

STATE CORPORATION COMMISSION OF KANSAS  
OIL & GAS CONSERVATION DIVISION  
WELL COMPLETION FORM  
ACO-1 WELL HISTORY  
DESCRIPTION OF WELL AND LEASE

API NO. 15- 121-27642-0000

County Miami

C - N/2 - SE - SW Sec. 1 Twp. 16 Rge. 24 X E  
W

1040 Feet from (S)N (circle one) Line of Section

3300 Feet from (E)W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:  
NE, SE, NW or (SW) (circle one)

Lease Name Hartman Well # 2-1

Field Name Paola-Rantoul

Producing Formation Mississippian

Elevation: Ground 991' KB N/A

Total Depth 1028' PBDT N/A

Amount of Surface Pipe Set and Cemented at 21 Feet

Multiple Stage Cementing Collar Used? Yes X No

If yes, show depth set N/A Feet

If Alternate II completion, cement circulated from 1027

feet depth to surface w/ 230 sx cmt.

Drilling Fluid Management Plan RE 11 EH 9.9.02  
(Data must be collected from the Reserve Pit)

Chloride content N/A ppm Fluid volume 500+/- bbls

Dewatering method used evaporation

Location of fluid disposal if hauled offsite:

Operator Name RELEASED

Lease Name FROM License No. CONFIDENTIAL

Quarter CONFIDENTIAL Sec. CONFIDENTIAL Rng. E/W

County CONFIDENTIAL Docket No. CONFIDENTIAL

Operator: License # 32294 **CONFIDENTIAL**

Name: Osborn Energy, L.L.C.

Address 24850 Farley

City/State/Zip Bucyrus, Kansas 66013 **KCC**

Purchaser: Akawa Natural Gas, L.L.C. **AUG 29 2002**

Operator Contact Person: Steve Allee **CONFIDENTIAL**

Phone (913) 533-9900

Contractor: Name: Layne Christensen Canada Limited

License: 32999 Exp. 2.28.04

Wellsite Geologist: Rex Ashlock

Designate Type of Completion

X New Well Re-Entry Workover

Oil SWD SOW Temp. Abd.

X Gas ENHR X SIGW

Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover: **RECEIVED**

Operator: KANSAS CORPORATION COMMISSION

Well Name: SEP 03 2002

Comp. Date Old Total Depth

Deepening Re-perf. CONSERVATION DIVISION

Plug Back WICHITA, KS

Commingled Docket No.

Dual Completion Docket No.

Other (SWD or Inj?) Docket No.

5/23/2002 5/29/2002 waiting on completion

Spud Date Date Reached TD Completion Date

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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.

Signature [Signature]

Title Geologist Date 8-29-02

Subscribed and sworn to before me this 29 day of AUGUST, 2002

Notary Public [Signature]

Date Commission Expires 12/17/2005

**DARLINE LOTT**  
My Appt. Exp. 12/17/05

**K.C.C. OFFICE USE ONLY**  
F Yes Letter of Confidentiality Attached  
C Yes Wireline Log Received  
C NO Geologist Report Received  
**Distribution**  
CONFIDENTIAL KCC SWD/Rep NGPA  
CONFIDENTIAL KGS Plug Other  
(Specify)

SIDE TWO

Operator Name Osborn Energy, L.L.C.

Lease Name Hartman

Well # 2-1

Sec. 1 Twp. 16S Rge. 24

East  
 West

County Miami

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem 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 during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken (Attach Additional Sheets.)  Yes  No  
Samples Sent to Geological Survey  Yes  No  
Cores Taken  Yes  No  
Electric Log Run (Submit Copy.)  Yes  No

Log Formation (Top), Depth and Datum  Sample  
Name Top Datum

Drillers Log Attached

List All E.Logs Run:  
Dual Induction Log

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	13"	10 3/4"	32.75	21'	Class A	13	3% CaCl2
Production	9 7/8"	7"	20	1027'	Thixotropic	230	2% CaCl2

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
	N/A		

TUBING RECORD	Size	Set At	Packer At	Liner Run
N/A				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Date of First, Resumed Production, SMD or Inj. Waiting on completion	Producing Method
	N/A <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 Ncf	Water Bbls.	Gas-Oil Ratio	Gravity
	N/A	N/A	N/A	N/A	N/A

Disposition of Gas: METHOD OF COMPLETION

Vented  Sold  Used on Lease (If vented, submit ACO-18.)

Production Interval

Open Hole  Perf.  Dually Comp.  Commingled

Other (Specify) SIGW

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ORIGINAL

# Driller Log

KANSAS CORPORATION COMMISSION

SEP 03 2002

KCC

AUG 29 2002

**Hartman #2-1**  
1040 FSL, 3300 FEL  
Section 1-T16S-R24E  
Miami, Co. Kansas  
API #15-121-27642

CONSERVATION DIVISION  
WICHITA, KS

CONFIDENTIAL

Elevation: 991 GL, 994 KB (est. from Topo. Map)  
Drilling Contractor: Layne Energy (Lic. #32999)  
Spud: 5/23/2002  
Surface: 13 3/4" bore hole, set 21' of 10 3/4" csg., cmt'd with 13 sx  
Production bore hole: 9 7/8"  
Rotary Total Depth: 1026' on 5/28/02  
Drilling fluid: Air, mudded up to log and ream.  
E-Log Total Depth: 1027'+/-1'  
Production Csg.: 7.00" 20#/ft., set at 1027 feet, cmt'd with 230 sx.

RELEASED  
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<u>Formation</u>	<u>E-Log Top</u>	<u>Datum</u>
Winterset Limestone	200	794
Stark Shale	228	766
Hushpuckney Shale	256	738
Base Kansas City	275	719
Mound City Shale Zone	275	719
"Upper" Knobtown Sand	280	714
"Middle Knobtown Sand	305	689
"Lower" Knobtown Sand Zone	334	660
Carbonaceous Zone in Tacket Fm.	390	604
"Big Lake" Sand	396	598
South Mound	452	542
Hepler (Wayside) Sand	----	----
"Upper" Mulberry Zone	----	----
Mulberry Coal Zone	475	519
Laberdie Limestone	----	----
Weiser Sand	----	----
Anna Shale (Lexington Coal Zone)	492	502
Peru Sand	----	---
Summit Shale Zone	540	454
Mulky Coal/Shale Zone	563	431
"Upper" Squirrel Sand	569	425
"Middle Squirrel Sand	585	409
"Lower Squirrel Sand	613	381
Bevier Coal Zone	643	351
Croweburg Zone(s)	655	339
Fleming Coal Zone	----	----

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Mineral Coal Zone	684	310
Scammon Coal Zone	714	280
"Lower" Cattleman Sand	710	284
Tebo Coal Zone	734	260
Bartlesville "A" Sand	749	245
The "Un-named" Zone	779	215
Bartlesville "B" Sand	804	190
Dry Wood Coal Zone	----	----
Bartlesville "C" Sand	825	169
Rowe Coal Zone	846	148
"Upper" Neutral Coal Zone	870	124
"Lower" Neutral Coal Zone	----	----
"Neutral" (Mystery) Shale Zone	880	114
"E" Sand	----	----
"F" Sand	----	----
"G" Sand	948	46
Riverton Coal Zone	----	----
Mississippian	958	36
Rotary Total Depth	1026	-32
E-Log Total Depth	1027	-33

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**BLUE STAR  
ACID SERVICE, INC.**

PO Box 103  
Eureka, Kansas 67045

Cementing Ticket  
and Invoice Number

**ORIGINAL**  
No. 3467

Date	Customer Order No.	Sect	Top	Range	Truck Called Out	On Location	Job Began	Job Completed
5-30-02	HARTMAN 2-1	1	165	245	KCC	12:30	3:05	3:50
Owner	Contractor			Charge To				
Osborn Energy / Layne Energy	Layne Christensen			Layne Energy				
Mailing Address	City			State				
1345 Highfield Crescent S.E.	CALGARY			ALBERTA		T2G5N2		
Well No. & Form	Place	County	State					
HARTMAN # 2-1		MIAMI	KS					
Depth of Well	Depth of Job	Change	(New) Size	Weight	Size of Hole Amt. and Kind of Cement	Cement Left in casing by	Request Necessity	feet
1027'	1028'		7"	20#	230 SKS		0'	
Kind of Job	Drillpipe		(Rotary) Tubing		Truck No. #12			
Longstring								

Price Reference No. # 1

Price of Job 665.00

Second Stage

Mileage 1007 225.00

Other Charges

Total Charges 890.00

Remarks: Safety Meeting. Rig up to 7" casing. Break circulation with 20 bbl fresh water. Mixed 30 sks cement @ 10.5# per gal. Tail in with 200 sks Thick Set Cement @ 13.8# per gal. Shut down, wash out pump & lines. Release plug. Displace with 41.5 bbl fresh water. Final pumping pressure 400 psi. Bump plug to 900 psi. Wait 5 minutes, check float. Float held. Shut casing in @ 0 psi. Good cement returns to surface = 12' All slurry = 42 sks. Good circulation @ all times while cementing. Job complete. Rig down. ✓

Cementor Kevin McCoy

Helper Mike - Monti

District EUREKA

State KANSAS

The above job was done under supervision of the owner, operator, or his agent whose signature appears below.

Agent of contractor or operator: [Signature]

THANK YOU

Sales Ticket for Materials Only

Quantity Sacks	BRAND AND TYPE	PRICE	TOTAL
230 SKS	Thick Set Cement	10.75	2472.50
RECEIVED KANSAS CORPORATION COMMISSION SEP 03 2002 CONSERVATION DIVISION WICHITA, KS			
1	7" Top Rubber Plug	40.00	40.00
	230 SKS Handling & Dumping	.50	115.00
	12.65 Tons Mileage 100	.80	1012.00
	Sub Total		4,529.20
	Delivered by Truck No. #16	Discount	
	Delivered from EUREKA	Sales Tax	
	Signature of operator Kevin McCoy	Total	

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