



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1132325
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: _____



1132325

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

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
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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> _____	PRODUCTION INTERVAL: _____ _____
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#1 Roemer 34C

1700' FSL & 495' FWL

50' N & 165' E of SW NW SW Section 34-12S-29W

Gove Co., Kansas

API# 15-063-22070-00-00

Elevation: 2685' GL, 2693' KB

Sample Tops			Ref. Well
Anhydrite	2170'	+523	+24
B/Anhydrite	2201'	+492	+24
Stotler	3408'	-715	+18
Heebner	3768'	-1075	+16
Lansing	3806'	-1113	+12
Muncie	3941'	-1248	+13
Stark	4033'	-1340	+19
Hush	4064'	-1371	+20
BKC	4090'	-1397	+18
Altamont	4132'	-1439	+20
Pawnee	4211'	-1518	+17
Myrick	4267'	-1574	+12
Fort Scott	4293'	-1600	+15
Cherokee Shale	4318'	-1625	+17
Johnson	4357'	-1664	+15
B/Johnson	4375'	-1682	+14
Mississippian	4390'	-1697	Flat
RTD	4520'	-1827	

Terry McLeod
 Consulting Geologist
 P.O. Box 503
 Wichita, Kansas 67201
 316-205-6431

GEOLOGIST'S REPORT
 DRILLING TIME AND SAMPLE LOG

OPERATOR Ritchie Exploration, Inc.
 LEASE Roemer WELL NO. 1-34C
 FIELD Wildcat
 LOCATION 1700' ESL + 495' FWL
 SEC. 34 TWP. 12S RGE. 29W
 COUNTY Gove STATE Kansas

CONTRACTOR Duke drlg. co Rig 2
 COMPLETION 12-17-2012 COMP. 1-03-13
 MUD 4520' LOG TO 4522'
 SAMPLES SAVED FROM 3500' TO RTD
 DRILLING TIME KEPT FROM 3400' TO RTD.
 SAMPLES OBTAINED FROM 3500' TO RTD.
 GEOLOGICAL SUPERVISION FROM 3460' TO RTD.
 MUD W/ 3400' TYPE MUD Chemical

FORMATION	TOP	LOG	DEPTH	TOP	DEPTH	STRUCT. CORREL.
Anhydrite	2169	+524	2170	+525	+25	
Base Anh.	2204	+489	2201	+492	+21	
Stotler	3408	-715	3408	-715	+18	
Heebner sh	3768	-1075	3768	-1075	+14	
Lansing	3810	-1117	3806	-1115	+8	
Muncie sh.	3940	-1247	3941	-1248	+20	
STARX Sh.	4034	-1341	4033	-1340	+18	
Base K. C.	4081	-1393	4090	-1397	+22	
Altamont	4130	-1437	4132	-1439	+22	
Pawnee	4209	-1516	4211	-1518	+19	
Fort Scott	4288	-1595	4293	-1600	+20	
CHER. SH.	4318	-1625	4318	-1625	+17	
Johnson	4357	-1682	4357	-1684	+15	
Mississippi	4393	-1760	4390	-1697	-3	

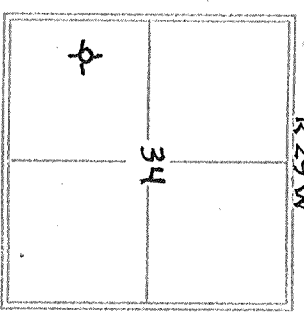
ELEVATION
 KB 2693'
 DF _____
 CI 2685'
 Measurements Are All From KB.

CASING RECORD

SURFACE 8 7/8" @ 238' w/
165 SX
 PRODUCTION None

ELECTRICAL SURVEYS

Nabbes
 Dual Induction
 density/Neutron.



REFERENCE WELL FOR STRUCTURAL COMPARISON Tidewater Oil Co. No. 1
E.M. Bland, C NE SE 23-12S-29W. 2761 K.B.

DATE	ESTIM	NO	SEE	WGS	TIME	ESTIM O
12-17-12	MIET	A	12 1/4	RE	-	23
12-18-12	238' surf woc	1	7 7/8	JZ	H & 20-d	4011
12-19-12	1654' drlg.	2	7 7/8	JZ	QX 20	4198
12-20-12	2619' drlg	3	7 7/8	JZ	re ?	4522
12-21-12	3232' drlg + xmas					
12-27-12	START UP 3232'					
12-28-12	3421' drlg loc 1					
12-29-12	3740' drlg loc 2					
12-30-12	3925' DST.1	3				
12-31-12	4050' DST.2	4				
1-01-13	4100' DST.3	5				
1-02-13	4275' DST.4	6				
1-03-13	4472' drlg. 7	7				

PRODUCTION

DESCRIPTION OF CORE

Lansing "H"	3960-63	LS, Grm. tan, fn-xln, foss, 2 pccs sil stain on xln edges - sil foss No free oil - 2 odor. V. CHKY
Lansing "I"	3991-3996	LS, lt tan, fn-xln, some ds, 1 p w/ dead oil stain on xln edge, No free oil, No odor
Lansing "J"	4020-4024	LS, Grm, fn-xln. V-sil foss. 3 pccs w/ H-brn staining in pr xln-sil foss & NE No odor
Lansing "K"	4052-4059	LS, H. tan, fn-xln, V-sil foss, 3 pccs w/ H-brn staining in poor foss & sil odor
Lansing "L"	4081-4080	LS, tan - light brown, + gray, fn-xln, foss, 3-4 pccs w/ greasy stain in poor sil. faint odor, NFO
Pawnee	4210-15	LS, Grm, fn-xln, sil foss, 2 pccs w/ H-brn staining in poor foss & NFO No odor
Myrick	4267-72	LS, tan, fn-xln + foss, w/ 475 pcc w/ med brn stn + 376 in pr. fr. Pinpoint - fossy sil - 7 FR odor, CH

(NO OTHER SAMPLE SHOWS)

(BIT TRIP)

DEPTH 5" 10" 15" 20" 25"

SAMPLE DESCRIPTIONS

REMARKS

2100

10

20

30

40

50

60

70

80

90

2200

10

20

30

40

3400

10

20

30

40

50

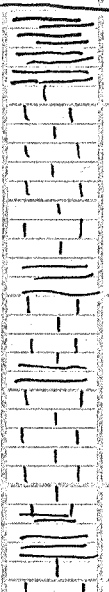
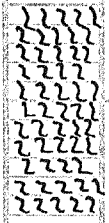
60

Anhydrite
2170' (+523)

Base Anh
2201' (+492)

AT START 3400'

STOTLER
3408 (-715)



Very poor weather, many prob w/rig -

on location -> drlg and working on. Rig -

70
80
90
3500
10
20
30
40
50
60
70
80
90
3600
10
20
30
40
50
60
70
80

20' spls

φ

φ

10' spls
↓



(samples start at 3520')

Ls. TAN, FN: XLN - FOSS - SLI
mat. tight - N.S.

sh. gray-mar

Ls. tan. fn-xln. SLI FOSS
pr - NVB. N.S.

sh. Gray - dk Gray

Ls. tan. fn-xln. SLI
FOSS - SLI oolitic pr
N.S.

sh. Gray's.

Ls. tan. - Cream, FOSS
w/ fair scatt φ.
N.S.

sh. Gray - dk Gray SLI mar

Ls. Crm - lt tan, fn-xln
SLI FOSS - pr φ N.S.

sh. med gray - dk Gray

Ls. Crm - tan. fn-xln -
SLI FOSS - scatt FOSS
N.S.

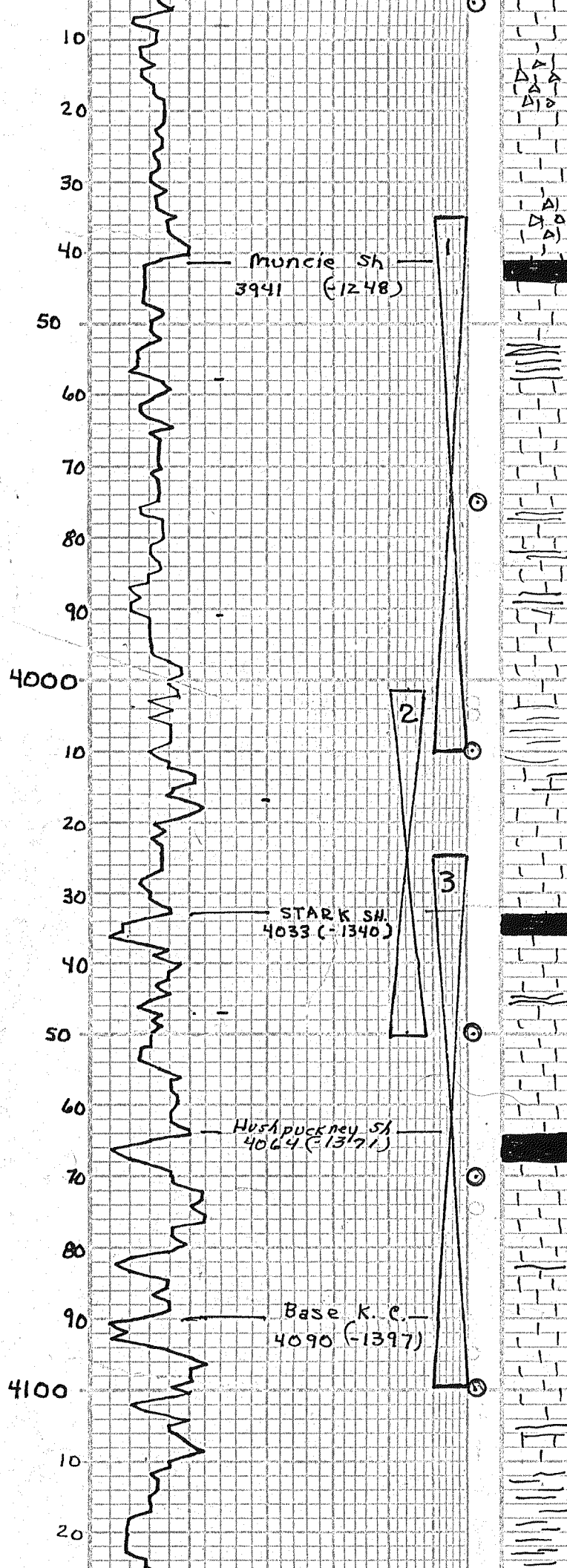
sh. dk Gray

Ls. Crm. fn-xln, FOSS.
fn φ. - Y CHRY. N.S.

sh. dk Gray - blk

shly - varicolored
some silty sh. + mic

10°-5° rig has prob with
engines. Lines + samples.



Ls. Crm. fn. xln. V. sh. foss.
2 lpc w/ dashn - NFO No odor
SH. DRZ - GRY - MAR

Ls. Crm. wh. gry, fn. xln. sh.
ool, tr. sh. N.S. lt. gry
op fresh Δ.

Ls. Crm. wh. fn. xln. dse.
NVØ N.S. scatt Δ, chky

Ls. wh. gry, dse, NVØ
lt. gry op fr Δ, N.S.
su chky

sh. blk. gry. gr. mar.

Ls. H. brn. dse, NVØ N.S.

sh. gry-mar

Ls. Crm. H. tan, fn. xln. su
foss. 2 pcs w/ sh. sta in pr
foss. sh. NFO, odor, V. chky.

Ls. H. tan - Gry, fn. xln. tight
RX, scatt lt. gry Δ. N.S.

Ls. Crm. gry. fn. xln. dse,
NVØ, N.S., chky.

sh. gry-mar
Ls. H. tan. fn. xln. NVØ N.S.

sh. blk-mar

Ls. H. tan. fn. xln. fr. xln.
-dse, NVØ N.S. lpc w/
dead oil sta on edge. NFO
No odor

Ls. H. tan. fn. xln. tight.
NVØ N.S. - SHLY

sh. blk- varicolored

Ls. Crm. wh. fn. xln. v. sh.
foss. 3 pcs w/ pr sta in
pr foss. sh. NFO No odor

Ls. Crm. wh. fn. xln. v. sh.
foss., PR-NVØ. N.S. No odor

sh. blk carb

Ls. Crm. H. tan. fn. xln.
N.S. V. SHLY

SHLY. N.S. scatt H. tan
Ls. dse, NVØ N.S.

Ls. H. tan. fn. xln. sh. foss.
3 pcs w/ gray sta in pr foss. sh.
su ool

Ls. tan. dse. NVØ N.S.
SHLY + Ls. v. sh. foss -
tight - N.S.

sh. blk- varicolored

Ls. tan, fn. xln. dse, NVØ
N.S.

Ls. tan. lt. brn, dse, NVØ
N.S.

Ls. tan. H. brn. gry, fn. xln
foss. 3-4 pcs w/ gray sta
+ faint odor. NFO

SH. GRV.

Ls. tan. fn. xln. dse, NVØ
N.S.

Ls. tan. fn. xln. dse, NVØ
N.S.

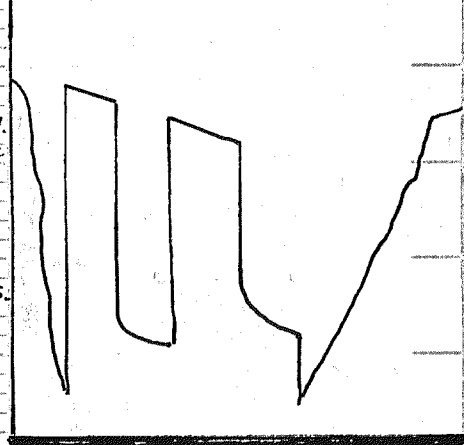
sh. black. Gry-mar. red.

WK - 808 23" 1st open
FR - 808 31" 2nd open
30" 45" 45" 60"

Rec: 30' ocm - 5% OIL
95% mud
244' mw - 20% mud
80% wtr
274' Fluid

SIP: 1218^u - 1167[#]
 FP: 61[#] - 119[#] + 126[#] - 202[#]
 HP: 1990[#] - 1932[#]
 T = N/A

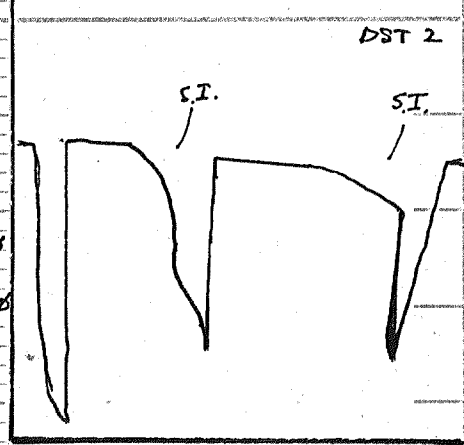
DST No. 1



DST NO. 2 4001-4050
 WK blow 1" 1st op + 1/2" 2nd op
 30" 45" 30" 45"

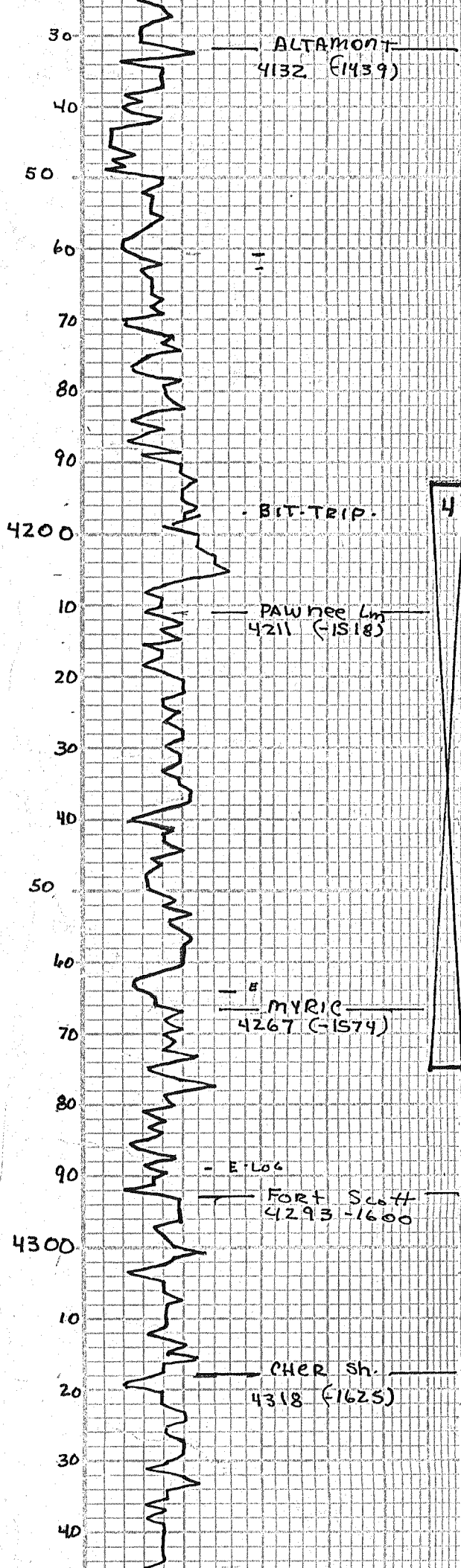
Rec: 15' socm 1% oil
99% mud

SIP: 742[#] - 147[#]
 FP: 46[#] - 51[#] & 53[#] - 55[#]
 HP: 2034[#] - 1968[#]



DST NO. 3 4025-4100'
 WK blow 1" 1st open
WK blow 2" - 2nd open
30" 45" 30" 45"

Rec: 75' oil spl'd mud
100% mud



Ls. tan. fn. xln. v. sl. foss tight RX. N.S. SHLY

Ls. Gry-tan. fn. xln. dse, NVØ. CHKY N.S.

sh. Gry-mar.

Ls. tan. H. brn. fn. xln. foss-matt, pr. Ø. N.S. No odor.

sh. gry-mar.

Ls. H. tan. Gry. fn. xln. v. sl. foss. TIGHT RX. PR-NVØ. N.S. No odor

SHLY + Ls. gla. tight RX N.S.

Ls. H. tan. H. Gry, dse NVØ. N.S.

Ls. H. tan. H. Gry, dse, NVØ N.S. SLI SHLY. No odor

Ls. tan. fn. xln. Gry dse NVØ N.S.

SH-bik. Gry-mar-red

Ls. Crm. fn. xln. sl. foss 2pc's w/ H. brn. str. in pr. foss. NFO No odor.

Ls. Crm. fn. xln. mostly tight N.S. Scatt. op. Δ. N.S.

Ls. H. tan. H. GRy, Dse, NVØ N.S.

Ls. tan. fn. xln. dse, NVØ N.S. Br. op. fresh Δ

sh. drk Gry-bik.

sh. bik-drk Gry

Ls. H. tan. fn. xln. sl. foss SH.

SH-GRY'S-mar

Ls. tan. fn. xln. foss. 4-5 pc's w/ med. brn. str. + SFD in pr. fr. pp. foss. PR-odor, chky

SH-med. gry-drk Gry-mar

SH-BIK-Carb

Ls. brn-drk tan. fn. xln. sl. ool V-PSE + Hrd, NVØ N.S.

SH-BIK-GRN-mar.

Ls. tan. fn. xln. sl. foss V-Dse, HRP + TIGHT RX. N.S.

Ls. tan-brn. dse, 2-pc's w/ total dead oil str. on edges. No live oil. No odor + Bik Carb sh.

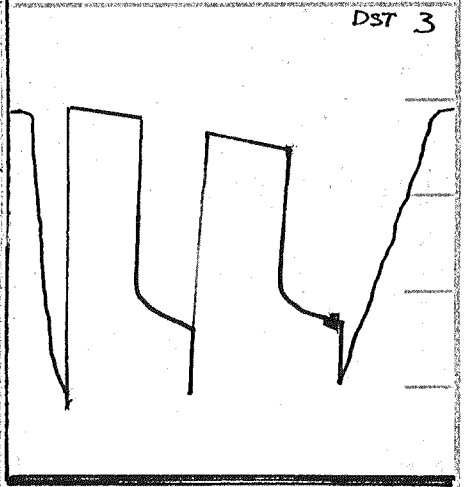
Ls. tan + sl. Gry. fn. xln. v. sl. foss. PR-NVØ N.S.

SH-Gry + drk GRy.

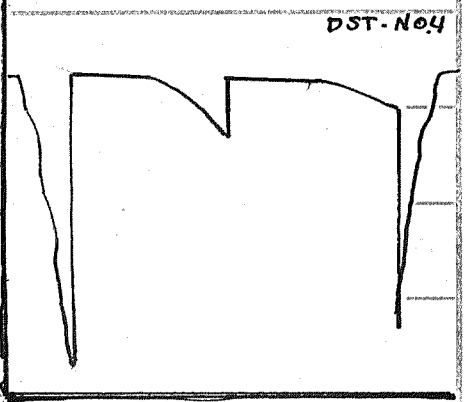
Ls. Crm. H. tan + Gry. fn. xln. dse, NVØ, N.S., CHKY

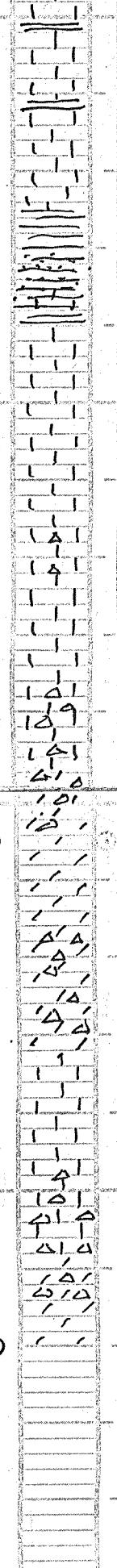
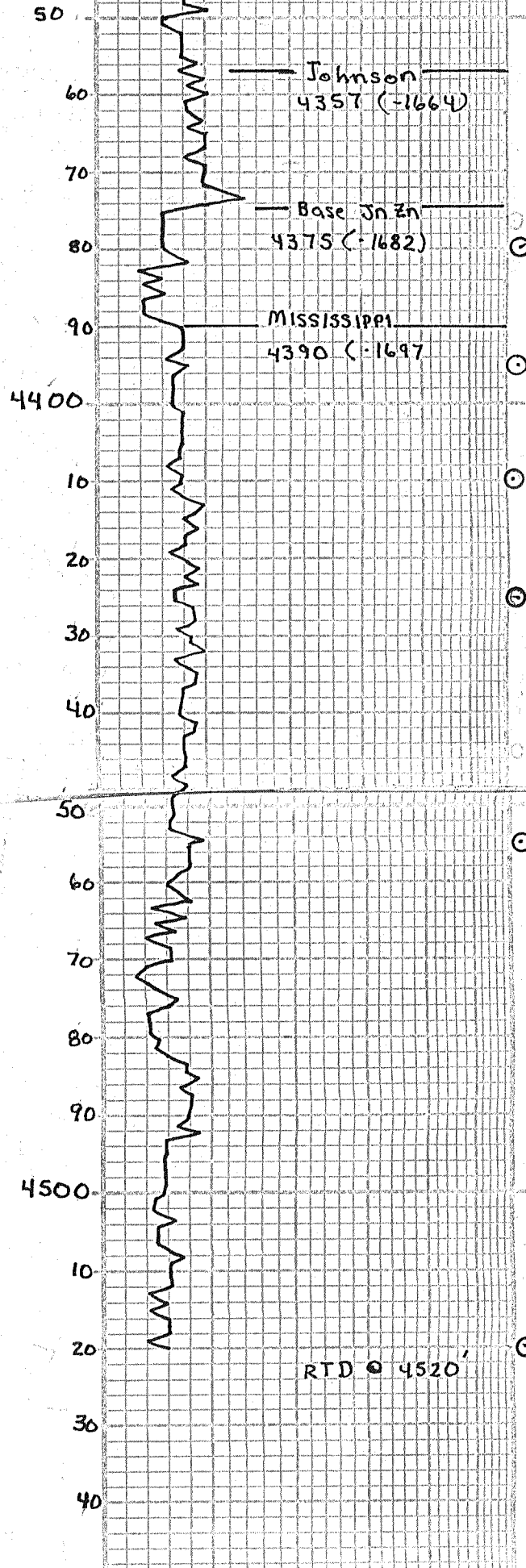
CH-bik-Carb

SIP: 1227[#] - 1195[#]
 FP: 61[#]-81[#] + 82[#]-97[#]
 HP: 2076[#] - 2055[#]



DST NO. 4 4193' - 4275'
 wk blow 1/2" 1st open +
 wk blow 1" 2nd open
 30" 30" 30" 30"
 Rec: 21' oil spt'd mud
 1% oil
 SIP: 275[#] - 152[#]
 FP: 65[#]-73[#] + 74[#]-77[#]
 HP: 2137[#] - 2068[#]





Ls. lt-tan - tan - Gry. dse,
 NVØ. N.S. SLI CHKY.

Ls. lt-tan - lt-gry., dse, NVØ
 N.S. CHKY.

Ls. tan - H-Gry, dse NVØ, lpe
 w/y dead oil str., NO live
 oil - V. CHKY.

Ls. q/a - dse, pr-NVØ. N.S.
 No odor

SH. GRY-GRN-MAY - fr siltst
 N.S.

SH-Vari - ls-tan-dse, Δ-vari
 N.S.

Ls. lt-tan, fn-xln, v. SLI foss
 N.S., SHL-vari + chert N.S.

Ls. Crm-tan, fn-xln, foss -
 tight RP - N.S., GRy-tan foss
 fr Δ. N.S.

Ls. Crm-GRY-vell, fn-xln -
 foss, scatt foss Δ, N.S.

Ls. Crm. lt tan, fn-md xln
 st. foss, pr Ø. N.S. tr Δ
 SLI CHKY.

Ls. Crm-mottled, fn-xln
 SLI foss, scatt Ø. N.S.

Ls. Crm. Gry, fn-xln -
 scatt lt tan Δ, fresh
 foss - SHARP edges. N.S.

Ls. Crm-H-Gry, fn-xln -
 dse, NVØ, N.S., chert - lt.
 GRy foss. SLI CHKY

SH-GRY-MAY.

DOL + SH - H GRY, mealy.
 Gumbo - mucky. N.S.

DOL, GRy, fn-grnd - mealy
 + GRy, foss Δ, N.S.,

DOL - H GRY FN-med xln,
 scatt xln Ø. chert, Gry, op
 some foss. N.S. No odor

Ls. BRN, DSE, NO VIS Ø,
 Chert Gry-tan fr-weather +
 foss in part. N.S. No odor

Ls + dol, tan ls + Gry dol,
 Dol - Md xln w/ scatt fr xln Ø
 N.S., Ls dse N.S., Δ tan-gry
 fr - foss N.S.

Dol - H-tan + Gry, fn-med xln
 scatt xln Ø chert, Crm-gry
 fr-weather - Foss. N.S. No odor

RTD ○ 4520'

DEPTH	DRILLING TIME Minutes/Foot	LITHOLOG	SAMPLE DESCRIPTIONS	REMARKS	
5"	10"	15"	20"	25"	

Rate of Penetration Increases

GY

COMPANY Ritchie, Exploration, Inc.

LEASE Roemer # 1-34C

LOCATION 1700' E 1 / 4 495' E W SEC 34 TWP 12S RNG 29W

COUNTY Gove STATE Kansas

ELEVATION: 2693' K.B.

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

April 10, 2013

John Niernberger
Ritchie Exploration, Inc.
8100 E 22ND ST N # 700
BOX 783188
WICHITA, KS 67278-3188

Re: ACO1
API 15-063-22070-00-00
Roemer 34C 1
SW/4 Sec.34-12S-29W
Gove 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 Niernberger