

CONFIDENTIAL

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

WELL COMPLETION FORM

WELL HISTORY - DESCRIPTION OF WELL & LEASE

12/24/09  
ORIGINAL

Form ACO-1  
September 1999  
Form Must Be Typed

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: Curstin Hamblin

Designate Type of Completion:  
 New Well  Re-Entry  Workover  
 Oil  SWD  SIOW  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. \_\_\_\_\_

11/23/2007 11/28/2007  
Spud Date or Date Reached TD Completion Date or  
Recompletion Date Recompletion Date

API No. 15 - 121-28527 - 00-00

County: Miami

    -     -     -     Sec. 1 Twp. 16 S. R. 24  East  West

1650 N feet from S / (N) (circle one) Line of Section

330 W 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 #: 14-1

Field Name: Paoloa-Rantoul

Producing Formation: MARMATON AND CHEROKEE

Elevation: Ground: 993 Kelly Bushing: \_\_\_\_\_

Total Depth: 630' 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 to 447

feet depth to 20 w/ 6 sx cmt.

Drilling Fluid Management Plan ALT II NS 32409  
(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.: \_\_\_\_\_

**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.

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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: Curstin Hamblin

Title: Geologist Date: 12/24/2007

Subscribed and sworn to before me this 24<sup>th</sup> day of December

2007

Notary Public: [Signature]

Date Commission Expires: 3-23-11

**Jane Brewer**  
Notary Public  
State of Kansas  
My Commission Expires 3-23-11

KCC Office Use ONLY CONSERVATION DIVISION WICHITA, KS  
 Letter of Confidentiality Received  
 If Denied, Yes  Date: \_\_\_\_\_ RECEIVED  
 Wireline Log Received KANSAS CORPORATION COMMISSION  
 Geologist Report Received DEC 27 2007  
 UIC Distribution

DEC 27 2007

Operator Name: OSBORN ENERGY, LLC Lease Name: Hopkins Well #: 14-1  
 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 3/4"		20'	PORTLAND	6	WATER
PRODUCTION	9 1/4"	7"	17 #	447	Consolidated	Ticket	Attached
LINER							

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				

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

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TUBING RECORD		Size	Set At	Packer At	Liner Run
					<input 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  
 Production Interval  Other (Specify) \_\_\_\_\_

## Geological Report

### Hopkins # 14-1

1650 FNL, 330 FWL  
Section 1-T16-R24E  
Miami Co., Kansas  
API# 121-28527-0000  
Elevation: 993' GL, according to kcc  
Drilling Contractor: Osborn Energy, L.L.C (Lic. # 32294)  
Spud: 11-23-2007  
Production Bore Hole: 9 ½"  
Rotary Total Depth: 630' on 11/28/2007  
Drilling Fluid: air  
Surface Casing: 10 ¾"  
Production Csg.: 7" set to 447'  
Geologist: Curstin Hamblin

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<u>Formation</u>	<u>Driller Log Tops</u>	<u>Datum</u>
Stark Shale	242'	751'
Hushpuckney Shale	268'	725'
Base Kansas City	296'	697'
Knobtown Sand	No call	
Carbonaceous Zone in Tacket Fm.	No call	
"Big Lake" Sand	'	
South Mound Zone	447'	546'
Hepler (Wayside) Sand	No call	
"Upper" Mulberry Zone	No call	
Mulberry Zone	No call	
Weiser Sand	'	
Myrick Station	'	
Anna Shale (Lexington Coal Zone)	513'	480'
Peru Sand	No call	
Summit Shale Zone	550'	443'
Mulky Coal/Shale Zone	571'	422'
Squirrel Sand	590' ?	
Rotary Total Depth	630'	363'

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WICHITA, KS

Drilling at 150' in the Kansas City on 11/26/2007  
Background Gas(BG)9.5 units

150-160: SH: dk grey  
160-170: SH: dk grey, silty, LS: tan w/ calcite fractures  
170-180: SH: dk grey  
180-190: SH: dk grey, LS: tan, white  
190-200: LS: white, tan w/ calcite fractures, SH: dk grey  
200-210: SH: dk grey, LS: tan  
210-220: LS: dk grey, black  
220-230: LS: lt grey, white w/ calcite fractures, black  
230-240: LS: lt grey, white, SH: black

**STARK FORMATION** Geologist called @ 242', \*\*\*NO gas kick, most likely due to a data monitoring system error.  
BG Gas 10.3 units

Tested the data monitoring system with a lighter, and still had no kick.  
241: switched to water  
242: SH: Black, no gas bubbles, some pyrite  
240-250: LS: lt grey, white, calcite fractures, SH: black  
250-260: LS: lt grey

**HUSHPUCKNEY SHALE** Geologist called @ 268', \*\*\*No Gas kick  
268: No gas bubbles, some pyrite, black shale, ls  
260-270: LS: white, lt grey, SH: black  
270-280: SH: dk grey, black  
280-290: LS: lt grey, white, marbled tan, SH: occ. Black  
290-300: LS: lt grey, white, SH: grey, occ. Black

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**BKC** Geologist called at 296'

300-310: SH: grey, occ. Black w/ pyrite, SAND: grey  
310-320: SAND: lt grey, PYRITE, SH: grey  
320-330: SH: grey, gummy, SAND: lt grey  
330-340: SH: grey, gummy  
341: Tested the data monitoring system with a lighter, BG kick from 10.5 to 14.7 units. Currently running at 10.3 units  
340-350: SAND: lt grey, brachiopod fossils and shells, PYRITE, SH: grey  
350-360: SAND: lt grey, LS: grey, SH: grey  
360-370: SAND: lt grey, SH: grey, fossils-crinoids, PYRITE  
370-380: SH: grey, SAND: lt grey, PYRITE, fossils-crinoids & gastropods and shell pieces  
380-390: SH: grey, PYRITE  
390-400: SH: grey, gummy, black, PYRITE  
400-410: SH: grey, gummy, black, fossils-crinoids, LS: tan  
416: \*\*\*Gas test--@ 416', 0 MCF  
\*\*lighter tested the data monitoring system, kick from BG 11.2 to 26.6 units, BG now running at 12.2 units  
410-420: SH: grey, occ. black, LS: white w/ calcite, PYRITE, coper-like color  
420-430: SH: grey, occ. Black, LS: occ. Brown  
430-440: SH: grey, gummy

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**SOUTH MOUND ZONE** Geologist called @ 447', gas kick to 19 units, 4.8 over BG

440-450: SH: black, few gas bubbles, very poor, dk grey, occ. PYRITE

**\*\*GAS TEST @ 456', 38 MCF Total\*\***

BG running at 17.3 units

457' gas kick to 37.1 units, 19.8 units above BG

458' gas kick to 46 units, 28.7 units above BG

450-456: SH: black, dk grey shale, PYRITE

456-461: SH: black, grey, PYRITE, LS: lt grey, dk grey

**\*\*GAS TEST @ 461', 22 MCF Total\*\***

Shut down drilling rig at 461' for the night at 5:010pm on 11/26/2007.

Resumed drilling at 12:50 on 11/28/2007. BG at 9.6 units.

**\*\*GAS TEST @ 462', 0 MCF\*\***

462-467: LS: lt grey, white

467-477: LS: lt grey, tan, white, SH: black, dk grey, CLAY-gummy, wheat-like fossils

477-487: LS: lt grey, tan & white, crinoid fossils

495' \*\*\*Small gas kick from 8.9 to 10.3 BG- possibly the Mulberry

487-497: SAND: tan, lt grey, SH: dk grey

**513' gas kick to 32.3 from 10.8, 22.3 above BG**

497-507: Clay, very gummy

**WEISER SAND**—no call

**LEXINGTON COAL ZONE** Geologist called @513', kick to 32.3 units, 22.3 over BG

**\*\*GAS TEST @517', 5 MCF 27 MCF Total\*\***

\*\*opened flow and gas tested off the charts on the monitoring system

BG 15.2 units

507-517: SH: black, SAND

517-527: LS: lt grey, SAND, SH: occ. Black

527-537: LS: white, SH: dk grey, Clay

**\*\*GAS TEST @542', 4 MCF 31 Total\*\***

\*\*\*opened flow and gas spiked on the monitoring system, BG 12.3

537-547: SH: dk grey, occ. Black

**SUMMIT SHALE ZONE** Geologist called @ 550', No substantial kick

550: very, very poor gas bubbles

547-557: SH: dk grey, black, Clay

557-567: LS: lt grey, SH: grey, occ. Black, gummy clay

BG got as low as 19.4 units

**MULKY COAL/SHALE ZONE** Geologist called @ 571', kick to 30.7 units, 11.3

over BG

571: no gas bubbles

567-577: SH: black, COAL, occ. PYRITE

577-587: SH: black, grey-very silty

Gas kick to 31.7 units, 4.5 units above BG

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BG running at 32.4 after open flow

**\*\*GAS TEST @592', 16 MCF 47 Total\*\***

587-597: SAND: lt grey, SH: black

597-607: SAND: lt grey, mica, SH: occ. Black LS: occ. Tan

607-617: SAND: lt grey, SH: occ. Black

617-627: SAND: lt grey, SH: occ. Black, LS: occ. White

627-630: SAND: lt grey and Tan

**SQUIRREL SAND** Geologist called @ 590'?

**No final gas test. Did not have the u-tube**

Total Rotary Depth, TD: 630'

finished drilling at 4:16pm 11/28/2007

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OF THE STATE OF KANSAS  
TOPEKA, KS



**CONSOLIDATED**  
OIL WELL  
SERVICES, LLC

**REMIT TO**  
Consolidated Oil Well Services, LLC  
Dept. 970  
P.O. Box 4346  
Houston, TX 77210-4346

MAIN OFFICE  
P.O. Box 884  
Chanute, KS 66720  
620/431-9210 • 1-800/467-8676  
FAX 620/431-0012

INVOICE

Invoice # 218713

Invoice Date: 11/30/2007 Terms:

Page 1

OSBORN ENERGY LLC  
24850 FARLEY  
BUCYRUS KS 66013  
(913)533-9900

HOPKINS 14-1  
1-16-24  
15799  
11/27/07

*OBCL*

Part Number	Description	Qty	Unit Price	Total
1124	50/50 POZ CEMENT MIX	78.00	8.8500	690.30
1118B	PREMIUM GEL / BENTONITE	236.00	.1500	35.40
1102	CALCIUM CHLORIDE (50#)	136.00	.6700	91.12

  

Description	Hours	Unit Price	Total
226 MIN. BULK DELIVERY	1.00	285.00	285.00
495 CEMENT PUMP	1.00	840.00	840.00
495 EQUIPMENT MILEAGE (ONE WAY)	40.00	3.30	132.00

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Parts:	816.82	Freight:	.00	Tax:	53.50	AR	2127.32
Labor:	.00	Misc:	.00	Total:	2127.32		
Sublt:	.00	Supplies:	.00	Change:	.00		

Signed \_\_\_\_\_

Date \_\_\_\_\_

CONSOLIDATED OIL WELL SERVICES, LLC  
 P.O. BOX 884, CHANUTE, KS 66720  
 620-431-9210 OR 800-467-8676

TICKET NUMBER 15799  
 LOCATION Ottawa KS  
 FOREMAN Fred Maden

TREATMENT REPORT & FIELD TICKET  
 CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
11/27/07	6073	Hopkins #14-1	1	16	24	M1

TRUCK #	DRIVER	TRUCK #	DRIVER
506	Fred		
495	Cassy		
226	Eric/Ken		

CUSTOMER Osborn Energy - LLC  
 MAILING ADDRESS 24850 Farley  
 CITY Bucyrus STATE KS ZIP CODE 66013

JOB TYPE Longstring HOLE SIZE 9 1/4 HOLE DEPTH 447' CASING SIZE & WEIGHT 7"  
 CASING DEPTH 447' DRILL PIPE Holes in TUBING @ 441' OTHER \_\_\_\_\_  
 SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 5'  
 DISPLACEMENT 18.4 BBL DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE 5 BPM

REMARKS: Establish circulation Mix Pump 100# Gal Flush.  
Mix & Pump 13 BBL Tackled dye Follow w/ RI SKs 50/50  
Per Mix Cement w/ 2% Gal 2% Calcium Chloride.  
Displace 7" casing clean w/ 18.4 BBL Fresh water Shut in  
Casing

Customer Supplied H<sub>2</sub>O. Fred Maden

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE Cement Pump	495	840 <sup>00</sup>
5406	40 mi	MILEAGE Pump Truck	495	132 <sup>00</sup>
5407	Minimum	Tax Mileage	226	286 <sup>50</sup>
1124	78 SKS	50/50 Per Mix Cement		690 <sup>30</sup>
1118B	236 #	Premium Gel		35 <sup>40</sup>
1102	136 #	Calcium Chloride		91 <sup>12</sup>
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<b>DEC 27 2007</b>				
<b>CONSERVATION DIVISION</b>				
<b>W/UTS/VS</b>				
<b>Sub Total</b>				2073 <sup>25</sup>
<b>Tax @ 6.5%</b>				53.50
<b>SALES TAX ESTIMATED TOTAL</b>				2127.34

AUTHORIZATION Brian Watkins TITLE 218713 DATE \_\_\_\_\_