## Kansas Corporation Commission Oil & Gas Conservation Division

# ORIGINAL

Form ACO-1 October 2008 Form Must Be Typed

# WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 34318	API No. 15 - 15-163-23865-00-00				
Name: Berexco LLC	Spot Description:				
Address 1: _P.O. Box 20380	N/2 _SE _NE _SW _Sec36 _Twp8 _S. R17 _				
Address 2:					
City: Wichita State: KS Zip: 67208 + 1380	2310 Feet from East / West Line of Section				
Contact Person: Bruce Meyer	Footages Calculated from Nearest Outside Section Corner:				
Phone: (316 ) 265-3311	□ NE □NW □SE ☑SW				
CONTRACTOR: License # _33575	County: Rooks				
Name:WW Drilling, LLC	Lease Name: Hrabe Z Well #: 1				
Wellsite Geologist: Bruce Reed	Field Name: Hrabe				
Purchaser: N/A	Producing Formation: N/A				
Designate Type of Completion:	Elevation: Ground: 1952 Kelly Bushing: 1957				
New Well Re-Entry Workover	Total Depth: 3432 Plug Back Total Depth: N/A				
•	Amount of Surface Pipe Set and Cemented at: Feet				
OilSIOW	Multiple Stage Cementing Collar Used? Yes No				
Gas ENHR SIGW CM (Coal Bed Methane) Temp. Abd.	If yes, show depth set: Feet				
✓ Dry Other					
(Core, WSW, Expl., Cathodic, etc.)	If Alternate II completion, cement circulated from: sx cmt.				
If Workover/Re-entry: Old Well Info as follows:	feet depth to: w/sx cm.				
Operator:	Drilling Fluid Management Plan P+A AI+ II NCL				
Well Name:	(Data must be collected from the Reserve Pit) 5-18-10				
Original Comp. Date: Original Total Depth:	Chloride content: 20000 ppm Fluid volume: 400 bbls				
Deepening Re-perf Conv. to Enhr Conv. to SWD	Dewatering method used: <u>evaporation</u>				
Plug Back:Plug Back Total Depth	Location of fluid disposal if hauled offsite:				
Commingled Docket No.:					
Dual Completion Docket No.:	Operator Name:				
Other (SWD or Enhr.?) Docket No.:	Lease Name: License No.:				
21 Apr. 2010 27 Apr. 2010 28 Apr. 2010	Quarter Sec TwpS. R				
Spud Date or Date Reached TD Completion Date or Recompletion Date	County: Docket No.:				
Kansas 67202, within 120 days of the spud date, recompletion, workover or confidence of side two of this form will be held confidential for a period of 12 months if receivable in excess of 12 months). One copy of all wireline logs and geologist were BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 for All requirements of the statutes, rules and regulations promulgated to regulate.	the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information quested in writing and submitted with the form (see rule 82-3-107 for confidenell report shall be attached with this form. ALL CEMENTING TICKETS MUST form with all temporarily abandoned wells.  The oil and gas industry have been fully complied with and the statements herein				
are complete and correct to the best of my knowledge.					
Signature: 7000000	KCC Office Use ONLY				
Title: Engineering Technician Date: 12 May, 2010	Letter of Confidentiality Received				
Subscribed and sworn to before me this	If Denied, Yes Date:				
DIANA E. I	BELL Wireline Log Received RECEIVED Geologist Report Received				
Notary Public: My Appt. Expires 8 -	UIC Distribution MAY 1 4 2010				

#### Side Two

Operator Name: Berex	xco LLC		Lease I	Name: H	Irabe Z		_ Well #:		
Sec. 36 Twp. 8		☐ East 🗸 West	County	Rook	S			A	
INSTRUCTIONS: Sho time tool open and clos recovery, and flow rates surveyed. Attach final	sed, flowing and shut- s if gas to surface test	in pressures, whether, along with final cha	er shut-in pres	sure reac	hed static level,	hydrostatic pres	sures, bottom	hole temperature, fluid	
Drill Stem Tests Taken				✓ Log Formation (Top), Dep			nd Datum	Sample	
(Attach Additional Sheets)  Samples Sent to Geological Survey		☑ Yes ☐ No		Name Platts	ne smouth		Top <b>3032</b> '	Datum (-1075')	
Cores Taken Electric Log Run		☐ Yes ☑ No ☑ Yes ☐ No	1		Heebner Toronto		3064' 3084'	(-1107') (-1127')	
(Submit Copy)  List All E. Logs Run:  Borehole Compensated Sonic, Radiation Microresistivity Logs (e-mailed to: kcc-we					Lansing KS City (base) Marmaton		3108' 3347' 3374'	(-1151') (-1390') (-1417')	
Who oresistivity Le	igo (e manea te. i	too tron logoteent	,oo.,gov,	Arbuc	kle		3408'	(-1451')	
		CASI Report all strings:	NG RECORD set-conductor, su	✓ Ne urface, inte	<del></del>	ion, etc.			
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Wei	ght	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives	
Surface	12 1/4"	8 5/8"	23#		280	Common	200	2% gel, 3% cc	
ADDITIONAL C  Purpose: Depth Top Bottom  — Perforate — Protect Casing — Plug Back TD — Plug Off Zone				TING / SQUEEZE RECORD  Sks Used Type and Percent Additives			S		
Shots Per Foot		ERFORATION RECORD - Bridge Plugs Set/Typ Specify Footage of Each Interval Perforated			Acid, Fra	rd Depth			
							EIVED		
							1 4 2010 VICHITA		
TUDING DECORD	· Size:	Set At:	Packer A	Λt.	Liner Run:	MUC V	VICHIIA		
TUBING RECORD:	. Size.	Set At.	1 dekei 7	ν.		Yes N	lo		
Date of First, Resumed I	Production, SWD or Enh	r. Producing	Method:	Flowin	g Pumpi	ing Gas	Lift Ot	her (Explain)	
Estimated Production Per 24 Hours	Oil E	bls. Gas	Mcf	Wat	er E	Bbls.	Gas-Oil Ratio	Gravity	
DISPOSITIO		Open Hole	METHOD O			ommingled _	PRODUCT	ION INTERVAL:	
(If vented, Sub	omit ACO-18.)	Other (Specif	fy)			-			



## **DRILLING INFORMATION** AND GEOLOGICAL REPORT

Operator:

Berexco, Inc.

Lease:

Hrabe Z1

Survey:

N/2 SE NE SW

Section 36-8S-17W

Field:

Hrabe

County:

Rooks

State:

Kansas

Contractor:

WW Drilling, Rig 10

Elevation:

1952' GL / 1957' KB

Surface Casing: 8-5/8" @ 280'

Production:

D&A

Mud Up:

2716'

Geologist:

2560'

Pipe Strap:

Pipe strap @ 3170' (-1.96' short to the board)

Survey:

Straight hole @ 3170' (1-1/8 degree deviation)

Testing:

4-Trilobite

Log:

Log Tech / Radiation Guard, Sonic & Micro

RTD:

3432'

LTD:

3434'

**Daily Penetration** 

04/21/10 04/22/10 04/23/10

Spud 0810'

04/24/10

2280' 3090'

04/25/10

3175'

04/26/10

3270'

04/28/10

3350'

04/27/10 3432'

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1912

1632 S. West St., Suite 12, Wichita , KS 67213 | P: 316.264.6066 | F: 316.262.6557

#### **Drill Stem Tests**

DST #1 3120' to 3170'. Weak surface blow, died in 13" on the initial flow period. No blow on the second flow period. Recovered: 10' mud. IFP/15" 17-19#, ISIP/30" 60#, FFP/60" 18-19#, FSIP/90" 130#.

<u>DST #2 3170' to 3210'</u>. Strong blow, building to bottom of bucket in 5" on the initial flow period. Strong blow, building to bottom of bucket in 6" of the second flow period. Recovered: 10' Clean Oil, 120' WCM (40% water and 60% mud), 180' GCW (20% gas and 80% water) and 765' Water. IFP/30" 27–273#, ISIP/60" 1270#, FFP/60" 279–566#, FSIP/120" 1233#.

<u>DST #3 3250' to 3270'.</u> Weak surface blow that died immediately on the initial flow period. No blow on the second flow period. Recovered: 2' oil spotted VSWCM (5% water and 95% mud). IFP/15" 17-18#, ISIP/30" 30#, FFP/60" 17-18#, FSIP/60" 37#.

<u>DST #4 3270' to 3344'.</u> Weak surface blow, died in 11" on the initial flow period. No blow on the second flow period. Recovered: 5' Clean Oil and 10' OCM (30% oil and 70% mud). IFP/15" 15-17#, ISIP/30" 657#, FFP/60" 19-24#, FSIP/90" 789#.

#### **Formation Tops**

<u>Formation</u>	Sample Top	<u>Datum</u>	Log	Datum	Structural Comparison*
Anhydrite	1257′	+700	1256′	+701	+20
Base Anhydrite	1293'	+664	1293'	+664	+20
Plattsmouth	3031'	-1074	3032'	-1075	+5
Heebner	3065'	-1108	3064'	-1107	+2
Toronto	3084'	-1127	3084'	-1127	+3
Lansing	3108'	-1151	3108'	-1151	+1
Stark	3299'	-1342	3300'	-1343	+3
B/KC	3350′	-1393	3347'	-1390	+4
Marmaton	3375'	-1418	3374'	-1417	+3
Arbuckle	3408'	-1451	3408'	-1451	+6

<sup>\*</sup>Reference well for structural comparison: Graham-Michaelis Corporation, #1-36 Hrabe, 2340' FSL and 1020' FWL of Section 36-08S-17W, Rooks County, Kansas

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### **Zones of Interest**

2871'-2879'	Topeka - Limestone, buff to gray. Fine crystalline, with few scattered vug porosity. There was no odor in the fresh sample. Few pieces with very slight show of oil.
3031'-3039'	Topeka - Limestone, cream to white. Fine crystalline, rare oolitic and vug porosity. There was no odor detected in the fresh sample. Very slight show of oil.
3108'-3117'	Lansing A Zone - Limestone, cream to light gray. Fine crystalline to fossiliferous. Poor visible porosity. There was no odor in the fresh sample. Very slight show of oil.
3139'-3144'	Lansing B Zone – Limestone, cream, white to light gray. Fine crystalline to very slightly fossiliferous. Very faint odor detected in the fresh sample. Very slight show of oil. This interval was covered in DST #1.
3160'-3170'	Lansing C Zone – Limestone, cream to white. Fine crystalline with rare vug porosity. Samples appear tite. Fair odor detected in the fresh sample. Slight show of free oil. This interval was covered in DST #1.
3183'-3187'	Lansing E Zone – Limestone, tan to cream. Fossiliferous with trace vug porosity. There was a fair odor in the fresh sample. Slight show of free oil. This interval was covered in DST #2.
3206'-3610'	Lansing G Zone – Limestone, cream. Fine crystalline to oolicastic with fair interoolicastic and vug porosity. There was a good odor in the fresh sample. Show live brown free oil. This interval was covered in DST #2.
3263'- 3270	Lansing I Zone – Limestone, cream, white to light tan. Fine, medium crystalline to fossiliferous with scattered vug porosity. Fair odor in the fresh sample. Show of free oil. This interval was covered in DST #3.
3279'-3288'	Lansing J Zone – Limestone, tan to gray. Dense. There was a faint odor in the fresh sample. Very slight show of free oil. This interval was covered in DST #4.
3312'-3320'	Lansing K Zone – Limestone, cream, white to light gray. Fine crystalline to slightly fossiliferous and some scattered vugs. There was a faint odor in the fresh sample. Very slight show of free oil. This interval was covered in DST #4.
3335′-3344′	Lansing L Zone – Limestone, cream. Fine crystalline and dense. Very rare show. This interval was covered in DST #4.
3408'-3412'	Arbuckle - Dolomite, tan to cream. Most pieces fine to medium crystalline with scattered vug. No odor was detected in the fresh sample and no shows of oil.

(See enclosed strip log for reference)

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#### **Comments and Recommendations**

All tops have been corrected to the electric log for structural comparison. This test ran structurally higher than the show hole (GMC - #1-36 Hrabe) to the northwest. There were poor to fair shows of oil noted during drilling in the Lansing/Kansas City. There were four DST's embracing various zones in the Lansing/Kansas City formation which had poor recoveries of oil, formation water and inadequate bottom hole pressures.

The top portion of the Arbuckle had no shows of oil or odor and was deemed non-commercial and did not warrant drill stem testing. Permission was granted to plug and abandon this test as a dry hole.

Drill cuttings have been delivered to the Kansas Geological Survey.

Respectfully submitted,

Bruce A. Reed - Well Site Geologist

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# ALLIED CEMENTING CO., LLC. 33872

REMIT TO P.O. BOX 31 RUSSELL, KANSAS 67665				SERVICE POINT:				
•							NE ! !	
DATE 4.28.10	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START 2.30a.m	JOB FINISH Biogaim	
LEASE Hrabe	WELL#	z#1	LOCATION Jel	W TO 2400	1/73 "5" RD	COUNTY LOOKS	STATE	
OLD OR NEW (Ci			1/2E Vinco	, 10 pr. 10	· ·	7,0071-		
· · · · · · · · · · · · · · · · · · ·			INCOMIC		P			
CONTRACTOR 4	JW#1	0		OWNER				
HOLE SIZE 77			). <u>343</u> 2	CEMENT			_	
CASING SIZE		DE	PTH	_ AMOUNT OF	RDERED 23	9 40 4°	lo Cel	
TUBING SIZE			PTH				1/4/10	
DRILL PIPE 47	2 X-H		PTH 3412	<del>-</del>	•			
TOOL			PTH	•			100	
PRES. MAX			NIMUM	COMMON_	138	@ <i>_/3.5</i> ~	1863,00	
MEAS. LINE		SH	OE JOINT	POZMIX _	92	@ <u>7, 55</u>	694.60	
CEMENT LEFT IN	VCSG.				<u> </u>		162,00	
PERFS.				_ CHLORIDE _	<u> </u>	@		
DISPLACEMENT				ASC	/ =25	@		
	EQU	<b>IIPMEN</b> 1	7	_F% Se	·a/ 57*		139.65	
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BULK TRUCK				-		_	-	
# 473~ 187	DRIVER	Kon		_				
BULK TRUCK		•						
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ALLIED CEMENTING CO., LLC. 33866 SERVICE POINT: REMIT TO P.O. BOX 31 RUSSELL, KANSAS 67665 JOB FINISH CALLED OUT RANGE SEC. DATE 4.21-10 LOCATION Plainsile N TO (R)R) E TO 240 LEASE HRABEZ OLD OR NEW (Circle one) **OWNER** CONTRACTOR WW # 10 TYPE OF JOB Surtace **CEMENT** HOLE SIZE 1214 T.D. 281 AMOUNT ORDERED \_ 200 Com 3%65 CASING SIZE 8 5/8 USE 8 20 DEPTH 280 **DEPTH** TUBING SIZE **DEPTH** DRILL PIPE **DEPTH** TOOL 200 @ 13.50 2780.00 COMMON\_ **MINIMUM** PRES. MAX POZMIX MEAS. LINE @ 20.25 CEMENT LEFT IN CSG. CHLORIDE @ 51.50 DISPLACEMENT 1736 **EQUIPMENT** @ @ CEMENTER Ca'a **PUMP TRUCK** @ HELPER Yaul 398 @ **BULK TRUCK** @ DRIVER Glenn 410 @ **BULK TRUCK** @ DRIVER HANDLING 700 @ 2.25 MILEAGE 110/skfmile 900,00 **REMARKS:** on Duttom Est Circulation **SERVICE** 1 200 SIC & Displace. DEPTH OF JOB PUMP TRUCK CHARGE EXTRA FOOTAGE \_ @ 7.0. MILEAGE MANIFOLD tannes CHARGE TO: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ TOTAL /306,00 STREET \_ CITY\_\_\_\_\_ STATE \_\_\_\_\_ PLUG & FLOAT EQUIPMENT

To Allied Cementing Co., LLC.

You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME \_\_\_\_\_

SIGNATURE Grades Grass

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