



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

KANSAS CORPORATION COMMISSION 1167851  
 OIL & GAS CONSERVATION DIVISION

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: \_\_\_\_\_

<b>Well Drilled For:</b>	<b>Well Class:</b>	<b>Type Equipment:</b>
<input type="checkbox"/> Oil	<input type="checkbox"/> Enh Rec	<input type="checkbox"/> Infield
<input type="checkbox"/> Gas	<input type="checkbox"/> Storage	<input type="checkbox"/> Pool Ext.
	<input type="checkbox"/> Disposal	<input type="checkbox"/> Wildcat
<input type="checkbox"/> Seismic ; _____ # of Holes	<input type="checkbox"/> Other	<input type="checkbox"/> Mud Rotary
<input type="checkbox"/> Other: _____		<input type="checkbox"/> Air Rotary
		<input type="checkbox"/> Cable
<input type="checkbox"/> 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

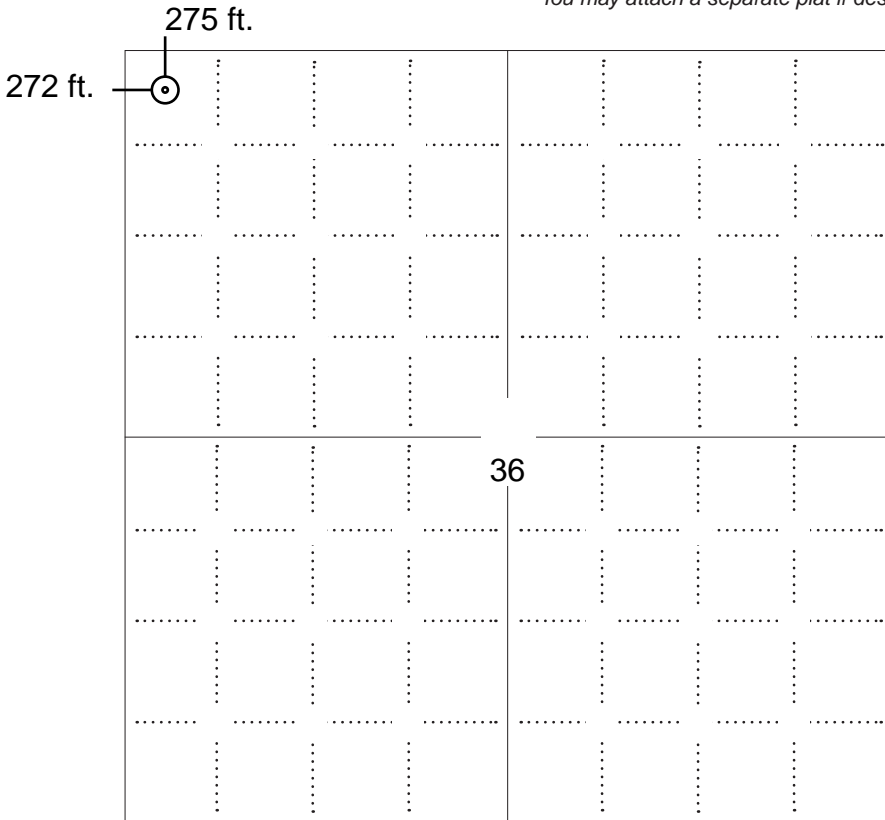
Is Section:  Regular or  Irregular

**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			

<b>KCC OFFICE USE ONLY</b>			
Date Received: _____		Permit Number: _____	
Permit Date: _____		Lease Inspection: <input type="checkbox"/> Yes <input type="checkbox"/> No	
<input type="checkbox"/> Liner		<input type="checkbox"/> Steel Pit <input type="checkbox"/> RFAC <input type="checkbox"/> RFAS	



## 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

McPherson County, Kansas  
Sec. 36, T19S, R1W

Staking For: CIMARRON SERVICES, INC.  
20 East 5th, suite 1403  
Tulsa, Oklahoma 74103

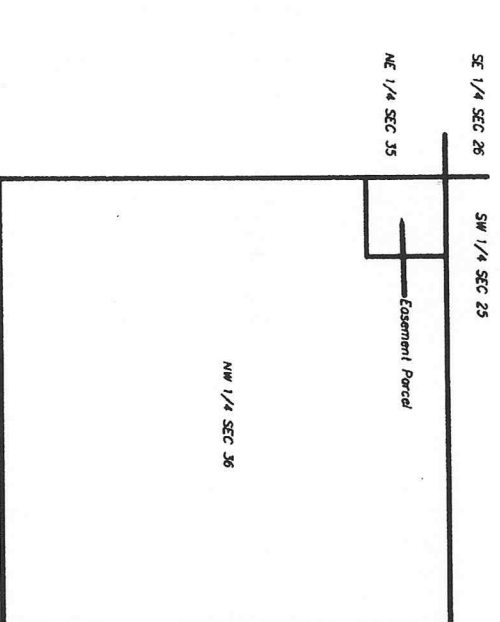
State of Kansas  
County of McPherson SS

I, Chad R. Abbott, L.S. #1340 do hereby certify that this drawing is a true representation of a Easement Survey performed by me or under my direct supervision and that I am a duly licensed Land Surveyor in the State of Kansas.

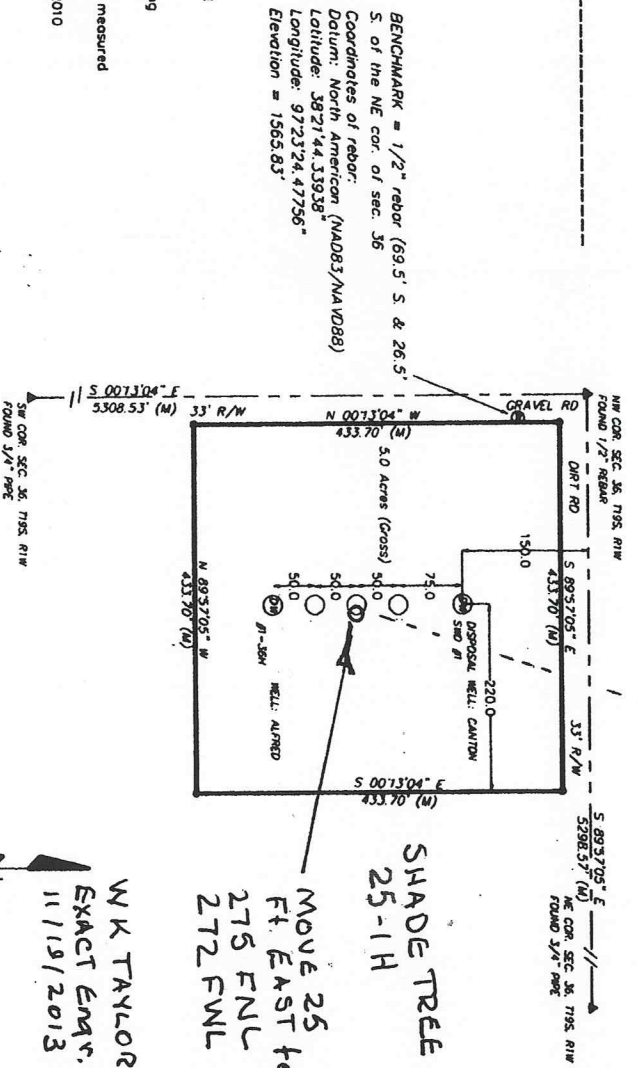
Parcel described as:  
A tract located in the Northwest Quarter (NW/4) of Section 36, Township 19 South, Range 1 West, described as beginning at the Northwest corner of said NW/4, thence South 466.7 feet, thence East 466.7 feet, thence North 466.7 feet to the North line of said NW/4, thence West 466.7 feet to the point of beginning, and containing approximately 5 acres, more or less. Sedgwick County, Kansas.

Date of Survey: July 1, 2010

Chad R. Abbott, L.S. #1340



Vicinity Map  
Laterrel under  
Sec 25



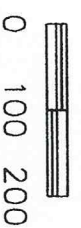
- NOTES:
- 1) Unplatted Easements of Record if any, are not shown hereon
  - 2) Property Improvements, Including Fences, are not shown hereon
  - 3) All bearings and distances are measured
  - 4) Date of survey = 7-01-2010
  - 5) Date of Preparation = 7-06-2010

FILE: C:\drawings\boundary\12000\A12016Rev3



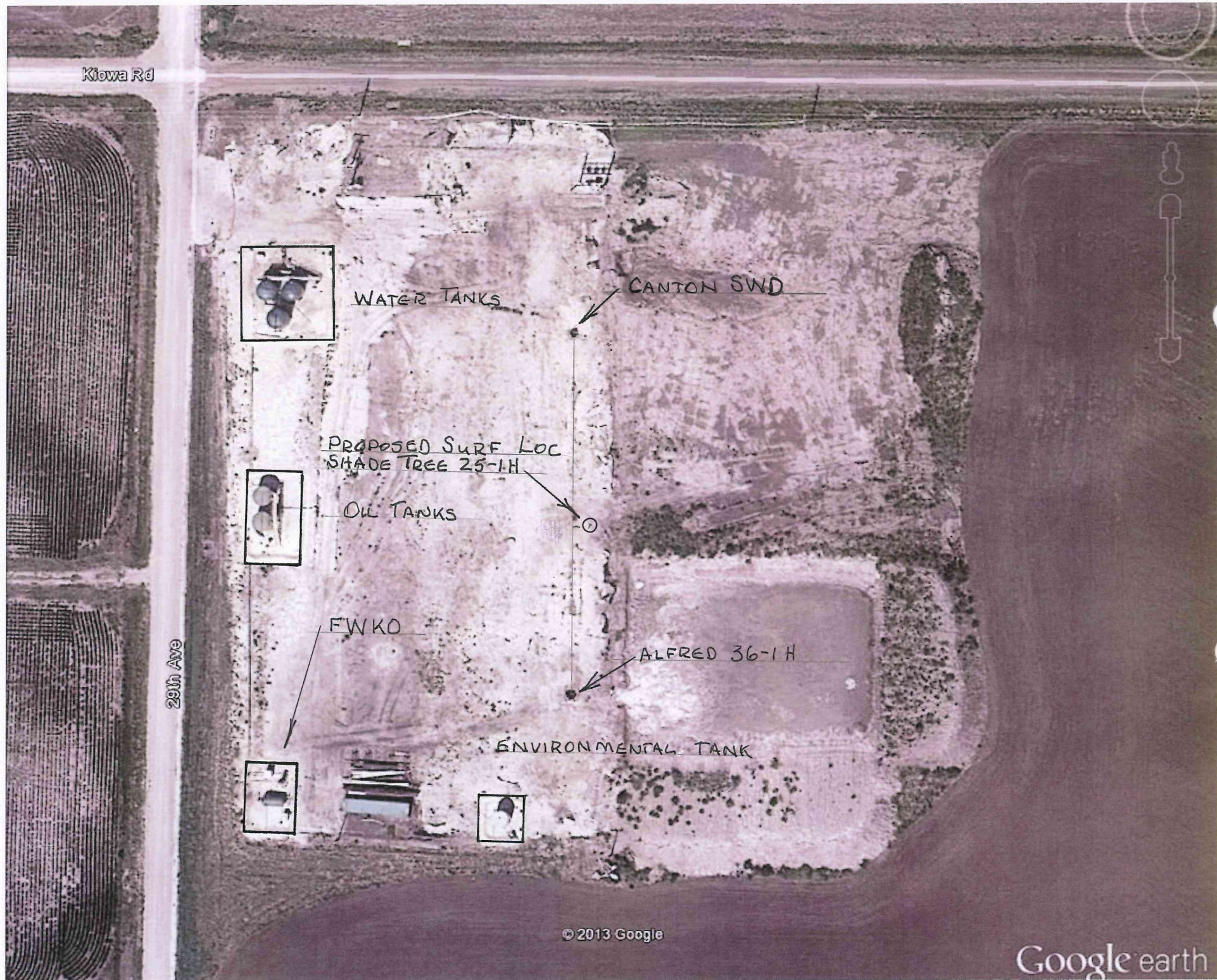
416 S. MARKET WICHITA, KS 67202  
PH 316.262.2262 FAX 316.262.2268  
surveyors@benchmarkks.net

LEGEND:  
(M) = MEASURED OR CALCULATED FROM MEASUREMENT  
● = SET 1/2" REBAR  
▲ = FOUND SECTION CORNER (AS NOTED)  
⊕ = DISPOSAL WELL



Dwn. By: CRA  
Dwg. No. A12016  
Aprd. By: CRA  
Scale: 1" = 200'

W K TAYLOR  
EXACT ENGR.  
11/19/2013



Kiowa Rd

29th Ave



WATER TANKS

CANTON SWD

PROPOSED SURF LOC  
SHADE TREE 25-1H



OIL TANKS

FWKO

ALFRED 36-1H

ENVIRONMENTAL TANK





Shade Tree 25-1H Well  
SURFACE LOCATION

Off Site Reserve Pit for Orca  
Shade Tree 25-1H

Beginning at a point 33 ft East of Section Line,  
3440 ft from North Section Line, section 36  
R19S - R01W McPherson County, Kansas  
Thence 150 ft North  
Thence 300 ft East  
Thence 300 ft South  
Thence 300 ft West  
Thence 150 ft North to pt of beginning

Locations described by  
Wayne K. Taylor  
EXACT Engineering, Inc

36





Scientific Drilling

## **Orca Operating Company**

McPherson County Kansas

Section 36-19S-1W

Shade Tree Farms 25-1H

Sump Hole

Plan: Plan 1

## **Standard Planning Report**

16 October, 2013



Scientific Drilling





<b>Database:</b>	Okahoma District	<b>Local Co-ordinate Reference:</b>	Well Shade Tree Farms 25-1H
<b>Company:</b>	Orca Operating Company	<b>TVD Reference:</b>	Shade Tree Farms 25-1H 1566' GL + 16' RKB @ 1582.0usft. (Original Well Elev)
<b>Project:</b>	McPherson County Kansas	<b>MD Reference:</b>	Shade Tree Farms 25-1H 1566' GL + 16' RKB @ 1582.0usft. (Original Well Elev)
<b>Site:</b>	Section 36-19S-1W	<b>North Reference:</b>	True
<b>Well:</b>	Shade Tree Farms 25-1H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Sump Hole		
<b>Design:</b>	Plan 1		

<b>Project:</b>	McPherson County Kansas, McPherson County, South Central Kansas	<b>System Datum:</b>	Mean Sea Level
<b>Map System:</b>	US State Plane 1983		
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Kansas Southern Zone		

<b>Site</b>	Section 36-19S-1W	<b>Northing:</b>	1,931,663.88 usft	<b>Latitude:</b>	38° 21' 44.339 N
<b>Site Position:</b>	Lat/Long	<b>Easting:</b>	1,630,558.55 usft	<b>Longitude:</b>	97° 23' 24.163 W
<b>Position Uncertainty:</b>	0.0 usft	<b>Slot Radius:</b>	0 "	<b>Grid Convergence:</b>	0.68 °

<b>Well</b>	Shade Tree Farms 25-1H, Mississippian	<b>Latitude:</b>	1,931,764.18 usft	<b>Longitude:</b>	38° 21' 45.327 N
<b>Well Position</b>	+N/-S 100.0 usft	<b>Easting:</b>	1,630,582.35 usft	<b>Ground Level:</b>	97° 23' 24.163 W
<b>Position Uncertainty</b>	+E/-W 25.0 usft	<b>Wellhead Elevation:</b>	1,582.0 usft		1,566.0 usft

<b>Wellbore</b>	Sump Hole				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	10/15/2013	3.99	66.30	52,423

<b>Design</b>	Plan 1				
<b>Audit Notes:</b>		<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.0
<b>Version:</b>		<b>Depth From (TVD) (usft)</b>	+N/-S (usft)	<b>+E/-W (usft)</b>	<b>Direction (°)</b>
<b>Vertical Section:</b>		0.0	0.0	0.0	20.95

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00
1,825.0	0.00	0.00	1,825.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00
2,625.0	60.00	20.95	2,486.6	366.7	136.6	7.50	7.50	0.00	20.95	
3,439.8	60.00	20.95	2,894.0	1,015.7	388.9	0.00	0.00	0.00	0.00	
4,051.8	60.00	20.95	3,200.0	1,510.7	578.4	0.00	0.00	0.00	0.00	0.00 PBHL Shade Tree Fai



<b>Database:</b>	Oklahoma District	<b>Local Co-ordinate Reference:</b>	Well Shade Tree Farms 25-1H
<b>Company:</b>	Orca Operating Company	<b>TVD Reference:</b>	Shade Tree Farms 25-1H 1566' GL + 16' RKB @ 1582.0ustf (Original Well Elev)
<b>Project:</b>	McPherson County Kansas	<b>MD Reference:</b>	Shade Tree Farms 25-1H 1566' GL + 16' RKB @ 1582.0ustf (Original Well Elev)
<b>Site:</b>	Section 36-19S-1W	<b>North Reference:</b>	True
<b>Well:</b>	Shade Tree Farms 25-1H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Sump Hole		
<b>Design:</b>	Plan 1		

Measured Depth (ustf)	Inclination (°)	Azimuth (°)	Vertical Depth (ustf)	+N/S (ustf)	+E/W (ustf)	Vertical Section (ustf)	Dogleg Rate (°/100ustf)	Build Rate (°/100ustf)	Turn Rate (°/100ustf)
<b>Planned Survey</b>									
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>Canton SWD #1 Offset Well</b>									
1,825.0	0.00	0.00	1,825.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	5.63	20.95	1,899.9	3.4	1.3	3.7	7.50	7.50	0.00
2,000.0	13.13	20.95	1,998.5	18.6	7.1	20.0	7.50	7.50	0.00
2,100.0	20.63	20.95	2,094.1	45.7	17.5	49.0	7.50	7.50	0.00
2,200.0	28.13	20.95	2,185.1	84.2	32.3	90.2	7.50	7.50	0.00
2,300.0	35.63	20.95	2,270.0	133.5	51.1	143.0	7.50	7.50	0.00
2,400.0	43.13	20.95	2,347.2	192.7	73.8	206.4	7.50	7.50	0.00
2,500.0	50.63	20.95	2,415.5	260.8	99.9	279.3	7.50	7.50	0.00
2,600.0	58.13	20.95	2,473.7	336.7	128.9	360.5	7.50	7.50	0.00
2,625.0	60.00	20.95	2,486.6	356.7	136.6	382.0	7.50	7.50	0.00
2,700.0	60.00	20.95	2,524.1	417.4	159.8	446.9	0.00	0.00	0.00
2,800.0	60.00	20.95	2,574.1	498.3	190.8	533.5	0.00	0.00	0.00
2,900.0	60.00	20.95	2,624.1	579.1	221.7	620.1	0.00	0.00	0.00
3,000.0	60.00	20.95	2,674.1	660.0	252.7	706.7	0.00	0.00	0.00
3,100.0	60.00	20.95	2,724.1	740.9	283.7	793.3	0.00	0.00	0.00
3,200.0	60.00	20.95	2,774.1	821.8	314.6	879.9	0.00	0.00	0.00
3,300.0	60.00	20.95	2,824.1	902.6	345.6	966.5	0.00	0.00	0.00
3,400.0	60.00	20.95	2,874.1	983.5	376.6	1,053.1	0.00	0.00	0.00
3,439.8	60.00	20.95	2,894.0	1,015.7	388.9	1,087.6	0.00	0.00	0.00
3,500.0	60.00	20.95	2,924.1	1,064.4	407.5	1,139.7	0.00	0.00	0.00
3,600.0	60.00	20.95	2,974.1	1,145.3	438.5	1,226.3	0.00	0.00	0.00
3,700.0	60.00	20.95	3,024.1	1,226.2	469.4	1,312.9	0.00	0.00	0.00
3,800.0	60.00	20.95	3,074.1	1,307.0	500.4	1,399.6	0.00	0.00	0.00
3,900.0	60.00	20.95	3,124.1	1,387.9	531.4	1,486.2	0.00	0.00	0.00
4,000.0	60.00	20.95	3,174.1	1,468.8	562.3	1,572.8	0.00	0.00	0.00
4,051.8	60.00	20.95	3,200.0	1,510.7	578.4	1,617.6	0.00	0.00	0.00
<b>PBHL Shade Tree Farms 25-1H Sump</b>									

Design Targets												
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ustf)	+N/S (ustf)	+E/W (ustf)	Northing (ustf)	Easting (ustf)	Latitude	Longitude			
- hit/miss target	0.00	0.00	0.0	125.0	-25.0	1,931,888.87	1,630,555.87	38° 21' 46.563 N	97° 23' 24.477 W			
- Shape												
Canton SWD #1 Offset \												
- plan misses target center by 127.5ustf at 0.0ustf MD (0.0 TVD, 0.0 N, 0.0 E)												
- Circle (radius 46.8)												
PBHL Shade Tree Farm:												
- plan hits target center	0.00	0.00	3,200.0	1,510.7	578.4	1,933,281.64	1,631,142.72	38° 22' 0.261 N	97° 23' 16.901 W			
- Point												



Orca Operating Company  
 Shade Tree Farms 25-1H  
 McPherson County Kansas  
 Northing: 1931764.17  
 Easting: 1630582.36  
 Plan 1

WELL DETAILS: Shade Tree Farms 25-1H  
 Ground Level: 1566.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1931764.17	1630582.36	38° 21' 45.327 N	97° 23' 24.163 W	

SECTION DETAILS:

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
1825.0	0.00	0.00	1825.0	0.0	0.0	0.00	0.00	0.0	
2625.0	60.00	20.95	2486.6	356.7	136.6	7.50	20.95	382.0	
3439.8	60.00	20.95	2894.0	1015.7	388.9	0.00	0.00	1087.6	
4051.8	60.00	20.95	3200.0	1510.7	578.4	0.00	0.00	1617.6	PBHL Shade Tree Farms 25-1H Sump

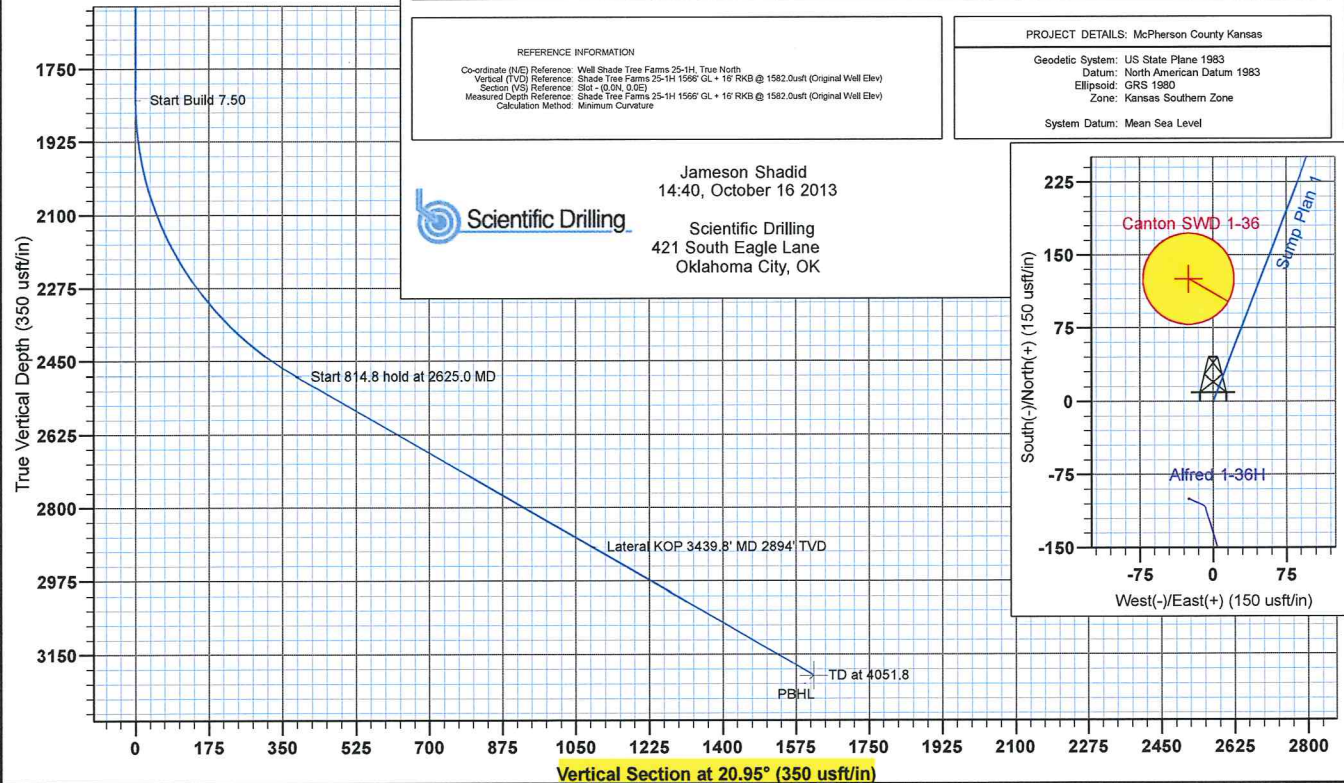
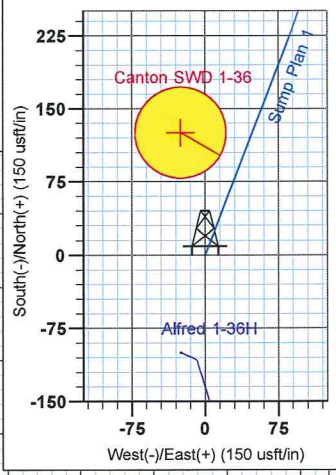
DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting
PBHL Shade Tree Farms 25-1H Sump	3200.0	1510.7	578.4	1933281.64	1631142.72
Canton SWD #1 Offset Well	0.0	125.0	-25.0	1931888.87	1630555.87

REFERENCE INFORMATION  
 Co-ordinate (NE) Reference: Well Shade Tree Farms 25-1H, True North  
 Vertical (VD) Reference: Shade Tree Farms 25-1H 1996' GL + 16' RKB @ 1582.0usft (Original Well Elev)  
 Section (VS) Reference: Slot = (0.0N, 0.0E)  
 Measured Depth Reference: Shade Tree Farms 25-1H 1996' GL + 16' RKB @ 1582.0usft (Original Well Elev)  
 Calculation Method: Minimum Curvature

PROJECT DETAILS: McPherson County Kansas  
 Geodetic System: US State Plane 1983  
 Datum: North American Datum 1983  
 Ellipsoid: GRS 1980  
 Zone: Kansas Southern Zone  
 System Datum: Mean Sea Level

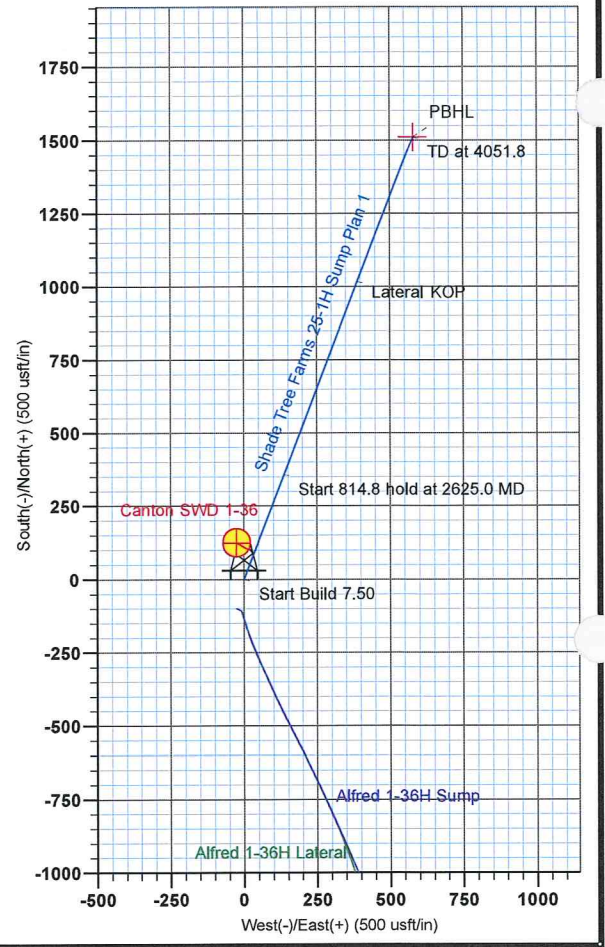
Jameson Shadid  
 14:40, October 16 2013  
 Scientific Drilling  
 421 South Eagle Lane  
 Oklahoma City, OK



To convert Magnetic North to Grid, Add 3.31°  
 To convert True North to Grid, Subtract 0.68°

Azimuths to True North  
 Magnetic North: 3.99°

Magnetic Field  
 Strength: 52423.0nT  
 Dip Angle: 66.30°  
 Date: 10/15/2013  
 Model: IGRF2010





Scientific Drilling

## **Orca Operating Company**

McPherson County Kansas

Section 36-19S-1W

Shade Tree Farms 25-1H

Original Wellpath

Plan: Plan 1

## **Standard Planning Report**

16 October, 2013



Scientific Drilling



<b>Database:</b>	Oklahoma District	<b>Local Co-ordinate Reference:</b>	Well Shade Tree Farms 25-1H
<b>Company:</b>	Orca Operating Company	<b>TVD Reference:</b>	Shade Tree Farms 25-1H 1566' GL + 16' RKB
<b>Project:</b>	McPherson County Kansas	<b>MID Reference:</b>	@ 1582.0usft (Original Well Elev)
<b>Site:</b>	Section 36-19S-1W	<b>North Reference:</b>	Shade Tree Farms 25-1H 1566' GL + 16' RKB
<b>Well:</b>	Shade Tree Farms 25-1H	<b>Survey Calculation Method:</b>	@ 1582.0usft (Original Well Elev)
<b>Wellbore:</b>	Original Wellpath		True
<b>Design:</b>	Plan 1		Minimum Curvature

<b>Project</b>	McPherson County Kansas, McPherson County, South Central Kansas	<b>System Datum:</b>	Mean Sea Level
<b>Map System:</b>	US State Plane 1983		
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Kansas Southern Zone		

<b>Site</b>	Section 36-19S-1W	<b>Northing:</b>	1,931,663.88 usft	<b>Latitude:</b>	38° 21' 44.327 N
<b>Site Position:</b>	Lat/Long	<b>Easting:</b>	1,630,558.55 usft	<b>Longitude:</b>	97° 23' 24.163 W
<b>Position Uncertainty:</b>	0.0 usft	<b>Slot Radius:</b>	0 "	<b>Grid Convergence:</b>	0.68 °

<b>Well</b>	Shade Tree Farms 25-1H, Mississippi	<b>Northing:</b>	1,931,764.18 usft	<b>Latitude:</b>	38° 21' 45.327 N	
<b>Well Position</b>	+N/-S	<b>100.0 usft</b>	<b>Easting:</b>	1,630,582.35 usft	<b>Longitude:</b>	97° 23' 24.163 W
	+E/-W	<b>25.0 usft</b>	<b>Wellhead Elevation:</b>	1,582.0 usft	<b>Ground Level:</b>	1,566.0 usft

<b>Wellbore</b>	Original Wellpath				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	10/15/2013	3.99	66.30	52,423

<b>Design</b>	Plan 1				
<b>Audit Notes:</b>		<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	3,439.8
<b>Version:</b>					
<b>Vertical Section:</b>		<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>
		0.0	0.0	0.0	20.95

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
3,439.8	60.00	20.95	2,894.0	1,015.7	388.9	0.00	0.00	0.00	0.00	0.00
3,561.0	90.00	20.95	2,925.0	1,123.8	430.2	24.76	24.76	0.00	-0.01	0.00
6,185.6	90.00	20.95	2,925.0	3,575.0	1,368.5	0.00	0.00	0.00	0.00	660 FSL NVV/4 1000 F
6,209.6	90.00	20.95	2,925.0	3,597.4	1,377.1	0.00	0.00	0.00	0.00	PBHL Shade Tree Fai



**Database:** Oklahoma District  
**Company:** Orca Operating Company  
**Project:** McPherson County Kansas  
**Site:** Section 36-19S-1W  
**Well:** Shade Tree Farms 25-1H  
**Wellbore:** Original Wellpath  
**Design:** Plan 1

**Local Co-ordinate Reference:**  
**TVD Reference:** Well Shade Tree Farms 25-1H  
**MID Reference:** Shade Tree Farms 25-1H 1566' GL + 16' RKB  
**North Reference:** @ 1582.0usft (Original Well Elev)  
**Survey Calculation Method:** Shade Tree Farms 25-1H 1566' GL + 16' RKB  
 @ 1582.0usft (Original Well Elev)

**Well Shade Tree Farms 25-1H**  
 True  
 Minimum Curvature

Planned Survey	Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/S (usft)	+E/W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
Canton SWD 1-36 Offset Well	3,439.8	60.00	20.95	2,894.0	1,015.7	388.9	1,087.6	0.00	0.00	0.00
	3,500.0	74.80	20.95	2,917.0	1,067.5	408.7	1,143.1	24.76	24.76	0.00
	3,561.0	90.00	20.95	2,925.0	1,123.8	430.2	1,203.3	24.76	24.76	0.00
LP Shade Tree Farms 25-1H	3,600.0	90.00	20.95	2,925.0	1,160.2	444.2	1,242.3	0.00	0.00	0.00
	3,700.0	90.00	20.95	2,925.0	1,253.6	479.9	1,342.3	0.00	0.00	0.00
	3,800.0	90.00	20.95	2,925.0	1,347.0	515.7	1,442.3	0.00	0.00	0.00
	3,900.0	90.00	20.95	2,925.0	1,440.4	551.4	1,542.3	0.00	0.00	0.00
	4,000.0	90.00	20.95	2,925.0	1,533.8	587.2	1,642.3	0.00	0.00	0.00
	4,100.0	90.00	20.95	2,925.0	1,627.2	622.9	1,742.3	0.00	0.00	0.00
	4,200.0	90.00	20.95	2,925.0	1,720.6	658.7	1,842.3	0.00	0.00	0.00
	4,300.0	90.00	20.95	2,925.0	1,814.0	694.4	1,942.3	0.00	0.00	0.00
	4,400.0	90.00	20.95	2,925.0	1,907.4	730.2	2,042.3	0.00	0.00	0.00
	4,500.0	90.00	20.95	2,925.0	2,000.7	765.9	2,142.3	0.00	0.00	0.00
4,600.0	90.00	20.95	2,925.0	2,094.1	801.7	2,242.3	0.00	0.00	0.00	
4,700.0	90.00	20.95	2,925.0	2,187.5	837.4	2,342.3	0.00	0.00	0.00	
4,800.0	90.00	20.95	2,925.0	2,280.9	873.2	2,442.3	0.00	0.00	0.00	
4,900.0	90.00	20.95	2,925.0	2,374.3	908.9	2,542.3	0.00	0.00	0.00	
5,000.0	90.00	20.95	2,925.0	2,467.7	944.7	2,642.3	0.00	0.00	0.00	
5,100.0	90.00	20.95	2,925.0	2,561.1	980.4	2,742.3	0.00	0.00	0.00	
5,200.0	90.00	20.95	2,925.0	2,654.5	1,016.2	2,842.3	0.00	0.00	0.00	
5,300.0	90.00	20.95	2,925.0	2,747.9	1,051.9	2,942.3	0.00	0.00	0.00	
5,400.0	90.00	20.95	2,925.0	2,841.3	1,087.7	3,042.3	0.00	0.00	0.00	
5,500.0	90.00	20.95	2,925.0	2,934.7	1,123.4	3,142.3	0.00	0.00	0.00	
5,600.0	90.00	20.95	2,925.0	3,028.1	1,159.2	3,242.3	0.00	0.00	0.00	
5,700.0	90.00	20.95	2,925.0	3,121.4	1,194.9	3,342.3	0.00	0.00	0.00	
5,800.0	90.00	20.95	2,925.0	3,214.8	1,230.7	3,442.3	0.00	0.00	0.00	
5,900.0	90.00	20.95	2,925.0	3,308.2	1,266.4	3,542.3	0.00	0.00	0.00	
6,000.0	90.00	20.95	2,925.0	3,401.6	1,302.2	3,642.3	0.00	0.00	0.00	
6,100.0	90.00	20.95	2,925.0	3,495.0	1,337.9	3,742.3	0.00	0.00	0.00	
6,185.6	90.00	20.95	2,925.0	3,575.0	1,368.5	3,828.0	0.00	0.00	0.00	
660 FSL NW/4 1000 FEL NW/4	6,200.0	90.00	20.95	2,925.0	3,588.4	1,373.6	3,842.3	0.00	0.00	0.00
	6,209.6	90.00	20.95	2,925.0	3,597.4	1,377.1	3,852.0	0.00	0.00	0.00
PBHL Shade Tree Farms 25-1H Lateral										



<b>Database:</b>	Oklahoma District	<b>Local Co-ordinate Reference:</b>	Well Shade Tree Farms 25-1H
<b>Company:</b>	Orca Operating Company	<b>TVD Reference:</b>	Shade Tree Farms 25-1H 1566' GL + 16' RKB @ 1582.0usft (Original Well Elev)
<b>Project:</b>	McPherson County Kansas	<b>MD Reference:</b>	Shade Tree Farms 25-1H 1566' GL + 16' RKB @ 1582.0usft (Original Well Elev)
<b>Site:</b>	Section 36-19S-1W	<b>North Reference:</b>	True
<b>Well:</b>	Shade Tree Farms 25-1H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Original Wellpath		
<b>Design:</b>	Plan 1		

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/S (usft)	+E/W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
Canton SWD 1-36 Offse	0.00	0.00	0.0	125.0	-25.0	1,931,888.87	1,630,555.87	38° 21' 46.563 N	97° 23' 24.477 W
- plan misses target center by 3056.1usft at 3439.8usft MD (2894.0 TVD, 1015.7 N, 388.9 E)									
- Circle (radius 46.8)									
LP Shade Tree Farms 2i	0.00	0.00	2,925.0	1,123.8	430.2	1,932,892.99	1,630,999.19	38° 21' 56.437 N	97° 23' 18.761 W
- plan hits target center									
- Point									
PBHL Shade Tree Farm:									
- plan hits target center	0.00	0.00	2,925.0	3,597.4	1,377.1	1,935,377.73	1,631,916.51	38° 22' 20.889 N	97° 23' 6.871 W
- Point									
660 FSL NW/4 1000 FEI	0.00	0.00	2,925.0	3,575.0	1,368.5	1,935,355.21	1,631,908.20	38° 22' 20.668 N	97° 23' 6.979 W
- plan hits target center									
- Point									



Orca Operating Company  
 Shade Tree Farms 25-1H  
 McPherson County Kansas  
 Northing: 1931764.17  
 Easting: 1630582.36  
 Plan 1

**WELL DETAILS:** Shade Tree Farms 25-1H

		Ground Level: 1566.0			
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	1931764.17	1630582.36	38° 21' 45.327 N	97° 23' 24.163 W

**SECTION DETAILS:**

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
3439.8	60.00	20.95	2894.0	1015.7	388.9	0.00	0.00	1087.8	
3561.0	90.00	20.95	2925.0	1123.8	430.2	24.76	-0.01	1203.3	
6185.6	90.00	20.95	2925.0	3575.0	1388.5	0.00	0.00	3828.0	660 FSL NW/4 1000 FEL NW/4
6209.6	90.00	20.95	2925.0	3597.4	1377.1	0.00	0.00	3852.0	PBHL Shade Tree Farms 25-1H Lateral

**DESIGN TARGET DETAILS**

Name	TVD	+N/-S	+E/-W	Northing	Easting
660 FSL NW/4 1000 FEL NW/4	2925.0	3575.0	1368.5	1935355.21	1631908.20
PBHL Shade Tree Farms 25-1H Lateral	2925.0	3597.4	1377.1	1935377.72	1631916.51
Canton SWD 1-36 Offset Well	0.0	125.0	-25.0	1931888.87	1630555.87
LP Shade Tree Farms 25-1H	2925.0	1123.8	430.2	1932892.99	1630999.20

**REFERENCE INFORMATION**

Co-ordinate (N/E) Reference: Well Shade Tree Farms 25-1H, True North  
 Vertical (TVD) Reference: Shade Tree Farms 25-1H 1566' GL + 16' RKB @ 1582.0usft (Original Well Elev)  
 Section (V/S) Reference: Sit - (0.00, 0.06)  
 Measured Depth Reference: Shade Tree Farms 25-1H 1566' GL + 16' RKB @ 1582.0usft (Original Well Elev)  
 Calculation Method: Minimum Curvature

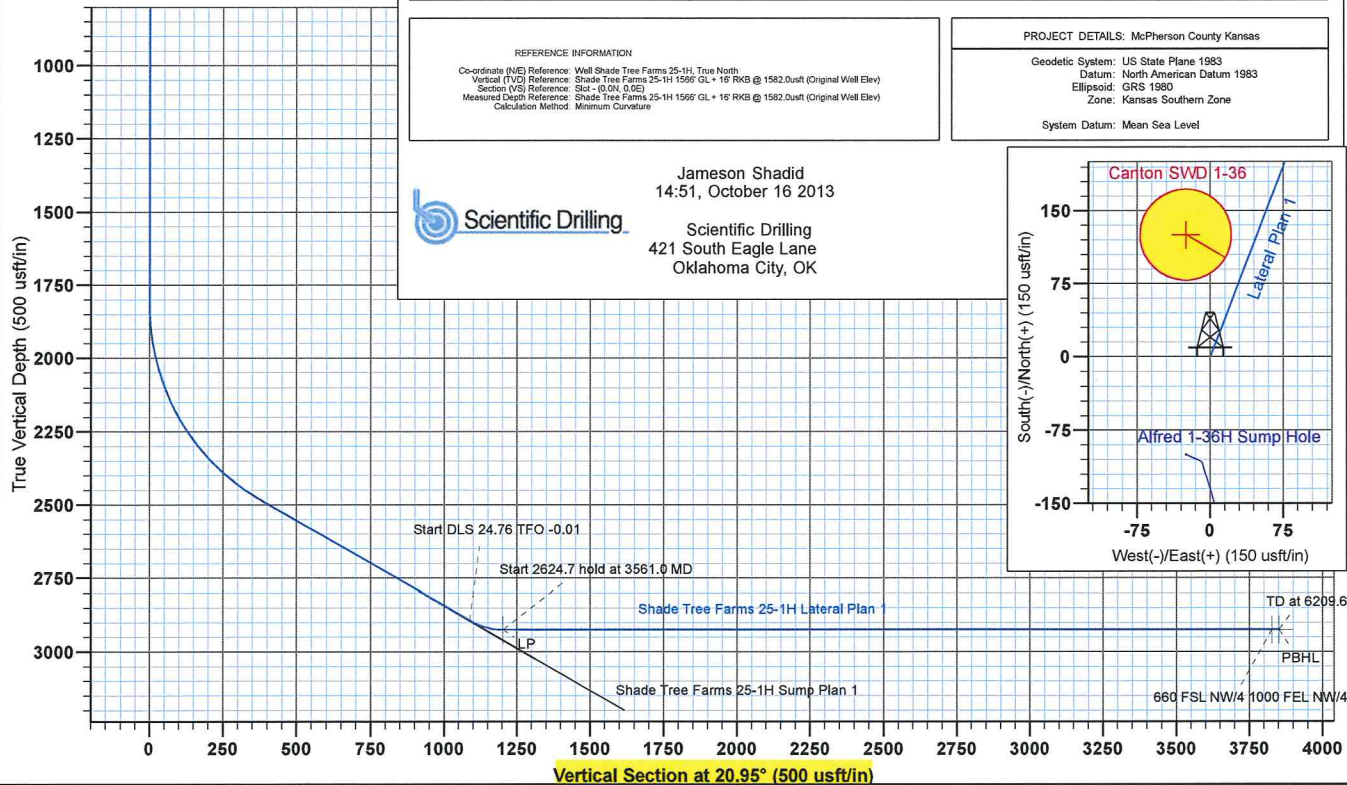
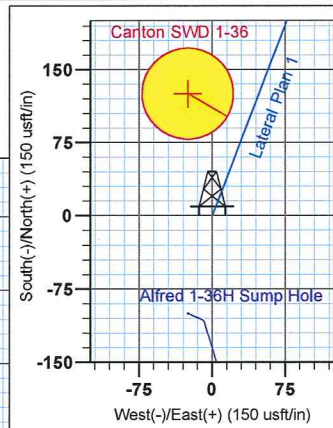
**PROJECT DETAILS:** McPherson County Kansas

Geodetic System: US State Plane 1983  
 Datum: North American Datum 1983  
 Ellipsoid: GRS 1980  
 Zone: Kansas Southern Zone  
 System Datum: Mean Sea Level

Jameson Shadid  
 14:51, October 16 2013



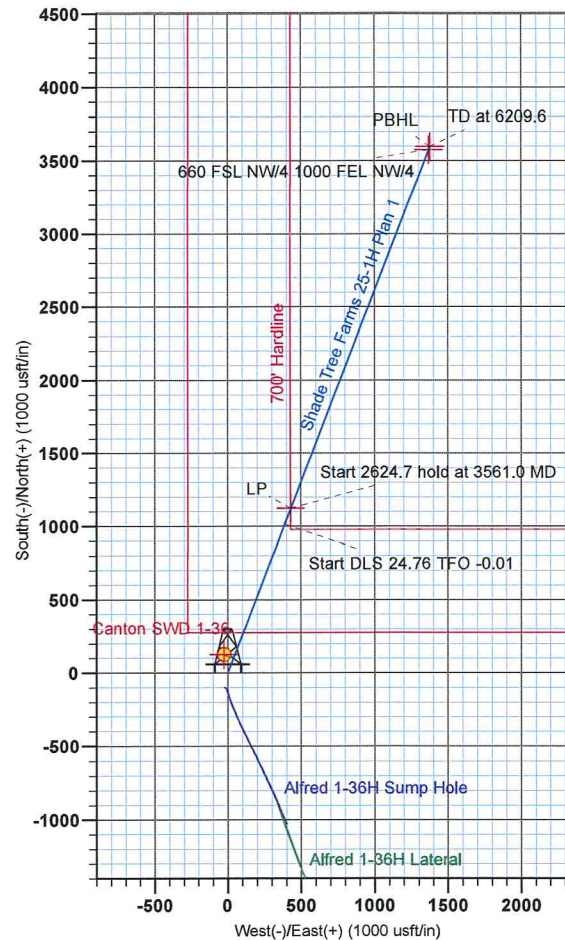
Scientific Drilling  
 421 South Eagle Lane  
 Oklahoma City, OK



To convert Magnetic North to Grid, Add 3.31°  
 To convert True North to Grid, Subtract 0.68°

Azimuths to True North  
 Magnetic North: 3.99°

Magnetic Field  
 Strength: 52423.0snT  
 Dip Angle: 66.30°  
 Date: 10/15/2013  
 Model: IGRF2010





Orca Operating Company has acquired the leasehold interest necessary to drill a horizontal producing well in the Mississippian formation in a 640 acre unit underlying Section 25, Township 9 South, Range 1 West in McPherson County, Kansas. Orca intends to, by filing of a Declaration of Unitization Instrument of record, unitize and consolidate the oil and gas rights in and to the oil and gas leasehold estate created by the oil and gas leases listed below to form an oil and gas unit of approximately 640 acres.

#### Oil and Gas Leases

##### LEASE NO. 1:

Date: December 28, 1973  
Recorded: Book 202 at Page 243  
Lessors: James Peters and Marjorie Peters, husband and wife  
Description: S/2 NW/4, Section 25-T19S-R1W,

##### LEASE NO. 2:

Date: April 19, 2013  
Recorded: Book 657 at Page 6112  
Lessors: Anthony J. Sullivan and Charlsie M. Sullivan, his wife  
Description: Sullivan Tract in SW/4 Section 25-T19S-R1W,  
More fully described as:  
Beginning at the SW/c SW/4; North 589.43 feet  
for a POB; North 345.57 feet; East 833.79 feet;  
South 329.53 feet; West 833.63 feet to the POB

##### LEASE NO. 3:

Date: April 24, 2013  
Recorded: Book 657 at Page 4347  
Lessors: Shade Tree Farms, L.P., a Kansas limited partnership  
Description: North 53.33 acres of SW/4, Section 25-T19S-R1W

##### LEASE NO. 4:

Date: April 27, 2009  
Recorded: Book 647 at Page 4981  
Lessors: Jean Koehn, Trustee of the Jean Koehn Revocable Trust dated 4/23/1997  
Description: W/2 SE/4, Section 25-T19S-R1W

##### LEASE NO. 5:

Date: April 22, 2009  
Recorded: Book 657 at Page 4973  
Lessors: Leroy E. & Doris L. Bitikofer Revocable Living Trust, dated January 15, 2007  
Description: NE/4 SE/4, Section 25-T19S-R1W

##### LEASE NO. 6:

Date: April 22, 2009  
Recorded: Book 647 at Page 4971  
Lessors: Juanita Koehn, a widow  
Description: SE/4 SE/4, Section 25-T19S-R1W

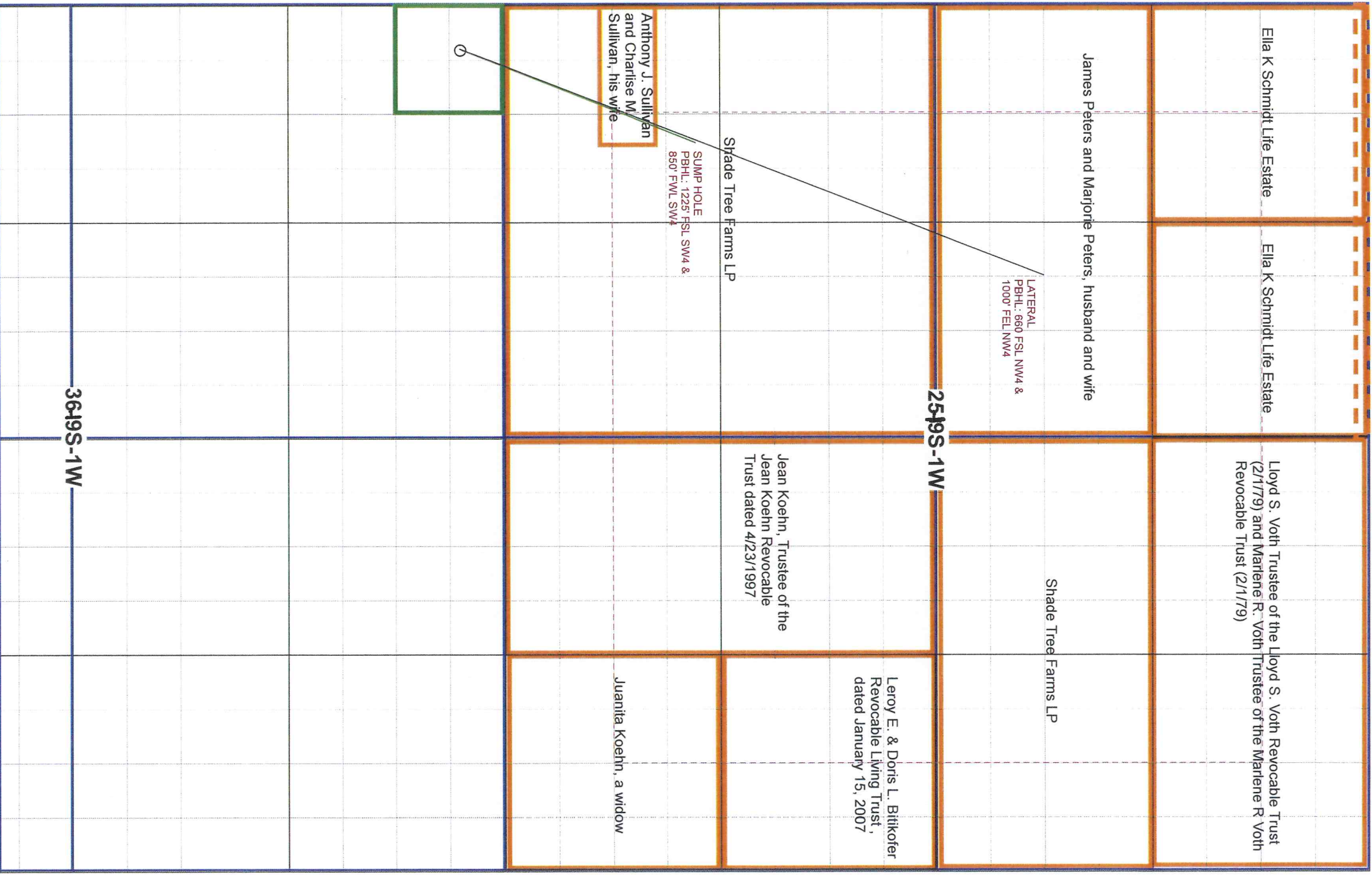
LEASE NO. 7:  
Date: April 15, 2009  
Recorded: Book 647 at Page 4987  
Lessors: DuMont K. Schmidt as Attorney-in-Fact for Ella M. Schmidt a/k/a Ella K. Schmidt,  
a widow  
Description: NE/4 NW/4, NW/4 NW/4, Section 25-T19S-R1W

LEASE NO. 8:  
Date: April 3, 2009  
Recorded: Book 647 at Page 2778  
Lessors: Lloyd S. Voth Trustee of the Lloyd S. Voth Revocable Trust dated 2/1/79 and  
Marlene R. Voth Trustee of the Marlene R. Voth Revocable Trust dated 2/1/79  
Description: N/2 NE/4, Section 25-T19S-R1W

LEASE NO. 9:  
Date: April 6, 2009  
Recorded: Book 647 at Page 2780  
Lessors: Shade Tree Farms LP  
Description: S/2 NE/4, Sec. 25;E/2, Sec. 36;in T19S-R1W

LEASE NO. 10:  
Date: August 17, 2009  
Recorded: Book 648 at Page 2449  
Lessors: Shade Tree Farms LP  
Description: South 106.67 acres of the SW/4, Section 25-T19S-R1W

Two separate highway deeds issued to the Kansas Department of Transportation covering a total of 2.98 net mineral acres across the north 75 feet of the the NW NW & NE NW.



**RELEASE BY SURFACE OWNER****Surface Owner:**

Dennis E. Bitikofer and Mary J. Bitikofer, Trustees of the  
Dennis E. & Mary J. Bitikofer Rev. Living Trust dtd. Jan. 15, 2007  
1135 29<sup>th</sup> Street  
Canton, KS 67428

**Operator:**

Orca Operating Company, LLC  
427 S. Boston, Ste. 400  
Tulsa, OK 74103

**Effective Date:**

November 18, 2013

For adequate consideration, the receipt and sufficiency of which is acknowledged, Surface Owner, named above, releases and discharges in full, Operator, named above, and its officers, agents, contractors, subcontractors, employees, successors, and assigns, from any and all claims, demands, damages, liabilities, and causes of action caused by or arising from any injuries or damages of whatever nature, kind, or character sustained by Surface Owner personally, or to the property or lands of Surface Owner, as a result of the construction of an off-site reserve pit (the "Reserve Pit") to service the drilling of the ShadeTree No. 1-25H, with said Reserve Pit being located on the following lands in McPherson County, KS:

Township 19 South, Range 1 West  
S/2 Section 36

The consideration paid by Operator to Surface Owner at the time of delivery of this Release is accepted by Surface Owner as full and final payment, settlement, and discharge of all claims of whatever nature, kind, and character which Surface Owner may have against Operator related to the construction, use or closure and remediation of the Reserve Pit.

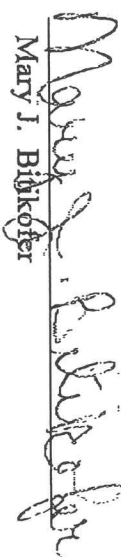
Upon abandonment of the property, Operator shall restore the surface of the land as nearly as is reasonably practical to the same condition the property was in prior to the commencement of construction of the Reserve Pit.

This Release is signed by Surface Owner as of the date beside the signature below but is effective for all purposes as of the Effective Date.

**SURFACE OWNER:**

By:   
Dennis E. Bitikofer

Date: 11-21-13

By:   
Mary J. Bitikofer

Date: 11-21-13

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

November 22, 2013

WADE CAGLE  
Orca Operating Company LLC  
427 S. BOSTON, STE 400  
TULSA, OK 74103

Re: Drilling Pit Application  
SHADE TREE 25-1H  
NW/4 Sec.36-19S-01W  
McPherson County, Kansas

Dear WADE CAGLE:

According to the drilling pit application referenced above, no earthen pits will be used at this location. Steel pits will be used. Please inform the Commission in writing as to which disposal well you utilized to dispose of the contents in the steel pits and the amount of fluid that was disposed. Please file form CDP-5 (August 2008), Exploration and Production Waste Transfer, within 30 days of fluid removal.

Should a haul-off pit be necessary please file form CDP-1 (April 2004), Application for Surface Pit, through KOLAR. This location will have to be inspected prior to approval of the haul-off pit application.

**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.

## HAUL-OFF PIT APPLICATION FILING REQUIREMENTS

### **82-3-607.**

### **DISPOSAL OF DIKE AND PIT CONTENTS.**

(a)  
pit

Each operator shall perform one of the following when disposing of dike or contents:

- (1) Remove the liquid contents to a disposal well or other oil and gas operation approved by the commission or to road maintenance or construction locations approved by the department;
- (2) dispose of reserve pit waste down the annular space of a well completed according to the alternate I requirements of K.A.R. 82-3-106, if the waste to be disposed of was generated during the drilling and completion of the well;

or

- (3) dispose of the remaining solid contents in any manner required by the commission. The requirements may include any of the following:
  - (A) Burial in place, in accordance with the grading and restoration requirements in K.A.R. 82-3-602 (f);
  - (B) removal and placement of the contents in an on-site disposal area approved by the commission;
  - (C) removal and placement of the contents in an off-site disposal area

on

lease

from

acreage owned by the same landowner or to another producing or unit operated by the same operator, if prior written permission from the landowner has been obtained; or

approved (D) removal of the contents to a permitted off-site disposal area  
by the department.

(b) Each violation of this regulation shall be punishable by the following:

- (1) A \$1,000 penalty for the first violation;
- (2) a \$2,500 penalty for the second violation; and
- (3) a \$5,000 penalty and an operator license review for the third violation.

**File Haul-Off Pit Application in KOLAR. Review the information below and attach all required documents to the pit application when submitting through KOLAR. This form will automatically generate and fill in from questions asked in KOLAR.**

Haul-off pit will be located in an on-site disposal area: \_\_\_Yes \_\_\_No

Haul-off pit is located in an off-site disposal area on acreage owned by the same landowner: \_\_\_Yes \_\_\_No If yes, written permission from the land owner must be obtained. Attach written permission to haul-off pit application.

Haul-off pit is located in an off-site disposal area on another **producing** lease or unit operated by the same operator: \_\_\_Yes \_\_\_No If yes, written permission from the land owner must be obtained. Attach permission and a copy of the lease assignment that covers the acreage where the haul-off pit is to be located, to the haul-off pit application.