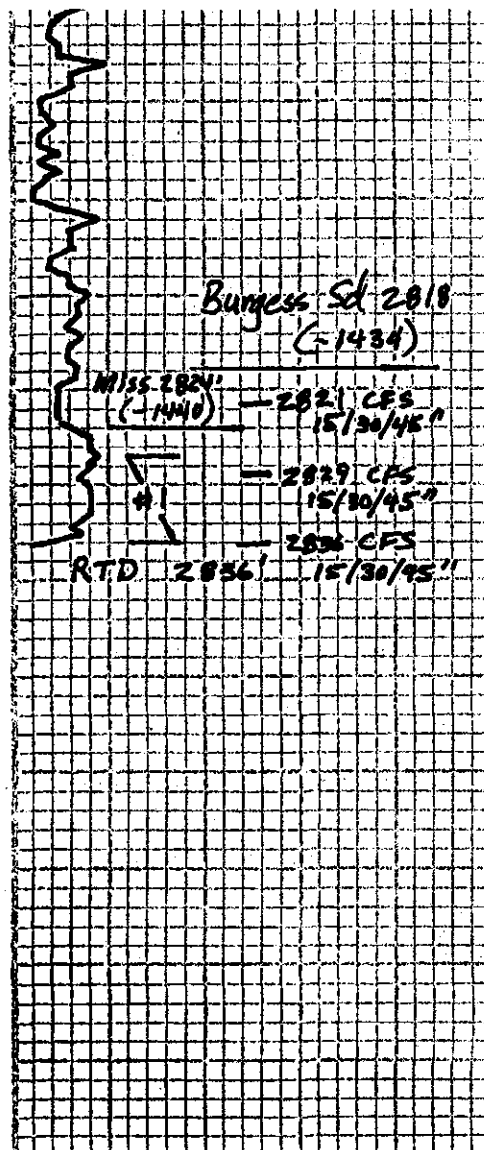
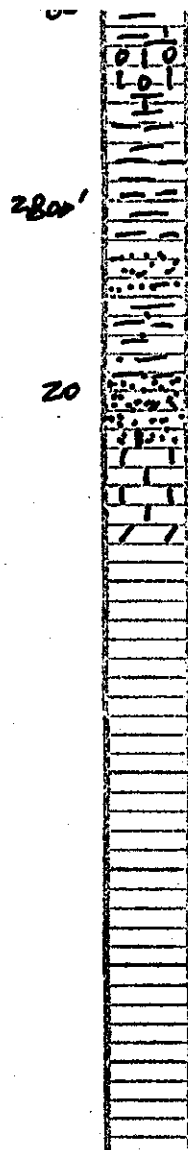
sh, AA & gy - bln, xln -
dense, Ls

sh, yellow-grn, sm
yellow-grn argl Ls
NS.

2766' c.p.s.
30' NS (short trip)

30' sh, maroon, gy, yellow
sm banded sh, argl Ls
AA sm gy, fgrd, hard SS
NS

DST #1 2827-2826
(Mississippi)



vc sh & ls, salt & papr
color, fuss, ool, glauco
NS

Sh, vc

ss, gy, fn grnd, psortd,
soft, NS

vc sh w/ pyrite, dty

15" AA

30" ss, gy, fn grnd, glauco,
45" f sortd, vssso, gd odor

2829' 15" ssAA, dty, vssso
30" ls, wh, ool, glauco,
f.m. tangl. p. pyrite,
vssso, gd odor

45" AA

2836' 15" AA, more cornd,
sl dol, gd sfo, gd odor

30" Dol, tan, sl sacro-
dense, pug p, sfo,
gd odor

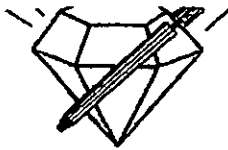
45" AA but gd sacro
dol, f ppt & ug p
GSFO, gd odor

30-30-60-60
IF - BOB 5 min.
ISI - No blow
FF - BOB 5 min.
FSI - No blow

Rec: 45' 60, 180'
vsow (30% oil), 900'
wtr

IF 14-265#
FF 264-525#

FSIP 780#
FSIP 779#



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313
STC 30046.D1201

Company Range Oil Company, Inc. Lease & Well No. Ross-Henry No. 1
Elevation 1372 EGL Formation Mississippi Effective Pay _____ Ft. Ticket No. J2997
Date 8-27-12 Sec. 15 Twp. 15S Range 2W County Saline State Kansas
Test Approved By Ken Wallace Diamond Representative John C. Riedl

Formation Test No. 1 Interval Tested from 2,827 ft. to 2,836 ft. Total Depth 2,836 ft.
Packer Depth 2,822 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Packer Depth 2,827 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Depth of Selective Zone Set _____ ft.

Top Recorder Depth (Inside) 2,830 ft. Recorder Number 30046 Cap. 6,000 psi.
Bottom Recorder Depth (Outside) 2,833 ft. Recorder Number 11073 Cap. 4,000 psi.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ psi.

Drilling Contractor Summit Drilling Company - Rig 1 Drill Collar Length 310 ft I.D. 2 1/4 in.
Mud Type Chemical Viscosity 45 Weight Pipe Length _____ ft I.D. _____ in.
Weight 9.2 Water Loss 9.3 cc. Drill Pipe Length 2,491 ft I.D. 3 in.
Chlorides 1,500 P.P.M. Test Tool Length 26 ft Tool Size 3 1/2-IF in.
Jars: Make Sterling Serial Number 2 Anchor Length 9 ft. 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-XH in.

Blow: 1st Open: Strong blow. Off bottom of bucket in 5 mins. No blow back during shut-in.
2nd Open: Strong blow. Off bottom of bucket in 5 mins. No blow back during shut-in.

Recovered 45 ft. of clean oil = .367650 bbls. (Grind out: 10%-gas; 90%-oil) Gravity: 36
Recovered 180 ft. of slightly oil cut water = 1.470600 bbls. (Grind out: 3%-oil; 97%-water)
Recovered 900 ft. of water = 6.345500 bbls. (Chlorides: 65,000 Ppm)
Recovered 1,125 ft. of TOTAL FLUID = 8.183750 bbls.
Recovered _____ ft. of _____
Recovered _____ ft. of _____

Remarks _____

Time Set Packer(s) 12:05 P.M. Time Started off Bottom 3:05 P.M. Maximum Temperature 115°
Initial Hydrostatic Pressure.....(A) 1379 P.S.I.
Initial Flow Period.....Minutes 30 (B) 14 P.S.I. to (C) 253 P.S.I.
Initial Closed In Period.....Minutes 30 (D) 780 P.S.I.
Final Flow Period.....Minutes 60 (E) 264 P.S.I. to (F) 525 P.S.I.
Final Closed In Period.....Minutes 60 (G) 779 P.S.I.
Final Hydrostatic Pressure.....(H) 1342 P.S.I.