



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1106925
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

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

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- 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
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ 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: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

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

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1106925

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input 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

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				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
 Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
 Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

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: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method:
 Flowing Pumping Gas Lift 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> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY Range Oil Co
 LEASE Savage 'A' #1
 FIELD _____
 LOCATION 1,080' FNL/2,150' FWL, NW/4
 SEC 22 TWPSP 21S RGE 4E
 COUNTY Marion STATE KS
 CONTRACTOR Summit Drilling Co, Rig 1
 SPUD 11/23/12 COMP 11/30/12
 RTD 2410' LTD 2410'
 MUD UP 1300 TYPE MUD chem

SAMPLES SAVED FROM 1680' TO RTD
 DRILLING TIME KEPT FROM 1300' TO RTD
 SAMPLES EXAMINED FROM 1400' TO RTD
 GEOLOGICAL SUPERVISION FROM 1400' TO RTD
 GEOLOGIST ON WELL Ken Wallace

FORMATION TOPS	LOG	SAMPLES	ELEVATIONS
<u>Oread</u>	<u>1390 (-86)</u>	<u>1390 (-86)</u>	
<u>Heebner</u>	<u>1426 (-122)</u>	<u>1426 (-122)</u>	
<u>Kansing</u>	<u>1681 (-377)</u>	<u>1681 (-377)</u>	
<u>Stark</u>	<u>1986 (-682)</u>	<u>1988 (-684)</u>	
<u>BKC</u>	<u>2090 (-736)</u>	<u>2042 (-788)</u>	
<u>Miss A</u>	<u>2192 (-888)</u>	<u>2191 (-887)</u>	
<u>Misner Sd</u>	<u>2377 (-1073)</u>	<u>2373 (-1069)</u>	
<u>Hunton</u>	<u>2379 (-1075)</u>	<u>2379 (-1075)</u>	
<u>Viola</u>	<u>2398 (-1094)</u>	<u>2396 (-1092)</u>	
<u>RTD</u>		<u>2410 (-1106)</u>	

ELEVATIONS
 KB 1304'
 DF _____
 GL 1294'
 Measurements Are All
 From KB

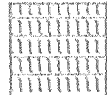

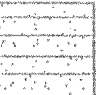

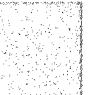
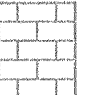
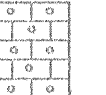
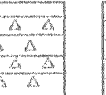

CASING
 SURFACE 8 5/8" @ 224'
 PRODUCTION 5 1/2" @ 2403'

ELECTRICAL SURVEYS
CN/CB, Sonic DI

REMARKS
 11-21-12 MIRT
 11-23-12 Drlg surface hole
 11-24-12 PTD 232', preparing to drill cement, dev. 1/2° @ 232'
 11-25-12 Drlg @ 1186', dev. 3/4° @ 669', 1° @ 1173'
 11-26-12 Drlg @ 1830', dev. 1° @ 1673'
 11-27-12 Cir @ 2200, dev. 1 1/4° @ 2174'
 11-28-12 PTD 2379', Running DST #1 2365-2379'
 11-29-12 RTD 2410', Prep to log, Ran DST #2 2370-2385
 11-30-12 Set 5 1/2" casing @ 2409'

Pipe set to further evaluate DST #2 results.
 Ken Wallace

LEGEND

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

SCALE " = 100'

DEPTH	LITHOLOGY	DST#	DRILLING TIME - Minutes Per Foot Rate of Penetration Decreases	SAMPLE DESCRIPTIONS	REMARKS
0072					

1380

Oread
1390(-86)

1400

Under surface
to
1680' = 20' smpls

ls, buff, sm lt tan, frgrd,
ool, foss, NS

1680' - RTD =
10' smpls

20

Heebner
1426(-122)

sh, bl

sh, gy

40

ls, buff, sl ool & foss, sl Δ, NS

60

80

ss, gy, s & p texture, w sort,
wrnd, sm gy sltst, NS

1500

sh, gy, ss AA

20

AA

40

AA

60

80



1600

20

40

60

80

1700

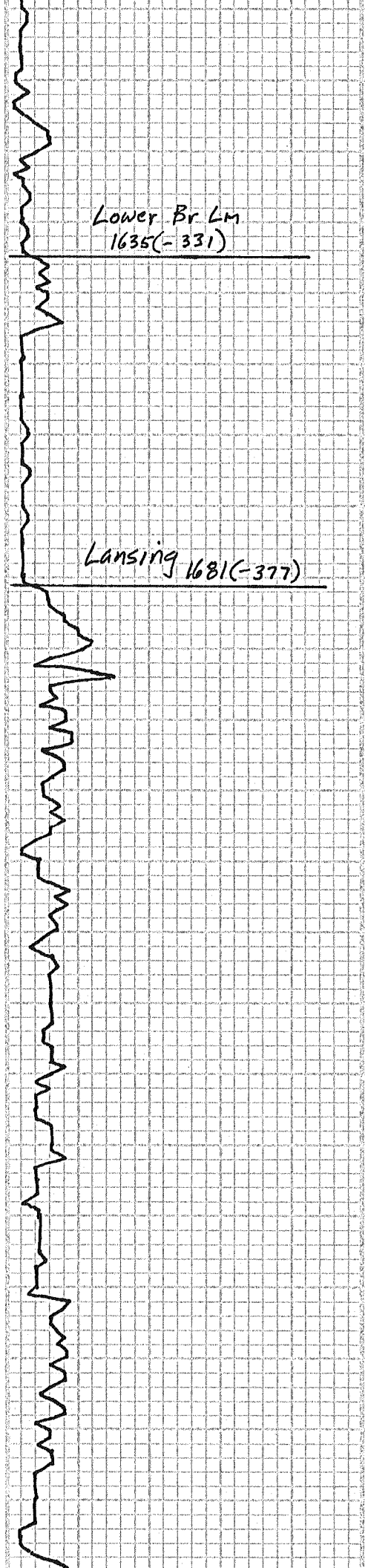
20

40

60

80

1800



Lower Br Lm
1635(-331)

Lansing 1681(-377)

Ls, tan, foss, exln, sl ool,
NS

Ls, tan-buff, exln, sl ool,
sl foss, sm dse - sl cky,
NS

Sh, gy, sm pyrite

Ls, tan-brn, exln, sl foss,
sl ool (gy ool), sl cky, NS

Ls, wh-ltgy, ool, cky,
NS

Ls, AA, more cky, NS

AA

Ls, ltgy-tan, ool, foss, cky,
NS

Ls, ltgy, sm brn, exln,
foss, NS

Sh, gy

Ls, tan-brn, ool, foss, exln,
cky, NS

Ls, buff-ltgy, ool, cky,
NS

AA w/ Δ

20
40
60
80
1900
20
40
60
80
2000
20
40



Ls, gy, foss, sl ool, fxln,
cky, NS

Ls, gy-tan, foss, mxln,
sl cky, NS

sh, gy

Ls, gy-tan, sl foss, cxln,
dse, blu Δ

Ls, tan, dse, cky, NS

sh, bl

Ls, dkgy, dse, NS

Ls, tan, sl foss, dse, sl
cky, NS

Ls, ltgy, dse, sl cxln, cky
NS

sh, gy, grn

Ls, tan, dse, cky, NS

Ls, ltgy-buff, ool, foss
cky, NS

AA, motld

Stark
1986 (-682)

sh, bl

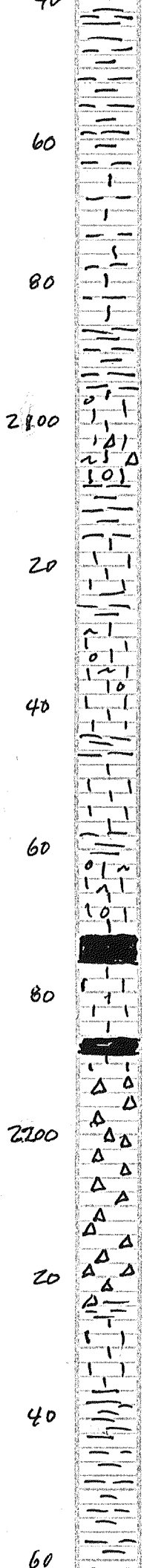
Ls, tan, foss, sl ool, dse-
cxln, 2 pcs up vgd, ysl
flour, ltstn, vss to,
NO, cky

sh, bl

Ls, tan, sl foss & ool, NS

BKC
2147 (-738)

sh, gy-bl



sh, gy, slsly

sh, dkgy, limy, pyrite
 ls, dkgy, cxln, argl, NS

sh, gy, grn

ls, tan-brn, ool, foss,
 cxln-dse, slΔ, NS

ls, ltgy-tan, micritic,
 sm tan, foss, ls, NS

ls, buff, ool, glauc, foss,
 sm ltgy, sucru, ls NS

ls, buff, ool, foss, NS

sh, bl
 ls, brn, foss, ool, NS

sh, bl

Miss ct
 2191(-887)

Δ, vc(wh, bone, yellow,
 blu, clear), NS
 cir 2196: 15/30" vc Δ AA
 cir 2200': 15" Δ, wh, sm yell,
 40% trip, No flur, No
 Nstain, No S
 30" AA

Δ, wh, yell, NS, NF, Nu, nostn

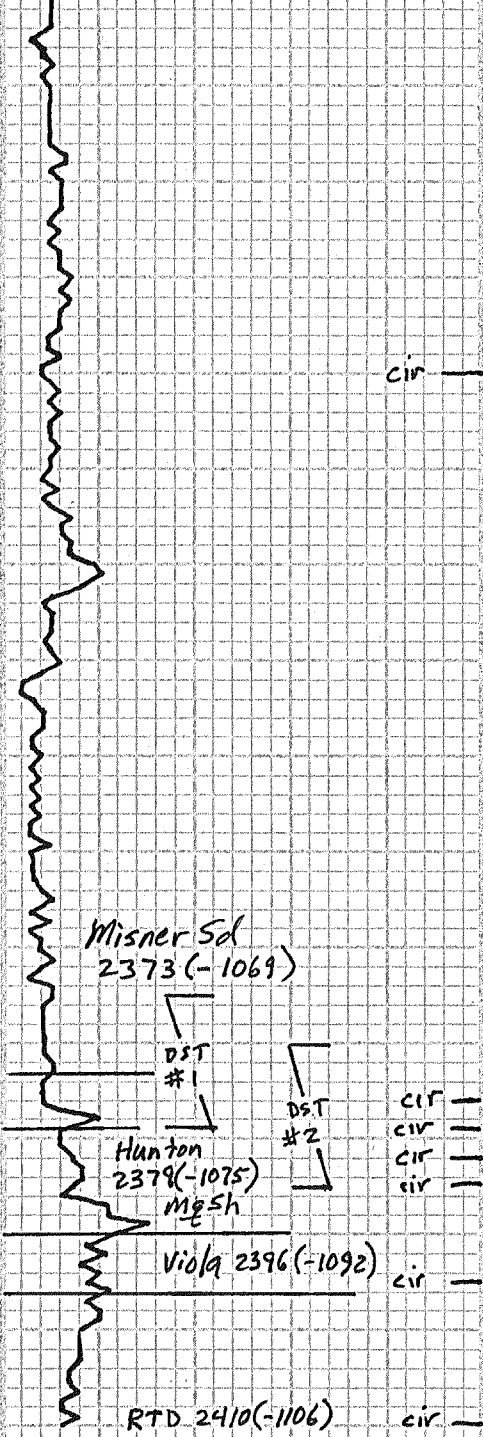
Kinder sh
 2237(-933)

ls, ltgy, foss, dse-cxln,
 abd ltgrn sh & vc Δ, NS

sh, gy, sm grn, much
 Δ (slough)

sh, grn, limy

80
2300
20
40
60
80
2400
20



sh, gy, grn, sm lt red,
pyrite

sh, bl, gy, sm red, grn
sl pyrite

2300' short trip

sh, gy, pyrite, sl sdy
NS

sh, gy, red, brn, grn,
pyrite

AA

cir 2376' - 15/30" ss, cl, few
clusters, poor sort, frnd,
950, f fluor, G0, sm pyr
cement.

cir 2379' - 15" ss, cl, AA, bright
fluor (40% of spls), app Fe
& pyrite cement in part,
G50, G0, p-f stn.

- 30" AA, bright
fluor (15% of spls)
poorly sortd & p rnd.

cir 2382' - 15/30" Dol, v sdy,
tan, sm sucro, lt stn
(20% spls), f fluor (15%
of spls), f-g vg φ, ssf0
fodor.

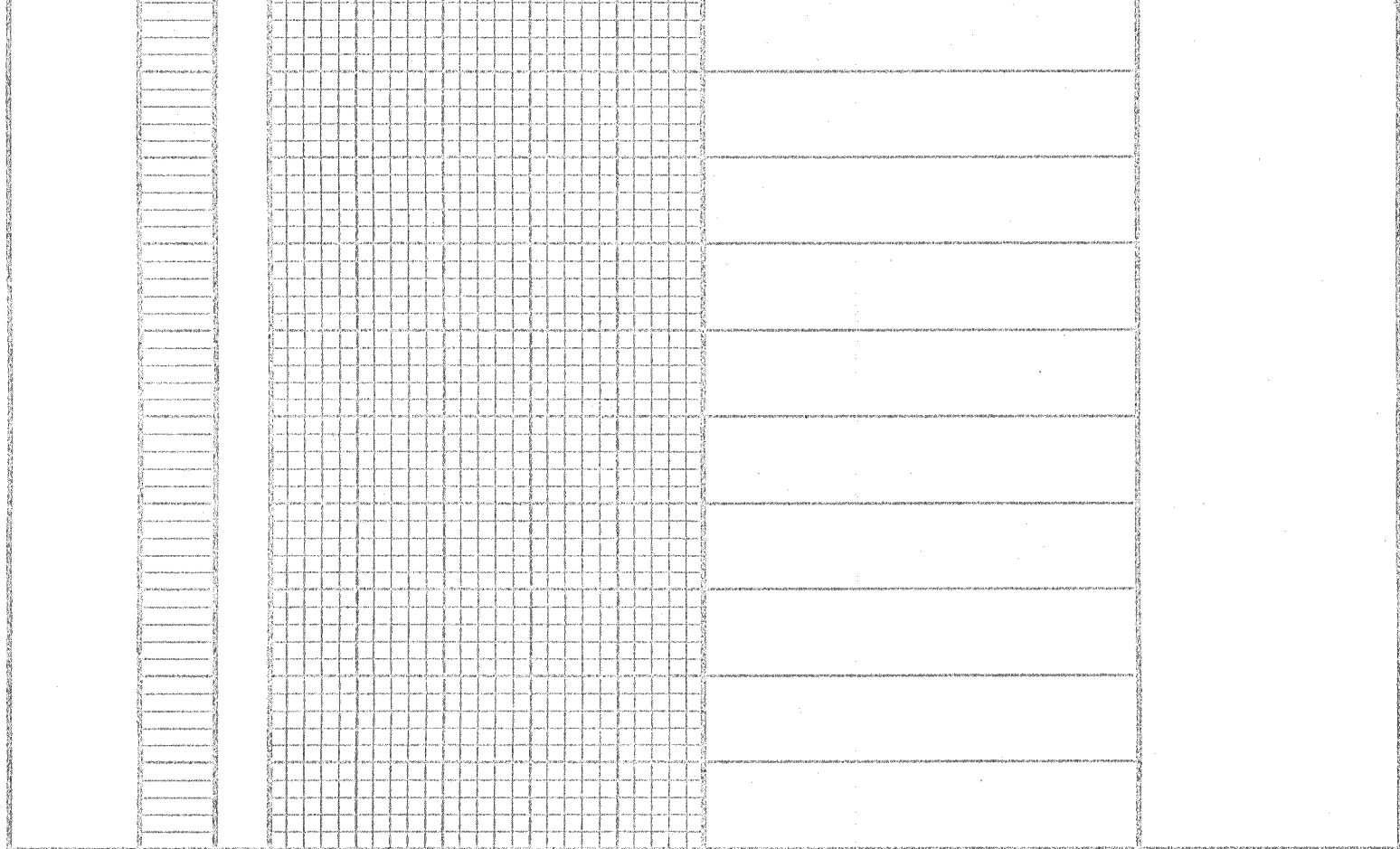
cir 2385' - 15/30" Dol, lt gy,
v sdy, G vg φ, app hexgl
qtz xyls in vugs, cxln, sm
f-med sucro dol, sm sat
stn, G5F0, G0, G fluor (20%
of spls).

cir 2395' 15/30" - sh, vc, sty,

cir 2410' 15/30" - Dol, lt gy,
f sucro, hard, NS, NO,
NO fluor. 30" more sdp
texture, m-cgrd, NS.

DST #1 2365-2379
30-30-30-30
Rec. 1' mud
IF 1/4" bl died 7"
FF NB
IF 5-6 #
FF 7-7 #
ISIP 11 #
FSIP 16 #

DST #2 2370-2385
30-30-60-60
Rec. 431' CO,
160' mco (76% C,
24% M)
IF BB 11 1/2 min
FF BB 13 1/2 min
IF 9-133 #
FF 140-233 #
ISIP 895 #
FSIP 889 #





CONSOLIDATED
Oil Well Services, LLC

ENTERED

TICKET NUMBER 38294
LOCATION Eureka
FOREMAN Rick Ledford

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

FIELD TICKET & TREATMENT REPORT

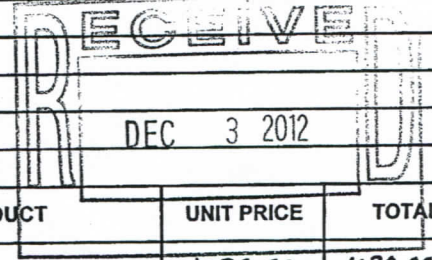
CEMENT API # 15-115-21435

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
11/29/12	6942	Savage A # 1	22	215	46	Marion
CUSTOMER			TRUCK #		DRIVER	
Range Oil Company Inc.			520	Jahn		
MAILING ADDRESS			TRUCK #		DRIVER	
125 N. Market st # 120			611	Jacy		
CITY	STATE	ZIP CODE	TRUCK #		DRIVER	
Wichita	KS	67202	637	Merle		

JOB TYPE L/S 0 HOLE SIZE 7 7/8" HOLE DEPTH 2410' CASING SIZE & WEIGHT 5 1/2" 14 # rex
 CASING DEPTH 2409' DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 136# SLURRY VOL 47 Bbl WATER gal/sk 9.0 CEMENT LEFT in CASING 5.68
 DISPLACEMENT 58 3/4 Bbl DISPLACEMENT PSI 900 ~~MAX~~ PSI 1400 Bump plug RATE _____

REMARKS: Safety meeting - Rig up to 5 1/2" casing. Break circulation w/ 10 Bbl fresh water pump 100# metasilicate pre-flush, 10 Bbl water spacer. Mixed 150 sacks thickset cement w/ 5# Kat-seal/sk @ 13.6#/gal. yield 1.25 Washout pump + lines, release latch down plug. Displace w/ 58 3/4 Bbl fresh water. Final pump pressure 900 PSI. Bump plug to 1400 PSI. wait 2 minutes, release pressure, float + plug held. Good circulation @ all times while cementing. Job complete. Rig down.

"THANK You"



ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	1030.00	1030.00
5406	40	MILEAGE	4.00	160.00
1126A	150 sacks	thickset cement	19.20	2880.00
1110A	750 #	5# Kat-seal/sk	.46	345.00
1111A	100 #	metasilicate pre-flush	2.00	200.00
5407A	8.25	ten mileage bulk tr	1.34	442.20
5502C	4 hrs	80 Bbl vac. TRK	90.00	360.00
1123	3000 gals	city water	16.50/1000	49.50
4130	4	5 1/2" centralizers	48.00	192.00
4228B	1	5 1/2" AFV insert	172.00	172.00
4454	1	5 1/2" latch down plug	254.00	254.00
		Subtotal		6084.70
		SALES TAX	7.8%	319.22
		ESTIMATED TOTAL		6403.92

254998

AUTHORIZATION Gay Sheel TITLE X 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.

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

January 10, 2013

John Washburn
Range Oil Company, Inc.
125 N MARKET ST STE 1120
WICHITA, KS 67202-1711

Re: ACO1
API 15-115-21435-00-00
Savage A 1
NW/4 Sec.22-21S-04E
Marion County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
John Washburn