Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1183832

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 # 5394
Name: Abderhalden, R. R.
Address 1: 100 S. MAIN, STE 510
Address 2:
City: WICHITA State: KS Zip: 67202 + _ _ _ _
Contact Person: R.R. Abderhalden
Phone: (316) 262-3411
CONTRACTOR: License # 30141
Name: Summit Drilling Company
Wellsite Geologist: R.R. Abderhalden
Purchaser: NCRA

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 #:

07/08/2013	07/18/2013	12/04/2013
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-035-24511-00-00
Spot Description:
_ - NW - SW - NW Sec. 6 Twp. 33 S. R. 6 ☑ East ☐ West
3630 Feet from ☐ North / ☑ South Line of Section
4950 Feet from ☑ East / ☐ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☑ SE ☐ SW
GPS Location: Lat: *(e.g. xx.xxxxx)*, Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Cowley
Lease Name: Barkman Well #: 5
Field Name: Werner
Producing Formation: Mississippi
Elevation: Ground: 1303 Kelly Bushing: 1311
Total Vertical Depth: 3400 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 322 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: 900 ppm Fluid volume: 800 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
☑ **Confidentiality Requested**
Date: 01/24/2014
☐ **Confidential Release Date:**
☐ **Wireline Log Received**
☐ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 02/12/2014

1183832

Operator Name: Abderhalden, R. R. Lease Name: Barkman Well #: 5

Sec. 6 Twp. 33 S. R. 6 ☑ East ☐ West County: Cowley

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 ☐ Yes ☑ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:

Dual Induction
Litho Density
Gamma Ray Neutron

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Layton	2296	985
Kansas city	2444	1133
Oswego	2675	1364
Fort Scott	2725	1414
Cherokee	2804	1493
Mississippi	3064	1753

CASING RECORD ☑ New ☐ 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 Pipe	12.2500	8.6250	28.00	322	Class A	185	3% gel, 2%cc
Production String	7.8750	5.5000	5.5000	3395	Class A	225	3% gel, 2% cc

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
____ Perforate ____ Protect Casing ____ Plug Back TD ✔ Plug Off Zone	3205-3231	Class A	150	3% gel, 2% cc
	-			

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 *(Amount and Kind of Material Used)*	Depth
2	3202-3231	Frac'd w/35 Bls acid,32,000Lbs. sand and 2300 Bls water	
2	3083-2093 and 3110-3130	acidized w/ 1500 gals.	
		Bridge Plug, 5.5" PA Cast Iron	3170

TUBING RECORD: Size: 2.50 Set At: 3050 Packer At:

Liner Run: ☐ Yes ☑ No

Date of First, Resumed Production, SWD or ENHR. 12/04/2013

Producing Method: ☐ Flowing ☑ Pumping ☐ Gas Lift ☐ Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	13		367		38

DISPOSITION OF GAS:
☐ Vented ☐ Sold ☑ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION:
☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*
☐ Other *(Specify)* _____

PRODUCTION INTERVAL:
3083-3130

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

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

Kansas
Corporation Commission

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

Shari Feist Albrecht, Chair
Thomas E. Wright, Commissioner
Jay Scott Emler, Commissioner

Sam Brownback, Governor

February 03, 2014

R.R. Abderhalden
Abderhalden, R. R.
100 S. MAIN, STE 510
WICHITA, KS 67202

Re: ACO-1
API 15-035-24511-00-00
Barkman 5
NW/4 Sec.06-33S-06E
Cowley County, Kansas

Dear R.R. Abderhalden:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 07/08/2013 and the ACO-1 was received on January 24, 2014 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department

GAMMA RAY NEUTRON COMPLETION LOG

CORNISH WIRELINE SERVICES, INC. CHANUTE, KANSAS

Company	R.R.A., INC.
Well	BARKMAN #5
Field	WERNER
County	COWLEY
State	KANSAS

Company R.R.A., INC.
Well BARKMAN #5
Field WERNER
County COWLEY State KANSAS

Location: API #: 15-035-24511-00-00
3630' FSL & 4950' FEL
NW SW NW
SEC 6 TWP 33S RGE 6E

Other Services

Permanent Datum G.L. Elevation 1301'
Log Measured From K.B. 10' A.G.L.
Drilling Measured From K.B. 10' A.G.L.

Elevation
K.B. 1311'
D.F.
G.L. 1301'

Date	7-23-2013		
Run Number	1 NW		
Depth Driller	3400'		
Depth Logger	3376.2'		
Top Log Interval	SURFACE		
Bottom Logged Interval	3376.2'		
Fluid Level	FULL		
Type Fluid	WATER		
Production Casing	5.5" @ T.D.	@	@
Max. Recorded Temp.			
Estimated Cement Top	1800'		
Calculated Cement Top			
Amount & Type Cement			
Amount & Type Admix			
Drilling Contractor	SUMMIT DRILLING		
Equipment Number	107		
Location			
Recorded By	UDEN, D.		
Witnessed By	ABDERHALDEN, R.		

<<< Fold Here >>>

All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

THANK YOU

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			GR-TITAN_169 (TIT169_001) Titan 1 11/16" Gamma Ray	4.75	1.69	20.00
GR	7.59					
CCL	5.05		CCL-TITAN_169 (TIT169) Titan 1 11/16" Logging CCL	1.83	1.69	7.50
			NEU-TITAN_169 (TIT169_001) Titan 1 11/16" Neutron	4.33	1.69	20.00
NEU	0.63					

Dataset: barkman #5.db: field/well/run1/pass1
Total Length: 10.92 ft
Total Weight: 47.50 lb
O.D. 1.69 in

Database File: p:\logs\r.r.a., inc\barkman #5\barkman #5.db
Dataset Pathname: pass1
Presentation Format: gr-n-ccl
Dataset Creation: Tue Jul 23 10:08:27 2013 by Log Std Casedhole 07122
Charted by: Depth in Feet scaled 1:240

CORNISH WIRELINE SERVICES, INC. CHANUTE, KANSAS

Company	R.R.A., INC.
Well	BARKMAN #5
Field	WERNER
County	COWLEY SEC. 6 TWP. 33S RGE. 6E
State	KANSAS Date 7-23-2013

CONSOLIDATED
Oil Well Services, LLC

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

FILTERED

TICKET NUMBER 42885
LOCATION 180
FOREMAN Jacob Storm

FIELD TICKET & TREATMENT REPORT
CEMENT

Api 15-035-24511-00-00

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
7-18-13	6938	Backman #5	6	33	6E	Cowley

CUSTOMER: RBA inc

MAILING ADDRESS: 100 S main Suite 510

CITY: wichita | STATE: ks | ZIP CODE: 67202

JL
Jm
Mg
JG

TRUCK #	DRIVER	TRUCK #	DRIVER
446	Josh		
491	Jeramy M		
451 T108	Mark		
702	Jacob		

JOB TYPE Long String B | HOLE SIZE 7 7/8 | HOLE DEPTH 3400 | CASING SIZE & WEIGHT 5 1/2 15.36
CASING DEPTH 3394 | DRILL PIPE | TUBING | OTHER
SLURRY WEIGHT 14.5 lb | SLURRY VOL 89 | WATER gal/sk | CEMENT LEFT in CASING 6 ft Shoe Joint
DISPLACEMENT 81.26 | DISPLACEMENT PSI 1100 | MIX PSI 500 | RATE 6.6 bpm

REMARKS: Safty meeting Break circulation, pump 5 bbl water 500 gal dv 1100, 5 bbl water, mix 225 sks class A 3% gel 2% cc 5# kolseal, displaced with 81.26 bbl landing plug at 1450 psi check float float held Job complete.

ACCOUNT CODE	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	1085.00	1085.00
5406	50	MILEAGE	4.20	210.00
5407	1	min bulk delivery	368.00	368.00
5402	900	Footage	.23	207.00
5501C	5	Transport	120.00	600.00
1104S	225	class A	15.70	3532.50
1118B	750	gel	.22	165.00
1102	400	calcium chloride	.78	312.00
1110A	1250	Kol-Seal	.46	575.00
1144G	500	Dv 1100 (mud flush)	1.10	550.00
4104	2	5 1/2 Basket	240.00	480.00
4136	5	5 1/2 turbolizer (weatherford)	75.75	378.75
4159	1	5 1/2 AFU Float Shoe	361.00	361.00
4454	1	5 1/2 Latch down plug	266.75	266.75
4310	1	5 1/2 6ft Shoe Joint and collar	192.00	192.00
			Subtotal	9283.00
			SALES TAX	436.03
			ESTIMATED TOTAL	9719.03

Ravin 3737

AUTHORIZTION [signature] TITLE 260271 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

CONSOLIDATED
Oil Well Services, LLC

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

TICKET NUMBER 42878
LOCATION 180
FOREMAN Jacob Storm

FIELD TICKET & TREATMENT REPORT
CEMENT

Api: 15-035-24511-00-00

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
7-9-13	6938	Barkman #5	6	33	6E	Cowley

CUSTOMER: RRA

MAILING ADDRESS: 100 S Main Suite 510

CITY: Wichita | STATE: KS | ZIP CODE: 67202

TRUCK #	DRIVER	TRUCK #	DRIVER
446	Jerid		
502	Zric		
702	Jacob		

JD
JJ
JA

JOB TYPE Surface B | HOLE SIZE 12 1/4 | HOLE DEPTH 326 | CASING SIZE & WEIGHT 8 5/8
CASING DEPTH 327 | DRILL PIPE | TUBING | OTHER
SLURRY WEIGHT 14.5 lb | SLURRY VOL | WATER gal/sk | CEMENT LEFT in CASING 12 ft
DISPLACEMENT 20.43 | DISPLACEMENT PSI 500 | MIX PSI 200 | RATE 5 bpm

REMARKS: Safty meeting Break circulation, pump 10 bbl fresh water flush, mix 185 sks class A 3% cc 2% gel 1/2 lb poly displace with 19.5 bbl circulating cement to surface, shut in.

ACCOUNT CODE	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401S	1	PUMP CHARGE	870.00	870.00
5406	50	MILEAGE	4.20	210.00
5407	1	min bulk delivery	362.00	362.00
1104S	185	class A	15.70	2904.50
1102	480	calcium chloride	.78	374.40
1118B	350	gel	.22	77.00
1107	100	poly Flake	2.47	247.00
4432	1	8 5/8 wooden plug	84.00	84.00
			Subtotal	5124.90
			SALES TAX	185.97
			ESTIMATED TOTAL	5310.87

Ravin 3737

260388

AUTHORIZTION [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

Jul 10 13 07:39a p.1

CONSOLIDATED
Oil Well Services, LLC

262710

TICKET NUMBER 43610
LOCATION 180
FOREMAN Jacob Storm

) Box 884, Chanute, KS 66720
0-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT
CEMENT

API 15-035-24511-00-00

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
9-28-13	6938	Barkman #5	6	33	6E	cowley

USTOMER: RRA
AILING ADDRESS: 100 S main suite 510
TY: Wichita | STATE: KS | ZIP CODE: 67202

	TRUCK #	DRIVER	TRUCK #	DRIVER
JD	603	Jeremy		
JD	491	Jerald		
JA	692	Tracy		
TB	702	Jacob		

OB TYPE Squeez B | HOLE SIZE 7 7/8 | HOLE DEPTH 3400 | CASING SIZE & WEIGHT 5 1/2
ASING DEPTH 3400 | DRILL PIPE | TUBING | OTHER perfs at 3205-31
LURRY WEIGHT 14.5lb | SLURRY VOL | WATER gal/sk | CEMENT LEFT in CASING
ISPLACEMENT | DISPLACEMENT PSI | MIX PSI | RATE

EMARKS: Safty meeting, pump to find Rate find at 6bpm 0psi mix 150 Sks 1 1/2 Yield displaced with 48 bbl and wire line stop hold in place for 30 min pump 30 bbl leaving plug at 3203 pressure to 1000 psi Job complete.

ACCOUNT CODE	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	1085.00	1085.00
5406	50	MILEAGE	4.20	210.00
5407	1	min bulk delivery	368.00	368.00
1104S	150	class A	15.70	2355.00
1102	160	calcium chloride	.78	124.80
5502C	6	80 vac	90.00	540.00
4406	1	5 1/2 Rubber plug	73.50	73.50
5620	1	5 1/2 plug container	215.00	215.00
			Subtotal	4971.30
		6.4%	SALES TAX	163.41
			ESTIMATED TOTAL	5134.71

completed

avin 3737

AUTHORIZTION _____ TITLE _____ DATE _____

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.