



STATE OF MISSOURI  
MISSOURI DEPARTMENT OF NATURAL RESOURCES  
GEOLOGICAL SURVEY PROGRAM

FORM OGC-3

**APPLICATION FOR PERMIT TO DRILL, DEEPEN OR PLUG BACK**

<input checked="" type="checkbox"/> APPLICATION TO DRILL		<input type="checkbox"/> DEEPEN	<input type="checkbox"/> PLUG BACK	<input checked="" type="checkbox"/> FOR AN OIL WELL	<input type="checkbox"/> OR GAS WELL		
NAME OF COMPANY OR OPERATOR <b>Osborn Energy, LLC</b>				DATE <b>10/20/2006</b>			
ADDRESS <b>24850 Farley</b>		CITY <b>Bucyrus</b>		STATE <b>KS</b>	ZIP CODE <b>66013</b>		
<b>DESCRIPTION OF WELL AND LEASE</b>							
NAME OF LEASE <b>Osborn</b>		WELL NUMBER <b>47-17</b>		ELEVATION (GROUND) <b>990'</b>			
WELL LOCATION (GIVE FOOTAGE FROM SECTION LINES) <b>2145 ft. from <input checked="" type="checkbox"/> North <input type="checkbox"/> South section line 330 ft. from <input checked="" type="checkbox"/> East <input type="checkbox"/> West section line</b>							
WELL LOCATION <b>Sec. 17 Township 43 North Range 33 <input type="checkbox"/> East <input checked="" type="checkbox"/> West</b>		LATITUDE		LONGITUDE			
				COUNTY <b>Cass</b>			
NEAREST DISTANCE FROM PROPOSED LOCATION TO PROPERTY OR LEASE LINE <b>495 FEET</b>							
DISTANCE FROM PROPOSED LOCATION TO NEAREST DRILLING, COMPLETED OR APPLIED - FOR WELL ON THE SAME LEASE <b>330 FEET</b>							
PROPOSED DEPTH <b>600'</b>	DRILLING CONTRACTOR, NAME AND ADDRESS <b>Obborn Energy, LLC</b>			ROTARY OR CABLE TOOLS <b>air</b>	APPROX. DATE WORK WILL START <b>11/06/2006</b>		
NUMBER OF ACRES IN LEASE <b>4000</b>	NUMBER OF WELLS ON LEASE INCLUDING THIS WELL, COMPLETED IN OR DRILLING TO THIS RESERVOIR <b>8</b>						
					NUMBER OF ABANDONED WELLS ON LEASE <b>None</b>		
IF LEASE PURCHASED WITH ONE OR MORE WELLS DRILLED, FROM WHOM PURCHASED? NAME _____ ADDRESS _____				NO. OF WELLS	PRODUCING _____ INJECTION _____ INACTIVE _____ ABANDONED _____		
STATUS OF BOND		<input type="checkbox"/> SINGLE WELL AMOUNT \$ _____	<input checked="" type="checkbox"/> BLANKET BOND AMOUNT \$ <b>34000.00</b>	<input checked="" type="checkbox"/> ON FILE	<input type="checkbox"/> ATTACHED		
REMARKS: (IF THIS IS AN APPLICATION TO DEEPEN OR PLUG BACK, BRIEFLY DESCRIBE WORK TO BE DONE, GIVING PRESENT PRODUCING/INJECTION ZONE AND EXPECTED NEW INJECTION ZONE. USE BACK OF FORM IF NEEDED)							
<b>PROPOSED CASING PROGRAM</b>				<b>APPROVED CASING - TO BE FILLED IN BY STATE GEOLOGIST</b>			
AMOUNT	SIZE	WT/FT	CEMENT	AMOUNT	SIZE	WT/FT	CEMENT
20'	7"		to surface	20'	7"		Portland to Surface
600'	2 7/8"		to surface	600'	2 7/8"		" "
I, the Undersigned, state that I am the Agent of the OELLC (Company), and that I am authorized by said company to make this report, and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct, and complete to the best of my knowledge.							
SIGNATURE <i>Matthew S. Pean</i>				DATE <b>Oct 25, 2006</b>			
PERMIT NUMBER <b>20773</b>		<input checked="" type="checkbox"/> DRILLER'S LOG REQUIRED		<input checked="" type="checkbox"/> E-LOGS REQUIRED IF RUN			
APPROVED DATE <b>11-1-06</b>		<input checked="" type="checkbox"/> CORE ANALYSIS REQUIRED IF RUN		<input checked="" type="checkbox"/> DRILL SYSTEM TEST INFO REQUIRED IF RUN			
APPROVED BY <i>Matthew S. Pean</i>		<input type="checkbox"/> SAMPLES REQUIRED		<input checked="" type="checkbox"/> SAMPLES NOT REQUIRED			
		<input type="checkbox"/> WATER SAMPLES REQUIRED AT					
<b>NOTE</b> ▶ THIS PERMIT NOT TRANSFERABLE TO ANY OTHER PERSON OR TO ANY OTHER LOCATION.							
APPROVAL OF THIS PERMIT BY THE OIL AND GAS COUNCIL DOES NOT CONSTITUTE ENDORSEMENT OF THE GEOLOGIC MERITS OF THE PROPOSED WELL NOR ENDORSEMENT OF THE QUALIFICATIONS OF THE PERMITTEE							
I, Agent of the OELLC (Company), confirm that an approved drilling permit has been obtained by the owner of this well. Council approval of this permit will be shown on this form by presence of a permit number and signature of authorized council representative.							
DRILLER'S SIGNATURE <i>Matthew S. Pean</i>				DATE <b>Oct 25, 2006</b>			





STATE OF MISSOURI  
MISSOURI DEPARTMENT OF NATURAL RESOURCES  
GEOLOGICAL SURVEY PROGRAM

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FORM OGC-5

FEB 13 2009

**WELL COMPLETION OR RECOMPLETION REPORT AND WELL LOG**

NEW WELL  WORKOVER  DEEPEN  PLUG BACK  INJECTION  SAME RESERVOIR  DIFFERENT RESERVOIR  OIL  GAS  DRY

Mo Oil & Gas Council

OWNER <b>Osborn Energy, LLC</b>		ADDRESS <b>24850 Farley, Bucyrus, KS 66013</b>	
LEASE NAME <b>Osborn</b>		WELL NUMBER <b>47-17</b>	
LOCATION OF WELL <b>Sec. 17 Twp 43 North, Rng 33</b>	SEC TWN RNG <input type="checkbox"/> East <input checked="" type="checkbox"/> West	OR <b>2145 ft. from</b>	BLOCK AND SURVEY <input checked="" type="checkbox"/> North <input type="checkbox"/> South <b>330 ft. from</b> <input checked="" type="checkbox"/> East <input type="checkbox"/> West
COUNTY <b>Cass</b>	PERMIT NUMBER (OGC-3 OR OGC-31) <b>20773</b>		
DATE SPUDDED <b>11/24/2006</b>	DATE TOTAL DEPTH REACHED <b>11/27/2006</b>	DATE COMPLETED READY TO PRODUCE OR INJECT <b>12/28/2006</b>	ELEVATION (DF, RKR, RT, OR Gr.) FEET <b>990</b>
TOTAL DEPTH <b>518</b>		ELEVATION OF CASING HD. FLANGE <b>FEET</b>	
PRODUCING OR INJECTION INTERVAL(S) FOR THIS COMPLETION <b>457-467</b>		ROTARY TOOLS USED (INTERVAL) <b>0 TO 518</b>	CABLE TOOLS USED (INTERVAL)
WAS THIS WELL DIRECTIONALLY DRILLED? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		DRILLING FLUID USED <b>air</b>	DATE FILED
WAS DIRECTIONAL SURVEY MADE? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		WAS COPY OF DIRECTIONAL SURVEY FILED? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	DATE FILED
TYPE OF ELECTRICAL OR OTHER LOGS RUN (JUST LOGS FILED WITH THE STATE GEOLOGIST) <b>Gamma Ray Neutron</b>			DATE FILED

**CASING RECORD**

CASING (REPORT ALL STRINGS SET IN WELL – CONDUCTOR, SURFACE, INTERMEDIATE, PRODUCING, ETC.)

PURPOSE	SIZE HOLE DRILLED	SIZE CASING SET	WEIGHT (LB. FT)	DEPTH SET	SACKS CEMENT	AMOUNT PULLED
Surface	9 1/2"	7"	17	20'	6	
Production	6 1/4"	2 1/2"	6 1/2"	501	93	

**TUBING RECORD**

**LINER RECORD**

SIZE	DEPTH SET	PACKER SET AT	SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN
INCH	FEET	FEET	INCH	FEET	FEET		FEET

**PERFORATION RECORD**

**ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD**

NUMBER PER FEET	SIZE AND TYPE	DEPTH INTERVAL	AMOUNT AND KIND OF MATERIAL USED	DEPTH INTERVAL
2	2" DML RTG	457-467	50gal 15% HCL/ 4800#	457-467

**INITIAL PRODUCTION**

DATE OF FIRST PRODUCTION OR INJECTION <b>12/28/2006</b>		PRODUCING METHOD (INDICATE IF FLOWING, GAS LIFT, OR PUMPING – IF PUMPING, SHOW SIZE AND TYPE OF PUMP.) <b>Pumping 1 1/2" insert bbl</b>					
DATE OF TEST	HOURS TESTED	CHOKE SIZE	OIL PRODUCED DURING TEST	GAS PRODUCED DURING TEST	WATER PRODUCED DURING TEST	OIL GRAVITY	
	<b>24</b>		<b>2 BBLS</b>	<b>MCF</b>	<b>2 BBLS</b>	<b>API (CORR.)</b>	
TUBING PRESSURE	CASING PRESSURE	CALCULATED RATE OF PRODUCTION PER 24 HOURS		OIL	GAS	WATER	
				<b>2 BBLS</b>	<b>0MCF</b>	<b>2 BBLS</b>	

DISPOSITION OF GAS (STATE WHETHER VENTED, USED FOR FUEL OR SOLD)

METHOD OF DISPOSAL OF MUD PIT CONTENTS

Let water evaporate, then fill pit with a backhoe

**CERTIFICATE:** I, the Undersigned, state that I am the Agent of the OELLC (Company), and that I am authorized by said company to make this report, and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

DATE <b>2-9-2009</b>	SIGNATURE <i>Cristi Hauken</i>
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## Geological Report

### Osborn 47-17

Section 17-T43N-R33W  
Cass Co., Missouri  
Permit #20773  
Elevation: 994' GL  
Drilling Contractor: Osborn Energy, LLC  
Spud 11-24-06  
Total Rotary Depth: 518' on 11-27-06

<u>Formation</u>	<u>Driller Log Tops</u>	<u>Datum</u>
Anna Shale (Lexington)	386'	608'
Summit Shale	No call	
Mulky Coal/Shale	450'	544'
Squirrel Sand	455'	539'
Total Depth	518'	

455-458 SS: clear, grey, shaly, fine grained, angular to sub-rounded, moderately sorted, well cemented, no show

458-465 SS: clear, frosted, brown oil stain, fine grained, angular to sub-rounded, moderately sorted, poorly cemented, good porosity, strong odor, free oil

465-470 SH: grey, sandy – SS: shaly, no show

Total Depth 518' on 11-27-06

#### Brief Summary

Lexington	Small open flow
Squirrel Sand	7' of Pay, good bleed

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CONSOLIDATED OIL WELL SERVICES, INC.  
P.O. BOX 884, CHANUTE, KS 66720  
320-431-9210 OR 800-467-8676

FEB 13 2009

TICKET NUMBER 09036  
LOCATION Ottawa  
FOREMAN Alan Mader

## TREATMENT REPORT & FIELD TICKET CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
11-28-06	6073	Osborn #47				Cass MO

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

TRUCK #	DRIVER	TRUCK #	DRIVER
389	Alanad		
368	Matmas		
122	Bobbas		

JOB TYPE long string HOLE SIZE 6 1/4 HOLE DEPTH 518 CASING SIZE & WEIGHT 2 1/2  
 CASING DEPTH 501 DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING \_\_\_\_\_  
 DISPLACEMENT \_\_\_\_\_ DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Established rate. Mixed & pumped 200 # gel followed by 10 bbl clean water. Mixed & pumped 93 SX 50/150 ppz, 20% gel. Circulated cement to surface. Flushed pump clean. Pumped 2 1/2 plug to casing TP. Well held 800 PST. Closed valve.

Customer supplied water  
Alan Mader

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	368	800.00
5406	0	MILEAGE	368	0
5402	501'	casing footage	368	NIL
5407A		ton miles	122	207.51
1118B	386 #	gel		54.04
1124	91 SX	50/150 ppz		805.33
4402	1	2 1/2 plug		20.00
		Sub		1896.90
		6.8%	SALES TAX	59.79
			ESTIMATED TOTAL	1946.69

AUTHORIZATION \_\_\_\_\_ TITLE W# 210850 DATE Alan Mader

CEMENTING WORK ORDER

CONSOLIDATED OIL WELL SERVICES, INC.  
Phone (620) 431-9210 Chanute, Kansas 66720

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Mo Oil & Gas Council

DAY \_\_\_\_\_ TUE  
DATE \_\_\_\_\_ 11/28/2006  
Month / Day / Time

NAME OF CUSTOMER: \_\_\_\_\_ Osborn  
\_\_\_\_\_  
\_\_\_\_\_

LEASE # Osborn WELL # 47

JOB DESCRIPTION: \_\_\_\_\_ longstring  
\_\_\_\_\_  
\_\_\_\_\_

PIPE SIZE \_\_\_\_\_ 2 1/2 \_\_\_\_\_ SIZE OF HOLE: \_\_\_\_\_ 6 1/4

DEPTH OF WELL: \_\_\_\_\_ 518

TYPE OF RIG: AIR MUD

AMOUNT OF CEMENT NEEDED \_\_\_\_\_ 93 sks 50/50 Poz

% OF GEL NEEDED: \_\_\_\_\_ 2%

MATERIALS: \_\_\_\_\_ 91 sks poz, 386# gel

TRUCKS: VAC TRANSPORT

LOCATION OF JOB: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ 389-AM, 368-MM, 122-RB  
\_\_\_\_\_

ORDER TAKEN BY: \_\_\_\_\_ Jim Green