KOLAR Document ID: 1421956

Confidentiality Requested:
☐ Yes ☑ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1
January 2018
Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 35106
Name: Petroleum Resource Management Company
Address 1: 3437 W 7th St
Address 2: #238
City: Ft Worth State: TX Zip: 76107 + 2718
Contact Person: Tim Weddle
Phone: (713) 906-8707
CONTRACTOR: License # 34036
Name: Leis Oil Services, LLC
Wellsite Geologist: Julie Shaffer
Purchaser: Maclaskey

Designate Type of Completion:
☑ New Well ☐ Re-Entry ☐ Workover
☑ Oil ☐ WSW ☐ SWD
☐ Gas ☐ DH ☐ EOR
☐ OG ☐ GSW
☐ CM *(Coal Bed Methane)*
☐ Cathodic ☐ Other *(Core, Expl., etc.)*:

If Workover/Re-entry: Old Well Info as follows:
Operator:
Well Name:
Original Comp. Date: Original Total Depth:
☐ Deepening ☐ Re-perf. ☐ Conv. to EOR ☐ Conv. to SWD
☐ Plug Back ☐ Liner ☐ Conv. to GSW ☐ Conv. to Producer

☐ Commingled Permit #:
☐ Dual Completion Permit #:
☐ SWD Permit #:
☐ EOR Permit #:
☐ GSW Permit #:

6/27/2018 Spud Date or Recompletion Date
6/28/2018 Date Reached TD
8/9/2018 Completion Date or Recompletion Date

API No.: 15-207-29560-00-00
Spot Description:
NE - SE - SW - NE Sec. 8 Twp. 24 S. R. 16 ☑ East ☐ West
2140 Feet from ☑ North / ☐ South Line of Section
1440 Feet from ☑ East / ☐ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☑ NE ☐ NW ☐ SE ☐ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Woodson
Lease Name: HAMMOND E Well #: 39-18
Field Name: Vernon
Producing Formation: Squirrel
Elevation: Ground: 1054 Kelly Bushing: 1059
Total Vertical Depth: 1102 Plug Back Total Depth: 1092
Amount of Surface Pipe Set and Cemented at: 42 Feet
Multiple Stage Cementing Collar Used? ☐ Yes ☑ No
If yes, show depth set: Feet
If Alternate II completion, cement circulated from:
feet depth to: w/ sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)
Chloride content: 1200 ppm Fluid volume: 75 bbls
Dewatering method used: Evaporated
Location of fluid disposal if hauled offsite:
Operator Name:
Lease Name: License #:
Quarter Sec. Twp. S. R. ☐ East ☐ West
County: Permit #:

AFFIDAVIT
I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY
☐ **Confidentiality Requested**
Date:
☐ **Confidential Release Date:**
☑ **Wireline Log Received** ☐ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☐ **I** ☑ **II** ☐ **III** **Approved by:** Karen Ritter **Date:** 10/23/2018

Operator Name: Petroleum Resource Management Company Lease Name: HAMMOND E Well #: 39-18

Sec. 8 Twp. 24 S. R. 16 ☑ East ☐ West County: Woodson

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken *(Attach Additional Sheets)*	☐ Yes	☑ No
Samples Sent to Geological Survey	☐ Yes	☑ No
Cores Taken	☐ Yes	☑ No
Electric Log Run	☑ Yes	☐ No
Geologist Report / Mud Logs	☑ Yes	☐ No

List All E. Logs Run:

DIL
CDL/CNL

☐ Log Formation (Top), Depth and Datum ☑ Sample

Name	Top	Datum
Upper Squirrel	1000	1054
Lower Squirrel	1045	1054

CASING RECORD ☑ New ☐ Used

Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	9.875	7	17	42	Portland	14	NA
Production	5.875	2.875	6.5	1097	Portland	130	NA

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
☐ Perforate ☐ Protect Casing ☐ Plug Back TD ☐ Plug Off Zone	-			
	-			

1. Did you perform a hydraulic fracturing treatment on this well? ☑ Yes ☐ No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? ☐ Yes ☑ No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? ☐ Yes ☐ No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/ Injection: 8/9/2018	Producing Method: ☐ Flowing ☑ Pumping ☐ Gas Lift ☐ Other *(Explain)*

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS:	METHOD OF COMPLETION:	PRODUCTION INTERVAL: Top	Bottom
☑ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*	☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*	998	1004
		1048	1052

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record *(Amount and Kind of Material Used)*
2	998	1004			
2	1046	1052			

TUBING RECORD: Size: Set At: Packer At:

Mail to: KCC - Conservation Division, 266 N. Main, Suite 220, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Petroleum Resource Management Company
Well Name	HAMMOND E 39-18
Doc ID	1421956

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	9.875	7	17	42	Portland	14	NA
Production	5.875	2.875	6.5	1097	Portland	130	NA

802 N. Industrial Rd.
P.O. Box 664
Iola, Kansas 66749
Phone: (620) 365-5588

Payless Concrete Products, Inc.

NOTICE TO OWNER
Failure of this contractor to pay those persons supplying material or services to complete this contract can result in the filing of a mechanic's lien on the property which is the subject of this contract.

CONDITIONS
Concrete to be delivered to the nearest accessible point over passable road, under truck's own power. Due to delivery at owner's or intermediary's direction, seller assumes no responsibility for damages in any manner to sidewalks, roadways, driveways, buildings, trees, shrubbery, etc., which are at customer's risk. The maximum allotted time for unloading trucks is 5 minutes per yard. A charge will be made for holding trucks longer. This concrete contains correct water contents for strength or mix indicated. We do not assume responsibility for strength test when water is added at customer's request.
Contractor must provide place for truck to wash out. A $30 charge will be added per truck if contractor does not supply a place to wash truck out. Tow charges are buyers responsibility.

SOLD TO:
PE002
PETROLEUM RESOURCE MANAGEMENT CO.
733 HIGHGROVE PARK

HOUSTON TX 77024

SHIP TO:
HAMMOND LEASE: 39-18 & 49-18
180TH & QUAIL
PIQUA KS
54 W TO QUAIL N 6 1/2 MI(PAST RR TRACKS W SD)JUST S OF TANKS

% Air

TIME	FORMULA	LOAD SIZE	YARDS ORDERED		DRIVER/TRUCK		PLANT/TRANSACTION #
9:15 AM	WELL	14.50	14.50		JS 34		WOOCO
DATE	PO NUMBER	LOAD #	YARDS DEL.	BATCH#	WATER TRIM	SLUMP	TICKET NUMBER
6/29/18		1	14.50	6	0.00	4.00 in	44656

WARNING
IRRITATING TO THE SKIN AND EYES

Contains Portland Cement. Wear Rubber Boots and Gloves. PROLONGED CONTACT MAY CAUSE BURNS. Avoid Contact With Eyes and Prolonged Contact With Skin. In Case of Contact With Skin or Eyes, Flush Thoroughly With Water, If Irritation Persists, Get Medical Attention. KEEP CHILDREN AWAY.

CONCRETE is a PERISHABLE COMMODITY and BECOMES the PROPERTY of the PURCHASER UPON LEAVING the PLANT. ANY CHANGES OR CANCELLATION of ORIGINAL INSTRUCTIONS MUST be TELEPHONED to the OFFICE BEFORE **LOADING** STARTS.

The undersigned promises to pay all costs, including reasonable attorneys' fees, incurred in collecting any sums owed.

All accounts not paid within 30 days of delivery will bear interest at the rate of 24% per annum.

Not Responsible for Reactive Aggregate or Color Quality. No Claim Allowed Unless Made at Time Material is Delivered.

A $30 Service Charge and Loss of the Cash Discount will be collected on all Returned Checks.

Excess Delay Time Charged @ $60/HR.

PROPERTY DAMAGE RELEASE
(TO BE SIGNED IF DELIVERY TO BE MADE INSIDE CURB LINE)

Dear Customer-The driver of this truck in presenting this RELEASE to you for your signature is of the opinion that the size and weight of his truck may possibly cause damage to the premises and/or adjacent property if it places the material in this load where you desire it. It is our wish to help you in every way that we can, but in order to do this the driver is requesting that you sign this RELEASE relieving him and this supplier from any responsibility from any damage that may occur to the premises and/or adjacent property, buildings, sidewalks, driveways, curbs, etc., by the delivery of this material, and that you also agree to help him remove mud from the wheels of his vehicle so that he will not litter the public street. Further, as additional consideration, the undersigned agrees to indemnify and hold harmless the driver of this truck and this supplier for any and all damage to the premises and/or adjacent property which may be claimed by anyone to have arisin out of delivery of this order.
SIGNED

X _____

Excessive Water is Detrimental to Concrete Performance
H_2O Added By Request/Authorized By

_____ GAL X _____

WEIGHMASTER

NOTICE: MY SIGNATURE BELOW INDICATES THAT I HAVE READ THE HEALTH WARNING NOTICE AND SUPPLIER WILL NOT BE RESPONSIBLE FOR ANY DAMAGE CAUSED WHEN DELIVERING INSIDE CURB LINE.

LOAD RECEIVED BY:

X John & Lisa

QUANTITY	CODE	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
14.50	WELL	WELL (10 SACKS PER UNIT)	14.50	$1015.00
~~2.75~~ 14.50	TRUCKING	TRUCKING CHARGE	2.50	$362.50
14.50	MIX&HAUL	MIXING AND HAULING	14.50	$105.00
			% TAX 7.50	$111.19

RETURNED TO PLANT	LEFT JOB	FINISH UNLOADING
11:24	10:55	10:39
LEFT PLANT	ARRIVED JOB	START UNLOADING
9:45	10:12	10:20
TOTAL ROUND TRIP	TOTAL AT JOB	UNLOADING TIME
1.75		

DELAY EXPLANATION/CYLINDER TEST TAKEN

1. JOB NOT READY
2. SLOW POUR OR PUMP
3. TRUCK AHEAD ON JOB
4. CONTRACTOR BROKE DOWN
5. ADDED WATER
6. TRUCK BROKE DOWN
7. ACCIDENT
8. CITATION
9. OTHER

TIME ALLOWED

TIME DUE

DELAY TIME

ADDITIONAL CHARGE 1 _____

ADDITIONAL CHARGE 2 _____

GRAND TOTAL $1693.69

Leis Oil Services, LLC

1410 150th Rd
Yates Center, KS 66783

Invoice

Date	Invoice #
7/8/2018	1230

Bill To
Petroluem Resources Management Co. 733 Highgrove Park Houston, TX 77057

P.O. No.	Terms	Project
	Due on receipt	

Quantity	Description	Rate	Amount	
2.75	6-1-18-- Pulling unit--- #1, was pumping, but just slobbering around, pulled to pump, didn't find any issues with pipe, as I stood it before pulling. Replaced pump, ran in.	65.00	178.75	L
5.5	6-5-18-- Pulling unit--- #41, thread leak 10th joint, 1 new joint. #26, parted 41st, fished out, with tapered tap, new pump, 2 joints.	65.00	357.50	L
1.75	6-8-18-- Pulling unit--- #32 hole in 22nd joint, 1 new joint.	65.00	113.75	L
2.25	6-11-18-- Pulling unit--- #S2, hole 36th joint, 2 other bad threads, 3 joints, no pumps available, had trouble with swivel leaking, had to change it out.	65.00	146.25	L
2.25	6-18-18-- Pulling unit--- #19, pipe split 3rd joint, 1 joint. #20 hole 22nd joint, 1 joint.	65.00	146.25	L
1	6-14-18-- Drill pit for #23-18	150.00	150.00	
1,102	6-21-18-- Drilling for #23-18	5.25	5,785.50	23
13	6-18-18-- Cement for surface on #23-18	15.95	207.35	
1	6-22-18-- Pump for cementing #23-18	400.00	400.00	
3.75	6-22-18-- Pulling unit-- #43, hole in 39th joint, bad threads on another, pump change. #30, pulled out to 17th joint.	65.00	243.75	L
3.5	6-25-18-- Pulling unit-- #30, thread leak at 21st joint, hole in 37th thread, 2 joints and pump swap. #24 broken threads under 17th collar, 1 joint.	65.00	227.50	L
1	6-22-18-- Drill pit for #22-18	150.00	150.00	
1,122	6-26-18-- Drilling for #22-18	5.25	5,890.50	22
1	6-27-18-- pump charge for cementing #22-18	400.00	400.00	
1	6-28-18-- Drill pit for 39-18	150.00	150.00	
1,102	6-28-18-- Drilling for 39-18	5.25	5,785.50	39
14	6-29-18-- Cement for surface	15.95	223.30	
1	6-29-18-- pump charge for cementing #39-18	400.00	400.00	
2	6-29-18-- #68 hole in 27th joint, 4 other bad threads, 5 joints.	65.00	130.00	L
1	6-29-18-- Drill pit for #49-18	150.00	150.00	
1,102	7-2-18-- Drilling for #49-18	5.25	5,785.50	49
1	7-3-18-- pump charge for cementing #49-18	400.00	400.00	
2.75	7-2-18-- #6 hole in 38th joint, 2 joints, 1 other bad thread, had to test 6 joints to find hole.	65.00	178.75	L
1	7-2-18-- nitrogen for testing pipes	10.00	10.00	L
3	7-3-18-- #20, hole in 22nd joint, 1 joint. #21 hole in collar, 26th joint, 1 collar.	65.00	195.00	L
2.5	7-6-18-- #15, hole in threads 25th joint, 1 other bad thread, 2 joints. When running in, had to cut 2 feet off of top joint and re-thread as we lost 2 feet of hole.	65.00	162.50	L
		Total	$27,967.65	

LOE 2,089.00 2090.00
23-18 6,542.80
22-18 6,440.50
39-18 6,558.80
49-18 6,335.90

Geological Report

Hammond E. #39-18
2140' FNL; 1440' FEL
Sec. 8, T24S, R16E
Woodson County, Kansas
7/6/2018

Operator:	Petroleum Resource Management Company 675 Bering Dr. Houston, Texas 77057
Drilling Contractor:	Leis Oil Services, Matt Leis, driller
Well-site Geologist:	Julie Shaffer 480 Fox Rd Toronto, Kansas 66777
Dates Drilled:	June 28, 2018
Size Hole:	5 7/8"
Total Depth:	1102'
Elevation:	1054' (est.)
Drilling Fluid:	Mud
Surface Casing:	42' of 7"
Electric Logs Run:	CDL-CNL-DIL-TEMP.
Formation Tops:	Formation tops were picked in the field and taken from sample bags
Rock Color Desc.:	GSA rock color chart (dry cuttings)
Status:	**OIL WELL**
Gas Shows:	N/A

Oil Shows:

Upper Squirrel Sandstone	1000-1006'	Very Good
Upper Squirrel Sandstone	1006-1014'	Trace to Poor
Lower Squirrel Sandstone	1045-1047'	Fair to Good
Lower Squirrel Sandstone	1047-1050'	Trace

Notes: Well cuttings were collected and bagged at the drill rig by the drillers. Samples of the select zones of interest were saved and reviewed in the laboratory under the black light and microscope.

0-998' Samples not examined

998-1000' Siltstone, white to very light gray, well cemented, ~999' siltstone has very faint uniform pale yellow oil staining, uniform moderately-bright pale yellowish-green hydrocarbon fluorescence, minor loose chips of limestone

Top of the Upper Squirrel Sandstone @ 1000' (+54')

1000-1006' Sandstone, dark yellowish-brown oil stained cuttings, excellent saturation, very fine grain, sub-rounded to round grains, well sorted, hi sphericity quartz, silty, minor mica, 18-20% porosity, highly friable, strong petroliferous odor, uniform bright brownish-yellow with bright speckled yellow hydrocarbon fluorescence, no acid reaction

1006-1014' Sandstone, light gray, very fine grain, sub-rounded to round grains, abundant siltstone, friable, slight petroliferous odor, shaley, abundant mica, mottled moderate grayish-brown and speckled black oil staining, mottled bright yellowish-brown and white hydrocarbon fluorescence, weak to fair acid reaction (minor calcitic cementation)

1014-1018' Samples not examined

1018-1020' Sandstone, light gray, very fine grain, sub-rounded to round grains, abundant siltstone, well cemented, shaley, micaceous, no odor, minor mottled pale yellowish-brown and lightly speckled black oil staining, <10% mottled pale yellow hydrocarbon fluorescence

1020-1026' Siltstone, light gray, shaley, well cemented, no odor, no oil show, no fluorescence

1026-1044' Samples not examined

1044-1045' Shale, medium-light gray, minor loose chips of limestone

Top of the Lower Squirrel Sandstone @ 1045' (+9')

1045-1047' Sandstone, mottled dark yellowish-brown oil stained cuttings, good saturation, fine grain, sub-angular to sub-rounded grains, moderately sorted, medium sphericity quartz, silty, micaceous, 14-18% porosity, friable, good petroliferous odor, speckled to mottled bright yellowish-brown and yellowish-white hydrocarbon fluorescence, no acid reaction

1047-1050' Sandstone, light gray, very fine grain, sub-rounded to round grains, silty, well cemented, shaley, micaceous, minor mottled very pale yellowish-brown and lightly speckled black oil staining, speckled bright yellow hydrocarbon fluorescence

1050-1056' Sandstone, medium gray, silty, micaceous, very well cemented, no hydrocarbon odor, no oil show, minor speckled yellowish-green hydrocarbon fluorescence

1056-1062' Siltstone, light to medium gray, shaley, minor very fine grain sandstone grains, abundant mica, very well cemented, no hydrocarbon odor, no oil show, minor speckled faint yellow fluorescence

1062-1100' Samples not examined

T.D. = 1102'

Julie Shaffer
Geologist