

Well will not be drilled or Permit Expired Date: _

Signature of Operator or Agent:

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

SGA?

KANSAS CORPORATION COMMISSION 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

Expected Spud Date:	Spot Description:
month day	year Sec Twp S. R E W
OPERATOR: License#	(0/0/0/0) foot from N / S Line of Section
Name:	foot from E / W Line of Continu
Address 1:	L OFOTION D L D L O
Address 2:	
City: State: Zip:	
Contact Person:	Lease Name: Well #:
Phone:	
CONTRACTOR: License#	Field Name:
Name:	is also a restalled reputation.
variie.	Target Formation(s):
Well Drilled For: Well Class: Type Equip	
Oil Enh Rec Infield Mud I	Ground Surface Elevation:feet MSI
Gas Storage Pool Ext. Air Ro	otary Water well within one-quarter mile:
Disposal Wildcat Cable	Public water supply well within one mile: Yes Ves
Seismic ; # of Holes Other	Depth to bottom of fresh water:
Other:	Depth to bottom of usable water:
	Surface Pipe by Alternate: I III
If OWWO: old well information as follows:	Length of Surface Pipe Planned to be set:
Operator:	Length of Conductor Pipe (if any):
Well Name:	D : . IT . ID
Original Completion Date: Original Total Depth	
	Water Source for Drilling Operations:
Directional, Deviated or Horizontal wellbore?	Yes No Well Farm Pond Other:
If Yes, true vertical depth:	DWR Permit #:
Bottom Hole Location:	(Note: Apply for Permit with DWR)
KCC DKT #:	
	If Yes, proposed zone:
The condensioned beauty officers that the drilling accompletion	AFFIDAVIT
	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 n	net:
1. Notify the appropriate district office <i>prior</i> to spudding of	of well;
2. A copy of the approved notice of intent to drill shall be	
3. The minimum amount of surface pipe as specified belo	ow shall be set by circulating cement to the top; in all cases surface pipe shall be set
 The minimum amount of surface pipe as specified belothrough all unconsolidated materials plus a minimum of 	bw shall be set by circulating cement to the top; in all cases surface pipe shall be set of 20 feet into the underlying formation.
3. The minimum amount of surface pipe as specified below through all unconsolidated materials plus a minimum of the well is dry hole, an agreement between the operation.	ow shall be set by circulating cement to the top; in all cases surface pipe shall be set of 20 feet into the underlying formation. ator and the district office on plug length and placement is necessary prior to plugging;
3. The minimum amount of surface pipe as specified below through all unconsolidated materials plus a minimum of the well is dry hole, an agreement between the operation.5. The appropriate district office will be notified before we	by shall be set by circulating cement to the top; in all cases surface pipe shall be set of 20 feet into the underlying formation. ator and the district office on plug length and placement is necessary prior to plugging; all is either plugged or production casing is cemented in;
 The minimum amount of surface pipe as specified below through all unconsolidated materials plus a minimum of the well is dry hole, an agreement between the operation of the appropriate district office will be notified before well in an ALTERNATE II COMPLETION, production pipe shapes of the production of	by shall be set by circulating cement to the top; in all cases surface pipe shall be set of 20 feet into the underlying formation. ator and the district office on plug length and placement is necessary prior to plugging; sell is either plugged or production casing is cemented in; hall be cemented from below any usable water to surface within 120 DAYS of spud date.
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3. The minimum amount of surface pipe as specified below through all unconsolidated materials plus a minimum of the vector of the well is dry hole, an agreement between the operand of the well is dry hole, an agreement between the operand of the specified before well of the appropriate district office will be notified before well of an ALTERNATE II COMPLETION, production pipe short of pursuant to Appendix "B" - Eastern Kansas surface must be completed within 30 days of the spud date or the specified of the spe	w shall be set by circulating cement to the top; in all cases surface pipe shall be set of 20 feet into the underlying formation. ator and the district office on plug length and placement is necessary prior to plugging; sell is either plugged or production casing is cemented in; hall be cemented from below any usable water to surface within 120 DAYS of spud date. casing order #133,891-C, which applies to the KCC District 3 area, alternate II cementing the well shall be plugged. In all cases, NOTIFY district office prior to any cementing. 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;
3. The minimum amount of surface pipe as specified belot through all unconsolidated materials plus a minimum of the vector of the well is dry hole, an agreement between the operand of the well is dry hole, an agreement between the operand of the specified before well be notified before well of the appropriate district office will be notified before well of the specified within 30 days of the spud date of the specified within 30 days of the spud date of the specified of the spe	w shall be set by circulating cement to the top; in all cases surface pipe shall be set of 20 feet into the underlying formation. actor and the district office on plug length and placement is necessary prior to plugging; which is either plugged or production casing is cemented in; anall be cemented from below any usable water to surface within 120 DAYS of spud date. In all be cased as a plugged. In all cases, NOTIFY district office prior to any cementing the well shall be plugged. In all cases, NOTIFY district office prior to any cementing. 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;
3. The minimum amount of surface pipe as specified belot through all unconsolidated materials plus a minimum of the very specified below through all unconsolidated materials plus a minimum of the very specified before well appropriate district office will be notified before well to appropriate district office will be notified before well appropriate district office will be notified before well appropriate district office will be notified before the notified before the notified before appropriate district office will be notified before the	Remember to: - File Certification of Compliance with the Kansas Surface Owner Notification Act (KSONA-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;
3. The minimum amount of surface pipe as specified belot through all unconsolidated materials plus a minimum of the vector of the well is dry hole, an agreement between the operand of the well is dry hole, an agreement between the operand of the specified before well be notified before well be notified before well of the specified before well of the specified before well of the specified of th	Remember to: - File Certification of Compliance with the Kansas Surface Owner Notification Act (KSONA-1) with Intent to Drill; - File Completion Form ACO-1 within 120 days of spud date; - File acreage attribution plug to the Korn plught of the CP-4) after plugging is completed (within 60 days); - Submit plugging report (CP-4) after plugging is completed (within 60 days);
3. The minimum amount of surface pipe as specified belot through all unconsolidated materials plus a minimum of the very specified belot through all unconsolidated materials plus a minimum of the very specified before well appropriate district office will be notified before well to the appropriate district office will be notified before well appropriate district office will be notified before well appropriate district office will be notified before well appropriate district office will be notified before	w shall be set by circulating cement to the top; in all cases surface pipe shall be set of 20 feet into the underlying formation. actor and the district office on plug length and placement is necessary prior to plugging; all is either plugged or production casing is cemented in; anall be cemented from below any usable water to surface within 120 DAYS of spud date. casing order #133,891-C, which applies to the KCC District 3 area, alternate II cementing the well shall be plugged. In all cases, NOTIFY district office prior to any cementing. 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.
3. The minimum amount of surface pipe as specified belot through all unconsolidated materials plus a minimum of the vector of the well is dry hole, an agreement between the operand of the well is dry hole, an agreement between the operand of the specified before well be notified before well of the appropriate district office will be notified before well of the specified will be notified wi	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 acreage attribution plua to the Konsas Pion of Act (KSOna) in South Pion (File Completion Form ACO-1 within 120 days of spud date; - File acreage attribution plua taccording to sompleted (within 60 days);

Side Two



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: _				Location of We	ell: County:
Lease:					feet from N / S Line of Section
					feet from E / W Line of Section
Well Number:Field:					
				is occion.	Regular or Irregular
QTR/QTR/	QTR/QTR of acre	eage:		_	
					rregular, locate well from nearest corner boundary. r used: NE NW SE SW
				PLAT	
	Show loc	ation of the well. Sho	w footage to the neare		lary line. Show the predicted locations of
	lease roads, tan	k batteries, pipelines a		-	as Surface Owner Notice Act (House Bill 2032).
			You may attach	a separate plat if desii	red.
	:	: :	:	: :	
	:		:		LEGEND
	:	: :	:	: :	LEGEND
		· · · · · · · · · · · · · · · · · · ·		:	O Well Location
					Tank Battery Location
					Pipeline Location
					•
					Electric Line Location
					Lease Road Location
	:		:		
	:		:		EXAMPLE : :
	•	• •	· ·	• •	
			14		
	:		:		
					••••••
					1980' FSL
	: : : : : : : : : : : : : : : : : : :			: :	
378 ft	 ⊙ :				CEMARD CO. 2200' FEL
	T				SEWARD CO. 3390' FEL

330 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.

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

- 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.



KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

066918

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):
Type of Pit: Emergency Pit Burn Pit Settling Pit Drilling Pit Workover Pit Haul-Off Pit (If WP Supply API No. or Year Drilled)	Pit is: Proposed Existing If Existing, date constructed: Pit capacity: (bbls)		SecTwpR East WestFeet from North / South Line of SectionFeet from East / West Line of SectionCounty
Is the pit located in a Sensitive Ground Water A	rea? Yes	No	Chloride concentration: mg/l (For Emergency Pits and Settling Pits only)
Is the bottom below ground level?			How is the pit lined if a plastic liner is not used?
Pit dimensions (all but working pits):	Length (fee	et)	Width (feet) N/A: Steel Pits
If the pit is lined give a brief description of the li material, thickness and installation procedure.	om ground level to dee	Describe proce	dures for periodic maintenance and determining any special monitoring.
Distance to nearest water well within one-mile of pit:		Depth to shallo Source of infor	west fresh water feet. mation:
feet Depth of water wellfeet		measured	well owner electric log 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 s flow into the pit? Yes No Submitted Electronically		Type of materia Number of work Abandonment p Drill pits must b	over and Haul-Off Pits ONLY: all utilized in drilling/workover: king pits to be utilized: procedure: de closed within 365 days of spud date.
	KCC	OFFICE USE O	NLY
Date Received: Permit Num	ber:		Liner Steel Pit RFAC RFAS t Date: Lease Inspection: Yes No



Kansas Corporation Commission Oil & Gas Conservation Division

1066918

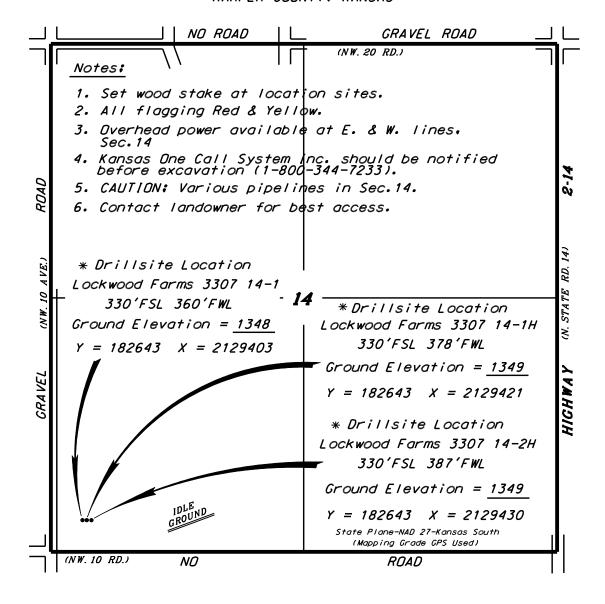
Form KSONA-1
July 2010
Form Must Be Typed
Form must be Signed
All blanks must be Filled

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.

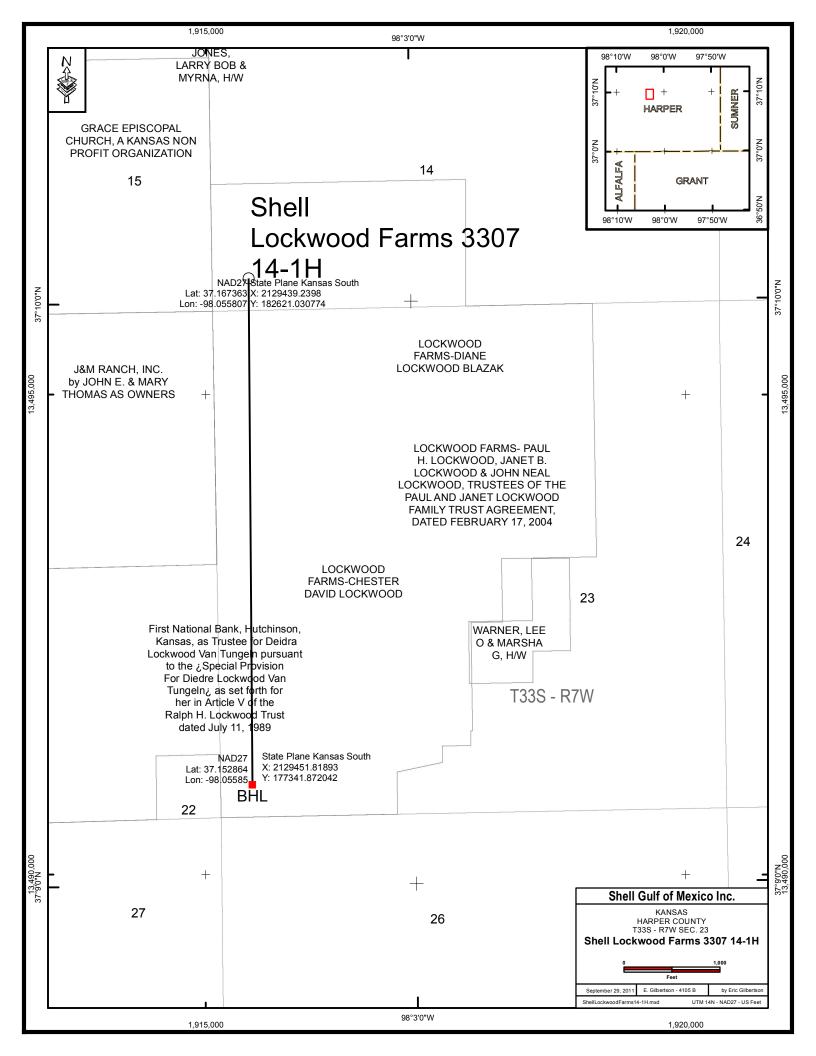
Select the corresponding form being filed: C-1 (Intent) CB-1	(Cathodic Protection Borehole Intent) T-1 (Transfer) CP-1 (Plugging Application)		
OPERATOR: License #	Well Location:		
	County:		
Address 1:	Lease Name: Well #:		
Address 2: State: Zip:+			
Contact Person:	If filing a Form T-1 for multiple wells on a lease, enter the legal description of the lease below:		
Phone: () Fax: ()			
Email Address:			
Surface Owner Information:			
Name:	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		
Address 1:			
Address 2:	county, and in the real estate property tax records of the county treasurer.		
City:			
the KCC with a plat showing the predicted locations of lease roads, tan are preliminary non-binding estimates. The locations may be entered of Select one of the following: I certify that, pursuant to the Kansas Surface Owner Notice A owner(s) of the land upon which the subject well is or will be I CP-1 that I am filing in connection with this form; 2) if the form form; and 3) my operator name, address, phone number, fax, a I have not provided this information to the surface owner(s). I a KCC will be required to send this information to the surface or	Act (House Bill 2032), I have provided the following to the surface ocated: 1) a copy of the Form C-1, Form CB-1, Form CB-1, Form CB-1, Form T-1, or Form being filed is a Form C-1 or Form CB-1, the plat(s) required by this and email address. acknowledge that, because I have not provided this information, the wner(s). To mitigate the additional cost of the KCC performing this gree, payable to the KCC, which is enclosed with this form.		
If choosing the second option, submit payment of the \$30.00 handling form and the associated Form C-1, Form CB-1, Form T-1, or Form CP-	fee with this form. If the fee is not received with this form, the KSONA-1 will be returned.		
Submitted Electronically			
[_		



* Elevations derived from National Geodetic Vertical Datum

^{*}Lantrolling data is based upon the best maps and photographs available to us and upon a regular section of land containing 640 acres.

Approximate section lines were determined using the normal standard of care of cilifield surveyors practicing in the state of Kanass. The section corners, which establish the precise section lines, were not necessarily located, and the exact location of the drillsite location in the section is not guaranteed. Therefore, the operator securing this service and accepting this plat and all other parties relying thereon agree to hold Central Kanass Dilfield Services, Inc. its officers and employees harmless from all losses, costs and expenses and said entities released from any liability.



PLANT > 2 S. 3+00 S. 2+00' S. 4+00 + <u>W. 6+00'</u> |--10' W. 4+00' ENTRANCE (FIELD ROUTE) + <u>W. 3+00'</u> + <u>W. 2+00'</u> + W. 1+00' WIDE SAND HAULERS ACCESS ROAD WELL PAD AREA FUTURE WELL WELL 1 + E. 0+00 SWD WELL 150' PROJ ENGR 18'-6' ELECTRICAL LINE (FIELD ROUTE) $\varphi \varphi \varphi$ 4 FACILITY
AREA) []© 000 + E. 2+00' GAS LINE (FIELD ROUTE) <u></u> SAND TRUCK EXIT (FIELD ROUTE) TRUCK ACCESS ROAD (FIELD ROUTE) RELEASED ONLY FOR: PROJ FAC ENGR ENGR + E. 4+00' EQUIPMENT:

1 12'-0" × 20'-0" HT. WATER TANK (TYP. 3)

2 12'-0" × 20'-0" HT. OIL TANK (TYP. 2)

3 12'-0" × 20'-0" HT. WET OIL

4 11'-2" × 12'-10" SHELL METERING SKID (FUTUR HE)

6 FREEWATER KNOCKOUT

6 FUEL GAS SCRUBBER SKID

7 4'-0" × 20'-0" HEATER TREATER

8 GENERATOR (TYP. 2)

9 TEST SEPARATOR (FUTURE) DATE 11'-2" \times 12'-10" SHELL METERING SKID (FUTURE) ENGR: MA JONES DATE: 08/2011 SHELL EXPLORATION & PRODUCTION COMPANY KS-1000-MX-4024-0001 EQUIPMENT PLOT PLAN
MULTIPLE WELL FACILITY
ARROWHEAD DEVELOPMENT
HARPER COUNTY, KANSÁS
JONES DON: Y WU
/2011 SCALE: 1" = 40' SCALE IN FEET

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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/

Sam Brownback, Governor

Mark Sievers, Chairman Ward Loyd, Commissioner Thomas E. Wright, Commissioner

November 07, 2011

Javier Macias Shell Gulf of Mexico Inc. 150 N DAIRY-ASHFORD (77079) PO BOX 576 (77001-0576) HOUSTON, TX 77001-0576

Re: Drilling Pit Application Lockwood Farms 3307 14-1H SW/4 Sec.14-33S-07W Harper County, Kansas

Dear Javier Macias:

District staff has inspected the above referenced location and has determined that the reserve pit shall be constructed <u>without slots</u>, 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.