KOLAR Document ID: 1462289

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 #	API No.:			
Name:	Spot Description:			
Address 1:	SecTwpS. R East West			
Address 2:	Feet from North / South Line of Section			
City:	Feet from East / West Line of Section			
Contact Person:	Footages Calculated from Nearest Outside Section Corner:			
Phone: ()	□NE □NW □SE □SW			
CONTRACTOR: License #	GPS Location: Lat:, Long:			
Name:	(e.g. xx.xxxxx) (e.gxxx.xxxxxx)			
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84			
Purchaser:	County:			
Designate Type of Completion:	Lease Name: Well #:			
New Well Re-Entry Workover	Field Name:			
	Producing Formation:			
☐ Oil ☐ WSW ☐ SWD	Elevation: Ground: Kelly Bushing:			
☐ Gas ☐ DH ☐ EOR	Total Vertical Depth: Plug Back Total Depth:			
☐ OG ☐ GSW	Amount of Surface Pipe Set and Cemented at: Feet			
☐ CM (Coal Bed Methane)☐ Cathodic☐ Other (Core, Expl., etc.):	Multiple Stage Cementing Collar Used? Yes No			
	If yes, show depth set: Feet			
If Workover/Re-entry: Old Well Info as follows:				
Operator:	If Alternate II completion, cement circulated from:			
Well Name:	feet depth to: w/ sx cmt.			
Original Comp. Date: Original Total Depth:				
☐ Deepening ☐ Re-perf. ☐ Conv. to EOR ☐ Conv. to SWD	Drilling Fluid Management Plan			
Plug Back Liner Conv. to GSW Conv. to Producer	(Data must be collected from the Reserve Pit)			
Commingled Permit #:	Chloride content: ppm Fluid volume: bbls			
Dual Completion Permit #:	Dewatering method used:			
SWD Permit #:	Location of fluid disposal if hauled offsite:			
EOR Permit #:	·			
GSW	Operator Name:			
	Lease Name: License #:			
Spud Date or Date Reached TD Completion Date or	QuarterSecTwpS. R East West			
Recompletion Date Recompletion Date	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 III Approved by: Date:				

KOLAR Document ID: 1462289

Page Two

Operator Name:					Lease Nam	ne:			Well #:	
Sec Tw	rpS	S. R	Eas	st West	County:					
	l, flowing an	d shut-in pres	sures, wh	ether shut-in pre	ssure reached	static	level, hydrostat	ic pressures, bo		val tested, time tool erature, fluid recovery,
Final Radioactivi files must be sub							gs must be emai	led to kcc-well-l	ogs@kcc.ks.gov	v. Digital electronic log
Drill Stem Tests (Attach Addit)		Yes No		Lo		n (Top), Depth a		Sample
Samples Sent to	Geological	Survey		Yes No		Name			Тор	Datum
Cores Taken Electric Log Run Geologist Report List All E. Logs F	t / Mud Log	s		Yes No Yes No Yes No						
			Rep	CASING	RECORD [Nev		on, etc.		
Purpose of St	tring	Size Hole Drilled		Size Casing let (In O.D.)	Weight Lbs. / Ft.		Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
				ADDITIONAL	CEMENTING /	SQUE	EEZE RECORD		<u>'</u>	
Purpose: Perforate		Depth Top Bottom	Тур	pe of Cement	# Sacks Use	ed		Type and	Percent Additives	
Protect Ca										
Plug Off Z										
Did you perform Does the volume Was the hydraul	e of the total	base fluid of the	hydraulic	fracturing treatment		-	Yes S? Yes Yes	No (If No, s	kip questions 2 ar kip question 3) ill out Page Three	
Date of first Produ Injection:	ction/Injection	n or Resumed P	roduction/	Producing Meth	od:		Gas Lift O	ther <i>(Explain)</i>		
Estimated Product Per 24 Hours		Oil	Bbls.		Mcf	Water			Gas-Oil Ratio	Gravity
DISPO	OSITION OF	GAS:		N	METHOD OF CO	MPLET	ΓΙΟΝ:			DN INTERVAL: Bottom
Vented		Used on Lease		Open Hole		Dually (Submit A		nmingled nit ACO-4)	Тор	BOLLOTTI
,	ed, Submit AC							·		
Shots Per Foot	Perforation Top	on Perfor Bott		Bridge Plug Type	Bridge Plug Set At		Acid,		ementing Squeeze and of Material Used)	
TUBING RECORI	D: S	Size:	Set A	: -	Packer At:					

Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	MCINTYRE 1-20
Doc ID	1462289

Tops

Name	Тор	Datum
ANHYDRITE	1040	+963
BASE ANHYDRITE	1068	+935
TARKIO	2784	-781
ТОРЕКА	2919	-916
HEEBNER	3244	-1241
LANSING	3302	-1299
BASE KANSAS CITY	3525	-1522
REAGAN	3603	-1600
GRANITY WASH	3656	-1653

Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	MCINTYRE 1-20
Doc ID	1462289

Casing

		Size Casing Set	Weight	Setting Depth	Cement		Type and Percent Additives
Surface	12.25	8.625	23	1040	A-CONN		3%CC 1/4#CF
Surface	12.25	8.625	23	1040	COMMON	155	2%CC
Production	7.875	5.5	15.5	3700	AA-2	150	4%GEL
Production	7.875	5.5	15.5	3700	60/40 POZMIX	30	@ RATHOLE

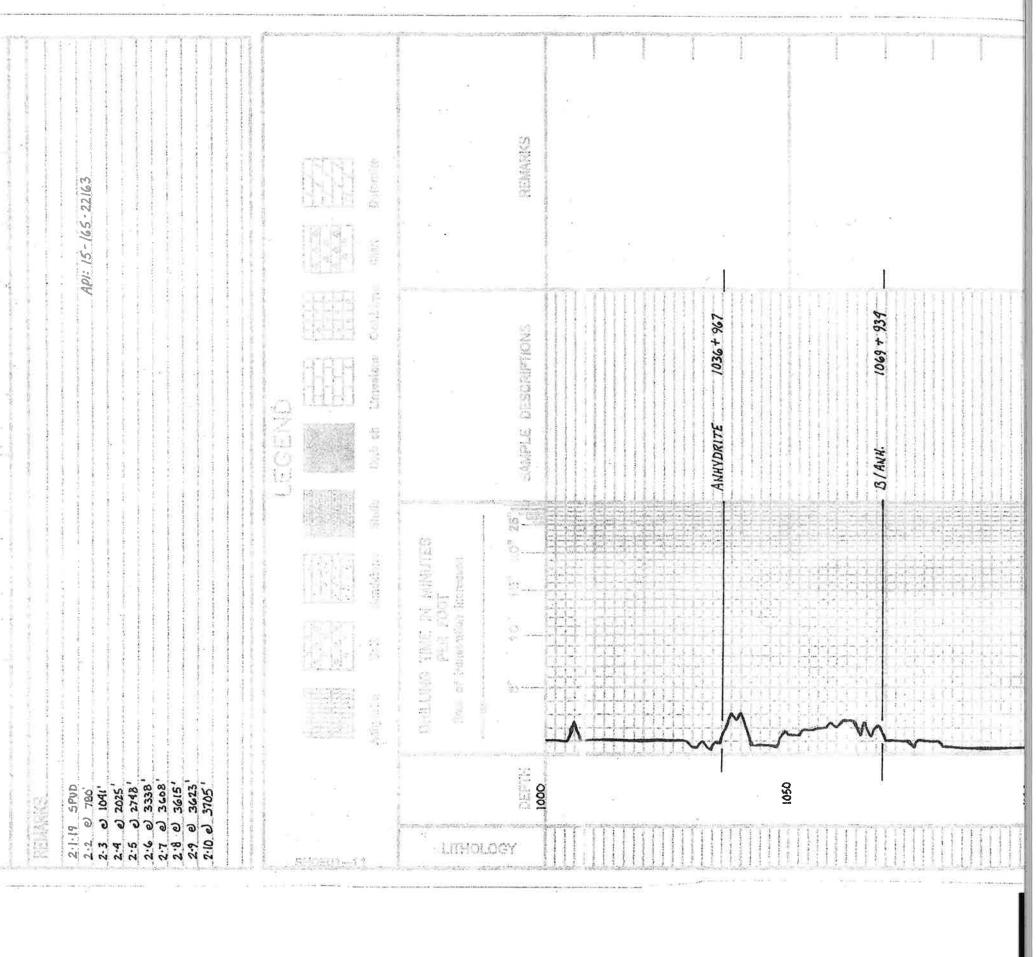
KIM B. SHOEMAKER

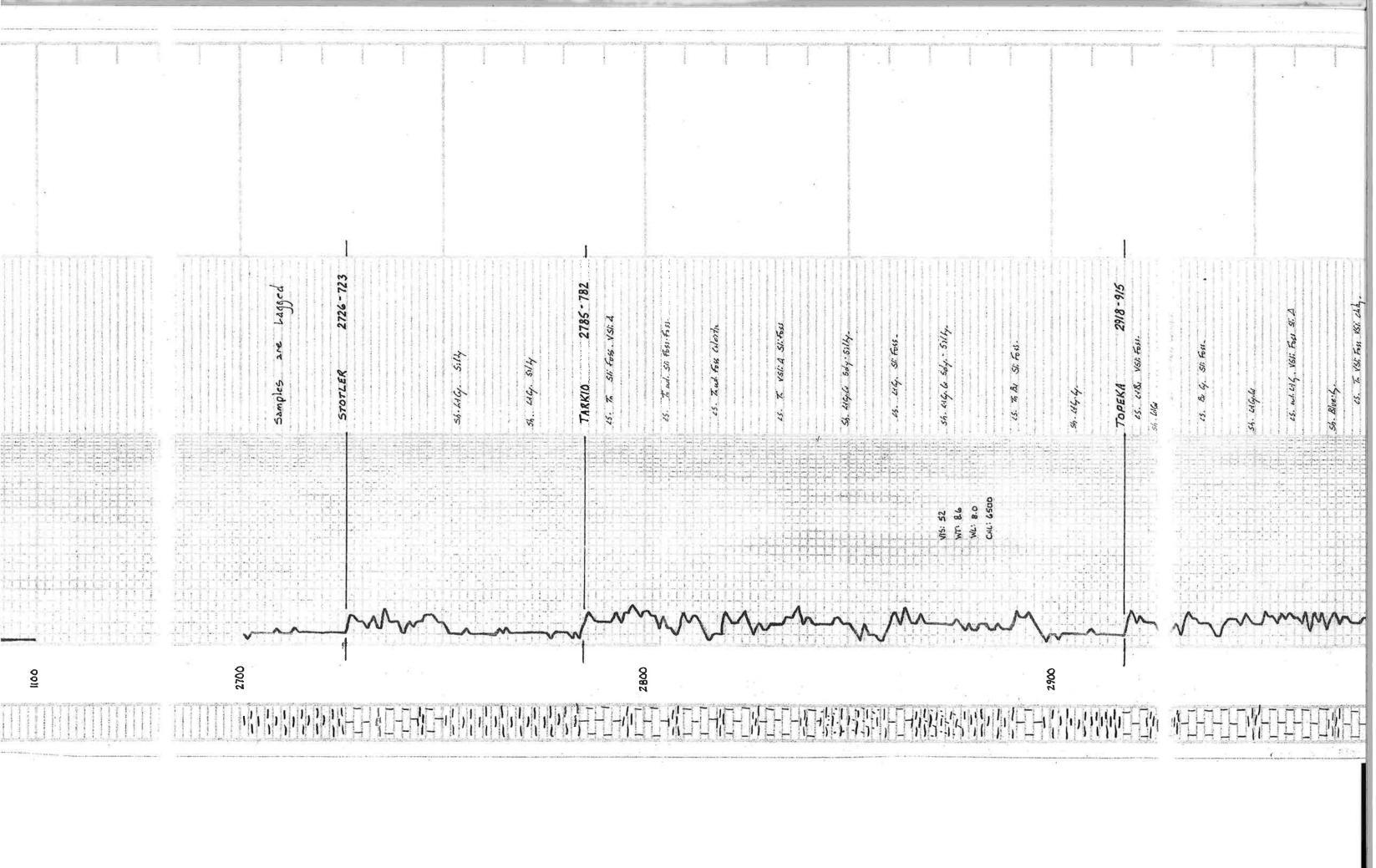
CONSULTING GEOLOGIST 316-684-9709 * WICHITA,KS

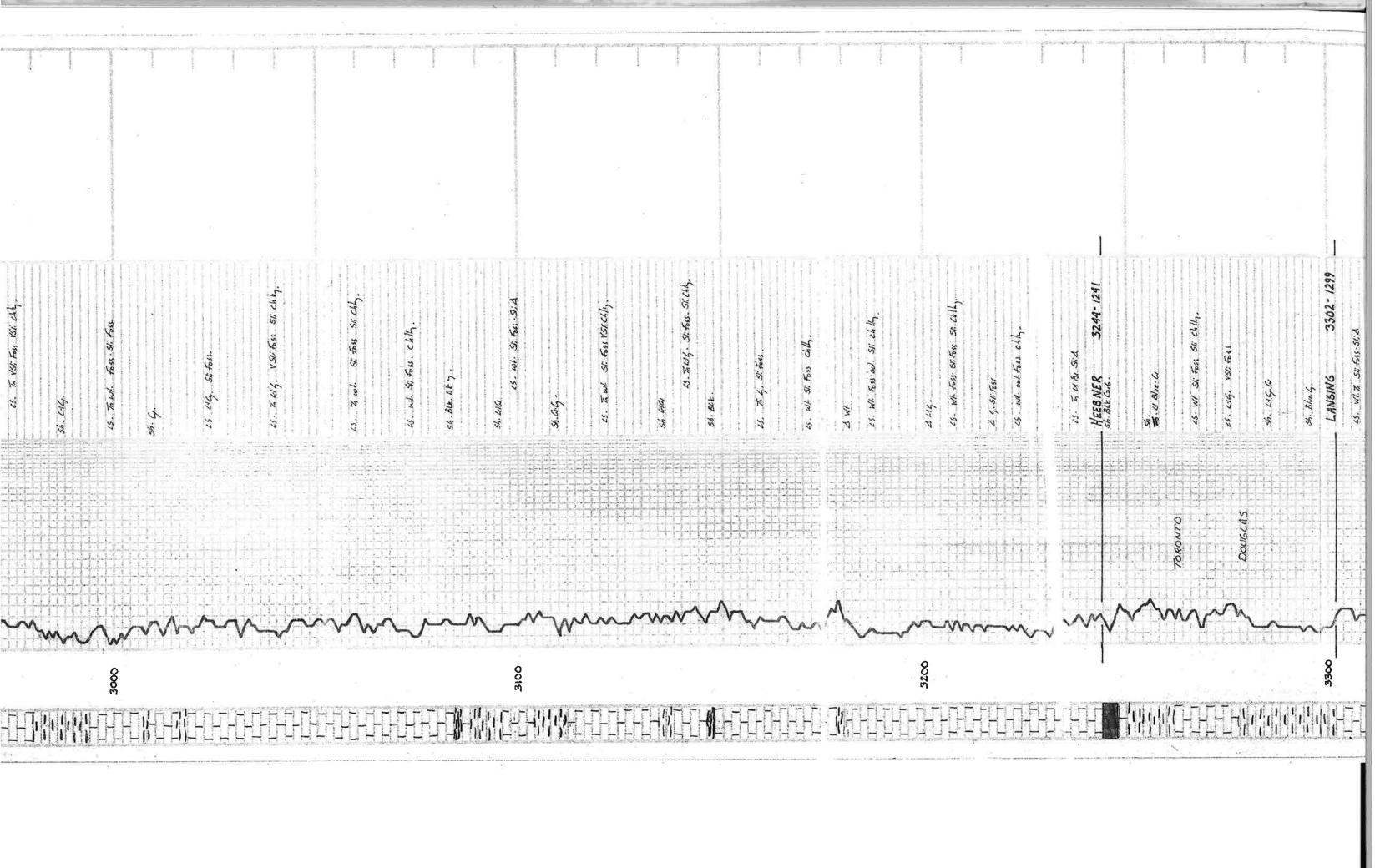
GEOLOGIST'S REPORT

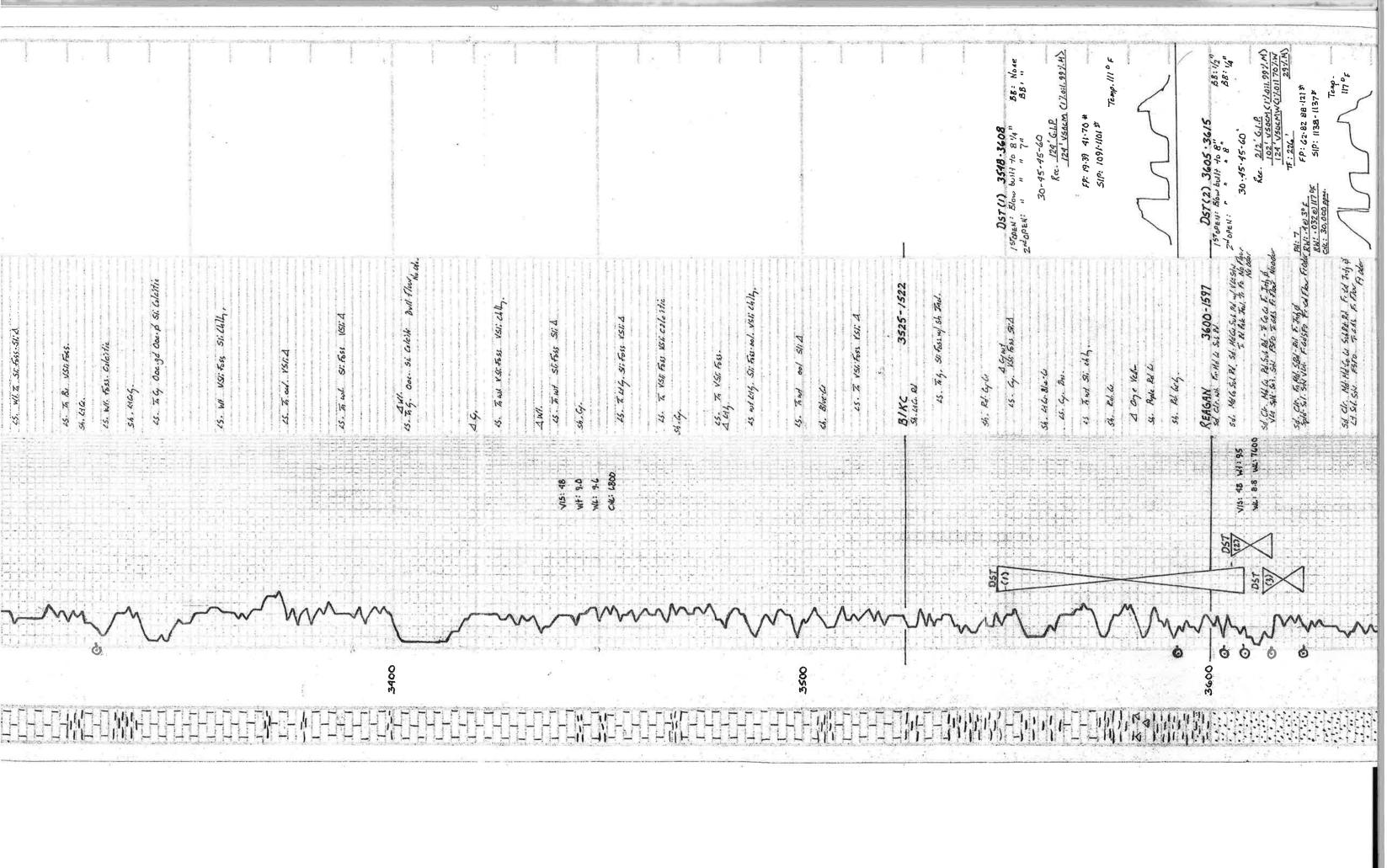
BRALLING TIME AND SAMPLE LOG

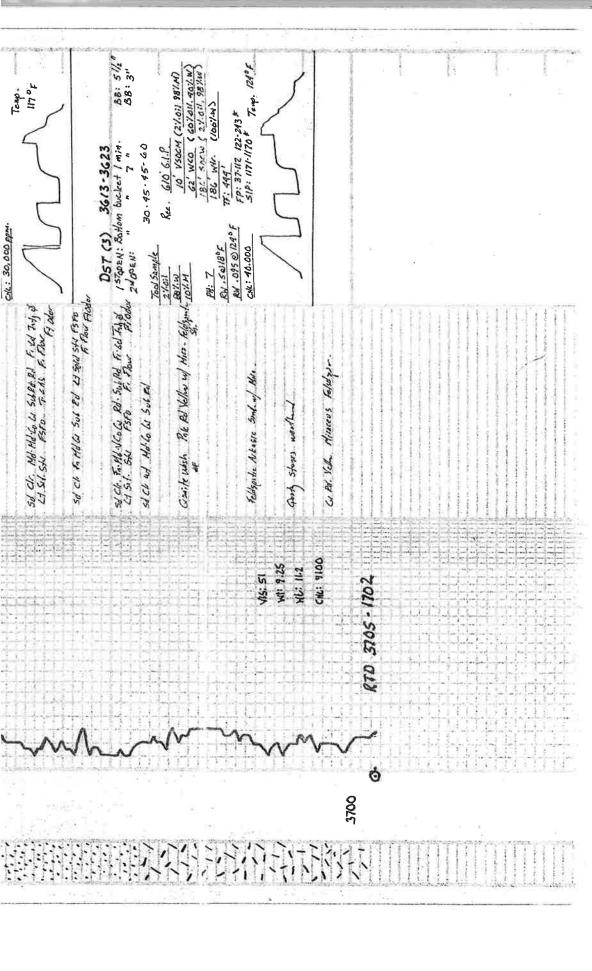
L.D.	DRILLING, INC.			LEVA	HONS	
FC	MCINTYRE	- 10134 / 4 /	KB	2002		
OTIS - ALBERT						
			DF			
			hedre on	1998	***** * * * * *	
20.	18s	16 w	W Su	emen		Sec.
NEW RUSH	KANS	5A 5		2003	KB	e trajeco
CONTRACTORL.D.	DRILLING, INC.		· -	8 5/		
2.1.19	2-10	-19	- PRODUCT	5	1/210	ndistribution (
3705	3695		FLECT	RICAL	SUPA	Æ.
			DUAL IN	D., DE	45-N, D	AICR!
2748	CH.	IEMICAL	SONIC		35 *	
SANDLES SAVED TROM	er at action of	2760	37	05	e (= 2).67	
REMINIS THE RET						
SAMPLES EXAMEND F	16M	2760	37	105	110	
GEOLOGICAL SUPERVIS	SON FROM	2900	703	105		
CELLIFICATION WELL.	KIM B. SHOEMAI		denomination		rombook, ma	ec euro
r. States for a	109	SWMES	desection			
ANHYDRITE	1040+ 4963	1036 + 967	. 100,000			
B/ANH.	1068+ 935	1069 + 934	Principle No.	+	1	
TARKIO	2784- 781	2785 + 782	Jendovn 6	1	1	L
TOPEKA	2919-916		Commercial	+	14	1
HEEBNER	3244 - 124 1	3244 1241			\$ \$	
LANSING	3302-1299	3302-1299	worlden	*	\$ \$, 1
B/KC	3525-1522	3525-1522 3600-1597	erenes	-	1	0
VEACAN	2/02-1/00	3600-1-11	1	1		The same
REAGAN GRANITE WASH	3603-1600 3656-1653	3655-1652	1	1	1	1













SEC: 20 TWN: 18S RNG: 16W

County: RUSH State: Kansas

Drilling Contractor: L. D. Drilling, Inc -

Rig 1

Elevation: 2002 EGL Field Name: Otis-Albert

Pool: Infield Job Number: 298

Operation:

Uploading recovery & pressures

> **DATE** February

07 2019 **DST #1** Formation: Reagan Sand

Test Interval: 3548 -

Total Depth: 3608'

3608'

Time On: 06:59 02/07 Time Off: 14:40 02/07

Time On Bottom: 09:39 02/07 Time Off Bottom: 12:39 02/07

Electronic Volume Estimate:

141'

1st Open Minutes: 30 **Current Reading:**

8.3" at 30 min

Max Reading: 8.3"

1st Close Minutes: 45 **Current Reading:**

0" at 45 min

Max Reading: 0"

2nd Open Minutes: 45 **Current Reading:**

7" at 45 min

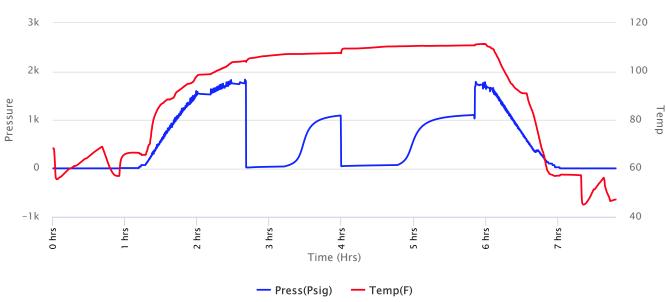
Max Reading: 7"

2nd Close Minutes: 60 **Current Reading:**

0" at 60 min

Max Reading: 0"

Inside Recorder





County: RUSH State: Kansas

Drilling Contractor: L. D. Drilling, Inc -

SEC: 20 TWN: 18S RNG: 16W

Rig 1

Elevation: 2002 EGL Field Name: Otis-Albert

Pool: Infield Job Number: 298

Operation:

Uploading recovery & pressures

> **DATE** February

07 2019 DST #1 Formation: Reagan Sand

Test Interval: 3548 -

Total Depth: 3608'

3608'

Time On: 06:59 02/07 Time Off: 14:40 02/07

Time On Bottom: 09:39 02/07 Time Off Bottom: 12:39 02/07

Recovered

<u>Foot</u>	BBLS	<u>Description of Fluid</u>
124	1.27224	G
124	1.27224	SLOSM

Gas %	<u>Oil %</u>	Water %	Mud %
100	0	0	0
0	1	0	99

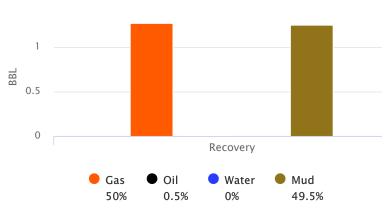
Total Recovered: 248 ft

Total Barrels Recovered: 2.54448

Reversed	Out
NO	

Initial Hydrostatic Pressure	1738	PSI
Initial Flow	19 to 39	PSI
Initial Closed in Pressure	1091	PSI
Final Flow Pressure	41 to 70	PSI
Final Closed in Pressure	1101	PSI
Final Hydrostatic Pressure	1736	PSI
Temperature	111	°F
Pressure Change Initial	0.0	%
Close / Final Close		

Recovery at a glance



GIP cubic foot volume: 7.14299



Uploading recovery &

pressures

Company: L. D. Drilling, Inc Lease: McIntyre #1-20

SEC: 20 TWN: 18S RNG: 16W

Total Depth: 3608'

County: RUSH State: Kansas

Drilling Contractor: L. D. Drilling, Inc -

Rig 1

Elevation: 2002 EGL Field Name: Otis-Albert

Pool: Infield Job Number: 298

DATEFebruary

07 2019

DST #1 Formation: Reagan Test Interval: 3548 - Sand 3608'

Time On: 06:59 02/07 Time Off: 14:40 02/07

Time On Bottom: 09:39 02/07 Time Off Bottom: 12:39 02/07

BUCKET MEASUREMENT:

1st Open: 1/4" Blow. Built to 8 1/4 inches in 30 mins

1st Close: NOBB

2nd Open: 1" Blow. Built to 7 inches in 45 mins

2nd Close: NOBB



Uploading recovery &

pressures

Company: L. D. Drilling, Inc Lease: McIntyre #1-20

SEC: 20 TWN: 18S RNG: 16W

County: RUSH State: Kansas

Drilling Contractor: L. D. Drilling, Inc -

Rig 1

Elevation: 2002 EGL Field Name: Otis-Albert

Pool: Infield Job Number: 298

DATE

07 2019

DST #1 Formation: Reagan Sand

Test Interval: 3548 -

Total Depth: 3608'

d 3608'

Time On: 06:59 02/07 Time Off: 14:40 02/07

Time On Bottom: 09:39 02/07 Time Off Bottom: 12:39 02/07

Down Hole Makeup

Heads Up: 13.13 FT **Packer 1:** 3542.96 FT

Drill Pipe: 3528.52 FT **Packer 2:** 3547.96 FT

ID-3 1/4 Top Recorder: 3532.38 FT

Weight Pipe: FT

ID-2 7/8 Bottom Recorder: 3586 FT

Collars: 0 FT Well Bore Size: 7 7/8

ID-2 1/4 Surface Choke: 1"

Test Tool: 33.57 FT Bottom Choke: 5/8"

ID-3 1/2-FH

Jars

Safety Joint

Total Anchor: 60.04

Anchor Makeup

Packer Sub: 1 FT

Perforations: (top): 3 FT

4 1/2-FH

Change Over: 1 FT

Drill Pipe: (in anchor): 31.04 FT

ID-3 1/4

Change Over: 1 FT

23 FT

4 1/2-FH

Perforations: (below):



Uploading recovery &

pressures

Company: L. D. Drilling, Inc Lease: McIntyre #1-20 SEC: 20 TWN: 18S RNG: 16W

County: RUSH State: Kansas

Drilling Contractor: L. D. Drilling, Inc -

Rig 1

Elevation: 2002 EGL Field Name: Otis-Albert

Pool: Infield Job Number: 298

DATE February

07 2019

DST #1 Formation: Reagan Sand

Test Interval: 3548 -

Total Depth: 3608'

nd 3608'

Time On: 06:59 02/07 Time Off: 14:40 02/07

Time On Bottom: 09:39 02/07 Time Off Bottom: 12:39 02/07

Mud Properties

Mud Type: Chem Weight: 9 Viscosity: 48 Filtrate: 9.6 Chlorides: 6800 ppm



County: RUSH State: Kansas

Drilling Contractor: L. D. Drilling, Inc -

SEC: 20 TWN: 18S RNG: 16W

Rig 1

Elevation: 2002 EGL Field Name: Otis-Albert

Pool: Infield Job Number: 298

Operation:
Uploading recovery & pressures

DATE February 07

2019

DST #1 Formation: Reagan Sand

Test Interval: 3548 -

Total Depth: 3608'

nd 3608'

Time On: 06:59 02/07 Time Off: 14:40 02/07

Time On Bottom: 09:39 02/07 Time Off Bottom: 12:39 02/07

Gas Volume Report

1st Open 2nd Open

I	Time	Orifice	PSI	MCF/D	Time	Orifice	PSI	MCF/D
- 1								



State: Kansas

SEC: 20 TWN: 18S RNG: 16W

County: RUSH

Drilling Contractor: L. D. Drilling, Inc -

Rig 1

Elevation: 2002 EGL Field Name: Otis-Albert

Pool: Infield Job Number: 298

Operation:

Uploading recovery & pressures

> **DATE** February

> > 07 2019

DST #2 Formation: Reagan Sand

Test Interval: 3605 -

Total Depth: 3615'

3615'

Time On: 22:29 02/07 Time Off: 06:12 02/08

Time On Bottom: 00:34 02/08 Time Off Bottom: 03:34 02/08

Electronic Volume Estimate:

156'

1st Open Minutes: 30 **Current Reading:**

8" at 30 min

Max Reading: 8"

1st Close Minutes: 45 **Current Reading:**

.5" at 45 min

Max Reading: .5"

2nd Open Minutes: 45

Current Reading: 7.9" at 45 min

Max Reading: 7.9"

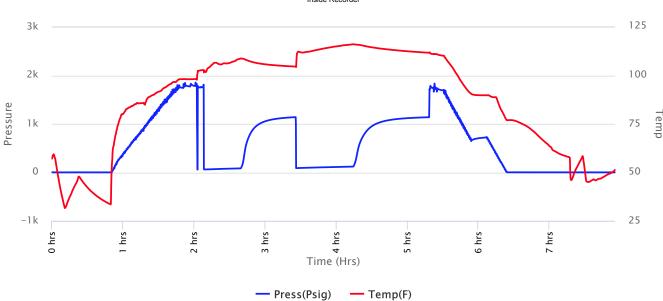
2nd Close Minutes: 60

Current Reading:

.25" at 60 min

Max Reading: .25"

Inside Recorder





SEC: 20 TWN: 18S RNG: 16W County: RUSH

State: Kansas

Drilling Contractor: L. D. Drilling, Inc -

Rig 1

Elevation: 2002 EGL Field Name: Otis-Albert

Pool: Infield Job Number: 298

Operation:

Uploading recovery & pressures

> **DATE** February 07 2019

DST #2 Formation: Reagan Sand

Test Interval: 3605 -

Total Depth: 3615'

3615'

Time On: 22:29 02/07 Time Off: 06:12 02/08

Time On Bottom: 00:34 02/08 Time Off Bottom: 03:34 02/08

Recovered

<u>Foot</u>	<u>BBLS</u>	Description of Fluid	
212	2.17512	G	
102	1.04652	OSM	
124	1.27224	SLOCMCW	

Gas %	<u>Oil %</u>	Water %	Mud %
100	0	0	0
0	1	0	99
0	1	70	29

Total Recovered: 438 ft

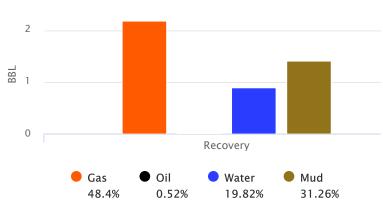
Total Barrels Recovered: 4.49388

Reversed Out
NO

Initial Hydrostatic Pressure	1749	PSI
Initial Flow	62 to 82	PSI
Initial Closed in Pressure	1138	PSI
Final Flow Pressure	88 to 121	PSI
Final Closed in Pressure	1137	PSI
Final Hydrostatic Pressure	1749	PSI
Temperature	117	°F
Pressure Change Initial	0.1	%
Close / Final Close		

GIP cubic foot volume: 12.21221

Recovery at a glance





Uploading recovery &

Company: L. D. Drilling, Inc Lease: McIntyre #1-20

SEC: 20 TWN: 18S RNG: 16W

County: RUSH State: Kansas

Drilling Contractor: L. D. Drilling, Inc -

Rig 1

Elevation: 2002 EGL Field Name: Otis-Albert

Pool: Infield Job Number: 298

pressures

DATE

February

07

2019

DST #2

Formation: Reagan Sand

Test Interval: 3605 -

Total Depth: 3615'

3615'

Time On: 22:29 02/07

Time Off: 06:12 02/08

Time On Bottom: 00:34 02/08 Time Off Bottom: 03:34 02/08

BUCKET MEASUREMENT:

Diesel in Bucket

1st Open: 1'4" Blow. Built to 8 inches in 30 mins

1st Close: 1/2" Blow Back

2nd Open: 1" Blow Built to 8 inches in 45 mins

2nd Close: 1/4" Blow Back

REMARKS:

Hit Bridge on First Attempt to Set Packers. Most of the Mud was From The First Attempt and Second Attempt Went Fine but slid through the first opening.

Tool Sample: Blown Out

Ph: 7

Measured RW: .4 @ 3 degrees °F

RW at Formation Temp: 0.032 @ 117 °F

Chlorides: 30,000 ppm



County: RUSH

State: Kansas Drilling Contractor: L. D. Drilling, Inc -

SEC: 20 TWN: 18S RNG: 16W

Rig 1

Elevation: 2002 EGL Field Name: Otis-Albert

Pool: Infield Job Number: 298

Operation:

Uploading recovery & pressures

DATE

February

07

2019

DST #2

Formation: Reagan

Test Interval: 3605 -3615'

Total Depth: 3615'

Sand

Time On: 22:29 02/07

Time Off: 06:12 02/08

Time On Bottom: 00:34 02/08 Time Off Bottom: 03:34 02/08

Down Hole Makeup

Heads Up: 18.63 FT Packer 1: 3600 FT

Drill Pipe: 3591.06 FT Packer 2: 3605 FT

> Top Recorder: 3589.42 FT

Weight Pipe: FT

Bottom Recorder: 3607 FT ID-2 7/8

Well Bore Size: 7 7/8 Collars: 0 FT

Surface Choke: 1" ID-2 1/4

Bottom Choke: 5/8" **Test Tool:** 33.57 FT

ID-3 1/2-FH

ID-3 1/4

Jars

Safety Joint

Total Anchor: 10

Anchor Makeup

Packer Sub: 1 FT

Perforations: (top): 0 FT

4 1/2-FH

Change Over: 0 FT

Drill Pipe: (in anchor): 0 FT

ID-3 1/4

Change Over: 0 FT

Perforations: (below): 9 FT 4 1/2-FH



Uploading recovery &

pressures

Company: L. D. Drilling, Inc Lease: McIntyre #1-20 SEC: 20 TWN: 18S RNG: 16W

County: RUSH State: Kansas

Drilling Contractor: L. D. Drilling, Inc -

Rig 1

Elevation: 2002 EGL Field Name: Otis-Albert

Pool: Infield Job Number: 298

DATE February 07

2019

DST #2 Formation: Reagan Sand

Time On: 22:29 02/07

Test Interval: 3605 - To 3615'

Total Depth: 3615'

Caria

Time Off: 06:12 02/08

Time On Bottom: 00:34 02/08 Time Off Bottom: 03:34 02/08

Mud Properties

Mud Type: Chem Weight: 9.5 Viscosity: 48 Filtrate: 8.8 Chlorides: 7600 ppm



County: RUSH State: Kansas

Drilling Contractor: L. D. Drilling, Inc -

SEC: 20 TWN: 18S RNG: 16W

Total Depth: 3615'

Rig 1

Elevation: 2002 EGL Field Name: Otis-Albert

Pool: Infield Job Number: 298

Operation: Uploading recovery & pressures

> **DATE** February

07 2019 **DST #2** Formation: Reagan Test Interval: 3605 -Sand 3615'

> Time On: 22:29 02/07 Time Off: 06:12 02/08

Time On Bottom: 00:34 02/08 Time Off Bottom: 03:34 02/08

Gas Volume Report

1st Open 2nd Open



SEC: 20 TWN: 18S RNG: 16W

County: RUSH State: Kansas

Drilling Contractor: L. D. Drilling, Inc -

Rig 1

Elevation: 2002 EGL Field Name: Otis-Albert

Pool: Infield Job Number: 298

Operation:

Uploading recovery & pressures

> **DATE** February

> > 80 2019

DST #3 Formation: Reagan Sand

Test Interval: 3613 -3623'

Total Depth: 3623'

Time On: 20:21 02/08

Time Off: 04:22 02/09

Time On Bottom: 22:22 02/08 Time Off Bottom: 01:22 02/09

Electronic Volume Estimate: 1286'

1st Open Minutes: 30 **Current Reading:** 81.6" at 30 min

4.4" at 45 min Max Reading: 81.6" Max Reading: 5.5"

2nd Open Minutes: 45 **Current Reading:**

61.5" at 45 min Max Reading: 61.5"

2nd Close Minutes: 60 **Current Reading:**

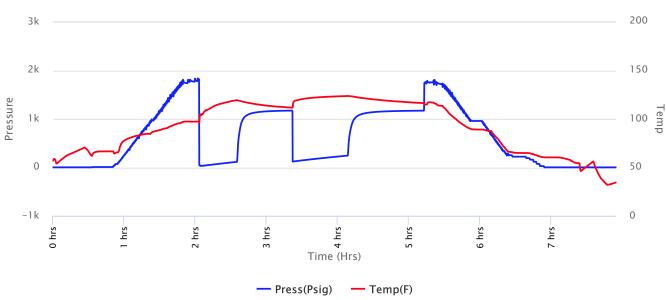
3" at 60 min Max Reading: 3"

Inside Recorder

1st Close

Minutes: 45

Current Reading:





SEC: 20 TWN: 18S RNG: 16W County: RUSH

State: Kansas

Drilling Contractor: L. D. Drilling, Inc -

Rig 1

Elevation: 2002 EGL Field Name: Otis-Albert

Pool: Infield Job Number: 298

Operation:

Uploading recovery & pressures

> **DATE** February 80 2019

DST #3 Formation: Reagan Test Interval: 3613 -Sand

3623'

Total Depth: 3623'

Time On: 20:21 02/08 Time Off: 04:22 02/09

Time On Bottom: 22:22 02/08 Time Off Bottom: 01:22 02/09

Recovered

<u>Foot</u>	<u>BBLS</u>	Description of Fluid				
610	6.2586	G				
10	0.1026	SLOCM				
62	0.63612	HWCO				
186	1.90836	SLOCW				
186	1.90836	W				

<u>Gas %</u>	<u>Oil %</u>	Water %	<u>Mud %</u>
100	0	0	0
0	2	0	98
0	60	40	0
0	2	98	0
0	0	100	0

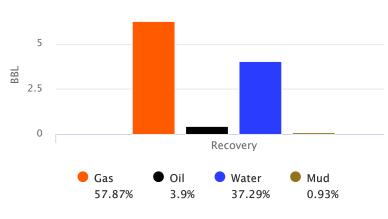
Total Recovered: 1054 ft

Total Barrels Recovered: 10.81404

Reversed Out
NO

Initial Hydrostatic Pressure	1777	PSI
Initial Flow	37 to 112	PSI
Initial Closed in Pressure	1171	PSI
Final Flow Pressure	122 to 243	PSI
Final Closed in Pressure	1170	PSI
Final Hydrostatic Pressure	1758	PSI
Temperature	124	°F
Pressure Change Initial	0.1	%
Close / Final Close		

Recovery at a glance



GIP cubic foot volume: 35.13891



County: RUSH State: Kansas

Drilling Contractor: L. D. Drilling, Inc -

SEC: 20 TWN: 18S RNG: 16W

Rig 1

Elevation: 2002 EGL Field Name: Otis-Albert

Pool: Infield Job Number: 298

Operation:

Uploading recovery & pressures

> **DATE** February

> > 2019

80

DST #3 Formation: Reagan Test Interval: 3613 -Total Depth: 3623' Sand 3623'

Time On: 20:21 02/08 Time Off: 04:22 02/09

Time On Bottom: 22:22 02/08 Time Off Bottom: 01:22 02/09

BUCKET MEASUREMENT:

Diesel in Bucket

1st Open: 1" Blow. BOB in 1 min 1st Close: 5 1/2 inch Blow Back 2nd Open: 3 1/2 Blow. BOB in 7 mins

2nd Close: 3 inch Blow Back

REMARKS:

Tool Sample: 0% Gas 2% Oil 88% Water 10% Mud

Ph: 7

Measured RW: .5 @ 18 degrees °F

RW at Formation Temp: 0.095 @ 124 °F

Chlorides: 40,000 ppm



Uploading recovery &

pressures

Company: L. D. Drilling, Inc Lease: McIntyre #1-20

SEC: 20 TWN: 18S RNG: 16W

County: RUSH State: Kansas

Drilling Contractor: L. D. Drilling, Inc -

Rig 1

Elevation: 2002 EGL Field Name: Otis-Albert

Pool: Infield Job Number: 298

DATE

08 2019

DST #3 Formation: Reagan Test Interval: 3613 - Total Depth: 3623' Sand 3623'

Time On: 20:21 02/08 Time Off: 04:22 02/09

Time On Bottom: 22:22 02/08 Time Off Bottom: 01:22 02/09

Down Hole Makeup

Heads Up: 10.1 FT Packer 1: 3608 FT

Drill Pipe: 3590.53 FT **Packer 2:** 3613 FT

ID-3 1/4 Top Recorder: 3597.42 FT

Weight Pipe: FT

ID-2 7/8 Bottom Recorder: 3615 FT

Collars: 0 FT Well Bore Size: 7 7/8

ID-2 1/4 Surface Choke: 1"

Test Tool: 33.57 FT Bottom Choke: 5/8"

ID-3 1/2-FH

Jars Safety Joint

Total Anchor: 10

Anchor Makeup

Packer Sub: 1 FT

Perforations: (top): 0 FT

4 1/2-FH

Change Over: 0 FT

Drill Pipe: (in anchor): 0 FT

ID-3 1/4

Change Over: 0 FT

Perforations: (below): 9 FT

4 1/2-FH



Uploading recovery &

pressures

Company: L. D. Drilling, Inc Lease: McIntyre #1-20 SEC: 20 TWN: 18S RNG: 16W

County: RUSH State: Kansas

Drilling Contractor: L. D. Drilling, Inc -

Rig 1

Elevation: 2002 EGL Field Name: Otis-Albert

Pool: Infield Job Number: 298

DATE February

08 2019

DST #3 Formation: Reagan Sand

Time On: 20:21 02/08

Test Interval: 3613 - 3623'

Total Depth: 3623'

Sand 362

Time Off: 04:22 02/09

Time On Bottom: 22:22 02/08 Time Off Bottom: 01:22 02/09

Mud Properties

Mud Type: Chem Weight: 9.3 Viscosity: 47 Filtrate: 10.4 Chlorides: 8300 ppm



County: RUSH State: Kansas

Drilling Contractor: L. D. Drilling, Inc -

SEC: 20 TWN: 18S RNG: 16W

Rig 1

Elevation: 2002 EGL Field Name: Otis-Albert

Pool: Infield Job Number: 298

Operation: Uploading recovery &

pressures

DATEFebruary

08 2019

DST #3 Formation: Reagan Test Interval: 3613 - Total Depth: 3623' Sand 3623'

Time On: 20:21 02/08 Time Off: 04:22 02/09

Time On Bottom: 22:22 02/08 Time Off Bottom: 01:22 02/09

Gas Volume Report

1st Open 2nd Open

I	Time	Orifice	PSI	MCF/D	Time	Orifice	PSI	MCF/D
- 1	_		_		-		_	



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

1718 **17637** A

DATE TICKET NO.

				DATE	TICKET NO	D					
DATE OF 2-10-19 DISTRICT Pratt					NEW WELL	OLD □ F	PROD []INJ	□ WDW		JSTOMER RDER NO.:	
CUSTOMER L	D Dr	tilling inc			LEASE /	1cII	7+7/~			WELL NO.	-20
ADDRESS					COUNTY RUSH STATE US						
CITY		STATE	N-4W-		SERVICE CI	REW M	ATTAI M	Nquez	Porin	60 SC07	7
AUTHORIZED B	BY	····			JOB TYPE:	2-4	1. 0	Long			
EQUIPMENT	T# HRS	EQUIPMENT#	HRS	EQI	JIPMENT#	HRS	TRUCK CAL	ED .	2-90		WE 5
20921							ARRIVED AT		2-10		4 b
		4					START OPE	RATION		AN 8:	
1991	8 , 8						FINISH OPE	RATION		AM 91	30
					•		RELEASED				. 30
							MILES FROM	A STATION	TO WELL	65	
products, and/or su	d is authorized to applies includes a	NTRACT CONDITIONS: (This o execute this contract as an all of and only those terms and but the written consent of an o	agent of the custo conditions appear	mer. A ring on	s such, the under the front and bac	rsigned agre ck of this do	ees and acknowl cument. No addit	edges that this ional or substi	s contract fo tute terms a		s shall
ITEM/PRICE REF. NO.		MATERIAL, EQUIPMENT	AND SERVICE	ES US	ED	UNIT	QUANTITY	UNIT PI	RICE	\$ AMOUN	1T
CP 105	17A-2	CMT				54	150		1	2.550	or
CP1U3	60/40					54	30			360	S
C C 102	Collor	14169				116	38			140	60
CC 105	C-41 F	7				lb.	7/			284	0)
CC 111	541+					14	814			407	00
CC 113	SYPSMI	η			······	16	705			528	++-
CC 148	C-17					16	97			1,840	U
CC 200	cmt 5					IP	52			13	w
CC 201	gilsoni		51			16	898			100	66
CE 1521		IL FlUAT Shur	5%			er.	(360	
CK 607		Down Pluy + bar				4A 41				400	do
CK [90]	BASKI		5/3				C			290	
E 100	tulbu	11/2-5	51	·		en	8			480	
	THAYY					Mi	ļ			<u> </u>	20
B 101	Prof +	eq miles				Mi	130 543				00
Cr 204	depth		1-4000			7m 461	777	je.		2,160	88
	· · · · · · · · · · · · · · · · · · ·		1- 9000			5.4	180			252	
ec 240	bleno	CONTAINOR				313	100			25U	
5003	5 UP = /1					OA-	1	٠	TOTAL	250	
CC15 CHI	EMICAL / ACID I					246	1,000	S08 45 მ	TOTAL רכ	15,616	39
-			-	SEI	RVICE & EQUI	PMENT		ON\$			
			-	MA	TERIALS		%TAX	ON \$			
]						TOTAL	9,369	83

SERVICE REPRESENTATIVE MIKE MATTAL

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY

W.R



TREATMENT REPORT

ener	$\mathbf{g}\mathbf{y}$ se		C B, L.P.					13						
Customer	orilli	19 10	ر ^ا	ease No.					Date	1.45	1 0			
Lease Mc	V			2-10	-17									
Field Order	5 7 Station	Pratt				Casing 5	Dept	705	County	Rush	· · · · · · · · · · · · · · · · · · ·	State 1/5		
Type Job	2-42		1 Lon	5 57	rin		Formation		Legal Description 20-185-16W					
	E DATA	PERF	ORATING	DATA		FLUID L	JSED	TREATMENT RESUME						
Casing Size Tubing Size Shots/Ft			t		Acid	150	SKS AP	-2 11						
			То		Pre I	Pad 36	5 KJ 6	Mayuu	PUZ	490 54		<u> </u>		
Volume &	Volume	From	То		Pad			Min			10 Min.			
Max Press		From	То		Frac			Avg			15 Min.	15 Min.		
Well Conrecti		ol. From	То					HHP Used	l l		Annulus	Pressure		
Plug Depth (Packer De	epth From	То		Flusi	h 87	1.6	Gas Volun	ne		Total Loa	ıd		
Customer Re			·		Manager Westerm 4			1	Treater MATT					
Service Units	४ ३३५)		84980	2097	u		19960	19918						
Driver Names	MATTAL		Maro	mez			Doni	19U						
Time	Casing Pressure	Tubing Pressure	Bbls. Pum	ped	F	Rate	Service Log							
6:40				-		C		OCATI				•		
)						16'5	~0)						
)	Turbus 1,3,5,7,9,11,13,15 BASKT 2							
7:30)			CSny	· · · · · · · · · · · · · · · · · · ·						
7:38	\					\	HOUR TO (Sng/Break care W. Rig							
8:39	300		5		Ç	5.5	Pump 5 bbl water							
8:41	300		24			5.5	PUMP 24 bbl Map F1456							
8:44	300		5		1	5,5	Pump 5 bbl WATT							
8:47	YW		41		Ų	5	mix 150 SAS AA-L							
8:55			Ĺ	1	4	1	WASH PUMP+ Line / Irop Plug STAIT displacement							
8157	200				6	.5	STAT	displ	Aceme	ent				
9(10	300	/	67	7	6	¿Ś	LIRT	Pres	sure					
9112	400		§	77		<u>,</u> ς 3	Slow rate							
9:15	1500		87.0	Ô	_		Plug down, released + Held							
9:20			7					RAT						
								Arian .						
							JOB ismplete Thank You!							
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to the second		1			*		mike mattal							
		•						ان ک	LEA.			ningu		
10000000000000000000000000000000000000		**************************************	CARROLL .		WARRENGE WARRANT	A CONTRACTOR OF THE PARTY OF TH								



PAGE	CUST NO	YARD #	INVOICE DATE								
1 of 1	1002333	1718	02/04/2019								
INVOICE NUMBER											
92902940											

Pratt

(620) 672-1201

B L.D. DRILLING INC ! ***7 SW 26TH AVE.*** GREAT BEND

KS US 67530

O ATTN:

ACCOUNTS PAYABLE

LEASE NAME

MCINTYRE 1-20

0 LOCATION

COUNTY

RUSH

S STATE

KS

JOB DESCRIPTION Т

Cement-New Well Casing/Pi

JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE	ORDER NO.		TERMS	DUE DATE
41159179	19843				Net - 30 days	03/06/2019
		~	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
For Service Date	es: 02/03/2019 to	02/03/2019	,			
0041159179			+			
			_			
171817574A Cer 8 5/8" SURFACE	ment-New Well Casing/ CASING	Pi 02/03/2019				
A-Con' Blend			255.00	EA	10.80	2,754.00 T
Common CEMENT	- I		155.00		9.60	
Calcium Chloride			1,012.00		0.63	
Celloflake		×	103.00	LB	2.23	228.66 T
Flapper Type Inse	rt Float Valves. 8 5/8"	'	1.00	EA	168.00	168.00
Top Rubber Ceme	nt Plug, 8 5/8"		1.00	EA	135.00	135.00
"Unit Mileage Cho	g (PU, cars one way)"		65.00	MI	2.70	175.50
Heavy Equipment	Mileage		195.00	MI	4.50	877.50
Proppant & Bulk I	Del. Chgs., per ton mil		1.00	EA	1,881.75	1,881.75
Depth Charge; 10	01'-2000'		1.00	EA	900.00	900.00
Blending & Mixing	Service Charge	4	410.00	SK	0.84	344.40
"Service Supervise	or, first 8 hrs on loc.	,	1.00	EA	105.00	105.00
						*
		,			*	
			~			
	·					
		· .				
PLEASE REMIT	TO: SE	ND OTHER CORRES	PONDENCE TO	l):		

BASIC ENERGY SERVICES,LP
PO BOX 841903
BASIC ENERGY SERVICES,LP
801 CHERRY ST, STE 2100
FORT WORTH, TX 76102

SUB TOTAL

TAX

9,695.37

INVOICE TOTAL

332.03 10,027.40



71mH 65 10244 NE Hwy. 61 P.O. Box 8613 Pratt, Kansas 67124 Phone 620-672-1201

FIELD SERVICE TICKET 1718 17574 A

Alexander States	PRESSU	HE PUIVII	PING & VVIRELINE	0-18	55-1	60		DATE	TICKET NO		And the second			
DATE OF JOB	3/2	20190	DISTRICT Prett	IKS	NEW Z	OLD PROD INJ WDW CUSTOMER ORDER NO.:								
CUSTOMER L	1-D	Pr	11119			LEASE MCINTYPE WELL NO. 12								
ADDRESS		en est des				COUNTY RUSH STATE KS								
CITY	ingless er North		STATE	na taliyakeni Markana	SERVICE CREW DGrin, Biett, Disz, Fa, Cleisnie									
AUTHORIZED B	BY					JOB TYPE:	240	2/85/8	Surfa	ce				
EQUIPMENT	Γ#	HRS	EQUIPMENT#	HRS	EQU	JIPMENT#	HRS	PAT	E AM JIN	IE /				
19843			Contraction of the second	- 200	S 1 20 13			ARRIVED AT	T JOB	2/2	AM 5	36		
2/010		1/2						START OPE	RATION	2/.	3 AM 12	2		
19862 1/2		taltos dun calculato Lagrangia paga 1 to a	3 4 - 1 - 1 - 1 - 1	100 CV (0 100)		10 m (c.)	FINISH OPE	RATION	2/	AM)	8			
	200			5. 9. vies 0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			RELEASED	en de la compania. Persona en la compania de la compania	21	AM 1 3	A Jans		
The States of the Control of the Con	1 t. 3447			installed and a second		Arthylan	MILES FROM	M STATION TO	WELL	73				
products, and/or su	ipplies inc	orized to e cludes all	TRACT CONDITIONS: (This execute this contract as an a of and only those terms and t the written consent of an of	agent of the conditions a	customer. A appearing on	s such, the unders the front and back	signed agre of this do	ees and acknow cument. No addi	ledges that this co	terms	and/or conditions	s shall		
ITEM/PRICE REF. NO.		N	ATERIAL, EQUIPMENT	AND SER	UNIT	QUANTITY	UNIT PRIC	E	\$ AMOUN	Τ				
CPION	10-0	Con	Blenz Com	mon	Water the second	entale transfer	SIC	255		e e ette Se e etter	4,590	00		
CP100C	Cor	nmo	0-		TORREST AND A STATE OF		SK	155			2480	00		
CC109	C91	ICIVI	n Chloride			10467	16	1012			1,062	60		
CC 102	Cel	110F	18ke	April 1		-01	16	103	The Section Space	26	381	10		
CF1453	F19	2 ppe	r Type Inse	1+ 1-1	091 49	1405,8518	E9	1	t the transmitter	25	280	0		
CF 105	109	Rub	her Plug 85	18			£9	1			200	00		
F100	Uni	+ mi	lesse Cherse-	PICKUS	s, Sms1	vers & Cors	m	195	- 14.20.00		292	50		
E 113	Pres	by F	Guipment Mi	lesse	· L	A Company	4.01	175	and the same		3.136	25		
CE 202	Den	PYN,	herse', 1,001-	2000		Per sonnile	400	1733		14	1,500	00		
CF 240	. 0		& MIKING Se			Long to the series	SIC	410	48 (p. 167) (Pk)	130	574	00		
5003	Seri	UZE			hison		Es	1		1000	175	00		
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			cticle (infoliage)		2 maring	de Charles	a district		the like place of	0		1		
			and the second				11,000				100000000000000000000000000000000000000			
Carlotter Section 1		1			1			2000			48	10.45		
200 - A. 10 100 - A.	1	J.	Stranger and Santa Con-		7 137 3									
				100 1 PT 4 15					OUD TO) TAI	1/ 100	0		
CHE	EMICAL /	ACID DA	ATA:	1					SUB TO	JIAL	16,158	75		
					SEI	RVICE & EQUIP	MENT	%TA	X ON \$	192	13 17 2 19			
			100 May 100 Ma		MA	TERIALS		%TA	X ON \$			1		
							A	Di:	SCOLAHATO	OTAL JL)	9,695	37		
SERVICE REPRESENTATIV	VE X	eni:	Felenh			RIAL AND SERV		D BY: //	16/1	1				
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TREATMENT REPORT

Customer LD Prillins Lease Mc Invite					Lease No. Well # 1-26						71	12016			
Field Order #	Station	Prax	+,KS	<u>.</u>	·	Ca	asing 5	Dept	1043	County	2usn	State 1CS	>>		
Type Job	2421	85/8	SUL	l'que				Formation	170-11	042	Legal D	Description 20 - 185	Ka		
PIPE	DATA	PEF	RFORAT	ING DA	NG DATA FLUID US			SED		TRE	ATMENT	T RESUME			
Casing Size Tubing Size Shots/Ft		,		Acid				RATE PF	RESS	ISIP					
Depth 1043	Depth	From		То		Pre Pad			Max			5 Min.			
Volume	Volume	From		То		Pad			Min	lin		10 Min.			
Max Press	Max Press	From		То		Frac			Avg			15 Min.			
Well Connection	n Annulus V	ol. From		То					HHP Used	HHP Used		Annulus Pressure			
Plug Depth	Packer De	pth From		То		Flush 4	19801	ię.	Gas Volun			Total Load			
Customer Rep	resentative	icic 6	v /1.sor	S	tation	Manager	9977	F	$J\omega$	Treater	Derin	Franklin			
Service Units	92911	7898.		13 19	960	2/6	10 1	9903	19862	·					
Driver Names	Den	BIEFS Cleisne	· Elergi	re D	152	2 Dis	52 /		ES						
Time	Casing Pressure	Tubing Pressure	Bbls.	Pumped		Rate				Se	ervice Log				
5:30pm							C	on 10	OCSTICI	Petins					
								<u> 255</u>	SK 16	1-Cor	Blen	11	2		
								3% Calcium Chloride, lu # Cellofiske							
								11.8 pps, 261 veile, 15.55 water							
					_			155	SK CO	mmen	Ceme	B	100		
								Chlorise, 14 # Cellofiske							
					_			156	PPSI	1,20	Veil	1, 5,73 WS	Cr		
, and a great	, garage			3				O		10 (10	<u> </u>				
32:00pr	300					5		Pump 3 bhis Water							
	300			8		_5		mix 2555K lesx cement							
	300 3			3		5		Shut down Cement							
									- 100						
	200		<u>O</u>		5		Start dispiscement								
	400				\perp	3		Slow Rate Bump Plug							
	400			55 65		3									
1 copm	900								- 919	hos	hall				
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1024	NE Hiw	av 61	P.O. E	ox 86	13	Pratt,	KS 67	'124-8 6	13 • (620			ax (620) 672-5383	A 45		