



KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

1094057

Form C-1  
March 2010

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

For KCC Use:  
Effective Date: \_\_\_\_\_  
District # \_\_\_\_\_  
SGA?  Yes  No

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:  Oil  Gas  Seismic ; \_\_\_\_\_ # of Holes  Other: \_\_\_\_\_  
Well Class:  Enh Rec  Storage  Disposal  Infield  Pool Ext.  Wildcat  Other  
Type Equipment:  Mud Rotary  Air Rotary  Cable

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: \_\_\_\_\_

E  
 W



**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 Section  
Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  E  W

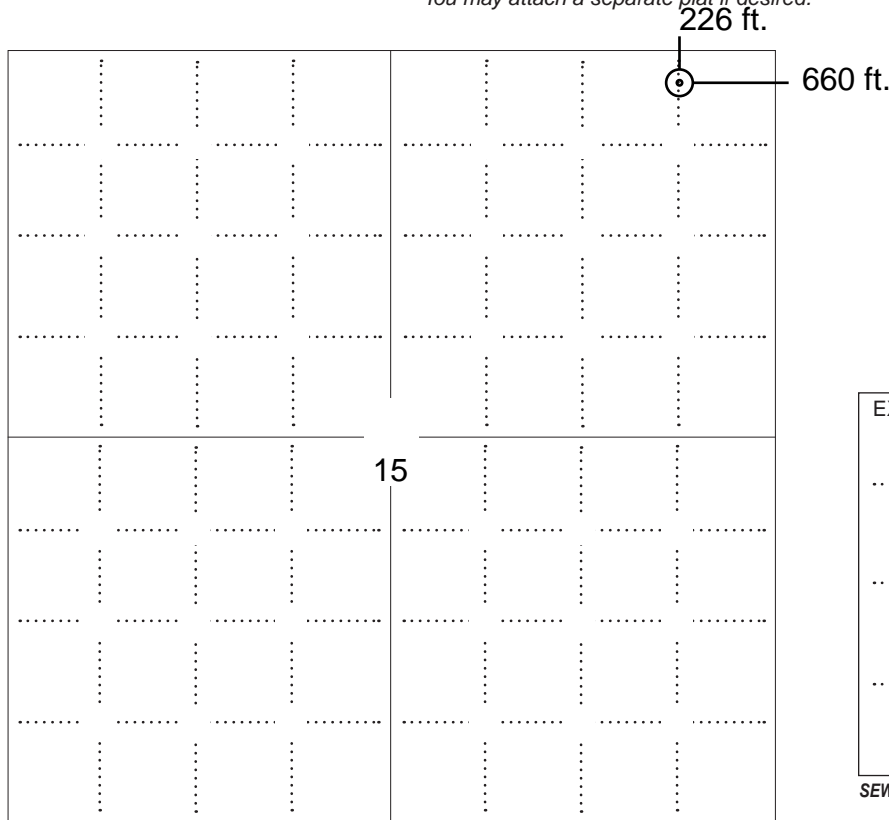
Is Section:  Regular or  Irregular

**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.



**LEGEND**

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



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

**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.

**APPLICATION FOR SURFACE PIT***Submit in Duplicate*

Operator Name:		License Number:	
Operator Address:			
Contact Person:		Phone Number:	
Lease Name & Well No.:		Pit Location (QQQQ): ____ - ____ - ____ - ____	
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 <i>(If WP Supply API No. or Year Drilled)</i>		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 <i>(For Emergency Pits and Settling Pits only)</i>	
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	
<b>Emergency, Settling and Burn Pits ONLY:</b> 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		<b>Drilling, Workover and Haul-Off Pits ONLY:</b> 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

**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.*

I Submitted Electronically

Well Name: Hahn Inc 1-15H

Contractor/Rig: Patterson-UTI 421

State: KS

County: Hodgeman

SHL: 226 FNL & 660 FEL

Township:

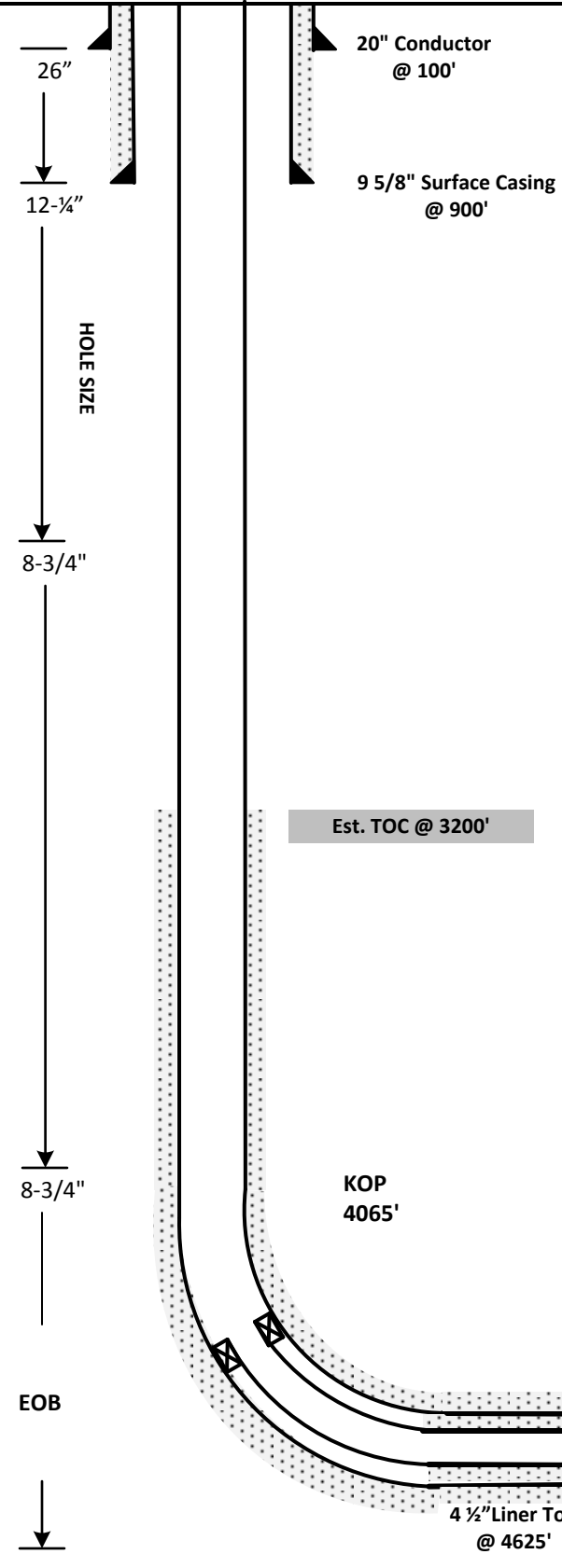
**Proposed**

GL Elev: KB: KB Elev:

BHL: 330' FSL & 330' FEL

AFE:

Permit Number:



**Tubular Details**

	20"	9 5/8"	7"	4-1/2"
Weight	94 lb/ft	36 lb/ft	26 lb/ft	15.10 lb/ft
Grade	X-42	J-55	P-110	N-80
Burst	3590 psi	3520 psi	9960 psi	10480 psi
Collapse	NA	2020 psi	6230 psi	11080 psi
Wall Thickness	0.438"	0.352"	0.724"	0.337"
ID	19.124"	8.921"	6.276"	3.826"
Setting Depth	100'	900'	4925'	10000'

**Cement Details**

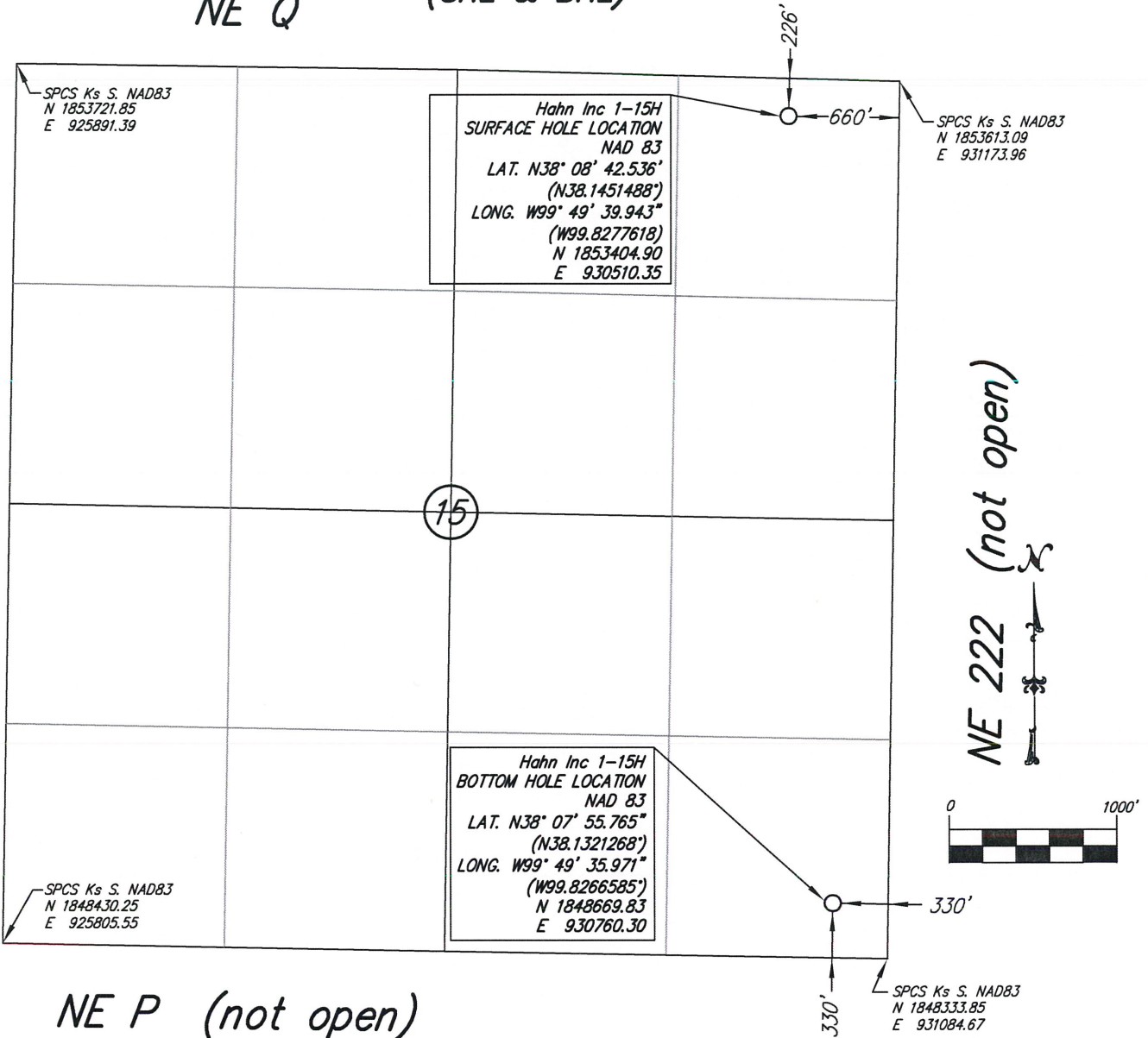
Interval	Company	Excess	Est. Vol
Surface			
Intermediate			
Production Lead			
Production Tail			

See attachments for slurry details

# WELL STAKE-OUT SURVEY (SHL & BHL)

NE Q

NE 221



NE P (not open)

Lease Name: Hahn Inc  
 Well No. 1-15H  
 Surface Hole Elevation at Stake: 2344.30 NAVD88  
 Well Location Co./State: Hodgeman County, Kansas  
 Well Location Section: 15-T22S-R23W

**Alternate Datums:**

	Horz. Datum NAD 27
Hahn Inc #1-15H Surface Hole	Lat. N38°08'42.472" Long. W99°49'38.488" N38.1451312" W99.8273558"
Hahn Inc #1-15H Bottom Hole	Lat. N38°07'55.7007" Long. W99°49'34.5160" N38.1321391" W99.8262544"

**SURVEY DATUMS (shown on drawing)**  
 Horizontal Datum NAD83 (CORS96)  
 Vertical Datum NAVD88 (GEOID09)  
 Kansas SPCS South Zone (US Feet)

State of Kansas )  
 ) SS  
 Sedgwick County )

This is to certify that this map or plat and the survey on which it is based was made by me or under my direct supervision and that, to the best of my knowledge and belief, this is a true and correct exhibit of said survey. The wells shown hereon were staked August 24, 2012 at the coordinate location noted.



Brian N. Savoy, RLS #817  
 This survey is valid only if print bears Surveyor's seal, signed in blue ink.



**Savoy Company, P.A.**  
 Land Surveyors

433 S. Hydraulic, Suite 104, Wichita, KS 67202

PH (316) 265-0005  
 FAX (316) 265-0275

www.savoyco.com



**POE & ASSOCIATES, INC.**  
 CONSULTING ENGINEERS  
 5940 E. Central, Suite 200 Wichita, KS 67208-4242  
 Phone 316/685-4114 FAX 316/685-4444

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: Tug Hill Operating, LLC

Lease: Hahn Inc

Well Number: 1-15H

Field: Unknown

Number of Acres attributable to well: 10

QTR/QTR/QTR/QTR of acreage: N2 - N2 - NE - NE

Location of Well: County: Hodgeman

226 feet from  N /  S Line of Section

660 feet from  E /  W Line of Section

Sec. 15 Twp. 22 S. R. 23  E  W

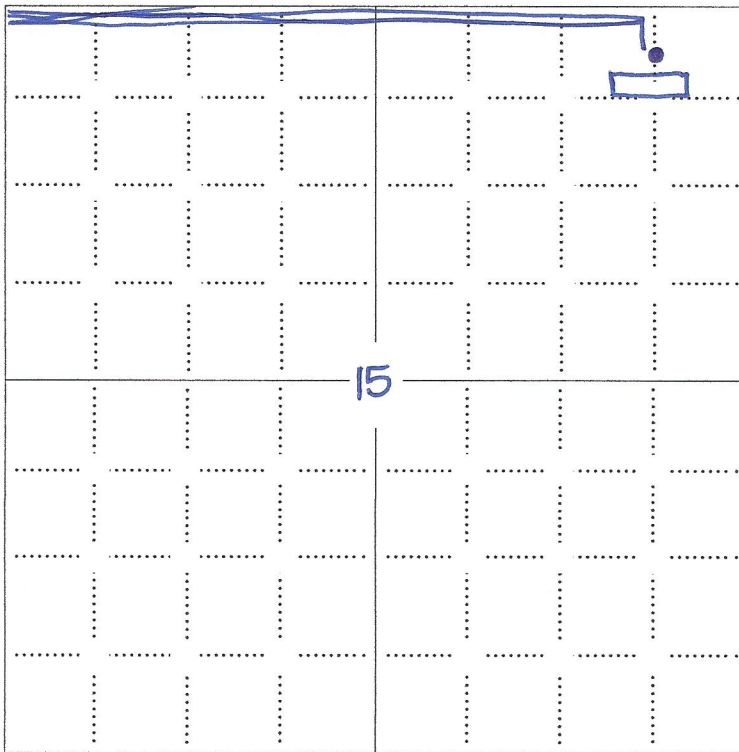
Is Section:  Regular or  Irregular

If Section is Irregular, locate well from nearest corner boundary.

Section corner used:  NE  NW  SE  SW

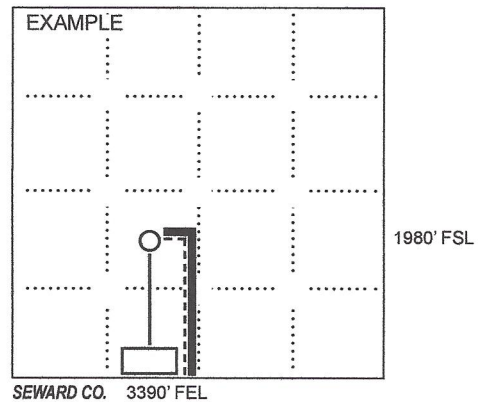
**PLAT**

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.



**LEGEND**

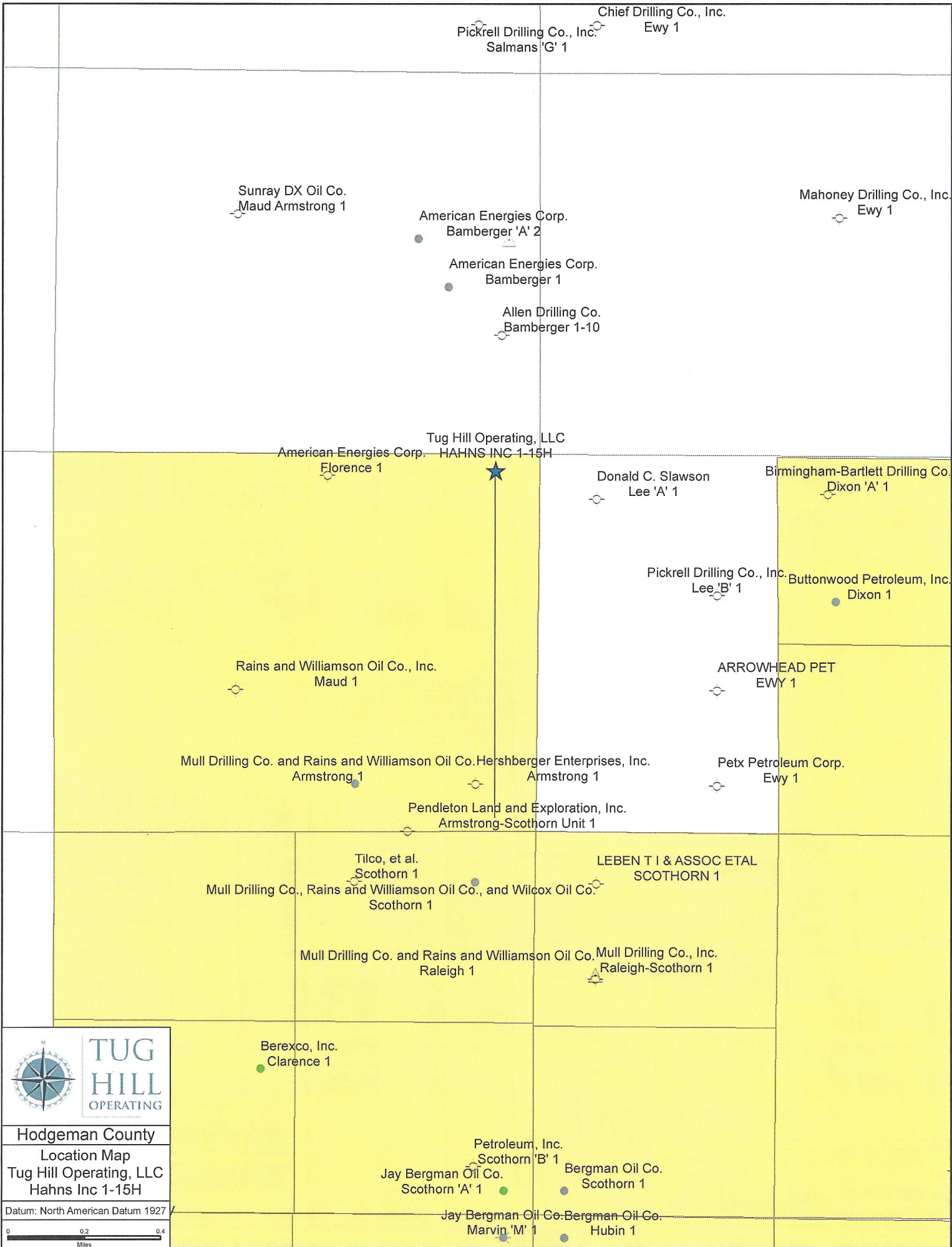
- Well Location
- Tank Battery Location
- Pipeline Location
- Electric Line Location
- Lease Road Location



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

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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: (CO-7 for oil wells; CG-8 for gas wells).
5. The predicted locations of lease roads, tank batteries, pipelines, and electrical lines.





**NOI APPLICATION:** Hahn's Inc. 1-15H

**LEASE INFORMATION**

COUNTY: Hodgeman

LESSOR: Barbara and John MacNair, Ttees of the Mabel MacNair Liv Trust dtd July 16, 1970

LESSEE: Cheyenne Exploration LLC

LEASE DATE: June 16, 2011

RECORDING INFORMATION: Bk OG66, Page 308

**LEGAL DESCRIPTION:**

T22S R23W:  
SEC 15: ALL

**UNITIZED LEASES:**

None

Conservation Division  
Finney State Office Building  
130 S. Market, Rm. 2078  
Wichita, KS 67202-3802



Phone: 316-337-6200  
Fax: 316-337-6211  
<http://kcc.ks.gov/>

Mark Sievers, Chairman  
Thomas E. Wright, Commissioner  
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

September 26, 2012

Winnie Scott  
Tug Hill Operating, LLC  
550 BAILEY AVE, STE 510  
FT. WORTH, TX 76107

Re: Drilling Pit Application  
API 15-083-21836-01-00  
Hahn Inc 1-15H  
NE/4 Sec.15-22S-23W  
Hodgeman County, Kansas

Dear Winnie Scott:

District staff has inspected the above referenced location and has determined that the reserve pit shall be 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 practical 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 (620) 225-8888 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 (620) 225-8888.

## Summary of Changes

Lease Name and Number: Hahn Inc 1-15H

API/Permit #: 15-083-21836-01-00

Doc ID: 1094057

Correction Number: 1

Approved By: Rick Hestermann 09/26/2012

Field Name	Previous Value	New Value
Bottom Hole Location	330 FNL & 660 FEL	330 FSL & 330 FEL
Depth Of Water Well	480	30
Depth to Shallowest Fresh Water	60	23
ElevationPDF	2328 Estimated	2344 Estimated
Feet to Nearest Water Well Within One-Mile of Pit	4166	3539
Ground Surface Elevation	2328	2344
Is Footage Measured from the North or the South Section Line	South	North
Is Footage Measured from the North or the South Section Line	South	North
KCC Only - Approved By	Rick Hestermann 08/16/2012	Rick Hestermann 09/26/2012
KCC Only - Approved Date	08/16/2012	09/26/2012

Summary of changes for correction 1 continued

Field Name	Previous Value	New Value
KCC Only - Date Received	08/02/2012	09/19/2012
KCC Only - Regular Section Quarter Calls	SW SE SE SE	N2 N2 NE NE
LocationInfoLink	<a href="https://solar.kgs.ku.edu/kcc/detail/locationInformation.cfm?section=15&amp;t450">https://solar.kgs.ku.edu/kcc/detail/locationInformation.cfm?section=15&amp;t450</a>	<a href="https://solar.kgs.ku.edu/kcc/detail/locationInformation.cfm?section=15&amp;t660">https://solar.kgs.ku.edu/kcc/detail/locationInformation.cfm?section=15&amp;t660</a>
Number of Feet East or West From Section Line	450	660
Number of Feet East or West From Section Line	450	660
Number of Feet North or South From Section Line	200	226
Number of Feet North or South From Section Line	200	226
Quarter Call 1 - Largest	SE	NE
Quarter Call 1 - Largest	SE	NE
Quarter Call 2	SE	NE
Quarter Call 2	SE	NE
Quarter Call 3	SE	N2
Quarter Call 3	SE	N2

Summary of changes for correction 1 continued

Field Name	Previous Value	New Value
Quarter Call 4 - Smallest	SW	N2
Quarter Call 4 - Smallest	SW	N2
RFAS	Yes	No
Save Link	<a href="http://.../kcc/detail/operatorEditDetail.cfm?docID=1089361">../kcc/detail/operatorEditDetail.cfm?docID=1089361</a>	<a href="http://.../kcc/detail/operatorEditDetail.cfm?docID=1094057">../kcc/detail/operatorEditDetail.cfm?docID=1094057</a>

## Summary of Attachments

Lease Name and Number: Hahn Inc 1-15H

API: 15-083-21836-01-00

Doc ID: 1094057

Correction Number: 1

Approved By: Rick Hestermann 09/26/2012

Attachment Name

Proposed casing detail revised

Plat

plat showing tank battery revised

Lease map revised

Lease description

Fluid