

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 # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

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 #: _____

Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No.: _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ 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: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

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: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

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 <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> 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

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> 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:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity

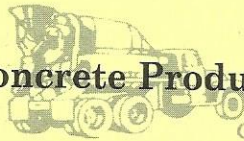
DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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802 N. Industrial Rd.
P.O. Box 664
Iola, Kansas 66749
Phone: (620) 365-5588

Payless Concrete Products, Inc.



*Macla
copies to*

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.

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.

SOLD TO:

PE002
PETROLEUM RESOURCE MANAGEMENT CO.
733 HIGHGROVE PARK

SHIPTO:

180TH & QUAIL **23-18**
PIQUA KS
54 W TO QUAIL N 6 1/2 MI (PAST RR
TRACKS W SD) JUST S OF TANKS

HOUSTON TX 77024

TIME	FORMULA	LOAD SIZE	YARDS ORDERED	DRIVER/TRUCK	% Air	PLANT/TRANSACTION #	
10:39 AM	WELL	15.00	15.00	J5 34		W0000	
DATE	PO NUMBER	LOAD #	YARDS DEL.	BATCH#	WATER TRIM	SLUMP	TICKET NUMBER
6/22/18		1	15.00	11	0.00	4.00 in	44603

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 arisen out of delivery of this order.

X

Excessive Water is Detrimental to Concrete Performance
H₂O 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 S. L.

QUANTITY	CODE	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
15.00	WELL	WELL (10 SACKS PER UNIT)	15.00	
15.00	MIX&HAUL	MIXING AND HAULING	15.00	
2.00	TRUCKING	TRUCKING CHARGE	2.00	

*1050.00
375.00
120.00*

RETURNED TO PLANT	LEFT JOB	FINISH UNLOADING	DELAY EXPLANATION/CYLINDER TEST TAKEN	TIME ALLOWED
1:03	12:35	12:25	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	
LEFT PLANT	ARRIVED JOB	START UNLOADING		TIME DUE
11:04	11:42	11:50		
TOTAL ROUND TRIP	TOTAL AT JOB	UNLOADING TIME		DELAY TIME

7.50 TAX
ADDITIONAL CHARGE 1
ADDITIONAL CHARGE 2
GRAND TOTAL *1660.88*

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

Payless Concrete Products, Inc.



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PETROLEUM RESOURCE MANAGEMENT CO.
733 HIGHGROVE PARK

180TH & QUAIL
PIQUA KS
54 W TO QUAIL N 6 1/2 MI (PAST RR TRACKS W SD) JUST S OF TANKS

HOUSTON TX 77024

22-18

SHIP TO:

TIME	FORMULA	LOAD SIZE	YARDS ORDERED	DRIVER/TRUCK	% AIR	PLANT/TRANSACTION #	
8:01 AM	WELL	14.00	14.00	JS 34		W0000	
DATE	PO NUMBER	LOAD #	YARDS DEL.	BATCH#	WATER TRIM	SLUMP	TICKET NUMBER
5/28/18		1	14.00	5	0.00	4.00 in	44641

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.

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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 arisen out of delivery of this order.

SIGNED _____
X _____

Excessive Water is Detrimental to Concrete Performance
H₂O Added By Request/Authorized By _____
GAL X _____

WEIGHMASTER _____

LOAD RECEIVED BY: _____
X _____

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.

QUANTITY	CODE	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
14.00	WELL	WELL (10 SACKS PER UNIT)	14.00	
1.75	TRUCKING	TRUCKING CHARGE	2.00	
14.00	MIX&HAUL	MIXING AND HAULING	14.00	

8980.00
8350.00
8105.00

RETURNED TO PLANT	LEFT JOB	FINISH UNLOADING	DELAY EXPLANATION/CYLINDER TEST TAKEN	TIME ALLOWED
10:09	9:32	9:20	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	% TAX 7.50
LEFT PLANT	ARRIVED JOB	START UNLOADING		TIME DUE
8:25	8:59	9:01		
TOTAL ROUND TRIP	TOTAL AT JOB	UNLOADING TIME		DELAY TIME
1.75				

ADDITIONAL CHARGE 1 _____
ADDITIONAL CHARGE 2 _____
GRAND TOTAL ▶ 81542.63

Leis Oil Services, LLC

1410 150th Rd
Yates Center, KS 66783

Invoice

Date	Invoice #
7/8/2018	1230

Bill To
Petroleum 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
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
1.75	6-8-18-- Pulling unit--- #32 hole in 22nd joint, 1 new joint.	65.00	113.75
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
2.25	6-18-18-- Pulling unit--- #19, pipe split 3rd joint, 1 joint. #20 hole 22nd joint, 1 joint.	65.00	146.25
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
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
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
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
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
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
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
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
1	7-2-18-- nitrogen for testing pipes	10.00	10.00
3	7-3-18-- #20, hole in 22nd joint, 1 joint. #21 hole in collar, 26th joint, 1 collar.	65.00	195.00
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
Total			\$27,967.65

LOE 2,089.00 2,090.00
 23-18 6,542.80
 24-18 6,440.50
 39-18 6,558.80
 49-18 6,335.50

Geological Report

Hammond E. #23-18
2140' FNL; 830' FEL
Sec. 8, T24S, R16E
Woodson County, Kansas
6/24/2018

Operator: Petroleum Resource Management Company
733 Highgrove Park
Houston, Texas 77024

Drilling Contractor: Leis Oil Services, Matt Leis, driller

Well-site Geologist: Julie Shaffer
480 Fox Rd
Toronto, Kansas 66777

Dates Drilled: June 21, 2018

Size Hole: 5 7/8"

Total Depth: 1102'

Elevation: 1067' (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

Rock Color Desc.: GSA rock color chart (dry cuttings)

Status: **OIL WELL**

Gas Shows: N/A

Oil Shows:

Upper Squirrel Sandstone	998-1009'	Very Good
Lower Squirrel Sandstone	1044-1052'	Good

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.

- 0-996' Samples not examined
- 996-998' Oswego Limestone, light gray, very fine grain, locally medium crystalline, no visible porosity

Top of the Upper Squirrel Sandstone @ 998' (+69')

- 998-999' Sandstone, light gray, very fine grain, sub-rounded to round grains, abundant siltstone, minor petroliferous odor, minor mottled very pale yellowish-brown oil staining, <5% mottled to uniform medium-bright pale-yellow hydrocarbon fluorescence
- 999-1004' Sandstone (70%), moderate to dark yellowish-brown oil stained cuttings, good saturation, very fine grain, sub-rounded to round grains, well sorted, hi sphericity quartz, abundant siltstone, minor mica, 16+% porosity, friable, strong petroliferous odor, uniform bright brownish-yellow hydrocarbon fluorescence, no acid reaction; Shale (30%), light gray, silty, minor loose chips of limestone
- 1004-1006' Sandstone, dark yellowish-brown oil stained cuttings, excellent saturation, very fine grain, sub-rounded to rounded grains, well sorted, hi sphericity quartz, minor siltstone, minor mica, 18-20% porosity, highly friable, strong odor, uniform bright yellow to brownish-yellow hydrocarbon fluorescence, no acid reaction
- 1006-1009' Sandstone (70%), light gray with heavily mottled dark yellowish-brown oil staining and black thick oil in pore space, excellent saturation, very fine to fine grain, sub-rounded to rounded grains, moderately well sorted, hi sphericity quartz, minor siltstone, abundant mica, 16+% porosity, friable, strong odor, mottled bright brownish-yellow with bright speckled yellow hydrocarbon fluorescence, weak acid reaction; Shale (30%), medium-light gray, silty to sandy, micaceous, minor loose chips of limestone
- 1009-1010' Siltstone, light gray, minor black shale partings, minor sandstone, shaley, abundant mica, no odor, no oil show, no fluorescence
- 1010-1042' Samples not examined
- 1042-1044' Shale, medium gray, calcareous and pyritic

Top of the Lower Squirrel Sandstone @ 1044' (+23')

- 1044-1052' Sandstone, very dark yellowish-brown to black oil stained cuttings, excellent saturation, fine grain, sub-angular to sub-rounded grains, well sorted, hi sphericity quartz, minor silt, micaceous, 18-20% porosity, highly friable, good odor, speckled to heavily mottled bright yellowish-white hydrocarbon fluorescence, no acid reaction
- 1052-1058' Siltstone, light to medium gray, minor shale, minor very fine grained sandstone grains, abundant mica, very well cemented, no hydrocarbon odor, no oil show, minor speckled yellow fluorescence
- 1058-1102' Samples not examined

T.D. = 1102'

Julie Shaffer
Geologist