STATE OF MISSOURI
MISSOURI DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY PROGRAM

FORM OGC-3I

INJECTION WELL PERMIT APPLICATION
(TO DRILL, DEEPEN, PLUG BACK, OR CONVERT AN EXISTING WELL)

NOTE ▶ Permit approval **for drilling only, not injection**. Approval or denial for injection determined after Mechanical Integrity Test results reviewed and official notification given.

☒ APPLICATION TO DRILL ☐ DEEPEN ☐ PLUG BACK ☐ FOR AN OIL WELL ☐ OR GAS WELL

NAME OF COMPANY OR OPERATOR			DATE
OSBORN ENERGY, LLC			11/15/2006
ADDRESS	CITY	STATE	ZIP CODE
24850 FARLEY	BUCYRUS	KS	66013

DESCRIPTION OF WELL AND LEASE

NAME OF LEASE	WELL NUMBER	ELEVATION (GROUND
OSBORN	I39-16	990'

WELL LOCATION (GIVE FOOTAGE FROM SECTION LINES)

2310 ft. from ☒ North ☐ South section line 520 ft. from ☒ East ☐ West section line

WELL LOCATION	LATITUDE	LONGITUDE	COUNTY
Sec. 16 Township 43 North Range 33 ☐ East ☒ West	_____	_____	CASS

NEAREST DISTANCE FROM PROPOSED LOCATION TO PROPERTY OR LEASE LINE 330 FEET

DISTANCE FROM PROPOSED LOCATION TO NEAREST DRILLING, COMPLETED OR APPLIED – FOR WELL ON THE SAME LEASE 233 FEET

PROPOSED DEPTH	ROTARY OR CABLE TOOLS	DRILLING CONTRACTOR, NAME AND ADDRESS	APPROX. DATE WORK WILL START
600'	ROTARY	OSBORN ENERGY, LLC	12/1/2006

NUMBER OF ACRES IN LEASE: 4000

NUMBER OF WELLS ON LEASE INCLUDING THIS WELL, COMPLETED IN OR DRILLING TO THIS RESERVOIR 23

NUMBER OF ABANDONED WELLS ON LEASE 11

IF LEASE PURCHASED WITH ONE OR MORE WELLS DRILLED, FROM WHOM PURCHASED?

NAME DEAN SHIDELER

ADDRESS _____

NO. OF WELLS: PRODUCING 3; INJECTION 0; INACTIVE 9; ABANDONED 11

STATUS OF BOND	☐ SINGLE WELL AMOUNT $ _____	☒ BLANKET BOND AMOUNT $ 34000.00	☒ ON FILE ☐ 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)

PROPOSED CASING PROGRAM				APPROVED CASING – TO BE FILLED IN BY STATE GEOLOGIST			
AMOUNT	SIZE	WT/FT	CEM.	AMOUNT	SIZE	WT/FT	CEM.
20'	7"	17#	PORTLAND	20'	7"	17#	Portland To Surface
600'	2 7/8"	6 1/2#	PORTLAND	600'	2 7/8"	6 1/2#	Portland To Surface

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 [signature] DATE Jan 3, 2007

PERMIT NUMBER 20781

APPROVED DATE 1-3-07

APPROVED BY [signature]

☒ DRILLER'S LOG REQUIRED
☒ CORE ANALYSIS REQUIRED IF RUN
☐ SAMPLES REQUIRED
☒ SAMPLES NOT REQUIRED
☐ WATER SAMPLES REQUIRED AT _____

☒ E-LOGS REQUIRED IF RUN
☒ DRILL SYSTEM TEST INFO REQUIRED IF RUN

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AFFIDAVIT OF PUBLICATION

(Space above for re

STATE OF MISSOURI
COUNTY OF CASS ss.

I, Sandy M. Nelson, being duly sworn according to law, state that I am the Publisher of the Cass County Democrat-Missourian, a weekly newspaper of general circulation in the County of Cass, State of Missouri, where located; which newspaper has been admitted to the Post Office as periodical class matter in the City of Harrisonville, Missouri, the city of publication; which newspaper has been published regularly and consecutively for a period of three years and has a list of bonafide subscribers, voluntarily engaged as such who have paid or agreed to pay a stated price for a subscription for a definite period of time, and that such newspaper has complied with the provisions of Section 493.050, Revised Statutes of Missouri 2000, and Section 59.310, Revised Statutes of Missouri 2000. The affixed notice appeared in said newspaper in the following consecutive issues:

1st Insertion: Vol. 127 No. 11, 5 day of Jan. 2007.

2nd Insertion: Vol. _____ No. _____, _____ day of _____ 20____.

3rd Insertion: Vol. _____ No. _____, _____ day of _____ 20____.

4th Insertion: Vol. _____ No. _____, _____ day of _____ 20____.

5th Insertion: Vol. _____ No. _____, _____ day of _____ 20____.

Sandy M. Nelson, Publisher

Subscribed and sworn to before me on this 5 day of Jan., 2007.

Dora E. Nation

DORA E. NATION
Notary Public-Notary Seal
State of Missouri, Cass County
Commission # 05460477
My Commission Expires May 5, 2009

PUBLIC NOTICE:

Osborn Energy, LLC (24850 Farley, Bucyrus, KS 66013) has applied for a salt water disposal/injection wells to be drilled to an approximate depth of 543 feet, at the following locations in Township 43N and Range 33W in Cass County, Missouri:

2310 feet from North line and 140 feet from West line of Section 16,

2310 feet from North line and 190 feet from East line of Section 17,

2310 feet from North line and 520 feet from East line of Section 17,

Written comments or requests for additional information regarding such wells should be directed, within fifteen (15) days of this notice, to: State Geologist, Missouri Oil & Gas Council, P.O. Box 250, Rolla, MO 65402.

11-1tc

NOTE ▶	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

MO 780-0212 (6-06) REMIT TWO (2) COPIES TO: GEOLOGICAL SURVEY PROGRAM, PO BOX 250, ROLLA, MO 65402 573/ 368-2143.
ONE (1) COPY WILL BE RETURNED.

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	DATE
Merritt A. P	Jan 3 2007

PROPOSED OPERATIONS DATA

PROPOSED AVERAGE DAILY INJECTION,	PRESSURE 400 PSIG, RATE 25 BPD/GPM, VOLUME 300 BBL/GAL
APPROVED AVERAGE DAILY INJECTION, (TO BE FILLED IN BY STATE GEOLOGIST)	PRESSURE 400 PSIG, RATE 25 BPD/GPM, VOLUME 300 BBL/GAL
PROPOSED MAXIMUM DAILY INJECTION,	PRESSURE 600 PSIG, RATE 50 BPD/GPM, VOLUME 1000 BBL/GAL
APPROVED MAXIMUM DAILY INJECTION, (TO BE FILLED IN BY STATE GEOLOGIST)	PRESSURE 600 PSIG, RATE 50 BPD/GPM, VOLUME 1000 BBL/GAL

ESTIMATED FRACTURE PRESSURE GRADIENT OF INJECTION ZONE 850 PSI/FOOT

DESCRIBE THE SOURCE OF THE INJECTION FLUID PRODUCED WATER

NOTE ▶	SUBMIT AN APPROPRIATE ANALYSIS OF THE INJECTION FLUID. (SUBMIT ON SEPARATE SHEET)

DESCRIBE THE COMPATIBILITY OF THE PROPOSED INJECTION FLUID WITH THAT OF THE RECEIVING FORMATIONS, INCLUDIUNG TOTAL DISSOLVED SOLIDS COMPARISONS

Same

GIVE AN ACCURATE DESCRIPTION OF THE INJECTION ZONE INCLUDING LITHOLOGIC DESCRIPTIONS, GEOLOGIC NAME, THICKNESS, DEPTH, POROSITY, AND PERMEABILITY.

See driller's log and gamma ray

GIVE AN ACCURATE DESCRIPTION OF THE CONFINING ZONES INCLUDING LITHOLOGIC DESCRIPTION, GEOLOGIC NAME, THICKNESS, DEPTH, POROSITY, AND PERMEABILITY.

See driller's log and gamma ray

SUBMIT ALL AVAILABLE LOGGING AND TESTING DATA ON THE WELL

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STATE OF MISSOURI
MISSOURI DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY PROGRAM

FORM OGC-41

INJECTION WELL LOCATION PLAT

OWNER'S NAME
OSBORN ENERGY, LLC

LEASE NAME
OSBORN # I 39-16

COUNTY
CASS

WELL LOCATION (GIVE FOOTAGE FROM SECTION LINES)

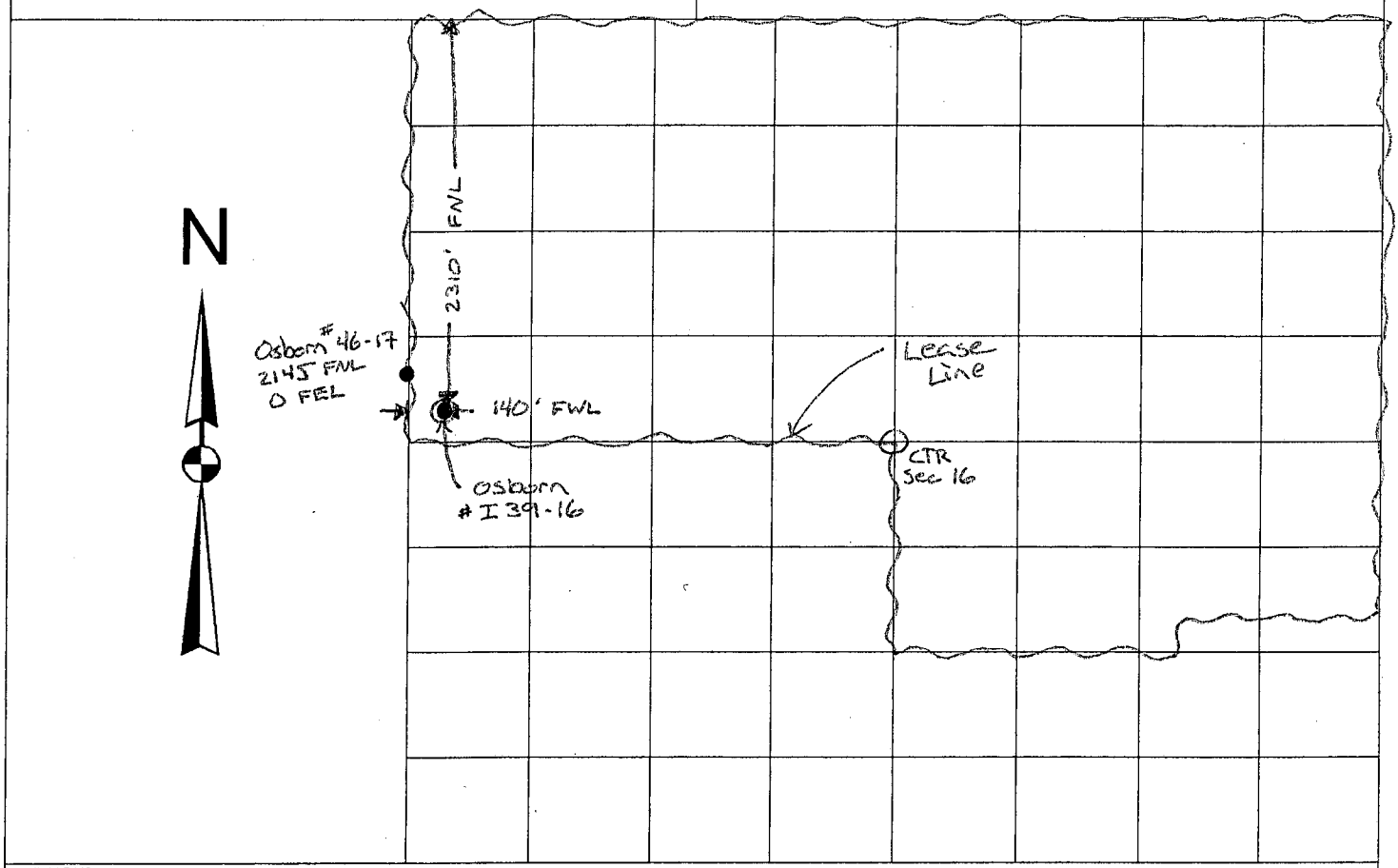
2310 ft. from ☒ North ☐ South section line 140 ft. from ☐ East ☒ West section line

WELL LOCATION

Sec. 16 Township 43 North Range 33 ☐ East ☒ West

LATITUDE

LONGITUDE



REMARKS

INSTRUCTIONS

On the above plat, show distance of the proposed well from the two nearest section lines, the nearest lease line, and from the nearest well on the same lease completed in or drilling to the same reservoir. Do not confuse survey lines with lease lines. See rule 10 CSR 50-2.030 for survey requirements. Lease lines must be marked.

This is to certify that I have executed a survey to accurately locate oil and gas wells in accordance with 10 CSR 50-2.030 and that the results are correctly shown on the above plat.

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REGISTERED LAND SURVEY NUMBER

MO 780-1136 (09-01) REMIT TWO (2) COPIES TO: MISSOURI OIL AND GAS COUNCIL, PO BOX 250, ROLLA, MO 65402 573/ 368-2165.

Driller Log

Lease Name: OSBORN Well#: I 39-16 Spud: 12-14-06

Thickness	Formation	Depth	Comments
20	Surface	20	
3	Shale	23	
10	Lime	33	
7	Shale	40	
33	Lime	73	
4	Shale	77	
4	Blk slate	81	
1	Shale	82	
21	Lime	103	
5	Shale	108	
2	Lime	110	
3	Shale	113	
6	Lime	119	
4	Shale	123	
3	lime	126	
136	Shale	262	
2	Blk slate	264	
181	Shale	445	
1	Blk slate	446	
4	Shale	450	
10	SS	460	Oil show
1	Lime	461	
62	Shale	523	
10	Lime	533	
10	Shale	543	TD 543' on 12-15-06

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CASING MECHANICAL INTEGRITY TEST

Disposal: [ ] New Well

Enhanced Recovery:
Repressuring: [X]
Flood: [ ]
Tertiary: [ ]

Date injection started:

PERMIT# 20781

NW/4 Sec **16** T **43N** R **33** W
2310 Feet from North Section Line
140 Feet from West Section Line

Lease **Osborn** **Well I-39-16**
County Cass

Operator Name & Address
Osborn Energy, LLC
24850 Farley
Bucyrus, Kansas 66013

Operator License # 32294
Contact Person Meredith Pearce
Phone # 913-533-9900

Max. Auth. Injection Press. 400 psi.; Max. Inj. Rate 25 bbl/d;
If Dual Completion - Injection above production: ____ Injection below production: ____

	Conductor	*Surface*	*Production*	*Liner*	
Size		7"	2 7/8"		Size:
Set at		20'	502'		Set at:
Cement Top		0	0		Type:
" Bottom		20'	502'		

DV/Perf. ____ TD (& plug back): ____ *ft.* depth
Packer Type ____ Size ____ Set At: ____ *ft.*
Zone of Injection ____ *ft.* to ____ *ft.* Perforate or Open Hole ____

FIELD DATA

Type MIT: Pressure: [X] Radioactive Tracer Survey: [ ] Temperature Survey: [ ]

Time: Start
10:30 10 min. 20 min. 30 min.

Pressures:

11:15	810#	800#	800#	Set up 1	System Pres. During Test: ____
				Set up 2	Annular Pres. During Test: ____
				Set up 3	Fluid Loss During Test: ____ bbls.

Tested: Casing: [X] Casing Tubing Annulus: [ ]

The bottom of the tested zone is shut in with pressure test

Test Date: 1-5-07 Using Midwest Surveys, Inc. Company Equipment

The Operator hereby certifies that the zone between 0 *ft.* and 502 *ft.* was the zone tested

Gary Windisch
Signature

Contractor
Title

The results were Satisfactory X ***Marginal*** ____ ***Not Satisfactory*** ____

State Agent Jeff Joquen **Title** Geologist **Witness: Yes** X **No** ____

Remarks: pressure up to 810#, well not perforated yet.

[ ] Origin. Conservation Div.: [ ] District Office
[ ] Computer Update

AREA OF REVIEW WELLS (1/2 MILE RADIUS AROUND WELL) THAT PENETRATE THE INJECTION INTERVAL

INSTRUCTIONS

In the grid below, place the descriptions of area of review wells (½ mile radius around well) of public record that penetrate the proposed injection zone. Complete the following: lease name, well number, location, owner, depth in feet, type of well (Oil = O, Gas = G, Water = W, Injection = I, Strat Test = S, Unknown = U, Other - specify), date spudded, date completed, and construction of the well. Give a brief but accurate description of the well's construction including all plugging and/or completion of information, detailing the cement, casing, and subsurface casing information.

LEASE	WELL NO.	LOCATION	OWNER	DEPTH	TYPE	DATE SPUDDED	DATE COMPLETED	CONSTRUCTION	Status
Shideler Farm	29-A	1835 FROM (N)(S) SEC. LINE 1237 FROM (E)(W) SEC. LINE SEC. 16 T. 43 N.R. 33	Dean Shideler	475	I	5/13/1996	5/23/1996	2 7/8" @ 411'	PA
" "	25-A	2365 FROM (N)(S) SEC. LINE 636 FROM (E)(W) SEC. LINE SEC. 16 T. 43 N.R. 33	" "	490	I	9/25/1995	10/5/1995	2 7/8" @ 474'	PA
Shideler Farm	7-A	125 FROM (N)(S) SEC. LINE 1155 FROM (E)(W) SEC. LINE SEC. 17 T. 43 N.R. 33	" "	524	II	Apr '91	Dry, Not Completed	None	PA
" "	12-A	2610 FROM (N)(S) SEC. LINE 1800 FROM (E)(W) SEC. LINE SEC. 17 T. 43 N.R. 33	" "	495	Z	8/17/1992	9/4/1992	2 7/8" @ 363'	PA
" "	13-A	2400 FROM (N)(S) SEC. LINE 375 FROM (E)(W) SEC. LINE SEC. 17 T. 43 N.R. 33	" "	476	Z	8/21/1992	9/4/1992	2 7/8" @ 469'	PA
" "	14-A	2570 FROM (N)(S) SEC. LINE 450 FROM (E)(W) SEC. LINE SEC. 17 T. 43 N.R. 33	" "	491	I	June 1993	Dry, Not Completed	2 7/8" @ 342'	PA
" "	15-A	2470 FROM (N)(S) SEC. LINE 48 FROM (E)(W) SEC. LINE SEC. 17 T. 43 N.R. 33	" "	496	I	9/4/1993	9/11/1993	2 7/8" @ 474'	PA
" "	16-A	2180 FROM (N)(S) SEC. LINE 200 FROM (E)(W) SEC. LINE SEC. 17 T. 43 N.R. 43	" "	496	I	9/11/1993	9/20/1993	2 7/8" @ 473'	PA
" "	17-A	2100 FROM (N)(S) SEC. LINE 525 FROM (E)(W) SEC. LINE SEC. 17 T. 43 N.R. 33	" "	494	I	6/3/1994	6/29/1994	2 7/8" @ 483'	PA

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MO 780-1136 (9-01)

AREA OF REVIEW WELLS (1/2 MILE RADIUS AROUND WELL) THAT PENETRATE THE INJECTION INTERVAL

INSTRUCTIONS

In the grid below, place the descriptions of area of review wells (½ mile radius around well) of public record that penetrate the proposed injection zone. Complete the following: lease name, well number, location, owner, depth in feet, type of well (Oil = O, Gas = G, Water = W, Injection = I, Strat Test = S, Unknown = U, Other - specify), date spudded, date completed, and construction of the well. Give a brief but accurate description of the well's construction including all plugging and/or completion of information, detailing the cement, casing, and subsurface casing information.

LEASE	WELL NO.	LOCATION	OWNER	DEPTH	TYPE	DATE SPUDDED	DATE COMPLETED	CONSTRUCTION	Status
Shideler Farm	18-A	2570 FROM (N)(S) SEC. LINE 850 FROM (E)(W) SEC. LINE SEC. 17 T. 43 N.R. 33	Dean Shideler	493	11	May 1994	Dry, Not completed	None	PA
" "	19-A	1835 FROM (N)(S) SEC. LINE 350 FROM (E)(W) SEC. LINE SEC. 17 T. 43 N.R. 33	" "	502	1	8/15/ 1994	9/22/ ~~8/27~~ 1994	2 7/8" @ 495'	PA
" "	21-A	1180 FROM (N)(S) SEC. LINE 800 FROM (E)(W) SEC. LINE SEC. 17 T. 43 N.R. 33	" "	505	2	10/8/ 1994	10/14/ 1994	2 7/8" @ 441'	PA
" "	22-A	1020 FROM (N)(S) SEC. LINE 860 FROM (E)(W) SEC. LINE SEC. 17 T. 43 N.R. 33	" "	377	2	12/14/ 1994	12/21/ 1994	2 7/8" @ 368'	PA
" "	23-A	600 FROM (N)(S) SEC. LINE 1380 FROM (E)(W) SEC. LINE SEC. 17 T. 43 N.R. 33	" "	377	2	3/9/ 1995	3/15/ 1995	2 7/8" @ 372'	PA
" "	26-A	700 FROM (N)(S) SEC. LINE 2275 FROM (E)(W) SEC. LINE SEC. 17 T. 43 N.R. 33	" "	517	2	12/10/ 1995	12/15/ 1995	2 7/8" @ 376'	PA
" "	27-A	689 FROM (N)(S) SEC. LINE 700 FROM (E)(W) SEC. LINE SEC. 17 T. 43 N.R. 33	" "	354	1	3/6/ 1996	3/12/ 1996	2 7/8" @ 339'	PA
	[redacted]	_____ FROM (N)(S) SEC. LINE _____ FROM (E)(W) SEC. LINE SEC. _____ T. _____ N.R. _____							
		_____ FROM (N)(S) SEC. LINE _____ FROM (E)(W) SEC. LINE SEC. _____ T. _____ N.R. _____							

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MO 780-1136 (9-01)

GIVE A DETAILED DESCRIPTION OF ANY WELL NEEDING CORRECTIVE ACTION THAT PENETRATES THE INJECTION ZONE IN THE AREA OF REVIEW (1/2 MILE RADIUS AROUND WELL). INCLUDE THE REASON FOR AND PROPOSED CORRECTIVE ACTION.

None

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ONE (1) COPY WILL BE RETURNED.

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Driller Log

Lease Name: OSBORN Well#: I 39-16 Spud: 12-14-06

Thickness	Formation	Depth	Comments
20	Surface	20	
3	Shale	23	
10	Lime	33	
7	Shale	40	
33	Lime	73	
4	Shale	77	
4	Blk slate	81	
1	Shale	82	
21	Lime	103	
5	Shale	108	
2	Lime	110	
3	Shale	113	
6	Lime	119	
4	Shale	123	
3	lime	126	
136	Shale	262	
2	Blk slate	264	
181	Shale	445	
1	Blk slate	446	
4	Shale	450	
10	SS	460	Oil show
1	Lime	461	
62	Shale	523	
10	Lime	533	
10	Shale	543	TD 543' on 12-15-06

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STATE OF MISSOURI
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GEOLOGICAL SURVEY PROGRAM

INJECTION WELL MONITORING REPORT

FORM OGC-12

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INSTRUCTIONS ▶ Record Injection Rate and Injection Pressure at least monthly with the results submitted annually.

COUNTY	PERMIT NUMBER	OPERATOR	WELL NUMBER
Cass	20781	Osborn Energy, L.L.C.	39-16

MONTH	INJECTION RATE – bpd/gpm	INJECTION PRESSURE – psig	DATE MEASUREMENT TAKEN	REMARKS
(01) January	.81	350	Average	
(02) February	.89	350	Average	
(03) March	.81	350	Average	
(04) April	.83	350	Average	
(05) May	.81	350	Average	
(06) June	.83	350	Average	
(07) July	.81	350	Average	
(08) August	.81	350	Average	
(09) September	.83	350	Average	
(10) October	.81	350	Average	
(11) November	.83	350	Average	
(12) December	.81	350	Average	

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FORM OGC-12

STATE OF MISSOURI
MISSOURI DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY PROGRAM

INJECTION WELL MONITORING REPORT

INSTRUCTIONS ▶ Record Injection Rate and Injection Pressure at least monthly with the results submitted annually.

COUNTY	PERMIT NUMBER	OPERATOR	WELL NUMBER
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(01) January	.81	350	Average	
(02) February	.89	350	Average	
(03) March	.81	350	Average	
(04) April	.83	350	Average	
(05) May	.81	350	Average	
(06) June	.83	350	Average	
(07) July	.81	350	Average	
(08) August	.81	350	Average	
(09) September	.83	350	Average	
(10) October	.81	350	Average	
(11) November	.83	350	Average	
(12) December	.81	350	Average	

MO 780-0208 (8-06)

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FORM OGC-12

STATE OF MISSOURI
MISSOURI DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY PROGRAM

INJECTION WELL MONITORING REPORT

INSTRUCTIONS ▶ Record Injection Rate and Injection Pressure at least monthly with the results submitted annually.

COUNTY	PERMIT NUMBER	OPERATOR	WELL NUMBER
Cass	20781	Osborn Energy, L.L.C.	39-16

MONTH	INJECTION RATE – bpd/gpm	INJECTION PRESSURE – psig	DATE MEASUREMENT TAKEN	REMARKS
(01) January	.81	350	Average	
(02) February				no injection
(03) March				no injection
(04) April	.83	350	Average	
(05) May				no injection
(06) June				no injection
(07) July	.81	350	Average	
(08) August				no injection
(09) September				no injection
(10) October	.81	350	Average	
(11) November				no injection
(12) December				no injection

MO 780-0208 (8-06)

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STATE OF MISSOURI
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GEOLOGICAL SURVEY PROGRAM

INJECTION WELL MONITORING REPORT

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INSTRUCTIONS ▶ Record Injection Rate and Injection Pressure at least monthly with the results submitted annually.

COUNTY	PERMIT NUMBER	OPERATOR	WELL NUMBER
Cass	20781	Osborn Energy, L.L.C.	39-16

MONTH	INJECTION RATE – bpd/gpm	INJECTION PRESSURE – psig	DATE MEASUREMENT TAKEN	REMARKS
(01) January	.81	350	Average	
(02) February	.82	350	Average	
(03) March	.81	350	Average	
(04) April	.83	350	Average	
(05) May	.81	350	Average	
(06) June	.83	350	Average	
(07) July	.81	350	Average	
(08) August	.81	350	Average	
(09) September	.83	350	Average	
(10) October	.81	350	Average	
(11) November	.83	350	Average	
(12) December	.81	350	Average	

MO 780-0208 (8-06)

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