

For KCC Use:

Effective Date: _____

District #: _____

SGA? ☐ Yes ☐ No

**KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION**

1076242

Form C-1

March 2010

Form must be Typed

Form must be Signed

All blanks must be Filled

NOTICE OF INTENT TO DRILL

Must be approved by KCC five (5) days prior to commencing well

Form KSONA-1, Certification of Compliance with the Kansas Surface Owner Notification Act, MUST be submitted with this form.

Expected Spud Date: _____
month day year

OPERATOR: License# _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _ _ _ _

Contact Person: _____

Phone: _____

CONTRACTOR: License# _____

Name: _____

Well Drilled For:

Well Class:

Type Equipment:

☐ Oil ☐ Enh Rec ☐ Infield ☐ Mud Rotary
☐ Gas ☐ Storage ☐ Pool Ext. ☐ Air Rotary
☐ Disposal ☐ Wildcat ☐ Cable

☐ Seismic ; _____ # of Holes

☐ Other

☐ Other: _____

☐ If OWWO: old well information as follows:

Operator: _____

Well Name: _____

Original Completion Date: _____ Original Total Depth: _____

Directional, Deviated or Horizontal wellbore? ☐ Yes ☐ No

If Yes, true vertical depth: _____

Bottom Hole Location: _____

KCC DKT #: _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ ☐ E ☐ W
(Q/Q/Q/Q) _____ feet from ☐ N / ☐ S Line of Section

_____ feet from ☐ E / ☐ W Line of Section

Is SECTION: ☐ Regular ☐ Irregular?

(Note: Locate well on the Section Plat on reverse side)

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Is this a Prorated / Spaced Field? ☐ Yes ☐ No

Target Formation(s): _____

Nearest Lease or unit boundary line (in footage): _____

Ground Surface Elevation: _____ feet MSL

Water well within one-quarter mile: ☐ Yes ☐ No

Public water supply well within one mile: ☐ Yes ☐ No

Depth to bottom of fresh water: _____

Depth to bottom of usable water: _____

Surface Pipe by Alternate: ☐ I ☐ II

Length of Surface Pipe Planned to be set: _____

Length of Conductor Pipe (if any): _____

Projected Total Depth: _____

Formation at Total Depth: _____

Water Source for Drilling Operations:

☐ Well ☐ Farm Pond ☐ Other: _____

DWR Permit #: _____

(Note: Apply for Permit with DWR ☐)

Will Cores be taken? ☐ Yes ☐ No

If Yes, proposed zone: _____

AFFIDAVIT

The undersigned hereby affirms that the drilling, completion and eventual plugging of this well will comply with K.S.A. 55 et. seq.

It is agreed that the following minimum requirements will be met:

1. Notify the appropriate district office **prior** to spudding of well;
2. A copy of the approved notice of intent to drill **shall be** posted on each drilling rig;
3. The minimum amount of surface pipe as specified below **shall be set** by circulating cement to the top; in all cases surface pipe **shall be set** through all unconsolidated materials plus a minimum of 20 feet into the underlying formation.
4. If the well is dry hole, an agreement between the operator and the district office on plug length and placement is necessary **prior to plugging**;
5. The appropriate district office will be notified before well is either plugged or production casing is cemented in;
6. If an ALTERNATE II COMPLETION, production pipe shall be cemented from below any usable water to surface within **120 DAYS** of spud date. Or pursuant to Appendix "B" - Eastern Kansas surface casing order #133,891-C, which applies to the KCC District 3 area, alternate II cementing must be completed within 30 days of the spud date or the well shall be plugged. **In all cases, NOTIFY district office** prior to any cementing.

Submitted Electronically

For KCC Use ONLY

API # 15 - _____

Conductor pipe required _____ feet

Minimum surface pipe required _____ feet per ALT. ☐ I ☐ II

Approved by: _____

This authorization expires: _____

(This authorization void if drilling not started within 12 months of approval date.)

Spud date: _____ Agent: _____

Remember to:

- File Certification of Compliance with the Kansas Surface Owner Notification Act (KSONA-1) with Intent to Drill;
- File Drill Pit Application (form CDP-1) with Intent to Drill;
- File Completion Form ACO-1 within 120 days of spud date;
- File acreage attribution plat according to field proration orders;
- Notify appropriate district office 48 hours prior to workover or re-entry;
- Submit plugging report (CP-4) after plugging is completed (within 60 days);
- Obtain written approval before disposing or injecting salt water.
- If well will not be drilled or permit has expired (See: authorized expiration date) please check the box below and return to the address below.

☐ **Well will not be drilled or Permit Expired** Date: _____

Signature of Operator or Agent: _____

**Mail to: KCC - Conservation Division,
130 S. Market - Room 2078, Wichita, Kansas 67202**

☐ E
☐ W



1076242

For KCC Use ONLY

API # 15 - _____

IN ALL CASES PLOT THE INTENDED WELL ON THE PLAT BELOW

In all cases, please fully complete this side of the form. Include items 1 through 5 at the bottom of this page.

Operator: _____

Lease: _____

Well Number: _____

Field: _____

Number of Acres attributable to well: _____

QTR/QTR/QTR/QTR of acreage: _____ - _____ - _____ - _____

Location of Well: County: _____

_____ feet from ☐ N / ☐ S Line of Section_____ feet from ☐ E / ☐ W Line of SectionSec. _____ Twp. _____ S. R. _____ ☐ E ☐ WIs Section: ☐ Regular or ☐ Irregular**If Section is Irregular, locate well from nearest corner boundary.**Section corner used: ☐ NE ☐ NW ☐ SE ☐ SW**PLAT**

Show location of the well. Show footage to the nearest lease or unit boundary line. Show the predicted locations of lease roads, tank batteries, pipelines and electrical lines, as required by the Kansas Surface Owner Notice Act (House Bill 2032). You may attach a separate plat if desired.

340 ft.

NOTE: In all cases locate the spot of the proposed drilling location.

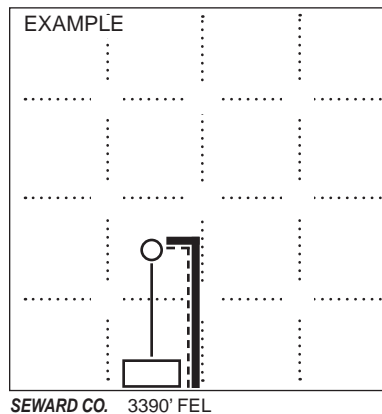
275 ft.

In plotting the proposed location of the well, you must show:

1. The manner in which you are using the depicted plat by identifying section lines, i.e. 1 section, 1 section with 8 surrounding sections, 4 sections, etc.
2. The distance of the proposed drilling location from the south / north and east / west outside section lines.
3. The distance to the nearest lease or unit boundary line (in footage).
4. If proposed location is located within a prorated or spaced field a certificate of acreage attribution plat must be attached: (C0-7 for oil wells; CG-8 for gas wells).
5. The predicted locations of lease roads, tank batteries, pipelines, and electrical lines.

LEGEND

- ☐ Well Location
- ☐ Tank Battery Location
- Pipeline Location
- - - - Electric Line Location
- Lease Road Location



SEWARD CO. 3390' FEL

1980' FSL



KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1076242

Form CDP-1
May 2010
Form must be Typed

APPLICATION FOR SURFACE PIT

Submit in Duplicate

Operator Name:		License Number:	
Operator Address:			
Contact Person:		Phone Number:	
Lease Name & Well No.:		Pit Location (QQQQ): ____ - ____ - ____ - ____ Sec. ____ Twp. ____ R. ____ <input type="checkbox"/> East <input type="checkbox"/> West ____ Feet from <input type="checkbox"/> North / <input type="checkbox"/> South Line of Section ____ Feet from <input type="checkbox"/> East / <input type="checkbox"/> West Line of Section ____ County	
Type of Pit: <input type="checkbox"/> Emergency Pit <input type="checkbox"/> Burn Pit <input type="checkbox"/> Settling Pit <input type="checkbox"/> Drilling Pit <input type="checkbox"/> Workover Pit <input type="checkbox"/> Haul-Off Pit (If WP Supply API No. or Year Drilled)	Pit is: <input type="checkbox"/> Proposed <input type="checkbox"/> Existing If Existing, date constructed: _____ Pit capacity: _____ (bbls)		
Is the pit located in a Sensitive Ground Water Area? <input type="checkbox"/> Yes <input type="checkbox"/> No		Chloride concentration: _____ mg/l (For Emergency Pits and Settling Pits only)	
Is the bottom below ground level? <input type="checkbox"/> Yes <input type="checkbox"/> No	Artificial Liner? <input type="checkbox"/> Yes <input type="checkbox"/> No	How is the pit lined if a plastic liner is not used?	
Pit dimensions (all but working pits): _____ Length (feet) _____ Width (feet) <input type="checkbox"/> N/A: Steel Pits Depth from ground level to deepest point: _____ (feet) <input type="checkbox"/> No Pit			
If the pit is lined give a brief description of the liner material, thickness and installation procedure.		Describe procedures for periodic maintenance and determining liner integrity, including any special monitoring.	
Distance to nearest water well within one-mile of pit: _____ feet Depth of water well _____ feet		Depth to shallowest fresh water _____ feet. Source of information: <input type="checkbox"/> measured <input type="checkbox"/> well owner <input type="checkbox"/> electric log <input type="checkbox"/> KDWR	
Emergency, Settling and Burn Pits ONLY: Producing Formation: _____ Number of producing wells on lease: _____ Barrels of fluid produced daily: _____ Does the slope from the tank battery allow all spilled fluids to flow into the pit? <input type="checkbox"/> Yes <input type="checkbox"/> No		Drilling, Workover and Haul-Off Pits ONLY: Type of material utilized in drilling/workover: _____ Number of working pits to be utilized: _____ Abandonment procedure: _____ Drill pits must be closed within 365 days of spud date.	
Submitted Electronically			

KCC OFFICE USE ONLY

☐ Liner ☐ Steel Pit ☐ RFAC ☐ RFAS

Date Received: _____ Permit Number: _____ Permit Date: _____ Lease Inspection: ☐ Yes ☐ No

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202



KANSAS CORPORATION COMMISSION 1076242
OIL & GAS CONSERVATION DIVISION

Form KSONA-1

July 2010

Form Must Be Typed
Form must be Signed
All blanks must be Filled

**CERTIFICATION OF COMPLIANCE WITH THE
KANSAS SURFACE OWNER NOTIFICATION ACT**

This form must be submitted with all Forms C-1 (Notice of Intent to Drill); CB-1 (Cathodic Protection Borehole Intent); T-1 (Request for Change of Operator Transfer of Injection or Surface Pit Permit); and CP-1 (Well Plugging Application). Any such form submitted without an accompanying Form KSONA-1 will be returned.

Select the corresponding form being filed: ☐ C-1 (Intent) ☐ CB-1 (Cathodic Protection Borehole Intent) ☐ T-1 (Transfer) ☐ CP-1 (Plugging Application)

OPERATOR: License # _____
Name: _____
Address 1: _____
Address 2: _____
City: _____ State: _____ Zip: _____ + _____
Contact Person: _____
Phone: (_____) _____ Fax: (_____) _____
Email Address: _____

Well Location:
____ - ____ - ____ Sec. ____ Twp. ____ S. R. ____ ☐ East ☐ West
County: _____
Lease Name: _____ Well #: _____
If filing a Form T-1 for multiple wells on a lease, enter the legal description of the lease below:

Surface Owner Information:

Name: _____
Address 1: _____
Address 2: _____
City: _____ State: _____ Zip: _____ + _____

When filing a Form T-1 involving multiple surface owners, attach an additional sheet listing all of the information to the left for each surface owner. Surface owner information can be found in the records of the register of deeds for the county, and in the real estate property tax records of the county treasurer.

If this form is being submitted with a Form C-1 (Intent) or CB-1 (Cathodic Protection Borehole Intent), you must supply the surface owners and the KCC with a plat showing the predicted locations of lease roads, tank batteries, pipelines, and electrical lines. The locations shown on the plat are preliminary non-binding estimates. The locations may be entered on the Form C-1 plat, Form CB-1 plat, or a separate plat may be submitted.

Select one of the following:

- ☐ I certify that, pursuant to the Kansas Surface Owner Notice Act (House Bill 2032), I have provided the following to the surface owner(s) of the land upon which the subject well is or will be located: 1) a copy of the Form C-1, Form CB-1, Form T-1, or Form CP-1 that I am filing in connection with this form; 2) if the form being filed is a Form C-1 or Form CB-1, the plat(s) required by this form; and 3) my operator name, address, phone number, fax, and email address.
- ☐ I have not provided this information to the surface owner(s). I acknowledge that, because I have not provided this information, the KCC will be required to send this information to the surface owner(s). To mitigate the additional cost of the KCC performing this task, I acknowledge that I am being charged a \$30.00 handling fee, payable to the KCC, which is enclosed with this form.

If choosing the second option, submit payment of the \$30.00 handling fee with this form. If the fee is not received with this form, the KSONA-1 form and the associated Form C-1, Form CB-1, Form T-1, or Form CP-1 will be returned.

Submitted Electronically

6709 NORTH CLASSEN BLVD., OKLA. CITY, OKLA. 73116 * LOCAL (405) 843-4847 * OUT OF STATE (800) 654-3219
Certificate of Authorization No. LS-99, Exp. Dec 31, 2011

Certificate of Authorization No. LS-99, Exp. Dec 31, 2011

County, Kansas

275' FSL-340' FWL Section 4 Township 35S Range 7W P.M.

Township Line-A

T34S-R7W

T35S-R7W

X	2119222
Y	134904

X	2124482
Y	134936

BOTTOM HOLE
330'FNL-660'FWL
N 37° 02' 07.9"
W 98° 05' 21.5"
Lat: 37.035538325
Long: 98.089319986
X: 2119885
Y: 134578

CORNER COORDINATES ARE TAKEN FROM
POINTS SURVEYED IN THE FIELD.

GRID

Scale:
1" = 1000'

X	211927
Y	129605

X	2124526
Y	129671

Distances shown in (parenthesis) are calculated based upon the Quarter Section being 2640 feet, those shown in [brackets] are based on GLO (General Land Office) distances and have NOT been measured on the ground.

BOTTOMHOLE INFORMATION PROVIDED BY OPERATOR LISTED,
NOT SURVEYED.
BEARING AND/OR DISTANCE TO BOTTOMHOLE ARE CALCULATED.

Operator: SANDRIDGE ENERGY, INC.

Lease Name: CATHER

Well No.: 1-4H

ELEVATION:

1271' Gr. at Stake

Topography & Vegetation Sloped terraced wheat field

Good Drill Site? Yes Reference Stakes or Alternate Location
Stakes Set None

Best Accessibility to Location From South off county road

Distance & Direction

Distance & Direction
from Hwy Jct or Town From the junction of St. Hwy 179 & Oklahoma-Kansas State Line, go North \pm 1.7 miles on
St. Hwy 179, then West \pm 2.5 miles to the Southwest Corner of Section 4, T35S - R7W.

Date of Drawing: Dec. 14, 2011

Invoice # 176836

Date Staked: Dec. 10, 2011

NMA

DATUM: NAD-27

LAT: 37°01'21.5"N

LONG: 98°05'25.2"W

LAT: 37.022650165° N

LONG: 98.090336096° W

STATE PLANE
COORDINATES (US Feet):

ZONE: KS SOUTH

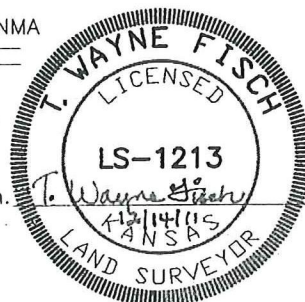
X: 2119609

Y: 129884

CERTIFICATE:

I, T. Wayne Fisch a Registered Land Surveyor
and an authorized agent of Topographic Land Surveyors,
do hereby certify that the above described well location
was surveyed and staked on the ground as shown herein.

Kansas Reg. No. 1213



(This information was gathered with a GPS receiver with Sub-Meter accuracy.)

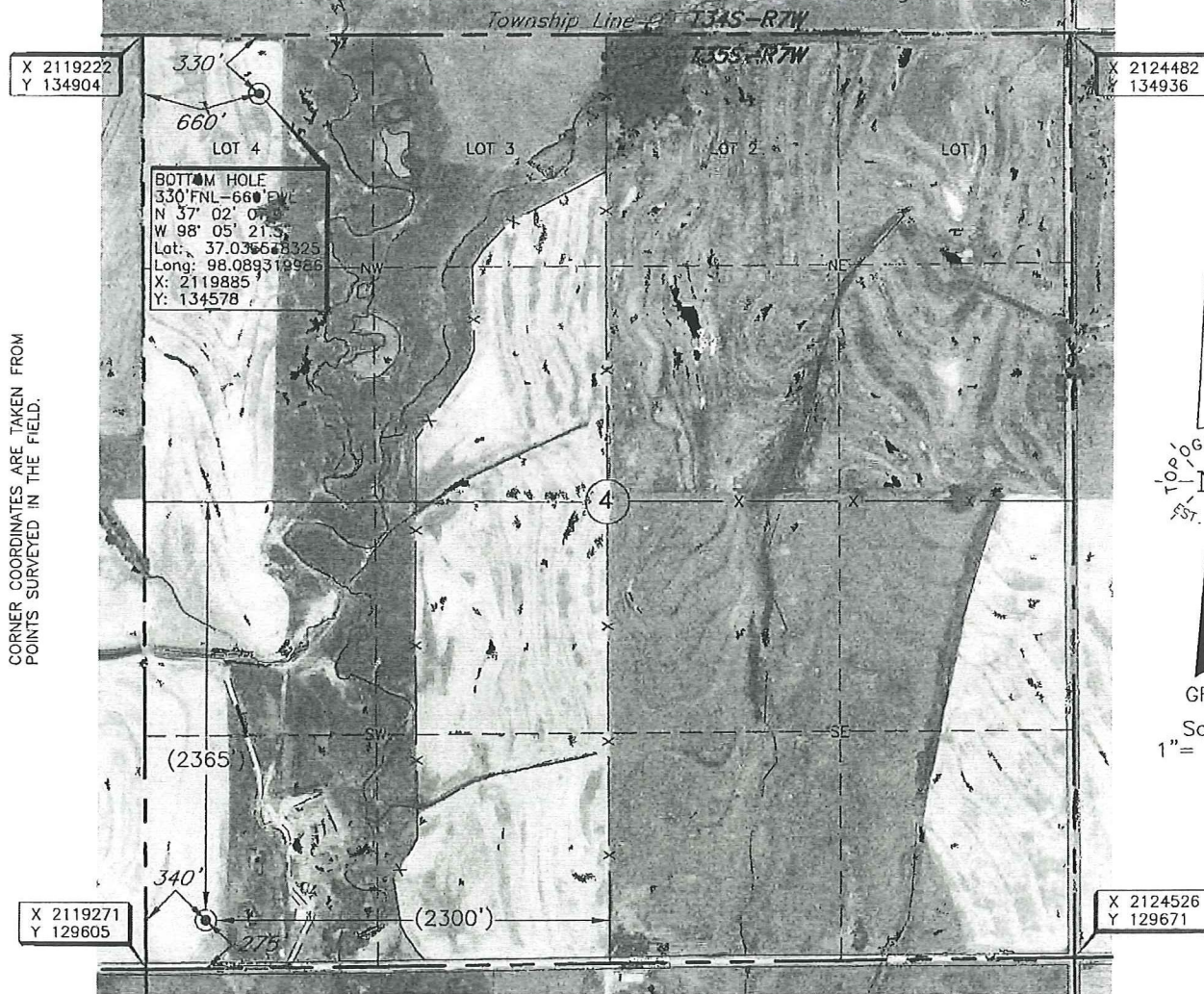
TOPOGRAPHIC LAND SURVEYORS

6709 NORTH CLASSEN BLVD., OKLA. CITY, OKLA. 73116 * LOCAL (405) 843-4847 * OUT OF STATE (800) 654-3219
Certificate of Authorization No. LS-99, Exp. Dec 31, 2011

HARPER

County, Kansas

275' FSL-340' FWL Section 4 Township 35S Range 7W P.M.



Operator: SANDRIDGE ENERGY, INC.

Lease Name: CATHER

Well No.: 1-4H

ELEVATION:

1271' Gr. at Stake

Topography & Vegetation: Sloped terraced wheat field

Good Drill Site? Yes Reference Stakes or Alternate Location
Stakes Set None

Best Accessibility to Location: From South off county road

Distance & Direction from Hwy Jct or Town: From the junction of St. Hwy 179 & Oklahoma-Kansas State Line, go North ± 1.7 miles on St. Hwy 179, then West ± 2.5 miles to the Southwest Corner of Section 4, T35S - R7W.

DATUM: NAD-27
LAT: 37°01'21.5"N
LONG: 98°05'25.2"W
LAT: 37.022650165° N
LONG: 98.090336096° W
STATE PLANE
COORDINATES (US Feet):
ZONE: KS SOUTH
X: 2119609
Y: 129884

Invoice # 176836 Date of Drawing: Dec. 14, 2011
Date Staked: Dec. 10, 2011

NMA

CERTIFICATE:

I, T. Wayne Fisch a Registered Land Surveyor and an authorized agent of Topographic Land Surveyors, do hereby certify that the above described well location was surveyed and staked on the ground as shown herein.

Kansas Reg. No. 1213

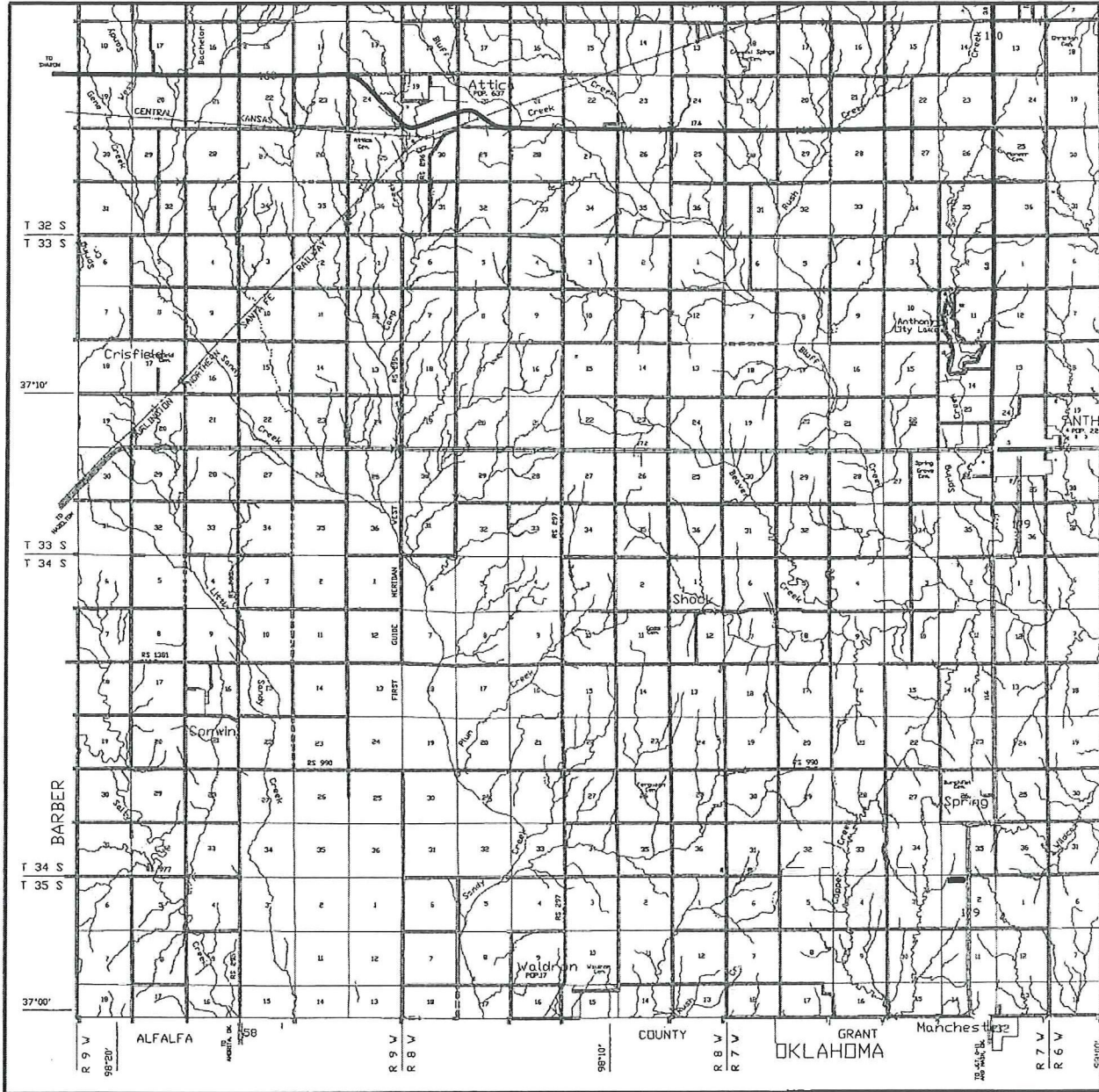


This information was gathered with a GPS receiver with Sub-Meter accuracy.

TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

Surveying and Mapping for the Energy Industry
6709 North Classen Blvd. Oklahoma City, OK 73116 www.topographic.com
Telephone Numbers: Local (405) 843-4847 Toll Free (800) 654-3219

VICINITY MAP



Scale: 1" = 3 Miles

Sec. 4 Twp. 35S Rng. 7W

County HARPER State KS

Operator SANDRIDGE ENERGY, INC.

TOPOGRAPHIC
SURVEYING • MAPPING • GIS • GPS
**LAND SURVEYORS
OF OKLAHOMA**

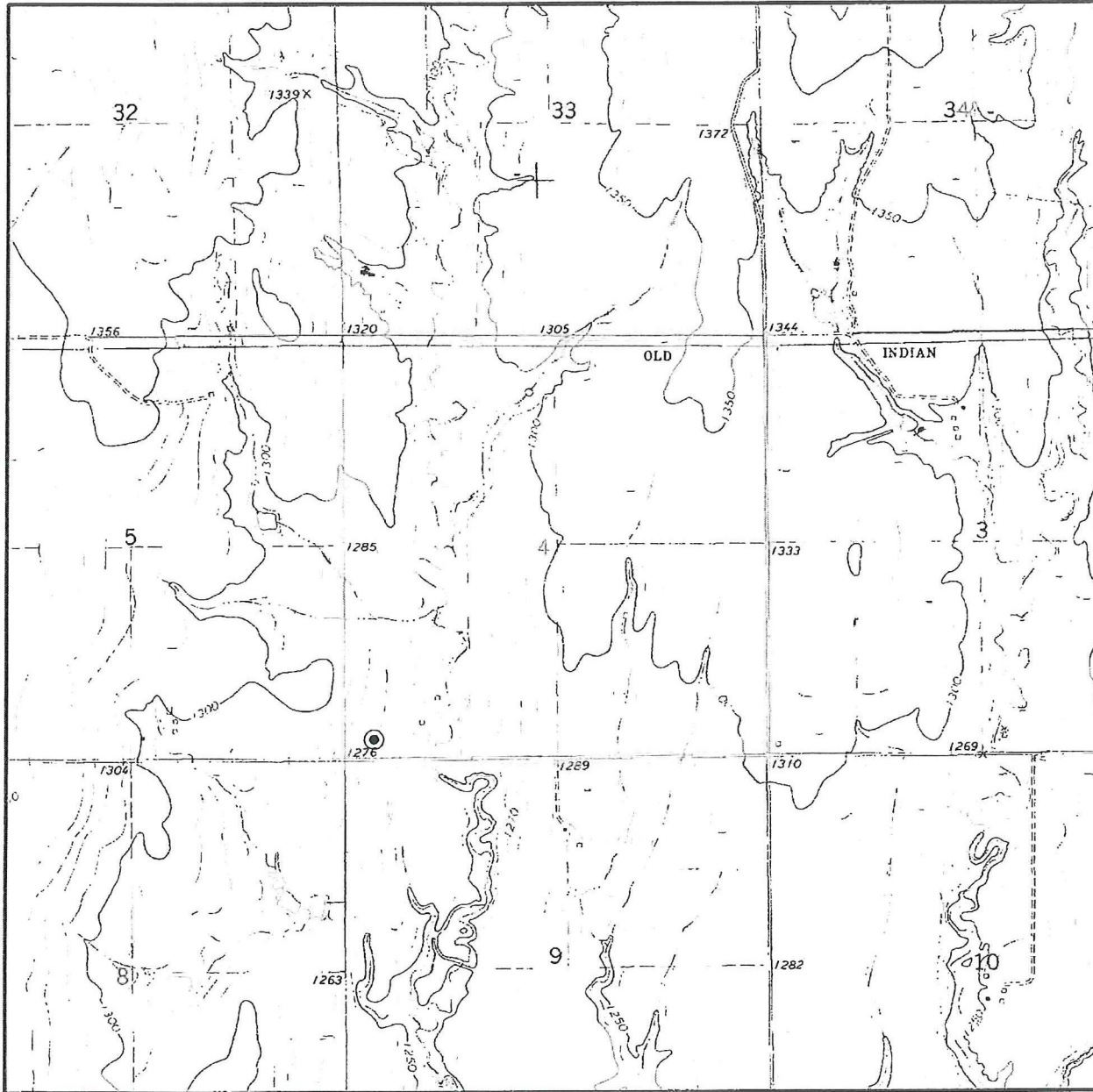
TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

Surveying and Mapping for the Energy Industry

6709 North Classen Blvd. Oklahoma City, OK 73116 www.topographic.com

Telephone Numbers: Local (405) 843-4847 Toll Free (800) 654-3219

LOCATION & ELEVATION VERIFICATION MAP



Sec. 4 Twp. 35S Rng. 7W

County HARPER State KS

Operator SANDRIDGE ENERGY, INC.

Description 275' FSL-340' FWL

Lease CATHER 1-4H

Elevation 1271' Gr. at Stake

U.S.G.S. Topographic
Quadrangle Map SPRING, KS

Above Background Data from
U.S.G.S. Topographic Map
Scale: 1"=2000'

Contour Interval 10'

This location has been very carefully staked on the ground according to the best official survey records, maps and photographs available to us, but its accuracy is not guaranteed. When elevation is shown hereon it is the ground elevation of the location stake.
Review this plat and inform us immediately of any possible discrepancy.

TOPOGRAPHIC

SURVEYING • MAPPING • GIS • GPS

**LAND SURVEYORS
OF OKLAHOMA**

Unit Description
Cather 1-4H Well
Harper County, KS

SandRidge has leases covering 644.59 nma in All of Section 4, Township 35S, Range 7W and we intend to unitize this 644.59 into the Cather Unit.

240.00 Ac. 12/15/2013

157.00 Ac. 11/8/2013

101412

NIC

SA

32

33

34

105148

105153

MCCULLOCH OIL CORP

5500

REDFERN 1-33

149.09 Ac. 10/13/2013

640.30 Ac. 10/13/2013

320.60 Ac. 10/12/2013

100808

100811

5

4

100806

CATHER 1-4H

3

NICHOLS

BURCH

103369

101034

100950

CATHER 1-4H
SANDRIDGE

320.00 Ac. 10/13/2013 HBP

640.00 Ac. 11/8/2013

640.00 Ac. 1/18/2014

18H
BE

101316

101556
MIKKELSON 1-4H

101555

5340
REDFERN 1

35S 7W

8

9

10

PROD CORP



3950

BURCHFIEL ESTATE 1

101599

PETR RESOURCES CO

5412

1 inch = 2000 feet

2000 0 2000 ft

PRODUCING FORMATION LEGEND

- Tonkawa-Virgilian
- Cottage Grove
- Oswego
- Red Fork
- Inola
- Morrow
- Chester
- Meramec
- Hunton
- Pre-Hunton (Viola/Simp/Arbk)



WELL POSTING LEGEND

EUR MNCFE
CURRENT OPERATOR
ORIGINAL OPERATOR

Cum MBO
Cum BCF
First Last Prod

Ave Daily BO
Ave Daily MCF
Total Depth

WELL NAME & NUMBER
Prod Formations

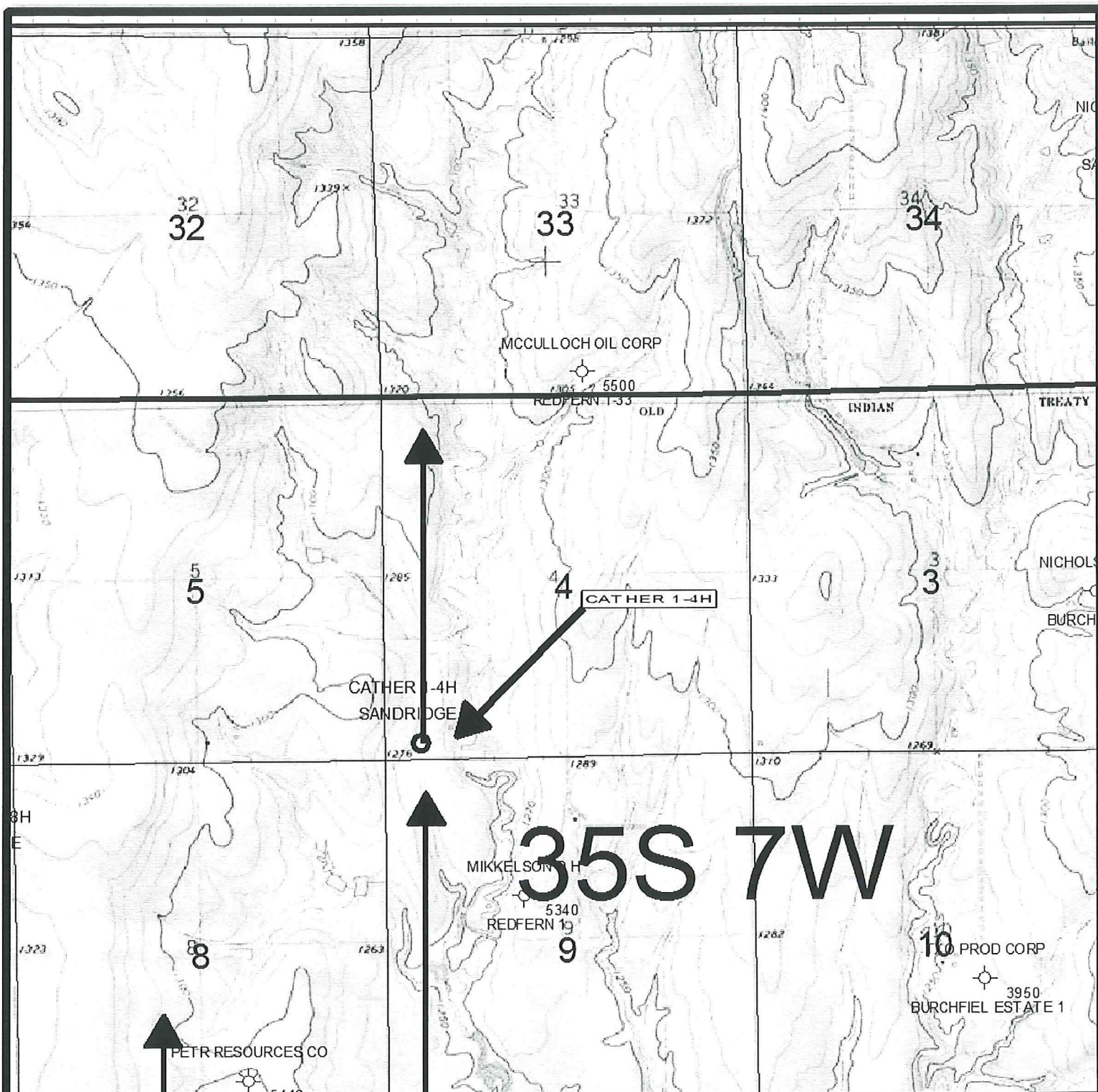
SANDRIDGE
THE POWER OF US

WALDRON
Cather 1-4H 4-35S-7W
Harper County, Oklahoma
Production Map

Cather 1-4H Prod.gmp

Date: 3 October, 2011

Geol: T. Alcorn



1 inch = 2000 feet

2000 0 2000 ft

PRODUCING FORMATION LEGEND

- Tonkawa-Virgilian
- Cottage Grove
- Osage
- Red Fork
- Isola
- Morrow
- Chester
- Meramec
- Huron
- Pre-Huron (Vicksburg/Ark)



WELL POSTING LEGEND

CURRENT OPERATOR
ORIGINAL OPERATOR

Cum WBO
Cum EOP
Field No.



Ave Daily EO
Ave Daily MCF
Total Cap

WELL NAME & NUMBER
Prod Formations



WALDRON
Cather 1-4H 4-35S-7W
Harper County, Oklahoma
Topographic Map
C1 10

Date: 3 October, 2011 Geol: T. Alcorn

March 13, 2012

Wanda Ledbetter
SandRidge Exploration and Production LLC
123 ROBERT S. KERR AVE
OKLAHOMA CITY, OK 73102-6406

Re: Drilling Pit Application
Cather 1-4H
SW/4 Sec.04-35S-07W
Harper County, Kansas

Dear Wanda Ledbetter:

District staff has inspected the above referenced location and has determined that an unsealed condition will present a pollution threat to water resources.

District staff has recommended that the reserve pit be lined with bentonite or native clay, constructed **without slots**, the bottom shall be flat and reasonably level and the free fluids must be removed. The fluids are to be removed from the reserve pit as soon as the Hutchinson Salt section has been drilled through and displacement of the fluids into the reserve pit has occurred. The fluids should be removed again within 1 week after drilling operations have ceased.

If production casing is set all completion fluids shall be removed from the working pits daily. NO completion fluids or non-exempt wastes shall be placed in the reserve pit.

The fluids should be taken to an authorized disposal well. Please call the District Office at (316) 630-4000 when the fluids have been removed. Please file form CDP-5 (August 2008), Exploration and Production Waste Transfer, through KOLAR within 30 days of fluid removal.

A copy of this letter should be posted in the doghouse along with the approved Intent to Drill. If you have any questions or concerns please feel free to contact the District Office at (316) 630-4000.