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 # 3180
Name: Deutsch, Kent A. dba Deutsch Oil Company
Address 1: 8100 E 22ND ST N, BLDG 600
Address 2:
City: WICHITA State: KS Zip: 67226 + 2307
Contact Person: Kent Deutsch
Phone: (316) 681-3567
CONTRACTOR: License # 5123
Name: Pickrell Drilling Company, Inc.
Wellsite Geologist: none
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: Woods Petroleum Corp.
Well Name: Fisher !-18
Original Comp. Date: 09/16/1987 Original Total Depth: 4300
☐ 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 #:

09/03/2019 — Spud Date or Recompletion Date
Date Reached TD
11/19/2019 — Completion Date or Recompletion Date

API No.: 15-151-21849-00-01
Spot Description:
__ - SE - SW - SW Sec. 18 Twp. 26 S. R. 11 ☐ East ☑ West
330 Feet from ☐ North / ☑ South Line of Section
990 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: Pratt
Lease Name: FISHER Well #: 1-18
Field Name:
Producing Formation: Mississippi
Elevation: Ground: 1857 Kelly Bushing: 1864
Total Vertical Depth: 4300 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 259 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:** Karen Ritter **Date:** 01/24/2020

Page Two

Operator Name: Deutsch, Kent A. dba Deutsch Oil Company Lease Name: FISHER Well #: 1-18

Sec. 18 Twp. 26 S. R. 11 ☐ East ☑ West County: Pratt

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 ☐ Yes ☑ No
(Attach Additional Sheets)

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:

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

Name	Top	Datum
Mississippi	4082	2218

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
Production	7.875	5.5	17	4275	AA2	175	10% salt, 2% defoamer, 5# gilsonite, 5%
Surface	12.25	8.625	23	259	Class A	270	3%cc, 2% gel

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: 12/06/2019

Producing Method: ☐ Flowing ☑ Pumping ☐ Gas Lift ☐ Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	5	0	100		

DISPOSITION OF GAS: ☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION: ☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*

PRODUCTION INTERVAL:

Top	Bottom
4086	4110

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	4086	4110			Acid: 1050 gals. MCA
					Frac: 101,290# sand, 8877 bbls. slick water

TUBING RECORD: Size: 2.875 Set At: 4057 Packer At:

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

Form	ACO1 - Well Completion
Operator	Deutsch, Kent A. dba Deutsch Oil Company
Well Name	FISHER 1-18
Doc ID	1490888

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Production	7.875	5.5	17	4275	AA2	175	10% salt, 2% defoamer, 5# gilsonite, 5% c-17
Surface	12.25	8.625	23	259	Class A	270	3%cc, 2% gel

Fracture Start Date/Time:	9/24/19 10:20
Fracture End Date/Time:	9/24/19 12:08
State:	Kansas
County:	Pratt
API Number:	15-151-21849-0001
Operator Number:	
Well Name:	Fisher 1-18
Federal Well:	No
Tribal Well:	No
Longitude:	-98.5706611
Latitude:	37.7776532
Long/Lat Projection:	NAD27
True Vertical Depth (TVD):	4,110'
Total Clean Fluid Volume* (gal):	367,808

(e.g. XX-XXX-XXXXX-0000)

Ingredients Section:

Trade Name	Supplier	Purpose	Ingredients
Water	Operator	Carrier/Base Fluid	Water
Sand	Superior Silica Sand	Proppant	Crystalline Silica in the form of quartz
Plexcide P5	Chemplex	Biocide	Tributyl Tetradecyl Phosphonium Chloride
Plexcide P5	Chemplex	Biocide	Methanol
Plexslick 957	Chemplex	Friction Reducer	Petroleum Hydrotreated Light Distillate
Plexsurf 580 ME	Chemplex	Surfactant	Diathanolamone
Plexsurf 580 ME	Chemplex	Surfactant	Ethylene glycol monobutyl ether

Plexsurf 580 ME	Chemplex	Surfactant	Methanol
Plexsurf 580 ME	Chemplex	Surfactant	Oleamide Dielhanolamide
Plexsurf 580 ME	Chemplex	Surfactant	D-limonene
Clayplex 650	Chemplex	Prevents Clay Swelling	Calcium Chloride
Plexgel Breaker XPA	Chemplex	Breaks back treating fluid	Hydrogen Peroxide

*Total Water Volume sources may include fresh water, produced water, and/or recycled water
** Information is based on the maximum potential for concentration and thus the total may be over 100%
All component information

Additive	Specific Gravity	Additive Quantity	Mass (lbs)	
WATER	1.00	367,808	3,069,358	gal
Sand	2.65	110,200	110,200	lb
Pexcide P5	0.96	37	296	gal
Plexcide P5	0.96	37	296	gal
Plexslick 957	1.11	259	2,399	gal
Plexsurf 580 ME	0.95	92	729	gal
Plexsurf 580 ME	0.95	92	729	gal
Plexsurf 580 ME	0.95	92	729	gal
Plexsurf 580 ME	0.95	92	729	gal
Plexsurf 580 ME	0.95	92	729	gal
Clayplex 650	1.15	358	3,436	gal
Plexgel Breaker XPA	1.03	70	602	gal
				gal
				gal
				gal
				gal
				gal
				gal
				gal
			Total Slurry Mass (Lbs) 3,190,234	

Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Mass per Component (LBS)	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
7732-18-5	100.00%	3,069,358	96.21106%	
14808-60-7	100.00%	110,200	3.45429%	
81741-28-8	1.00%	3	0.00009%	
67-56-1	20.00%	59	0.00186%	
64742-47-8	25.00%	600	0.01880%	
111-42-2	1.00%	7	0.00023%	
111-76-2	1.00%	7	0.00023%	

67-56-1	40.00%	***292***	***0.00914%***	
61790-66-7	2.00%	***15***	***0.00046%***	
5989-27-5	1.00%	***7***	***0.00023%***	
10043-52-4	1.00%	***34***	***0.00108%***	
7722-84-1	8.00%	***48***	***0.00151%***	

Claimant Company	Claimant First Name	Claimant Last Name	Claimant Email	Claimant Phone (nnn-nnn-nnnn)

BASiC energy services, L.P.

TREATMENT REPOR

Customer: Deutsch Oil company	Lease No.	Date: 9/5/2019	
Lease: Fisher	Well #: 1-18		
Field Order #: 18023	Station: Pratt, KS	Casing: 5½	Depth: 4309
County: Pratt	State: KS		
Type Job: 2.42/ 5½ Long String	Formation: TD-	Legal Description: 18-26s-	

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size: 5½	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
Depth: 4282 ~~4309~~	Depth	From	To	Pre Pad	Max		5 Min.
Volume: 100	Volume	From	To	Pad	Min		10 Min.
Max Press	Max Press	From	To	Frac	Avg		15 Min.
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth: 4240	Packer Depth	From	To	Flush: water	Gas Volume		Total Load

Customer Representative: Kyle Hommertzheim | Station Manager: Justin Westermsn | Treater: Devin Franklin

Service Units	92511	78982	19843	70559	19860						
Driver Names	Devin	Brent	Brent	D.S2	D.S2						

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
6:30pm					On Location / Safety meeting
					175 sk AA2 Premium Cement
					10% salt, 5% gypsum, 0.5% defoam
					0.3% friction Reducer, 0.4% fluid loss
					5pps Gilsonite
					15.0ppg, 1.43 yield, 6.01 water
7:00pm	300		5	5	Pump 5 bbls water
	300		24	5	Pump 24 bbls mud Flush
	300		5	5	Pump 5 bbls water
	300		6	5	mix 25 sk 60/40 poz 4% Gel
	300		45	5	mix 175 sk AA2 Cement
					Shut down
					Wash Pump & lines & Release Plug
	100		0	5	Start displacement
	300		58	5	Lift Pressure
	700		90	3	Slow Rate
7:45pm	1500		98	3	Bump Plug
					Float
	0		7	3	Plug Rat hole
8:00pm					Job complete / Devin & crew
					Thank you!!

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