

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1
September 1999
Form Must Be Typed

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

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: GLAZE DRILLING
License: 5885
Wellsite Geologist: MEREDITH PEARCE

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. _____

5/12/06	5/25/06	5/25/06
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 121-28187-0000
County: MIAMI
NW SE NW Sec. 16 Twp. 16 S. R. 25 East West
1650 feet from S / (N) (circle one) Line of Section
1650 feet from E / (W) (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE NW SW
Lease Name: MAZZA Well #: 3-16
Field Name: SPRING HILL
Producing Formation: MARMATON AND CHEROKEE
Elevation: Ground: 1070' Kelly Bushing: _____
Total Depth: 655' 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
feet depth to 20 w/ 6 sx cmt.

Drilling Fluid Management Plan A14 # NY 7-1-08
(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: Meredith S. Pearce
Title: GEOLOGIST Date: June 13, 2005
Subscribed and sworn to before me this 13th day of June
2005
Notary Public: Erin R. Stephenson
Date Commission Expires: _____

Erin R. Stephenson
Notary Public
State of Kansas
My Appointment Expires 11.24.07

KCC Office Use ONLY
 Letter of Confidentiality Received
If Denied, Yes Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
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Operator Name: OSBORN ENERGY, LLC Lease Name: MAZZA Well #: 3-16
 Sec. 16 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 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 1/2"		20	PORTLAND	6	WATER
PRODUCTION	9 1/2"	7"		432.34			
LINER	6 1/4"	4 1/2"		415.63	Consolidated	Ticket	Attached

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
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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)
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Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
		10	25		

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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Drilling Log

Mazza #3-16

1650 FNL, 1650 FWL
Section 16-T16S-R2E
Miami Co., Kansas
API#15-121-28187
Elevation: 1070' GL
Drilling Contractor: Glaze Drilling (Lic. #5885)
Spud: 05-12-06
Production Bore Hole: 6 1/4"
Total Depth: 655' on 05-25-06
Drilling Fluid: air
Production Csg: 7"
Geologist: Meredith Pearce

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<u>Formation</u>	<u>Driller Log Tops</u>	<u>Datum</u>
Stark Shale	226'	844'
Hushpuckney Shale	277'	793'
Base Kansas City	305'	765'
Knobtown Sand	326'	744'
Carbonaceous Zone in Tacket Fm.	No call	
"Big Lake" Sand	410'	660'
South Mound Zone	455'	615'
Hepler (Wayside) Sand	No call	
"Upper" Mulberry Zone	No call	
Mulberry Zone	No call	
Weiser Sand	No call	
Myrick Station	533'	537'
Anna Shale (Lexington Coal Zone)	537'	533'
Peru Sand	No call	
Summit Shale Zone	576'	494'
Mulky Coal/Shale Zone	603'	467'
Squirrel Sand	636'	434'
Total Depth	655'	

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Geological Report

Mazza #3-16

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Drilling at 166' in the Kansas City on 05-15-06
Background Gas (BG) 6 units, no prior gas kicks

166-176 LS: tan, calcite - SH: gy
176-186 SH: gy - LS: tan, brn, calcite
186-196 LS: gy, calcite, fossils - SH: gy, silty
196-206 LS: tan - SH: gy

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STARK FORMATION called @226', gas kick to 10 units, 3 over BG

****GAS TEST @241', No Open Flow****

Samples misaligned ten feet, corrected at 236'
206-216 SH: gy, dark gy, blk - LS: tan, white
216-226 LS: tan, calcite - SH: gy, TR SS: wt, occ oil on samples
236-246 LS: tan, calcite
246-256 LS: tan, calcite
256-266 SH: gy - LS: tan
266-276 SH: gy, dark gy - LS: tan
Stopped drilling @274' at 4pm and pulled pipe, not enough lift

Resumed drilling on 05-17-06, hit water @216'

HUSHPUCKNEY SHALE called @277', kick to 15 units, 2 over BG

****GAS TEST @291', No Open Flow****

276-286 SH: dark gy, blk, gy, sandy in places - LS: gy, brn, tan
286-296 LS: tan, brn, calcite - SH: gy, TR blk
296-306 LS: tan, brn, calcite - SH: Lt gy
306-316 SH: gy, Lt gy, silty
316-326 SH: gy, sandy, TR bk, lmy in places, TR pyrite, TR SS: clr

KNOBTOWN SAND called @326', gas kick to 6 units, 1 over BG

****GAS TEST @366', No Open Flow****

326-336 SS: clr, gy, tan, shaly, angular, poor sort, TR pyrite, TR coal,
occ oil on samples - SH: gy, sandy

Shut down @336' for fuel, water, and a new pump at 12pm, resumed at 5pm

336-346 SH: gy sandy, occ oil on samples
346-356 SH: gy, silty
356-366 SH: gy
366-376 SH: gy, sandy in places
376-386 SH: gy, silty
386-396 SH: gy
396-406 SH: gy, sandy in places

"BIG LAKE" SAND called @410', gas kick to 60 units, 53 over BG

****GAS TEST @416', Too Small to Measure****

406-416 SH: gy, sandy, lmy - SS: clr, brn, lmy
416-426 SH: gy, sandy - LS: brn, sandy
426-436 SH: gy, silty
Drilling stopped @441' at 7:30pm

Resumed drilling on 05-18-06 at 9am

436-446 SH: gy

SOUTH MOUND ZONE called @455', gas kick to 131 units, 80 over BG

****GAS TEST @461', Too Small to Measure****

446-456 SH: gy, blk w/ free gas, dark gy

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456-461 SH: dark gy, blk w/slight free ga, gy, sandy in places
Stopped drilling @461' to run casing

Resumed drilling @461' on 05-24-06

461-469 SH: gy, sandy in places

CG @469 72 units, 41 BG

469-479 SH: Lt gy, gy, sandy, TR blk, coaly w/free gas

479-489 SH: Lt gy, gy, silty, TR blk, coaly w/free gas - LS: tan, calcite

****GAS TEST @494', No Open Flow****

CG @494 106 units, 45 BG

489-499 LS: tan, brn, calcite - SH: gy, dk gy

499-509 LS: tan, brn, calcite, TR SH: gy, sandy

509-519 LS: tan, brn, calcite -- SH: gy, sandy, TR pyrite

CG @519 92 units, 55 BG

519-529 SH: gy, silty, sandy in places

LEXINGTON COAL ZONE called @537', kick to 272 units, 250 over BG

****GAS TEST @544', 22 MCF****

529-539 SH: dk gy, gy, blk, slight free gas, TR pyrite - LS: brn

CG @544 859 units, 243 BG

539-549 SH: gy, sandy, TR blk, TR pyrite - LS: tan, calcite

549-559 SH: gy, Lt gy - LS: tan, calcite

559-569 LS: tan, calcite - SH: gy

CG @569 946 units, 178 BG

SUMMIT SHALE ZONE called @576', kick to 1405 units, 459 over BG

****GAS TEST @594', No Increase****

569-579 SH: gy, sandy in places, dk gy, blk, pyritic - LS: tan, calcite

579-589 SH: gy, sandy

CG @594 1380 units, 168 BG

589-599 SH: gy, sandy in places, TR dk gy

MULKY COAL/SHALE ZONE called @603', kick to 1392 units, 648 over BG

****GAS TEST @619', No Increase****

599-609 SH: blk, coaly w/slight free gas, dk gy, gy

609-619 SH: gy, sandy in places, blk, coaly, pyritic - LS: tan

Stopped drilling @619'

Resumed drilling @619' at 8:30am on 05-25-06

****GAS TEST @619', Too Small to Measure****

CG @619 391 units, 34 BG

619-629 SH: gy, sandy, pyritic, TR LS: tan

SQUIRREL SAND called @636', no kick with this

629-639 SH: gy, sandy, pyritic - SS: clr, gy, shaley

CG @644 832 units, 168 BG

639-649 SS: clr, gy, shaley, pyritic, TR coal - SH: gy

649-655 SS: clr, gy, shaley, pyritic, TR coal - SH: gy

Total Depth 655' at 10am on 05-25-06

****GAS TEST @655', No Increase****

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Brief Summary

Stark	No open flow
Hushpuckney	No open flow
Knobtown	No open flow
"Big Lake"	Too small to measure
South Mound	Too small to measure
Mulberry	No open flow
Lexington	22 MCF
Summit	No increase
Mulky	No increase
<u>Squirrel Sand</u>	<u>No increase</u>
Total	22 MCF

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