

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

**CONFIDENTIAL**

Operator: License # 32294  
Name: Osborn Energy, L.L.C.  
Address 24850 Farley  
City/State/Zip Bucyrus, Kansas 66013  
Purchaser: Akawa Natural Gas, L.L.C.  
Operator Contact Person: Steve Allee  
Phone (913) 533-9900  
Contractor: Name: Layne Christensen Canada Limited  
License: 32999  
Wellsite Geologist: Rex Ashlock  
Designate Type of Completion  
 New Well  Re-Entry  Workover  
 Oil  SWD  SIGW  Temp. Abd.  
 Gas  ENHR  SIGW  
 Dry  Other (Core, WSW, Expl., Cathodic, etc.)

API NO. 15- 121-27638 -00-00  
County Miami  
W/2 - SE - SE Sec. 1 Twp. 16 Rge. 24  (E)

507 Feet from  (S) NW (circle one) Line of Section  
1038 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 Thomas Well # 1-1  
Field Name Paola-Rantoul

**KCC**  
**SEP 25 2002**

Producing Formation Mississippian  
Elevation: Ground 1021' KB N/A  
Total Depth 987' PBTD N/A

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Amount of Surface Pipe Set and Cemented at 20 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set N/A Feet  
If Alternate II completion, cement circulated from 986  
feet depth to surface w/ 235 sx cmt.

Drilling Fluid Management Plan Fluoride content N/A ppm - Fluid volume 500+/- bbls  
Data must be collected from the Reserve Pit)

*AKZ-Dlg - 3/5/09*

If Workover/Reentry: Old Well Info as follows:  
Operator: \_\_\_\_\_  
Well Name: \_\_\_\_\_  
Comp. Date \_\_\_\_\_ Old Total Depth \_\_\_\_\_  
 Deepening  Re-perf.  Conv. to Inj/SWD  
 Plug Back  PBTD  
 Commingled  Docket No. \_\_\_\_\_  
 Dual Completion  Docket No. \_\_\_\_\_  
 Other (SWD or Inj?)  Docket No. \_\_\_\_\_  
6/11/2002 6/15/2002 waiting on completion  
Spud Date Date Reached TD Completion Date

**SEP 27 2002**

Operator Name \_\_\_\_\_  
Lease Name \_\_\_\_\_ License No. \_\_\_\_\_  
Quarter Sec. Twp. S Rng. E/W  
County \_\_\_\_\_ Docket No. \_\_\_\_\_

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 9-25-02  
Subscribed and sworn to before me this 25 day of September, 2002  
Notary Public [Signature]  
Date Commission Expires 12/17/2005

**NOTARY PUBLIC**  
**DARLINE LOTT**  
STATE OF KANSAS  
My Appt. Exp. 12/17/05

**K.C.C. OFFICE USE ONLY**  
F  Letter of Confidentiality Attached  
C  Wireline Log Received  
C  Geologist Report Received  
Distribution  
 KCC  SWD/Rep  NGPA  
 KGS  Plug  Other  
(Specify)

Operator Name Osborn Energy, L.L.C. Lease Name Thomas Well # 1-1

Sec. 1 Twp. 16S Rge. 24E  
 East  
 West

County Miami

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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  Yes  No  
 (Attach Additional Sheets.)  
 Samples Sent to Geological Survey  Yes  No  
 Cores Taken  Yes  No  
 Electric Log Run  Yes  No  
 (Submit Copy.)  
 List All E.Logs Run:  
 Dual Induction Log

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

Drillers Log Attached

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
Surface	13"	10 3/4"	32.70	210'	Portland Class A	84	2% CaCl2
Production	9 5/8"	7"	20	986'	Thixotropic	235	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	Depth

TUBING RECORD Size N/A Set At  Packer At  Liner Run  Yes  No

Date of First, Resumed Production, SMD or Inj. Waiting on completion Producing Method  Flowing  Pumping  Gas Lift  Other (Explain) N/A

Estimated Production Per 24 Hours Oil N/A Bbls. Gas N/A Mcf Water N/A Bbls. Gas-Oil Ratio N/A Gravity N/A

Disposition of Gas: METHOD OF COMPLETION

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

Open Hole  Perf.  Dually Comp.  Commingled  
 Other (Specify) SIGW

Production Interval

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## DRILLER LOG

SEP 25 2002

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**Thomas #1-1**

507 FSL, 1038 FEL

Section 1-T16S-R24E

Miami Co., Kansas

API # 15-121-27638

Elevation: 1021 GL, 1024 KB (est. using a GPS)

Drilling Contractor: Layne Energy

Spud: 06/11/2002

Surface: 10.75" csg set at 21', cmt'd w/ 8 sx

Core Total Depth: 971.3'

Rotary Total Depth: 987' on 06/15/2002

Bore Hole: 9.625 (9 5/8")

Drilling Fluid: Water/Polymer, mudded up to ream and log (chemical/gel)

E-Log Total Depth 987'

Production Csg.: 7.0" / 20#, set at 986.2', cmt'd w/ 235 sx

<u>Formation</u>	<u>E-log Top</u>	<u>Datum</u>
Stark Shale	285	739
Hushpuckney Shale	312	712
Base Kansas City	331	693
Mound City Shale	331	693
"Upper" Knobtown Sand Zone	337	687
"Middle" Knobtown Sand Zone	358	666
"Lower" Knobtown Sand Zone	385	639
"Tacket" Carbonaceous Zone	438	587
"Big Lake" Sand	442	582
South Mound Zone	489	535
Hepler (Wayside) Sand	----	----
"Upper" Mulberry Zone	507	517
Mulberry Zone	524	500
Weiser Sand	541	483
Anna Shale (Lexington Coal Zone)	561	463
Peru Sand	----	----
Summit Zone	605	419
Mulky Zone	635	389
"Upper" Squirrel Sand	----	----
"Middle" Squirrel Sand	----	----
"Lower" Squirrel Zone	663	361
Bevier Coal Zone	689	335
Croweburg Zone	699	325
Mineral Coal Zone	726	298

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Scammon Zone	738	286
Lower Cattleman Sand	748	276
Tebo Zone	771	253
Bartlesville "A" Sand	787	237
The "Un-named" Zone	819	205
Bartlesville "B" Sand	838	186
Dry Wood Zone	854	170
Bartlesville "C" Zone	864	160
Rowe Zone	883	141
"Upper" Neutral Zone	891	133
"Lower" Neutral Zone	897	127
"Neutral" (Mystery) Shale Zone	915	109
"E" Sand	----	----
"F" Sand	946	78
"G" Sand	----	----
"H" Sand	----	----
Riverton Zone	----	----
Mississippian "Conglomerate"	962	62
Mississippian "Lime"	964	60
Core Total Depth	971.3	53
Rotary Total Depth	987	37
E-Log Total Depth	987	37

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ORIGINAL

BLUE STAR ACID SERVICE, INC.

PO Box 103 Eureka, Kansas 67045

Cementing Ticket and Invoice Number

No 3546

Date 6-15-02	Customer Order No. Thomas 1-1	Sec. 1	Twp. 16s	Range 74e	Truck Called Out 10:00am	On Location 1:00pm	Job Began 5:00pm	Job Completed 5:45pm
Owner Osborn Energy / Lays Energy		Contractor Layne Christensen Canada			Charge To Layne Energy			
Mailing Address 1345 Highland Court SE		City Calgary			State Alberta T5G4N2			
# Well No. & Form Thomas # 1-1		Place Miami			State Kansas			
Depth of Well 987'	Depth of Job 987'	Casing (New) Used	Size 7"	Weight	Size of Hole 9 1/8"	Amt. and Kind of Cement 235 sks	Cement Left in casing by (Necessary) 0 feet	Request
Kind of Job Longstring					Drillpipe	(Rotary) Cable	Truck No. # 12	

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Price Reference No. # 1

Price of Job 665.00

Second Stage

Mileage 100 775.00

Other Charges

Total Charges 840.00

Remarks Safety Meeting: Rig up to 7" casing, Break circulation with 15 bbls Freshwater. Mixed 20 sks cement at 10.5" P/Gal. Tail in with 215 sks at 13.8" P/Gal. Shut down wash out Pump chases. Release Plug. Displace Plug with 40 Bbls Freshwater. Final Pumping at 400 PSI - Ripped Plug To 900 PSI. Wait 30 minutes. Check Float - Float Held. Shut casing in with 0 PSI. Good cement returns. To surface = 13 Bbls slurry = 45 sks cement.

Cementer: Bruce Butler Job complete - Two down

Helper: Mik Hart District: Eureka State: Kansas

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

*[Signature]*  
Agent of contractor or operator

"Thank you"

Sales Ticket for Materials Only

Quantity Sacks	BRAND AND TYPE	PRICE	TOTAL
235	sks Thick Set Cement	10.75	2526.25
RECEIVED KANSAS CORPORATION COMMISSION SEP 27 2002 CONSERVATION DIVISION WICHITA, KS			
1	10" Cement Bucket	128.50	128.50
1	7" Top Rubber Plug	40.00	40.00
code # 143,3370			
Plugs		235 sk Handling & Dumping .50	117.50
		1292 E. Mileage 100 .80	1033.60
		Sub Total	4735.85
Delivered by Truck No. # 16		Discount	
Delivered from Eureka		Sales Tax	
Signature of operator <i>[Signature]</i>		Total	

9-25-04

**Osborn Energy, L.L.C.**

24850 Farley  
Bucyrus, KS 66013  
Ph: 913-533-9900  
Fax: 913-533-9955

**CONFIDENTIAL**

September 25, 2002

Kansas Corporation Commission  
Conservation Division  
Finney State Office Building  
130 S. Market, Room 2078  
Wichita, KS 67202

**KCC**

**SEP 25 2002**

Attention: Dave Williams

**CONFIDENTIAL**

Dear Commissioners:

Osborn Energy, L.L.C., a Kansas corporation having its principal place of business at:  
24850 Farley  
Bucyrus, KS 66013

is requesting that the Kansas Corporation Commission keep the information on the Well Completion Form (ACO-1) side two of Thomas 1-1, W/2 SE SE sec. 1, T16S, R24E with API number 15-121-27638-0000, confidential for the maximum amount of time allowed, 24 months, which Osborn Energy deems confidential and proprietary information. Osborn Energy understands the Kansas Corporation Commission desires to obtain the confidential and proprietary information for the sole purpose of regulating the gas and oil industry.

**RECEIVED**  
KANSAS CORPORATION COMMISSION

Sincerely,



Steve Allee.  
Osborn Energy, L.L.C.

**SEP 27 2002**

CONSERVATION DIVISION  
WICHITA, KS

*REV'D 1-31-05 KCC*  
**KANSAS CORPORATION COMMISSION**  
**OIL & GAS CONSERVATION DIVISION**

**UPDATED / CORRECTED**  
 1/4/05

Form ACO-1  
 September 1999  
 Form Must Be Typed

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

ORIGINAL

Operator: License # 32294  
 Name: Osborn Energy, L.L.C.  
 Address: 24850 Farley 48' W & 153' S of:  
 City/State/Zip: Bucyrus, Kansas 66013  
 Purchaser: Akawa Natural Gas, L.L.C.  
 Operator Contact Person: Steve Allee  
 Phone: (913) 533-9900  
 Contractor: Name: Layne Christensen Canada Limited  
 License: 32999  
 Wellsite Geologist: (s) Rex Ashlock, Dean Seeber, Bill Stout  
 Designate Type of Completion:  
 New Well     Re-Entry     Workover  
 Oil     SWD     SLOW     Temp. Abd.  
 Gas     ENHR     SIGW  
 Dry     Other (Core, WSW, Expl., Cathodic, 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./SWD  
 Plug Back     Plug Back Total Depth  
 Commingled    Docket No. 195,304-C (C-28,554)  
 Dual Completion    Docket No. \_\_\_\_\_  
 Other (SWD or Enhr.?)    Docket No. \_\_\_\_\_  

<u>6/12/2002</u>	<u>6/15/2002</u>	<u>7/2/2003</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 121-27638-00-00  
 County: Miami (N 38\* 40.824', W 94\* 41.880')  
 Section: C W/2 SE SE Sec. 1 Twp. 16 S. R. 24  East  West  
507 feet from S N (circle one) Line of Section  
1038' feet from E W (circle one) Line of Section  
 Footages Calculated from Nearest Outside Section Corner:  
 (circle one) NE SE NW SW  
 Lease Name: Thomas Well #: 1-1  
 Field Name: Paola-Rantoul  
 Producing Formation: (s) Lexington & Mulky  
 Elevation: Ground: \_\_\_\_\_ Kelly Bushing: 1024  
 Total Depth: 987 Plug Back Total Depth: \_\_\_\_\_  
 Amount of Surface Pipe Set and Cemented at 20 Feet  
 Multiple Stage Cementing Collar Used?  Yes  No  
 If yes, show depth set None Feet  
 If Alternate II completion, cement circulated from 986  
 feet depth to surface w/ 235 sx cmt.

**Drilling Fluid Management Plan**  
 (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: \_\_\_\_\_  
 Lease Name: \_\_\_\_\_ License No.: \_\_\_\_\_  
 Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_ East West  
 County: \_\_\_\_\_ Docket No.: \_\_\_\_\_

**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 of 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]  
 For Osborn Energy, L.L.C. Date: 1/13/05  
 Title: \_\_\_\_\_  
 Subscribed and sworn to before me this 13 day of January  
20 05  
 Notary Public: [Signature]  
 Date Commission Expires: \_\_\_\_\_

**REX R. ASHLOCK**  
 Notary Public - State of Kansas  
 My Appt. Exp. 1-10-09

**KCC Office Use ONLY**

Letter of Confidentiality Attached  
 If Denied, Yes  Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution

Operator Name: Osborn Energy, L.L.C. Lease Name: Thomas Well #: 1-1  
 Sec. 1 Twp. 16 S. R. 25 X East West County: Miami

**INSTRUCTIONS:** Show important tops and base 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. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  Cores Taken Yes <input checked="" type="checkbox"/> No  Electric Log Run <input checked="" type="checkbox"/> Yes No <i>(Submit Copy)</i>  List All E. Logs Run: IES / CDL Cmt Bond / GR / CCL (attached/mailed w/ this ACO-1)	X Log Formation (Top), Depth and Datum Sample  Name Top Datum  OH Log(s), Cmt Ticket(s), Drlg's Log, etc., sent w/ 1st ACO-1
--	--

CASING RECORD <input checked="" type="checkbox"/> 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 3/4"	10 3/4"	32.70	21'	Portland	8	CaCl <sub>2</sub>
Production	9 7/8"	7.0"	20	986'	Thixotropic	235	CaCl <sub>2</sub>

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 <i>(Amount and Kind of Material Used)</i>		Depth
	4	560-564'		200 gal. 15% HCl 73 sx 20/40 frac sand 15 sx 12/20 frac sand	
4	634-650'		500 gal. 15% HCl 50 sx 20/40 frac sand 32 sx 12/20 frac sand		634-650'

TUBING RECORD		Size Set At	Packer At	Liner Run	
2 7/8" set at 720' +/-		None	None	Yes	<input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Enhr.		Producing Method			
7/2003		Flowing <input checked="" type="checkbox"/> Pumping		Gas Lift	Other (Explain)
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	None	Avg. 19.3 MCFPD	Avg. 190 BBL/day		No Oil

Disposition of Gas      METHOD OF COMPLETION      Production Interval

Vented    Sold    Used on Lease     
 Open Hole    Perf.   Dually Comp.    Commingled

Other (Specify) \_\_\_\_\_