

**CONFIDENTIAL**

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION  
**WELL COMPLETION FORM**  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

**ORIGINAL**

Form ACO-1  
September 1999  
Form Must Be Typed

2/7/10

Operator: License # 32294  
Name: OSBORN ENERGY, LLC  
Address: 24850 FARLEY  
City/State/Zip: BUCYRUS, KS 66013  
Purchaser: AKAWA NATURAL GAS, LLC  
Operator Contact Person: JEFF TAYLOR  
Phone: (913) 533-9900  
Contractor Name: OSBORN ENERGY, LLC  
License: 32294

Wellsite Geologist: \_\_\_\_\_  
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. \_\_\_\_\_  
 Dual Completion    Docket No. \_\_\_\_\_  
 Other (SWD or Enhr.?)    Docket No. \_\_\_\_\_

1/3/2008	1/7/2008	1/23/2008
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15121285440000  
County: Miami  
SE NE SW Sec. 1 Twp. 16 S. R. 24  East  West  
1650 feet from S / N (circle one) Line of Section  
2310 feet from E / W (circle one) Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
(circle one) NE SE NW SW  
Lease Name: Hopkins Well #: 19-1  
Field Name: Louisburg  
Producing Formation: MARMATON AND CHEROKEE  
Elevation: Ground: 992' Kelly Bushing: \_\_\_\_\_  
Total Depth: 667' 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 \_\_\_\_\_ Feet  
If Alternate II completion, cement circulated from 0 - 664'  
feet depth to 20 w/ 6 sx cmt.

**Drilling Fluid Management Plan** Att # NJ 0-9-09  
(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 No.: \_\_\_\_\_  
Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West  
County: \_\_\_\_\_ Docket No.: \_\_\_\_\_

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**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: Curtis Hausen  
Title: Geologist Date: 2-7-08  
Subscribed and sworn to before me this 7<sup>th</sup> day of February  
2008

Notary Public: Jane Brewer  
Date Commission Expires: \_\_\_\_\_  
**Jane Brewer**  
Notary Public  
State of Kansas  
My Commission Expires 3-23-11

**KCC Office Use ONLY**  
 Letter of Confidentiality Received  
If Denied, Yes  Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution  
**RECEIVED**  
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WICHITA, KS

Operator Name: OSBORN ENERGY, LLC Lease Name: Hopkins Well #: 19-1  
 Sec. 1 Twp. 16 S. R. 24  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  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:

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

WELL LOG ATTACHED

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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 13/4"		20'	PORTLAND	6	WATER
PRODUCTION	9 1/4"	7"		664'	Consolidated	Ticket	Attached
LINER							

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		Acid, Fracture, Shot, Cement Squeeze Record		Depth
	Specify Footage of Each Interval Perforated		(Amount and Kind of Material Used)		

TUBING RECORD		Size	Set At	Packer At	Liner Run
					<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumerd Production, SWD or Enhr.		Producing Method			
		<input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
		WC			

Disposition of Gas  Vented  Sold  Used on Lease (If vented, Submit ACO-18.)

METHOD OF COMPLETION  Open Hole  Perf.  Dually Comp.  Commingled  Other (Specify)

Production Interval

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## Geological Report

### Hopkins # 19-1

1650 FSL, 2310 FWL

Section 1-T16-R24E

Miami Co., Kansas

API# 15-121-28544

Elevation: 992' GL, according to kcc

Drilling Contractor: Osborn Energy, L.L.C (Lic. # 32294)

Spud: 1-3-2008

Production Bore Hole: 9 1/4"

Rotary Total Depth: 642' on 1/7/2008 \*\*\* drilled out further, but did not collect data. TD is 667'

Drilling Fluid: air

Surface Csg.: 10 3/4"

Production Csg.: 7" set to 664'

Geologist: Curstin Hamblin

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<u>Formation</u>	<u>Driller Log Tops</u>		<u>Datum</u>
Stark Shale	232-237'	5'	760'
Hushpuckney Shale	265-267'	2'	727'
Base Kansas City	287'		705'
Knobtown Sand	No call		
Carbonaceous Zone in Tacket Fm.	No call		
"Big Lake" Sand	407'		585'
South Mound Zone	463'		529'
Hepler (Wayside) Sand	No call		
"Upper" Mulberry Zone	No call		
Mulberry Zone	No call		
Weiser Sand	497'		495'
Myrick Station	Not developed'		
Anna Shale (Lexington Coal Zone)	510-515'	5'	482'
Peru Sand	No call		
Summit Shale Zone	558-568'	10'	434'
Mulky Coal/Shale Zone	582-598'	16'	410'
Squirrel Sand	599'		393'
Rotary Total Depth	642'		350'

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Drilling at 117' in the Kansas City on 1/4/2008  
Background Gas (BG) units---Not working

117-127: SH: grey, SAND: some, grey  
127-137: SH: grey, little silty  
137-147: SH: grey, LS: some 15% tan, Black shale at 140'  
147-157: SH: grey, LS: 30% tan  
157-167: SH: grey, silty  
167-177: SH: grey, gummy, some silty, some flaky  
177-187: LS: tan, calcitic fractures, SH: grey 5%  
187-197: SH: grey, gummy, LS: tan 5%  
197-207: SH: grey, gummy  
207-217: LS: grey  
217-227: LS: white

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**STARK FORMATION** Geologist called @ 232'

**\*\*GAS TEST @242' , "puff" of gas\*\*Not enough to measure**

233': no gas bubbles  
234': started drilling with water  
227-237: SH: grey, some black, LS: 5% tan  
237-247: SH: grey, some black, LS: tan/pink, looks pitted, some PYRITE  
247-257: LS: lt grey

**HUSHPUCKNEY SHALE** Geologist called @265'

**\*\*GAS TEST @267' , 0 MCF\*\***

265': poor gas bubbles  
257-267: LS: tan, white, SH: some grey, some black  
267-277: SH: grey, LS: grey  
277-287: LS: lt grey  
287': bkc

**\*\*GAS TEST @292' , 0 MCF\*\***

287-297: SH: grey, gummy LS: some, 5%  
297-307: SH: grey, silty  
BG running at 14.9 units  
307-317: SH: grey, gummy  
317-327: SH: grey, silty, almost sandy  
327-337: SH: grey, silty, gummy, Pyrite  
337-347: SAND: grey, SH: grey  
347-357: SAND: grey, small grains  
357-367: SAND: grey, small grains  
367-377: SH: grey, dark grey, silty, PYRITE  
377-387: SH: grey, gummy  
387-397: SH: grey, dk grey  
397-407: SH: shale balls grey, some black, there is a black shale stringer in this 10 foot section LS: very little tan  
407-417: SAND: grey, SH: black

**\*\*GAS TEST @ 417' , 0 MCF\*\***

417-427: SAND: lt grey, SH: very little grey and black 10%  
427-437: SH: grey, SAND: grey  
437-447: SH: grey, SAND: grey  
447-457: SH: grey, silty

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SOUTH MOUND ZONE Geologist called @ 463', No gas kick  
**\*\*GAS TEST @ 467', 0 MCF Total, puff of gas\*\***  
465': fair gas bubbles  
457-467: SH: grey, dk grey

Stopped drilling at 4:27 on 1/4/2008 at 467'  
Resumed drilling at 9:15am on 1/7/2008 at 467'  
**\*\*GAS TEST @ 467', 0 MCF Total, puff of gas\*\***

BG running at 6.0 units  
467-477: SH: very gummy, grey, some pyrite, occ. Black shale  
\*\* first 5' of drilling, no samples came out. This was as we were drilling through the south mound, so I could not get an accurate read on how thick the south mound was. There was not a kick on the chromatograph.  
477-487: SH: grey, some silty, some gummy, some black shale  
**\*\*GAS TEST @ 492', 0 MCF Total, puff of gas\*\***  
No connection gas kicks  
487-497: SAND: grey, SH: some, grey

**WEISER SAND 497'**  
497-507: SAND: grey, lt grey-10' of terrible samples, very small

**LEXINGTON COAL ZONE** Geologist called @ 510', NO GAS KICK  
**\*\*GAS TEST @517', 0 MCF Total\*\***  
512': very, very good gas bubbles  
507-517: SAND: grey, SH: black, COAL  
Connection gas to 29.8 from 2.3 units, 27.5 units---BG running at 7.1  
517-527: SH: grey, black, SAND: grey, LS: tan-very small samples  
gas kick from 6.4 to 9.1 units  
532': LS: hard lime  
527-537: LS: white, to lt. grey, SH: some grey, some black  
**\*\*GAS TEST @542', 0 MCF Total\*\***  
537-547: LS: white, lt grey, SH: occ. Grey, black, 3%  
552': gas kick from 7.1 to 31.1, 24 units over, now running at 17.3 units  
547-557: LS: white, tan, lt grey, SH: some grey, some black 3%  
\*\*\*small samples

**SUMMIT SHALE ZONE** Geologist called @558', gas kick to 31.1, 24 units over BG  
**\*\*GAS TEST @567', 16 MCF Total \*\***  
558': gas bubbles, good to very good  
557-567: SH: black, some grey, LS: white/pink, some PYRITE  
Connection gas of 131.5 units, BG now running at 18.3  
567-577: SAND: grey, LS: white, pink, SH: black  
**\*\*GAS TEST @577', 0 MCF, 16 MCF Total \*\***

**MULKY COAL/SHALE ZONE** Geologist called @ 582', kick to 36.6 units, 18.3 over BG  
580': gas kick to 36.6 from 18.3, 18.3 over bg, now running at 21.2  
582- 598': Black shale, Shale mixed with sand after that  
583': Black shale- good gas bubbles  
577-587: SH: black, SAND: grey, LS: grey  
592': Connection gas to 166 units over BG, BG now running at  
587-597: SH: black, SAND: grey 5%

**SQUIRREL SAND** Geologist called @ 599'  
**\*\*GAS TEST @617', 0 MCF 16 MCF Total \*\***  
597-607: 50/50- SH: black, SAND: lt grey, white

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607-617: SAND: lt grey, dk grey, SH: Black  
617': 348.7 connection gas, bg now running at 17.5  
617-627: SAND: grey, biotite, Pyrite, SH: some black  
627-637: SAND: grey, biotite, SH: some black 3%  
637-642: SAND: grey, some Pyrite, some black shale

Total Rotary Depth, 642'

**\*\*GAS TEST @642', 0 MCF 16 MCF Total \*\***

Summary:

Stark:	0 MCF
Hushpuckney:	0 MCF
South Mound:	0 MCF-not enough to measure
Lexington:	0 MCF-not enough to measure- good gas bubbles in the samples
Summit:	16 MCF
Mulky:	0 MCF
Total:	16 MCF

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CONSOLIDATED OIL WELL SERVICES, LLC  
 P.O. BOX 884, CHANUTE, KS 66720  
 20-431-9210 OR 800-467-8676

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TICKET NUMBER 159  
 LOCATION Ottawa  
 FOREMAN Alan Mad

**TREATMENT REPORT & FIELD TICKET  
 CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	C	
1-23-08	6073	Hopkins #19-1	1	16	24	N	
CUSTOMER <u>Osborn Energy</u>				TRUCK #	DRIVER	TRUCK #	D
MAILING ADDRESS <u>24850 Farley</u>				<u>316</u>	<u>Alan M</u>		
CITY <u>Bucyrus</u>		STATE <u>KS</u>	ZIP CODE <u>66013</u>	<u>510</u>	<u>Brian J</u>		
				<u>495</u>	<u>Casey K</u>		
JOB TYPE <u>Long string</u>	HOLE SIZE <u>9 5/8</u>	HOLE DEPTH <u>667</u>	CASING SIZE & WEIGHT <u>7"</u>				
CASING DEPTH <u>664</u>	DRILL PIPE	TUBING	OTHER				
SLURRY WEIGHT	SLURRY VOL	WATER gal/sk	CEMENT LEFT in CASING <u>yes</u>				
DISPLACEMENT <u>27.6</u>	DISPLACEMENT PSI	MIX PSI	RATE <u>5 bpm</u>				
REMARKS: <u>Washed down casing. Mixed &amp; pumped 200# gel to flush hole. Mixed &amp; pumped 20 bbl dye marker job by 141.5x 5D150 poz 2% gal. Circulated dye to 5m. Displaced casing with 27 1/2 bbl. Circulated 6 bbl cement returns. Cement had 4 1/2# Phenoseal per sack</u>							

Customer supplied water

Alan Mad

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	
5401	1	PUMP CHARGE	495	8
5408	40	MILEAGE	495	1
5402	664'	Casing footage	495	1
5407	min	ten miles	510	3
1107A	35#	Phenoseal		3
118B	437#	gel		6
1124	138.5x	5D150 poz		12
				2
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	<u>Brian Schwab</u>		<u>6538</u>	2

AUTHORIZATION \_\_\_\_\_

TITLE 219861

SALES TAX ESTIMATED TOTAL 2  
 DATE \_\_\_\_\_