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KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1  
October 2008  
Form Must Be Typed

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

7/23/11

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.  
 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.)

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.: \_\_\_\_\_  
7/6/2009    7/7/2009    7/20/2009  
 Spud Date or    Date Reached TD    Completion Date or  
 Recompletion Date       Recompletion Date

API No. 15 - 121-28712-0000  
 Spot Description: SE/4 Sec. 21 T16S R25E  
E2 NW NE SE Sec. 21 Twp. 16 S. R. 25  East  West  
2310 Feet from  North /  South Line of Section  
920 Feet from  East /  West Line of Section  
 Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW  
 County: Miami  
 Lease Name: Markle Well #: 1-21  
 Field Name: Louisburg  
 Producing Formation: Marmaton  
 Elevation: Ground: 994 Kelly Bushing: \_\_\_\_\_  
 Total Depth: 703 Plug Back Total Depth: \_\_\_\_\_  
 Amount of Surface Pipe Set and Cemented at: 24' Feet  
 Multiple Stage Cementing Collar Used?  Yes  No  
 If yes, show depth set: \_\_\_\_\_ Feet  
 If Alternate II completion, cement circulated from: 657.51  
 feet depth to: Surface w/ 100 sx cmt.

Drilling Fluid Management Plan AM II NS 8-2709  
 (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: 7-23-09  
 Subscribed and sworn to before me this 23<sup>rd</sup> day of July  
 20 09  
 Notary Public: [Signature]  
 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

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**CONSOLIDATED**  
Oil Well Services, LLC

TICKET NUMBER 20106

LOCATION Ottawa

FOREMAN Alan Made

PO Box 884, Chenute, KS 66720  
820-431-8210 or 800-467-8678

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

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
7-20-09	6073	Marklg #1	R5E21	16	25	M.
CUSTOMER <u>Osborn Energy</u>			TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS <u>24830 Farley</u>			<u>Alan M</u>	<u>516</u>		
CITY <u>Osceola</u>			<u>495</u>	<u>Casey K</u>		
STATE <u>KS</u>			<u>510</u>	<u>Alan M</u>		
ZIP CODE <u>66043</u>						

JOB TYPE lay string HOLE SIZE 6 3/4 HOLE DEPTH 670 CASING SIZE & WEIGHT 4 1/2  
 CASING DEPTH 657 DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/ctk \_\_\_\_\_ CEMENT LEFT IN CASING YES  
 DISPLACEMENT 10 1/4 DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE 5 bpm

REMARKS: checked casing depth. Mixed + pumped 150# (sp) to flush hole followed by 5.557 dye @ Mixed + pumped 100 sq DWL cement. Circulated dye flushed pump pumped plug to casing TD, circulated cement. Checked depth. Set float.

customer's water.

Alan Made

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE		870.00
5406	-	MILEAGE		-
5402	657'	casing footage		-
5407	188	ten miles		218.00
1118B	150	(sp)		24.00
1126	1012	DWL		1600.00
4404	1	4 1/2 plug		43.00
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<u>T.C. Bobby</u>				
6.55				
SALES TAX				109.19
ESTIMATED TOTAL				2864.27

Form 8787

WO# 230489

AUTHORIZATION \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

## Geological Report

### Markle # 1-21

2310 FSL, 920 FEL

**Section:** 21-T16S-R25E

Miami Co., Kansas

**API#:** 15-121-28712-0000

**Elevation:** 994' GL

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

**Spud:** 7/6/2009

**Production Bore Hole:** 6 3/4"

**Rotary Total Depth:** 703 on 7/7/2009

**Drilling Fluid:** air

**Surface Csg.:** 8 5/8" @ 24' with 4 sx in a 12 1/4" hole

**Production Csg.:** 4 1/2" set at 657.51'

**Geologist:** Curstin Hamblin

**Driller:** Brian Schwab

<u>Formation</u>	<u>Driller Log Tops</u>	<u>Datum</u>
Stark Shale	118-120'	876
Hushpuckney Shale	150-153'	844
Base Kansas City	166'	828
Knobtown Sand	No call	
Carbonaceous Zone in Tacket Fm.	No call	
"Big Lake" Sand	No call	
South Mound Zone	331'	663
Hepler (Wayside) Sand	No call	
"Upper" Mulberry Zone	No call	
Mulberry Zone	No call	
Weiser Sand	No call	
Myrick Station	402-404'	592
Anna Shale (Lexington Coal Zone)	405-408'	589
Peru Sand	No call	
Summit Shale Zone	445-447'	549
Mulky Coal/Shale Zone	468-473'	526
Squirrel Sand	480'	514
Bevier Zone	536	458
Croweburg Zone	545'	449
Fleming Zone	No Call	
Mineral Zone	No Call	
Cattleman Sand	597'	
Scammon Zone	No call	397

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Tebo Zone	615-624'	379
Bartlesville A Sand	644'	350
Un Named Zone	No call	
Bartlesville B Sand	687'	307
Dry Wood Zone	No call	
Bartlesville C Sand	698'	296
Rotary Total Depth	703'	

Drilling at 120' in the Kansas City on 7/7/2009 at 7:00am  
Background Gas (BG) 7.2 units

**STARK FORMATION** driller called @ 118-120', gas kick of 0 units over BG  
**Stark made some water**

118-120: black shale, no gas in samples  
120-129: SH: black, LS: white, nodule, SH: grey, gummy  
130-139: LS: white/grey, cherty  
140-149: LS: white, cherty, SH: grey, dk grey

**HUSHPUCKNEY SHALE** Geologist called @150-153', gas kick of 0 units over BG  
**\*\*GAS TEST @179', 0 MCF\*\***

150: SH: black, poor gas in samples  
150-159: SH: grey, dk gry, limey, SH: lt grey, gummy, LS: lt grey  
160-169: LS: lt grey, SS: lt grey, well cemented, slight oil stain on samples,  
SH: dk grey/black

**BKC:** 166: SH: dk grey/black, limey, poor gas in samples  
170-179: SS: lt grey, small grained, gummy matrix, some oil staining, LS: lt grey, very little  
180-189: Siltstone: grey, gummy  
190-199: Siltstone: grey, gummy, oil odor  
200-209: SS: grey, silty, small grained,  
200-204: SS: grey, small grained, lots of oil on samples, in samples, in pit, heavy oil odor  
210-219: Siltstone: grey, gummy, no oil, some Pyrite  
220-229: Siltstone: grey  
230-239: SH: grey, gummy, pyrite  
240-249: Siltstone: grey  
250-259: Siltstone, limey, grey  
260-269: Siltstone: grey, limey  
270-279: SH: grey, partially gummy  
280-289: SS: small to medium grained, bleeding lots of tan oil  
284-287: SS: grey, bleeding oil, odor, heavy bleeding-gas kick of 15 units  
290-299: SH: grey, SS: grey, small grained, oil stained  
300-309: Siltstone: sandy, soft, some is gummy  
310-319: Siltstone: grey, shaley  
320-329: SH: grey, silty

**SOUTH MOUND ZONE** Geologist called @331', gas kick of 40 units over BG  
**\*\*GAS TEST @339', 0 MCF Total\*\***

331: dk grey/black- very, very good gas in samples  
330-339: SH: grey, gummy, silty, some black  
Connection gas kick of 720 units

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340-349: SH: grey, gummy, Coal: 1%  
350-359: SH: grey, gummy, LS; white  
360-369: SH: grey, LS: tan, angular, nodular  
370-379: LS: pinkish/white, SH: grey 20%, LS: tan (379) heavy oil odor, oil staining  
CG: 300 units  
380-389: SS: grey, medium grained, greasy, bleeding oil, LS: 10%, lt grey  
384-386: SS: lt grey, medium grained, greasy, bleeding heavy oil, oil in samples- gas kick of 30 units  
390-399: Siltstone: grey, gummy, Pyrite  
CG: 300 units

**LEXINGTON COAL ZONE** Geologist called @405-408', gas kick of 160 units over BG  
**\*\*GAS TEST @419', 16 MCF Total\*\***

Lexington gave up a normal amount of water

406: SH: dk grey and black-black has very, very good gas in samples  
400-409: LS: brown, nodular, SH: black, dk grey, Coal  
410-419: SS: grey, small to medium grained, some oil staining, LS: lt brown, tubular fossil-looks like a column sticking out of the LS  
420-429: SS: grey, fine grained, limey, Crinoid fossils, SH: grey  
430-439: LS: grey, SH: grey, Pyrite

**SUMMIT SHALE ZONE** Geologist called @445-447', gas kick of 30 units over BG  
**\*\*GAS TEST @459', 0 MCF 16 MCF Total \*\***

445: SH: dk grey and black, fair amount of gas in samples  
446: SH: black, fair to good gas in samples  
440-449: LS: brown and grey, SH: black  
450-459: SS: well cemented, limey  
CG: over 1000 units

**MULKY COAL/SHALE ZONE** Geologist called @468-473', gas kick of 100 units over BG  
**\*\*GAS TEST @479', 13 MCF, 29 MCF Total \*\***

Mulky gave up a normal amount of water

469: SH: dk grey, black- very, very, very good gas in samples  
473: Coal: excellent gas in samples  
460-469: SH: grey, dk grey, black  
470-479: Coal, SH: grey, sandy

**SQUIRREL SAND** Geologist called @480', no gas kick

480-489: SS: grey, medium grained, oil seeping from samples. Small amount of oil  
490-499: SS: medium to large grained, tan, no oil breakout  
500-509: SS: medium to large grained, tan, no oil  
510-519: SS: large grained, grey  
520-529: SS: white and black speckled, bleeding poor to fair amount of oil, quite a bit of breakout oil, oil on samples  
523-535: oil sand, description above. Heaviest oil was bottom 7'- the oil above shows above at 200, 284, 384 are the best.

**BEVIER ZONE** - Geologist called at 536', gas kick of 0 units over bg

530-539: SS: grey/white, bleeding oil, good breakout oil, Pyrite, SH: dk grey/black, Coal

**CROWEBURG ZONE** Geologist called at 545', gas kick of 0 units over bg

540-549: SH: grey, 1% black  
550-559: SH: grey, gummy, Coal

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CG: 711 units

560-569: SH: grey, some surfaces are red, LS: <1%, white

570-579: SH: grey, dk grey, red, SS: lt grey, medium grained

580-589: SS: grey, small grained, Coal, SH: grey

582: Coal, good gas in samples

**FLEMING ZONE** Geologist- No call

**MINERAL ZONE** Geologist- No call

**CATTLEMAN SAND** Geologist Geologist called at 597', gas kick of 0 units over bg

**\*\*GAS TEST @ 599', 0 MCF, 16 MCF open flow \*\***

590-599: SS: lt grey, medium grained, slight oil stains, SH: dk grey

600-609: SS: grey, shale like matrix, SH: 10%, grey

**SCAMMON ZONE** Geologist-No call

**TEBO ZONE** Geologist called at 615-624', gas kick of 0 units over bg

**\*\*GAS TEST @639 '0 MCF, 16 open flow \*\***

610-619: SH: grey, sandy, SH: dk grey

619: SH: dk grey, no gas in samples

620-629: SH: grey, dk grey, black, Coal

621-624: Coal: best gas in samples I have ever seen

630-639: SH: grey

**BARTELSVILLE A** Geologist called at 644', gas kick of 15 units over bg

640-649: SS: grey/white, small grained, banded

650-659: SH: grey, banded with white sand, LS: dk brown

CG: 870 units

660-669: SH: grey, SS: lt grey, small grained

670-679: SH: dk grey, LS: 10% dk brown, Pyrite, Coal: 1%

CG: 700 units

**UN NAMED ZONE** Geologist- No call

**BARTLESVILLE B** Geologist called at 687-691', gas kick of 6 units over bg

**\*\*GAS TEST @ 699', 0 MCF, 16 MCF open flow \*\***

680-689: SH: dk grey, limey, SS: white, small grained

**DRYWOOD ZONE** Geologist- No Call

**BARTELSVILLE C** Geologist called at 698', gas kick of 0 units over bg

690-699: SH: grey, SS: white, small grained

Total Rotary Depth, 703 on 7/7/2009

**\*\*GAS TEST @ 699', 0 MCF, 16 MCF open flow \*\***

Summary:

Stark:	0 MCF
Hushpuckney:	0 MCF
South Mound:	0 MCF
Lexington:	16 MCF
Summit:	0 MCF
Mulky:	12 MCF

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