

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1351025
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

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 SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- 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 ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

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

API No. 15 - _____

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
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1351025

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 List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
--	---

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				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 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)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR: _____ 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: <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)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
--	---	---

BASICSM

ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201
4-26-11w

FIELD SERVICE TICKET

1718 13950 A

DATE _____ TICKET NO. _____

DATE OF JOB: 12/13/2016 DISTRICT: Pratt, KS				NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:			
CUSTOMER: Deutsch O.I. Company				LEASE: Zink WELL NO. 2-4			
ADDRESS:				COUNTY: Pratt STATE: KS			
CITY: STATE:				SERVICE CREW: Dglin, Scott, Mstrer			
AUTHORIZED BY:				JOB TYPE: 242/5 1/2 LongStrings			
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE: 12/13 AM/PM: 2:00
86779	1					ARRIVED AT JOB	12/13 AM/PM: 3:30
73768	1/2					START OPERATION	12/13 AM/PM: 7:45
						FINISH OPERATION	12/13 AM/PM: 8:45
						RELEASED	12/13 AM/PM: 9:30
						MILES FROM STATION TO WELL	19

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: _____
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP105	ADA2 Cement	SK	150		2,550.00
CP103	60/40 POZ	SLC	30		360.00
CC105	C-41P	Lb	29		116.00
CC111	S91t	Lb	683		341.50
CC112	Cement Friction Reducer	Lb	43		258.00
CC129	FLA-322	Lb	71		532.50
CC201	Gilsonite	Lb	750		502.50
CF607	Latch Down Plug & Baffle, 5/2 (Blue)	ES	1		400.00
CF1251	Auto Fill Float Shoe 5/2 (Blue)	ES	1		360.00
CF1651	Turbolizer, 5/2 (Blue)	ES	6		660.00
CF1901	5/2 Baffle (Blue)	ES	1		250.00
CC151	Mud Flush	Gal	500		750.00
E101	Hesur Equipment Mileage	Mi	40		300.00
CF240	Blending & Mixing Service Charge	SLC	180		252.50
FI13	Proppant and Bulk Delivery Charge, per ton/mile	Ton/m	167		417.50
CF205	Depth Charge 4001' - 5,000'	Lhr	1		2,520.00
CF504	Plug container utilization charge	Job	1		250.00
S003	Service Supervisor, Pratt & Wilson Loc.	ES	1		175.00
E100	Unit mileage charge - pickups, smushers & crs	Mi	20		90.00
SUB TOTAL					11,125.00

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
DISCOUNT TOTAL		5,118.75

SERVICE REPRESENTATIVE: <i>Debra Egan</i>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <i>[Signature]</i> (WELL OWNER OPERATOR CONTRACTOR OR AGENT)
---	---

FIELD SERVICE ORDER NO. _____

BASICSM

ENERGY SERVICES

PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

FIELD SERVICE TICKET

1718 14698 A

DATE _____ TICKET NO. _____

DATE OF JOB 12-6-16 DISTRICT Pratt		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:								
CUSTOMER Deutsche oil COMPANY		LEASE ZINK WELL NO. 20								
ADDRESS		COUNTY Pratt STATE Ks								
CITY STATE		SERVICE CREW MATTAI HANSON GRAY								
AUTHORIZED BY		JOB TYPE: 2 42 8 5/8 SURFACE + 1 inch								
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
20920 X	1						12-6-16			3:00
						ARRIVED AT JOB				5:00
						START OPERATION				12:52
19918 X	1					FINISH OPERATION				4:10
						RELEASED				5:00
						MILES FROM STATION TO WELL				20

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: *X Mike Mattai*
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 100C	COMMON CMT	SK	230		3,680 00
CP 100C	COMMON CMT	SK	170		2,720 00
CC 102	celloflare	lb	58		214 60
cc 109	cal. chloride	lb	1131		1187 15
CC 200	CMT gel	lb	434		108 50
E 100	P.U. Miles	Mi	20		90 00
E 101	heavy eq. miles	Mi	60		450 00
E 113	PROP + bulk dol	TM	377		942 50
CC 200	Depth charge 0-500'	4hr	1		1,000 00
CC 240	blend + mix	SK	400		560 00
S003	Supervisor	ea	1		175 00

SUB TOTAL 11,128 15

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT %TAX ON \$
MATERIALS %TAX ON \$

TOTAL 6,120 48

SERVICE REPRESENTATIVE *Mike Mattai* THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: *Mike Mattai*
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

Product Name	Fac Focus
Product Code	12112-241
Product Size	3000 ml
Product Type	Fac Focus
Product Description	Fac Focus
Product Category	Fac Focus
Product Sub-Category	Fac Focus
Product Brand	Fac Focus
Product Manufacturer	Fac Focus
Product Distributor	Fac Focus
Product Supplier	Fac Focus
Product Status	Fac Focus
Product Date Added	Fac Focus
Product Date Modified	Fac Focus
Product Date Deleted	Fac Focus
Product Date Archived	Fac Focus



Volume	Specific Gravity	Alcohol Content (%)	Mass (g)
Water	1.00	0%	0.00
Product A	1.01	1%	0.01
Product B	1.02	2%	0.02
Product C	1.03	3%	0.03
Product D	1.04	4%	0.04
Product E	1.05	5%	0.05
Product F	1.06	6%	0.06
Product G	1.07	7%	0.07
Product H	1.08	8%	0.08
Product I	1.09	9%	0.09
Product J	1.10	10%	0.10
Product K	1.11	11%	0.11
Product L	1.12	12%	0.12
Product M	1.13	13%	0.13
Product N	1.14	14%	0.14
Product O	1.15	15%	0.15
Product P	1.16	16%	0.16
Product Q	1.17	17%	0.17
Product R	1.18	18%	0.18
Product S	1.19	19%	0.19
Product T	1.20	20%	0.20
Product U	1.21	21%	0.21
Product V	1.22	22%	0.22
Product W	1.23	23%	0.23
Product X	1.24	24%	0.24
Product Y	1.25	25%	0.25
Product Z	1.26	26%	0.26
Product AA	1.27	27%	0.27
Product AB	1.28	28%	0.28
Product AC	1.29	29%	0.29
Product AD	1.30	30%	0.30

Ingredient Section:

Trade Name	Supplier	Purpose	Ingredient	Chemical Abstract Service Number (CAS#)	Maximum Ingredient Concentration in Solution	Mass per Component (1.85)	Maximum Ingredient Concentration in EE	Component (Common)	Component (Empirical)	Component (Fuel Value)	Component (Fuel Value)	Component (Fuel Value)	Component (Fuel Value)
Water	Chemicals	Carrier	Water	7732-18-5	100.00%	0.000	0.000						
Product A	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						
Product B	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						
Product C	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						
Product D	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						
Product E	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						
Product F	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						
Product G	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						
Product H	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						
Product I	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						
Product J	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						
Product K	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						
Product L	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						
Product M	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						
Product N	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						
Product O	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						
Product P	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						
Product Q	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						
Product R	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						
Product S	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						
Product T	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						
Product U	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						
Product V	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						
Product W	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						
Product X	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						
Product Y	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						
Product Z	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						
Product AA	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						
Product AB	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						
Product AC	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						
Product AD	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						
Product AE	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						
Product AF	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						
Product AG	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						
Product AH	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						
Product AI	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						
Product AJ	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						
Product AK	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						
Product AL	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						
Product AM	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						
Product AN	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						
Product AO	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						
Product AP	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						
Product AQ	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						
Product AR	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						
Product AS	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						
Product AT	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						
Product AU	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						
Product AV	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						
Product AW	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						
Product AX	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						
Product AY	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						
Product AZ	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						
Product BA	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						
Product BB	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						
Product BC	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						
Product BD	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						
Product BE	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						
Product BF	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						
Product BG	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						
Product BH	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						
Product BI	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						
Product BJ	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						
Product BK	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						
Product BL	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						
Product BM	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						
Product BN	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						
Product BO	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						
Product BP	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						
Product BQ	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						
Product BR	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						
Product BS	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						
Product BT	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						
Product BU	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						
Product BV	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						
Product BV	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						
Product BV	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						
Product BV	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						
Product BV	Chemicals	Fac Focus	Fac Focus	12112-241	1.00%	0.001	0.001						

Trade Name Volume values may include final water purchased under other trade names. ** Information is based on the maximum potential for concentration and does not take into account any dilution information.

Conservation Division
266 N. Main St., Ste. 220
Wichita, KS 67202-1513



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Pat Apple, Chairman
Shari Feist Albrecht, Commissioner
Jay Scott Emler, Commissioner

Sam Brownback, Governor

April 06, 2017

Kent Deutsch
Deutsch, Kent A. dba Deutsch Oil Company
8100 E 22ND ST N, BLDG 600
WICHITA, KS 67226

Re: ACO-1
API 15-151-22454-00-00
ZINK 2-4
NE/4 Sec.04-26S-11W
Pratt County, Kansas

Dear Kent Deutsch:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 12/05/2016 and the ACO-1 was received on April 05, 2017 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department

Geologic Report
Aaron L. Young

Drilling Time and Sample Log

**Scale 1:240 (5"=100') Imperial
Measured Depth Log**

Well Name: Zink #2-4
API: 15-151-22454
Location: Section 4 - T26S - R11W
License Number: 3180
Spud Date: 12 / 05 / 2016
Surface Coordinates: 3630' FSL and 2310' FEL
Approx. NW - SW - NE
Region: Pratt Co., KS
Drilling Completed: 12 / 12 / 2016

**Bottom Hole
Coordinates:**
Ground Elevation (ft): 1841' **K.B. Elevation (ft):** 1848'
Logged Interval (ft): 3200' **To:** 4150' **Total Depth (ft):** 4150'
Formation: Kinderhook
Type of Drilling Fluid: Mud-Co

Printed by MudLog from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Deutsch Oil Company
Address: 8100 E 22nd St N, Bldg 600
Wichita, KS 67226

GEOLOGIST

Name: Aaron L. Young, M. S.
Company: Young Consulting LLC
Address: 100 S Main Ste 505
Wichita, KS 67202

General Info

CONTRACTOR: Pickrell Drilling, Rig #10

BIT RECORD:

No.	Size	Make	Jets	Out	Feet	Hours
1	12-1/4	RR	15-15-15	294'	287'	7
2	7-7/8	HA 20JQ	18-20-Plug	4150'	3856'	95.75

GENERAL DRILLING AND PUMP INFORMATION:

Drilling with 38,000 -42,000 lbs. on bit and approx 65-70 RPM.
Running 8 stands of collars; 458'
Pumping approx 750 psi at standpipe.

Notes:

Drill time taken electronically; accurate to 1/100 minute.
Lost circulation @ 3277'.
Hit bridge going in with logging tool @ approx 2970'.

Daily Status

12/05/16- Spud @ 5:00pm, Depth 212', ran 5 jts of used 8 5/8" 20# surface casing set @ 207', cemented w/ 150 sx. Common, 2% gel & 3% CC

12/06/16 - Ran 7 jts new 8 5/8" 23# surface casing. Set at 287', cement w/ 230 sx common, 2% gel, 3% CC, 1/4# cellflake.

12/07/16 - Drilling, @ 640'

12/08/16 - Drilling, @ 1746'

12/09/16 - Drilling, @ 2497'

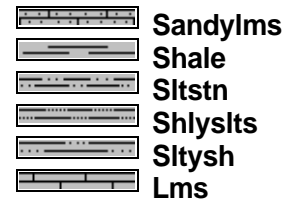
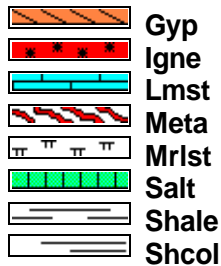
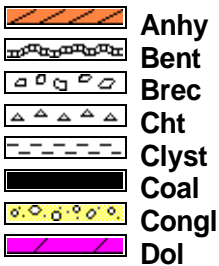
12/10/16 - Drilling, @ 3263'

12/11/16 - Drilling, @ 3838' TD 4150', Circulate hole clean, short trip, circulate hole clean, trip out with bit, run in with logging tool, hit bridge @ 2970'

12/12/16 - Reconditioning hole for logs

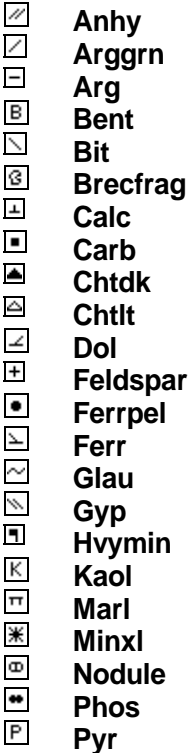
12/13/16 - Ran 94 jt of 5 1/2" 15.5# prod csg. set @ 4144', cem w/ 150 sx AA-2

ROCK TYPES

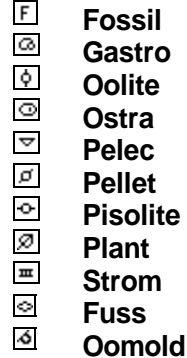
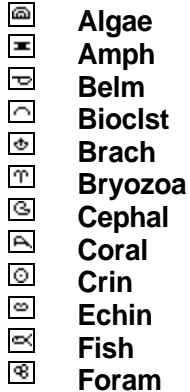


ACCESSORIES

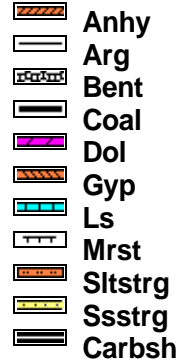
MINERAL



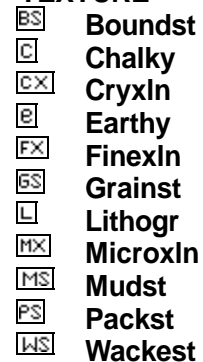
FOSSIL



STRINGER



TEXTURE



OTHER SYMBOLS

POROSITY TYPE

- Earthy
- Fenest
- Fracture
- Inter
- Moldic
- Organic
- Pinpoint
- Vuggy

SORTING

- Well
- Moderate
- Poor

ROUNDING

- Rounded
- Subrnd
- Subang
- Angular

OIL SHOWS

- Even
- Spotted
- Ques
- Dead
- Gas show

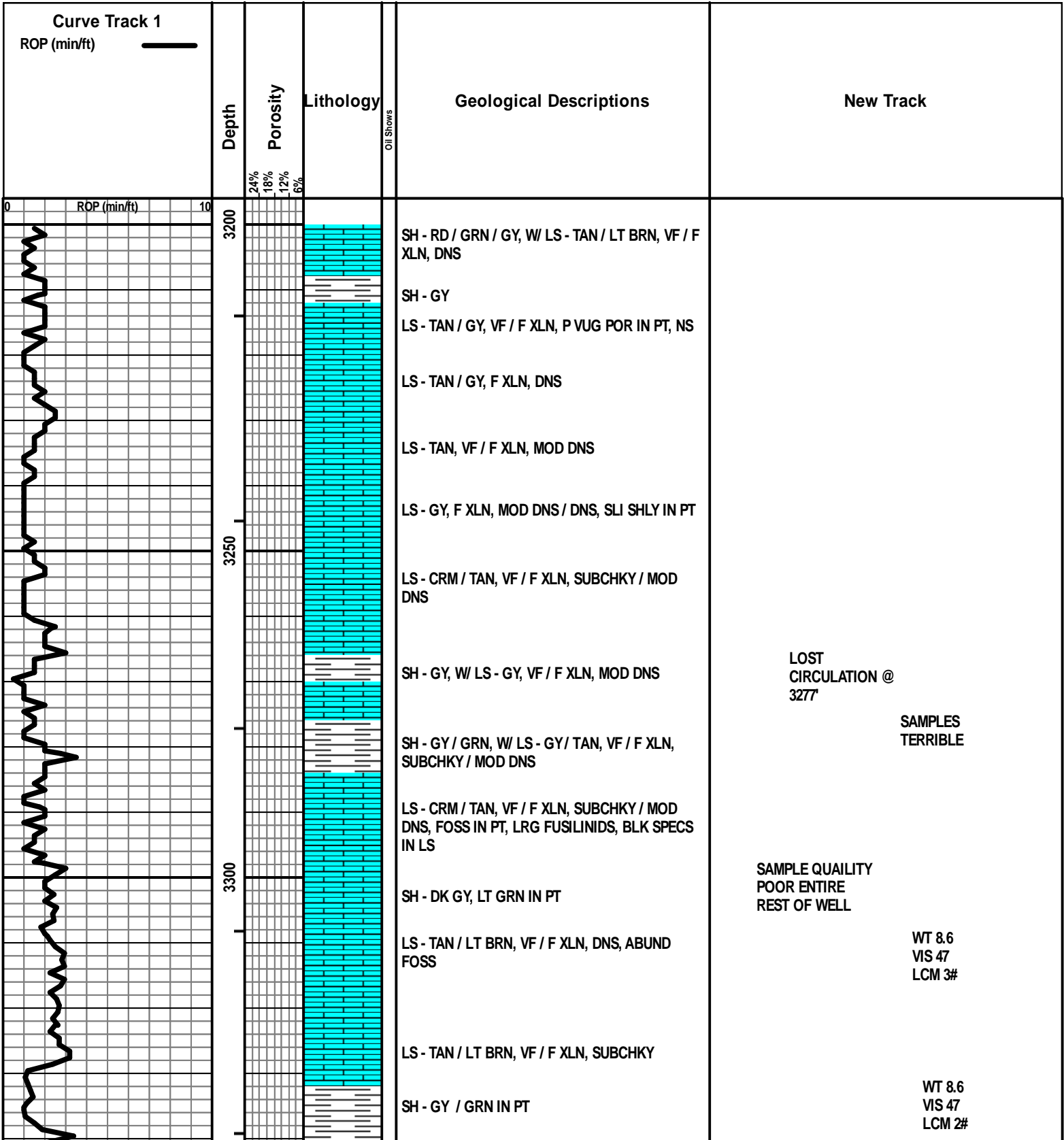
INTERVALS

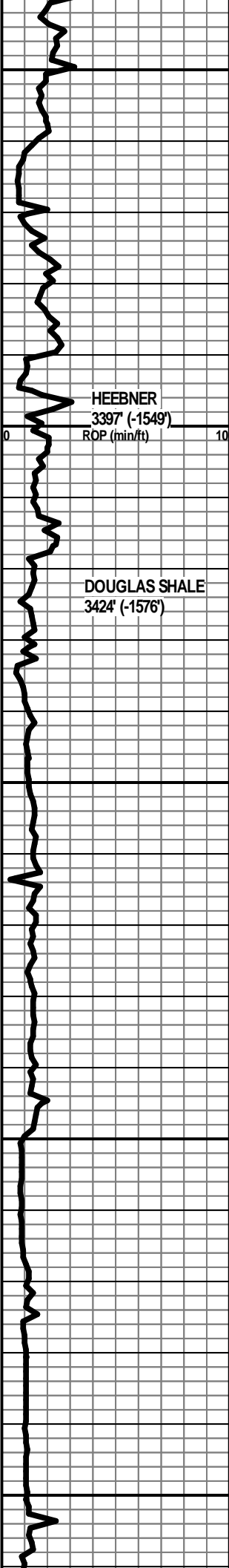
- Core
- Dst

Dst

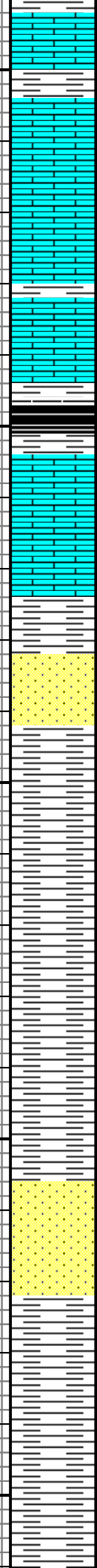
EVENTS

- Rft
- Sidewall
- Conn





3350
3400
3450
3500
3550



SH - BLK, SLI CARB

SH - RD, W/ LS - GY / TAN, F XLN, DNS

LS - CRM / TAN, VF / F XLN, DNS, FOSS

LS - TAN / CRM / OFF-WHT, VF XLN, SUBCHKY /
CHKY

LS - CRM, VF / F XLN, SUBCHKY / CHKY

SH - BLK, CARB, SHOW OF GAS BUBBLES

SH - GY / GRN / RD

LS - CRM / LT BRN, VF XLN, SUBCHKY / CHKY,
BRN SPECS IN PT

LS - TAN / GY, F XLN, DNS / V DNS, W/ SH - GY

SH -GY / DK GY

SS - WHT / GY, FN GR, F INTERGR POR, NS, NO
ODOR

SH - GY, SLTY

SH - GY, SLTY IN PT

SH - GY, SLTY IN PT

SH - GY, SLTY IN PT

SH - GY

SH - GY / DK GY

SS - WHY / LT GY, FN GR, F INTGR POR, NS, NO
ODOR, W/ SH - LT GY, SLTY

SH - GY, SLTY

SH - GY, SLTY

SH - GY, SOFT

WT 8.6
VIS 45
LCM 2#

WT 8.7
VIS 45
LCM 2#

BROWN LIME
3574' (-1726')

ROP (min/ft)

LANSING
3606' (-1758')

3600

3650

3700

3750

SH - GY

LS - TAN / BRN, F XLN, DNS / V DNS, FOSS

SH - GY

LS - CRM / TAN, VF / F XLN, MOD DNS / DNS,
FOSS, NS, NO ODOR

LS - TAN / GY, F XLN, DNS, FOSS, W/ SH - GY

LS - TAN / BRN, F XLN, PRED DNS, FOSS, OOL, P
INTXLN POR IN PT, DEAD OIL STN, NO LIVE OIL,
NO ODOR, NO FLUOR

SH - GY

LS - TAN, VF / F XLN, SUBCHKY IN PT, P / F
INTXLN POR IN PT, SLI DEAD OIL STN, SSFO IN
ONE PIECE, NO ODOR, NO FLUOR

LS - TAN, F XLN, F INTXLN + FRACT POR, FSFO,
LT BRN OIL, FOSS, G ODOR, NO ODOR, NO
FLUOR

SH - GY

SH - GRN / GY / RD, W/ LS - CRM, VF / F XLN,
CHKY / SUBCHKY

SH - LT GY / GRN, WAXY IN PT

LS - TAN / LT GY, F XLN, MOD DNS / DNS, FOSS,
LARGE FUSILINIDS

SH - GY / GRN / RD, W/ LS - TAN / LT GY, F XLN,
DNS

SH - GY / GRN, W/ LS - CRM / OFF-WHT, VF / F
XLN, SUBCHKY / MOD DNS, CHKY IN PT

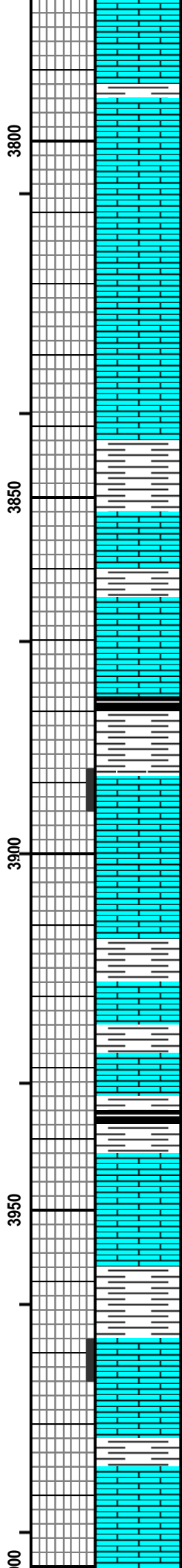
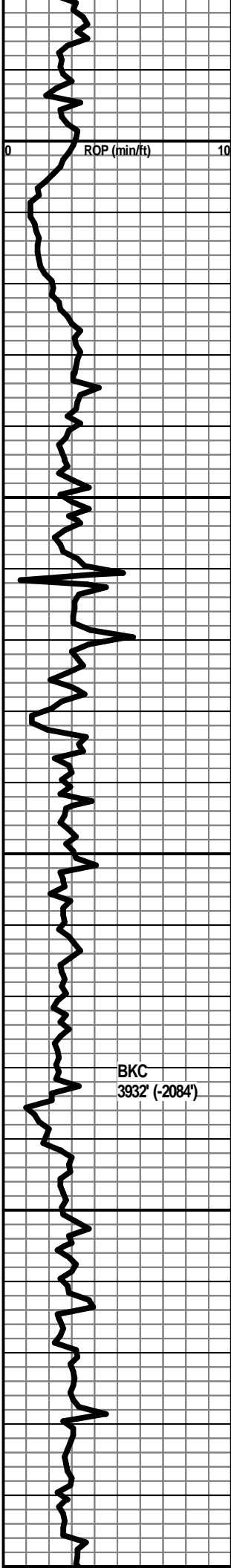
SH - GY / GRN

LS - TAN / LT BRN, GY IN PT, F XLN, MOD DNS /
DNS, FOSS IN PT

LS - CRM / TAN, F XLN, MOD DNS / DNS, FOSS IN
PT

WT 8.9
VIS 47
LCM 2#

WT 9.0
VIS 47
LCM 2#



LS - CRM, VF / F XLN, SUBCHKY

SH - MAR / GY / GRN, W / LS - TAN / GY, VF / F XLN, MOD DNS

LS - TAN / GY, VF / F XLN, MOD DNS, FOSS

LS - CRM, VF / F XLN, SUBCHKY, P / F INTXLN POR, NS, NO ODOR, NO FLUOR

LS - CRM / TAN, VF / F XLN, SUBCHKY / MOD DNS, NO VIS POR, NS, NO ODOR

SH - GY / GRN / MAR / RD-ORNG

LS - TAN / LT BRN, F XLN, DNS, ABUND FOSS, SLI OOL IN PT

SH - GY / GRN

LS - TAN, F XLN, DNS, FOSS, LRG BIVALVES

LS - TAN / GY, F XLN, DNS, FOSS

SH - GY / BLK, SLI CARB IN PT

LS - TAN / GY, F XLN, DNS, STYLITIZED IN PT, PYRITIC IN PT, P INTXLN POR IN PT, NS, NO ODOR

LS - TAN / LT BRN, F XLN, DNS, FOSS

SH - RD / GRN / GY, W / LS - BRN, F / M XLN, V DNS, ABUND FOSS

SH - GRN / GY / RD

SH - BLK, CARB, W / LS - CRM / OFF-WHT, SUBCHKY / CHKY

SH - GY, W / LS - CRM / TAN, VF / F XLN, MOD DNS, FOSS IN PT

SH - GY / GRN

SH - GRN / RD, W / LS - TAN / LT GY, VF / F XLN, SUBCHKY / MOD DNS, PINTXLN POR, NS, NO ODOR

LS - CRM / TAN, VF / F XLN, SUBCHKY / CHKY

SH - GRN / GY, W / LS - CRM / TAN, VF / F XLN, MOD DNS / SUBCHKY, FOSS

LS - TAN, F XLN, MOD DNS / DNS, FOSS

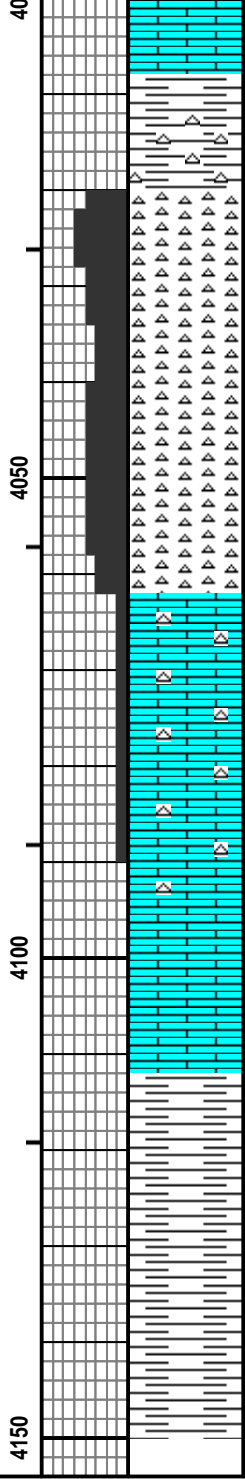
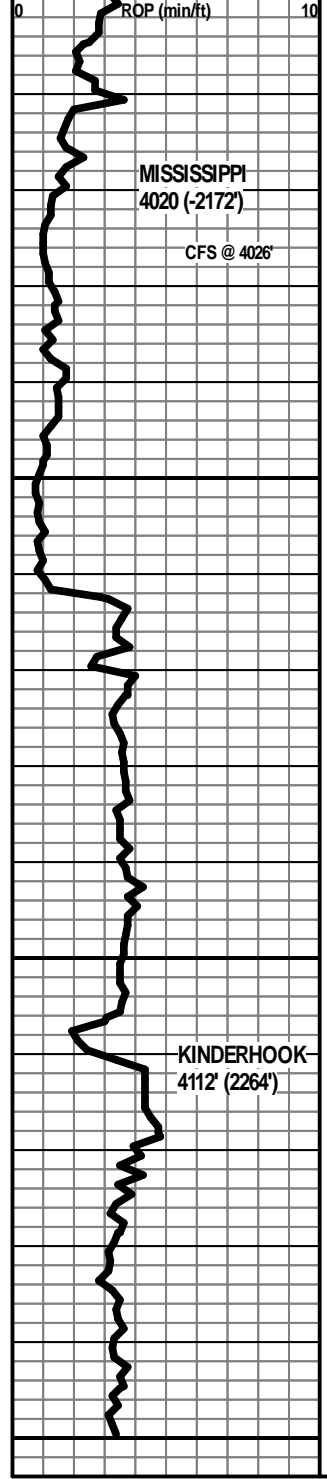
LS - OFF-WHT / CRM, VF / F XLN, SUBCHKY / MOD DNS, CHKY IN PT

WT 9.0
VIS 47
LCM 2#

WT 9.0
VIS 46
LCM 2#

WT 9.2
VIS 52
LCM 2#

WT 9.2
VIS 58
LCM 2#



MOD DNS, CHRY IN PT

SH - GY / GRN / RD, W / CHT - RD-ORNG / YEL / OFF-WHT, PRED OPAQ, TRANSLUCNT IN PT

CHT - WHT, PRED WEATH, FRSH IN PT, F / G WEATH + VUG POR, GSFO, SHOW OF GAS BUBB, F ODOR, G YEL-GRN FLUOR

CHT - WHT, PRED WEATH, FRSH IN PT, G WEATH + VUG POR, VGSFO, VG SHOW OF GAS BUBB, F ODOR, G YEL-GRN FLUOR

CHT - WHT, PRED WEATH, MORE FRSH THAN ABOBE, OPAQ, WEATH EDGES IN PT, P / F WEATH POR, FSFO, G SHOW OF GAS, F ODOR, F YEL GRN FLUOR

LS - CRM / TAN, F XLN, DNS, W / CHT - WHT, FRSH, TRANSLUCNT IN PT, PRED OPAQ

LS - TAN, F XLN, DNS, W / CHT - WHT, OPAQ / TRANSLUCNT IN PT, FRSH

LS - TAN, VF / F XLN, MOD DNS

SH - GRN

SH - GRN / GY

SH - GY / GRN

SAMPLE QUALITY
VERY POOR

WT 9.3
VIS 55
LCM 2#

WT 9.3
VIS 53
LCM 2#

WT 9.4
VIS 46
LCM 2#

PICKED UP PIT
MUD

WT 9.3 - Befor 1st log run - hit bridge
VIS 66
LCM 1#

WT 9.1 For 2nd log run
VIS 54
LCM 2#

TD Strap 3.61 Log
to Board

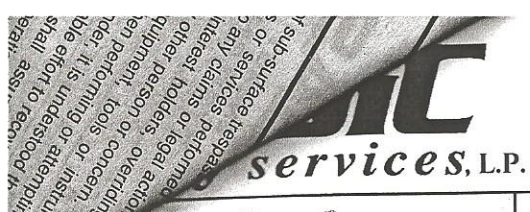
RTD 4150'

Deutsche Oil Company CURTIS		Lease No.	Date 12-16-16	
Field Order # 3		Well # 2-15	County Pratt State KS	
Station PRATT	Casing 8 5/8	Depth 436	Legal Description 15-265-15W	
Type Job Z 42 8 5/8 SURFACE	Formation			

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 8 5/8	Tubing Size	Shots/Ft		Acid 200 SWS AS	RATE	PRESS	ISIP	
Depth 436	Depth	From	To	Pre Pad 6% SRI	Max 300 CC	1/4 HSK CA	5 Min.	
Volume 27.7	Volume	From	To	Pad 200 SWS	Min	300 CC 1/4 HSK CA	10 Min.	
Max Press 500	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth 416	Packer Depth	From	To	Flush 26.5	Gas Volume		Total Load	

Customer Representative KURT DEUTSCH	Station Manager Kevin Gorbicy	Treater Mike Mattal
Service Units 37586	81547 19843	70959 19862
Driver Names MIAMI	FRANKLIN	ADAMS

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
2:45					ON LOCATION / SAFETY MEETING
8:20					Run 8 5/8 23# CSNG
10:50					CSNG ON BOTTOM
11:00					HOOK TO CSNG / BREAK CIRC W. RIS
11:58	200		3	4	PUMP 3 bbl warm
11:59	200		59	4	MAX 200 SWS A SWS LIFE
12:15	250		48	4.5	MIX 200 SWS CONTINUED
12:33					Release Plug
12:36	200			5	START DISPLACEMENT
12:42	250		26.5		Plug down / shut in well 12 bbls TO PIT
					JOB COMPLETE
					Thank You!
					MIKE MATTAL
					DARIA + TOD



TREATMENT REPORT

Lease No. _____ Date **12/13/2016**
 Well # **2-4**
 Field Order # **13950** Station **Pratt, KS** Casing **5 1/2** Depth **4144** County **Pratt** State **KS**
 Type Job **242/5 1/2 LongString** Formation **TD-4150** Legal Description **4-26-11W**

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
5 1/2							
Depth 4144	Depth	From	To	Pre Pad	Max		5 Min.
Volume 98.6	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 4123	Packer Depth	From	To	Flush Freshwater	Gas Volume		Total Load

Customer Representative **Dave Pooley** Station Manager **Kevin Gorder** Treater **Darin Franklin**

Service Units	92511	78982	86779	19960	73768				
Driver Names	Darin	Scott	Scott	Matt	Matt				

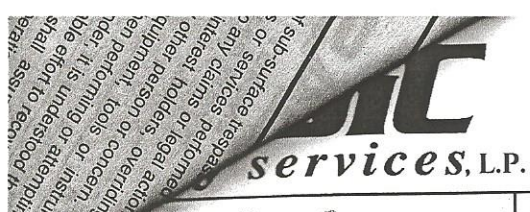
Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
3:30am					on location / safety meeting
					5 1/2 casing set at 4144'
					T-1,3,5,7,9,11 B-12
					150sk DAZ cement, 2% Defosmer, 10% S91t, 5% FLD-322, 5#/sk Gilsonite
					153ppg, 1.36 yield, 5.54water
7:45am	300		5	5	Pump 5 bbls water
	300		12	5	Pump 12 bbls Flush
	300		5	5	Pump 5 bbls water
			36	5	mix 150sk DAZ
					Shut down
					Wash pump & lines & Release Plug
	150		0	6	S91t displacement
			70	6	Lift Pressure
			90	3	Slow Rate
8:30am			95	3	Bump Plug
					Float - Held
	100		7	3	Plug set here - 30sk
					Job Complete / Darin & crew
					Thank you!!!

Deutsche Oil Company CURTIS		Lease No.	Date 12-16-16	
Field Order # 3		Well # 2-15	County Pratt State KS	
Station PRATT	Casing 8 5/8	Depth 436	Legal Description 15-265-15W	
Type Job Z 42 8 5/8 SURFACE	Formation			

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 8 5/8	Tubing Size	Shots/Ft		Acid 200 SWS AS	RATE	PRESS	ISIP	
Depth 436	Depth	From	To	Pre Pad 6% SRI	Max 300 CC	1/4 HSK CA	5 Min.	
Volume 27.7	Volume	From	To	Pad 200 SWS	Min	300 CC	10 Min. # 54 ER 2% SRI	
Max Press 500	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth 416	Packer Depth	From	To	Flush 26.5	Gas Volume		Total Load	

Customer Representative KURT DEUTSCH	Station Manager Kevin Gorbey	Treater Mike Mattal
Service Units 37586	81547 19843	70959 19862
Driver Names MIAMI	FRANKLIN	ADAMS

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
2:45					ON LOCATION / SAFETY MEETING
8:20					Run 8 5/8 23# CSNG
10:50					CSNG ON BOTTOM
11:00					HOOK TO CSNG / BREAK CIRC W. RIS
11:58	200		3	4	PUMP 3 bbl warm
11:59	200		59	4	MAX 200 SWS A SWS LIFE
12:15	250		48	4.5	MIX 200 SWS CONTINUED
12:33					Release Plug
12:36	200			5	START DISPLACEMENT
12:42	250		26.5		Plug down / shut in well 12 bbls TO PIT
					JOB COMPLETE
					Thank You!
					MIKE MATTAL
					DARIA + TOD



TREATMENT REPORT

Lease No. _____ Date **12/13/2016**
 Well # **2-4**
 Field Order # **13950** Station **Pratt, KS** Casing **5 1/2** Depth **4144** County **Pratt** State **KS**
 Type Job **242/5 1/2 LongString** Formation **TD-4150** Legal Description **4-26-11W**

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
5 1/2							
Depth 4144	Depth	From	To	Pre Pad	Max		5 Min.
Volume 98.6	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 4123	Packer Depth	From	To	Flush Freshwater	Gas Volume		Total Load

Customer Representative **Dave Pooley** Station Manager **Kevin Gorder** Treater **Darin Franklin**

Service Units	92511	78982	86779	19960	73768				
Driver Names	Darin	Scott	Scott	Matt	Matt				

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
3:30am					on location / safety meeting
					5 1/2 casing set at 4144'
					T-1,3,5,7,9,11 B-12
					150sk DAZ cement, 2% Defosmer, 10% S91t, 5% FLD-322, 5#/sk Gilsonite
					153ppg, 1.36 veild, 5.54water
7:45am	300		5	5	Pump 5 bbls water
	300		12	5	Pump 12 bbls Flush
	300		5	5	Pump 5 bbls water
			36	5	mix 150sk DAZ
					Shut down
					Wash pump & lines & Release Plug
	150		0	6	S91t displacement
			70	6	Lift Pressure
			90	3	Slow Rate
8:30am			95	3	Bump Plug
					Float - Held
	100		7	3	Plug set here - 30sk
					Job Complete / Darin & crew
					Thank you!!!

