

CONFIDENTIAL

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1  
October 2008  
Form Must Be Typed

9/10/11

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 32294  
Name: Osborn Energy, L.L.C.  
Address 1: 24850 Farley  
Address 2: \_\_\_\_\_  
City: Bucyrus State: KS Zip: 66013  
Contact Person: Curstin Hamblin  
Phone: ( 913 ) 533-9900  
CONTRACTOR: License # 32294  
Name: Osborn Energy, L.L.C.  
Wellsite Geologist: Curstin Hamblin  
Purchaser: Akawa Natural Gas, L.L.C.

API No. 15 - 121-28690-0000  
Spot Description: NW4 Sec. 22 T16S R25E  
E2 NW NW NW Sec. 22 Twp. 16 S. R. 25  East  West  
330 Feet from  North /  South Line of Section  
330 Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW  
County: Miami  
Lease Name: Haeberle Well #: 1-22  
Field Name: Louisburg

Designate Type of Completion:  
 New Well  Re-Entry  Workover  
 Oil  SWD  SLOW  
 Gas  ENHR  SIGW  
 CM (Coal Bed Methane)  Temp. Abd.  
 Dry  Other \_\_\_\_\_  
(Core, WSW, Expl., Cathodic, etc.)

Producing Formation: Marmaton / Cherokee  
Elevation: Ground: 993 Kelly Bushing: \_\_\_\_\_  
Total Depth: 619 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: 616.64  
feet depth to: surface w/ 80 sx cmt.

If Workover/Re-entry: Old Well Info as follows:  
Operator: \_\_\_\_\_  
Well Name: \_\_\_\_\_  
Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_  
 Deepening  Re-perf.  Conv. to Enhr.  Conv. to SWD  
 Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_  
 Commingled Docket No.: \_\_\_\_\_  
 Dual Completion Docket No.: \_\_\_\_\_  
 Other (SWD or Enhr.?) Docket No.: \_\_\_\_\_  
8/27/2009 8/28/2009 9/2/2009  
Spud Date or Date Reached TD Completion Date or Recompletion Date

Drilling Fluid Management Plan AK IN 39-30-09  
(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.: \_\_\_\_\_

**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: Curstin Hamblin  
Title: Geologist Date: 9-10-09  
Subscribed and sworn to before me this 10<sup>th</sup> day of September  
09  
Notary Public: [Signature]  
Date Commission Expires: \_\_\_\_\_

**Jana 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

Operator Name: Osborn Energy, L.L.C. Lease Name: Haeberle Well #: 1-22  
 Sec. 22 Twp. 16 S. R. 25  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 <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(Submit Copy)</i>  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum  <div style="text-align: center;"> <p><b>KCC</b>  <b>AUG 10 2009</b>  <b>CONFIDENTIAL</b></p> <p><b>RECEIVED</b>  <b>SEP 14 2009</b>  <b>KCC WICHITA</b></p> </div>
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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	12 1/4"	8 5/8"		20'	portland	4	water
Production	6 3/4"	4 1/2"		616.64	owc	80	gel

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
	None-woc		

TUBING RECORD: Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or Enhr. \_\_\_\_\_ Producing Method:  Flowing  Pumping  Gas Lift  Other (Explain) \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <input type="checkbox"/> Other (Specify) _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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**CONSOLIDATED**  
Oil Well Services, LLC

PO Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-8876

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TICKET NUMBER 20114

LOCATION Ottawa

FOREMAN Alan Madee

**FIELD TICKET & TREATMENT REPORT**  
**CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
9-2-09	6073	Haerberle #1-22	NW 22	16	25	Mi
CUSTOMER Osborn Energy			TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS 2485D Farley Rd			516	Alan M		
CITY Bucyrus	STATE KS	ZIP CODE	495	Casey K		
			548	Jason H		
JOB TYPE	long string	HOLE SIZE	6 3/4	HOLE DEPTH	619	CASING SIZE & WEIGHT
CASING DEPTH	610	DRILL PIPE		TUBING		OTHER
SLURRY WEIGHT		SLURRY VOL		WATER gal/ft		CEMENT LEFT In CASING
DISPLACEMENT	9 1/2	DISPLACEMENT PSI		MIX PSI		RATE
REMARKS: Washed pipe to bottom. Mixed & pumped 100# gel to flush hole followed by 14 gal dye marker. Mixed & pumped 80sk DWL cement with 1/2# phen seal. Circulated dye. Flushed pump. Pumped plug to casing TD. Well held 800 p.s.i. Set float checked depth with wireline.						

Customer water

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE		870.00
5402	40	MILEAGE		108.00
5407A	150.4	casing footage ten miles		174.46
		RECEIVED		
1118J3	100#	gel		16.00
1107A	40#	phen seal	SEP 14 2009	43.00
1126	80SK	DWL	KCC WICHITA	1280.00
4404	1	4 1/2 plug		43.00
		WO# 231104		

SALES TAX ESTIMATED TOTAL 90.54  
2655.80

AUTHORIZATION [Signature]

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

## Geological Report

Haeberle # 1-22

330 FNL, 330 FWL

Section: 22-T16-R25E

E2-NW-NW-NW

Miami Co., Kansas

API#: 15-121-28690-0000

Elevation: 993' GL

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

Spud: 8/27/2009

Production Bore Hole: 6 3/4"

Rotary Total Depth: 619 on 8/28/2009

Drilling Fluid: air

Surface Csg.: 8 5/8" on 8/27/2009

Production Csg.: 4 1/2" @ 616.64

Geologist: Curstin Hamblin

Driller: Brian Schwab

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<u>Formation</u>	<u>Driller Log Tops</u>	<u>Datum</u>
Stark Shale	81-83'	912
Hushpuckney Shale	99-102'	894
Base Kansas City	127'	866
Knobtown Sand	No call	
Carbonaceous Zone in Tacket Fm.	No call	
"Big Lake" Sand	No call	
South Mound Zone	287-288'	706
Hepler (Wayside) Sand	No call	
"Upper" Mulberry Zone	No call	
Mulberry Zone	No call	
Weiser Sand	346'	647
Myrick Station	364-366'	629
Anna Shale (Lexington Coal Zone)	367-369'	626
Peru Sand	No call	
Summit Shale Zone	409-412'	584
Mulky Coal/Shale Zone	436-445'	557
Squirrel Sand	462'	531
Bevier Zone	484'	509
Croweburg Zone	552-558'	441
Fleming Zone	No Call	
Mineral Zone	No Call	
Cattleman Sand	No call	

Scammon Zone No call  
Tebo Zone NO call  
Bartlesville A Sand NO call  
Un Named Zone No call

Rotary Total Depth 619'

Drilling at 79' in the Kansas City on 8/28/2009 at 6:30am  
Background Gas (BG) 34.8 units

**STARK FORMATION** driller called @ 81-83', gas kick of 16 units over BG

**\*\*GAS TEST @99', too small to measure \*\***

79-88: SH: grey, black, blocky, LS: lt grey  
89-98: LS: lt grey, very little oil staining  
99-108: LS: lt grey

**HUSHPUCKNEY SHALE** Geologist called @99-102', gas kick of 0 units over BG

**\*\*no gas test**

101: SH: dk grey, black, no gas in samples  
109-118: SH: grey, dk grey, black, LS: lt grey  
119-128: LS: lt grey, SH: grey, black  
127: **BKC**  
129-138: SH: grey, gummy, sandy  
CG: 143 units  
139-148: SH: grey, gummy, silty  
149-158: SH: grey, silty  
CG: 118 units  
159-168: Siltstone: grey, gummy  
169-178: Siltstone: grey  
CG: 103 units  
179-188: SH: grey, gummy  
189-198: SH: grey, silty  
199-208: SH: grey  
CG: 12 units  
209-218: SH: grey  
219-228: SH: grey, SS: 228, med. Grained, tan  
229-238: SH: grey, SS: med grained, tan, slight odor, slightly bleeding oil  
239-248: SH: grey, Siltstone, occ. LS  
249-258: SH: grey, silty  
259-268: SH: grey, silty  
269-278: SH: grey

**SOUTH MOUND ZONE** Geologist called @287-288', gas kick of 4 units over BG

**\*\*no gas test, no kick, no gas in samples\*\***

288: SH: dk grey, black, no gas in samples  
279-288: SH: grey, black  
289-298: SH: grey  
299-308: SH: grey, sandy  
309-318: SH: grey, LS: beige  
319-328: SH: dk grey, occ. Black  
329-338: SH: grey, LS: beige, slight bleeding oil

**\*\*GAS TEST @339', 0 MCF, 0 mcf Total**

\*\*\*No limestone gas like Hamilton, Garvey and Divine

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WEISER SAND Geologist called at 346', gas kick of 19 units over bg

**\*\*GAS TEST @359', 22 MCF Total\*\***

339-348: LS: beige, slight bleeding oil, SS: grey, small to medium grained, heavy odor, bleeding oil

349-358: Siltstone: grey

CG: 550 units over bg

LEXINGTON COAL ZONE Geologist called @367-369', gas kick of 32 units over BG

**\*\*GAS TEST @379', 38 MCF, 60 MCF Total\*\***

368: SH: black, Coal, very few floaters, poor gas in samples

359-368: LS: brown, SH: grey, SH: black

369-378: SS: brown/grey, med. Grained, well cemented, Coal

379-388: SH: grey, LS: grey

389-398: LS: grey

399-408: LS: grey, SH: grey

SUMMIT SHALE ZONE Geologist called @409-412', gas kick of 0 units over BG

**\*\*GAS TEST @419', 0 MCF, 60 MCF Total \*\***

409-418: SH: grey, SH: black

\*\*\*Jeff Taylor took over the hole from 419-619, his notes are below

CG: 640 units, BG: 85 units

419-428: SH: grey, LS: grey

MULKY COAL/SHALE ZONE Geologist called @436-445', gas kick of 0 units over BG

**\*\*GAS TEST @439', 11 MCF, 71 MCF Total\*\***

CG: 960 units

429-438: SH: grey, black carb, some coal, occ. Gas bubble and a few floaters.

439-448: SH: grey, silty, better coal towards bottom

**\*\*GAS TEST @449', 12 MCF, (23 MCF total Mulky) 83 MCF Total\*\***

449-458: SH: grey, silty

CG: 640 units

SQUIRREL SAND Geologist called @462'

**\*\*GAS TEST @579', 0 MCF, open flow 83 mcf, Total 83 mcf\*\***

459-468: SH: grey, SS: 462: Brown, grey, firm, well cemented, nice oil odor, no oil in or on samples

469-478: SS: brown, grey, firm, well cemented, nice oil odor, no oil in or on samples

BEVIER ZONE - Geologist called at 484', gas kick of 0 units over bg

479-488: SH: sand, 1' black shale, 3' LS at 486

489-498: SH: grey, gummy

499-508: SH: grey, SS: 507

507-509: SS: sand oil, abundant face oil in samples, only 2' sand. Fine to med fine grained, grey, frosted, poorly sorted, firm to friable, sd porosity, no gas

509-518: SH: grey, fissel to blocky

519-528: SH: black, no gas

522-529: SH: grey, occ. Grey LS

529-538: SH: grey, occ. Brn ls, Sh: grey, occ. Grey ss

**\*\*GAS TEST @ 539', 15 MCF, 98 MCF open flow, 98 total\*\***

\*\* possible from the oil sand or 1' black shale

BG: 47 units

539-548: SS: grey

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CROWEBURG ZONE Geologist called at 552-558' no gas kick

**\*\*GAS TEST @559 ', 0 MCF, 98 MCF open flow\*\***

549-558: SH: grey, firm, 555: Sh: dk grey, occ foss, fissil

CG: 300 units

559-565: SH: black, coaly, pyrite, abundant gas on rock face

565-569: Sh: grey

569-578: Sh: grey

CG: 272 units

579-581: SH: silty, dk grey to black, no gas

581-582: Sh: grey, dk grey

582-588: LS: dk brown, tan, gard

588-589: SS: brown, v lay

589-598: SH: grey, LS: occ. Brown, SS:

599-608: SS: grey, dk grey, shaley, no gas

609-618: SS: dk grey, SH: dk grey

FLEMING ZONE No call

MINERAL ZONE NO call

CATTLEMAN SAND NO call

SCAMMON ZONE NO call

TEBO ZONE NO call

BARTELSVILLE A NO call

Total Rotary Depth, 619 on 8/28/2009

Summary:

Stark:	0 mcf
Hushpuckney:	0 mcf
South Mound:	0 mcf
Weiser:	22 mcf
Lexington:	38 mcf
Summit:	0 mcf
Mulky:	23 mcf
<u>Bevier?:</u>	<u>15 mcf?</u>
Total:	98 mcf

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