





Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	BIGGS 1-36
Doc ID	1376402

Tops

Name	Top	Datum
ANHYDRITE	2932	+407
BASE ANHYDRITE	2967	+372
STOTLER	3832	-493
HEEBNER	4140	-801
LANSING	4188	-849
BASE KANSAS CITY	4444	-1105
PAWNEE	4559	-1220
FORT SCOTT	4622	-1283
CHEROKEE	4652	-1313
MISSISSIPPI	4802	-1463





**BASIC**<sup>SM</sup>  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

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

TTMH=32

FIELD SERVICE TICKET  
1718 16087 A

DATE \_\_\_\_\_ TICKET NO. \_\_\_\_\_

DATE OF JOB: 11-7-2017		DISTRICT		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: LD DRILLING, INC.				LEASE: <del>KAWK</del> Biggs				WELL NO: -17	
ADDRESS				COUNTY: THOMAS		STATE: Ks.			
CITY				STATE		SERVICE CREW: LESLEY, NATAL, YOSHI (LIB.)			
AUTHORIZED BY				JOB TYPE: CNW - 8 5/8" S.P. 242					
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM/PM	TIME
20920	4.5						11-6-17	PM	4:30
19808 (LIB)	4.5					ARRIVED AT JOB		AM/PM	10:00
						START OPERATION		AM/PM	12:45
						FINISH OPERATION		AM/PM	2:00
						RELEASED		AM/PM	2:30
						MILES FROM STATION TO WELL			

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: Leonard Boese  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 103	60/40 POZ	SK	300		3,600.00
CC 102	CELLFLAKE	Lb	75		277.50
CC 109	CALCIUM CHLORIDE	Lb	774		812.70
E 100	PICKUP MILEAGE	MI	100		450.00
E 101	HEAVY EQUIPMENT MILEAGE	MI	200		1,500.00
E 113	BULK DELIVERY CHARGE	TM	1290		3,225.00
CE 200	DEPTH CHARGE, 0-500'	HR	1-4		1,000.00
CE 240	BLENDING & MIXING CHARGE	SK	300		420.00
CE 504	PLUG CONTAINER CHARGE	JOB	1		250.00
S 003	SERVICE SUPERVISOR	EA	1		175.00
					11,710.20
					SUB TOTAL 11,710.20
					6,440.61

CHEMICAL / ACID DATA:


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

TOTAL

SERVICE REPRESENTATIVE

FIELD SERVICE ORDER NO.

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY:

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)



Customer <b>LD DRILLING</b>	Lease No.	Date
Lease <b>KAWK 5999</b>	Well # <b>1-17 TD</b>	<b>11-7-2017</b>
Field Order # <b>16087</b>	Station <b>PRATT, KS.</b>	Casing <b>8 5/8"</b> Depth <b>336'</b> County <b>THOMAS</b> State <b>Ks.</b>
Type Job <b>CNW - 8 5/8" S.P.</b>	Formation	Legal Description <b>17-85-34W</b>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size <b>8 5/8" x 24'</b>	Tubing Size	Shots/Ft	<b>CMT-</b>	Acid <b>300SK 60/40 POZ</b>	RATE	PRESS	ISIP	
Depth <b>332'</b>	Depth	From	To	Pre Pad <b>@ 1.21 CUFT</b>	Max		5 Min.	
Volume <b>21.1 BBL</b>	Volume	From	To	Pad	Min		10 Min.	
Max Press <b>300</b>	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection <b>S.V.</b>	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth <b>312'</b>	Packer Depth	From	To	Flush <b>19.8 BBL</b>	Gas Volume		Total Load	

Customer Representative <b>RICK</b>	Station Manager <b>J. WESTERMAN</b>	Treater <b>K. LESLEY</b>
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Service Units	<b>78868</b>	<b>84980</b>	<b>20920</b>	<b>70897</b>	<b>19808</b>				
Driver Names	<b>LESLEY</b>	<b>MATAL</b>	<b>---</b>	<b>YOSHI (LIBERAL)</b>					

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
10:00 PM					ON LOCATION - SAFETY MEETING
11:45 PM					RUN 8 JTS. OF 8 5/8" x 24# CSG.
12:45 AM					CSG. ON BOTTOM
1:00 AM					BREAK CIRC. W/ RIG
1:22 AM	100		10	5	H2O AHEAD
1:26 AM	200		65	5	MIX 300 SKS 60/40 POZ @ 14.8 PPG
1:39 AM	0		0	5	START DISPLACEMENT
1:41 AM	200		10	4	LIFT PRESSURE
1:43 AM	250		15	3	SLOW RATE
1:45 AM	300		19.8	2	CEMENT @ DESIRED DEPTH
					CIRC. THRU JOB
					CIRC. 20 BBL TO PIT
					JOB COMPLETE,
					THANKS -
					KEVIN LESLEY





Customer <b>LD DRILLING, INC.</b>			Lease No.		Date <b>11-7-2017</b>
Lease <b><del>LADK</del> Biggs</b>		Well # <b>1-17</b>			
Field Order # <b>16008</b>	Station <b>PRATT, KS.</b>	Casing <b>8 5/8"</b>	Depth	County <b>THOMAS</b>	State <b>KS.</b>
Type Job <b>CNW - 1" 8 5/8" S.P.</b>			Formation	Legal Description <b>17-85-34W</b>	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size " <b>8 5/8"</b>	Tubing Size	Shots/Ft	<b>CMT -</b>	Acid	<b>NEET W/2%CC</b>	RATE	PRESS	ISIP
Depth	Depth	From	To	Pre Pad		Max		5 Min.
Volume	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	Packer Depth	From	To	Flush		Gas Volume		Total Load

Customer Representative <b>RICK</b>	Station Manager <b>J. WESTERMAN</b>	Treater <b>K. LESLEY</b>
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Service Units	<b>78868</b>	<b>44991</b>	<b>20920</b>	<b>27008</b>	<b>19883</b>				
Driver Names	<b>LESLEY</b>	<b>MATTAL</b>		<b>LIBERAL BULK</b>	<b>(SANTAGO)</b>				

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<b>11:30AM</b>					<b>ON LOCATION - SAFETY MEETING</b>
					<b>RUN 40' OF 1" PIPE DOWN BACKSIDE</b>
					<b>CMT IS 50' DOWN!</b>
<b>2:15PM</b>	<b>0</b>	<b>0</b>			<b>RAISE CMT TO SURFACE @ 14.8 PPG</b>
<b>3:20PM</b>	<b>0</b>	<b>0</b>	<b>38</b>	<b>1</b>	<b>WAIT 30 MIN - CMT HELD</b>
					<b>WAIT 4 HRS BEFORE DRILLING</b>
					<b>JOB COMPLETE,</b>
					<b>THANKS -</b>
					<b>KEVIN LESLEY</b>







Service Order #: 70,192

Date: 17-Nov-17

Well Name	Location	County	St	API#		
biggs 1-36		thomas	KS			
Formation	Cement Via	Type Of Service	Well Type	Age	AFE#	PO#
	DRILL PIPE	PLUG		NEW		

Customer: LD DRILLING

Remarks: 60/40 POZ, 1.43 YIELD, 13.8 LBS/ GAL  
 50 SKS, 12.7 BBLS, @2950'-2740'  
 100 SKS, 25.5 BBLS, @ 2085'-1662'  
 50 SKS, 12.7 BBLS, @ 380'-177'  
 10 SKS, 2.5 BBLS, @ 40'-0'  
 30 SKS, 7.6 BBLS, RAT HOLE

Customer Rep: R.WILSON

PH:

WELLBORE DATA

Type	Size	Weight	Depth	Volume
Surface Casing:	8.625	24.0	332.0	
Production Casing:				
Intermediate:				
Drill Pipe:	4.500	16.6	2,950.0	
Tubing:				

OTHER DATA

BHT	Max PSI	Total Depth
	292	2,950.0

Packer or Retainer Type / Depth:

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Type	Size	Depth (Top)	Depth (Bot)	Volume
Liner:				
Open Hole:	7.875	332.0	2,950.0	

Perf Depths:	#	Total
	0	0
	0	
	0	

TIME	PUMP RATES		DENSITY (lb/gl)	PRESS (psi)	STG TOT (bbls)	TOTAL (bbls)	REMARKS
	WATER (gpm)	PUMP (bpm)					
14:37	0	0.0	7.45	12	0.0	26.4	ANNOTATION
14:37	0	0.0	7.45	12	0.0	0.0	ANNOTATION
14:38	0	1.0	7.20	17	0.0	0.7	ANNOTATION
14:38	0	1.0	7.19	17	0.0	0.7	ANNOTATION
16:54	265	0.0	6.88	25	0.0	0.0	ANNOTATION
17:00	0	4.6	13.59	41	0.0	15.2	ANNOTATION

Summary

Max Fl. Rate	Avg Fl. Rate	Max Psi	Avg Psi
4.6	1.1	298	83

Customer Acknowledgement:

*R. Wilson*

Service Rating:

- Satisfactory
- Unsatisfactory

Cementer:

A.HOWELL

PRODUCTS USED

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# KIM B. SHOEMAKER

CONSULTING GEOLOGIST

316-884-9709 \* WICHITA, KS

## GEOLOGIST'S REPORT

WELL LOG TIME AND SAMPLE LOG

COMPANY L.D. DRILLING, INC.

LEASE # 1-36 BIGGS

FIELD WILDCAT

LOCATION 1220' FSL + 1590' FWL

SEC 36 TWP 6S RDP 36W

COUNTY THOMAS STATE KANSAS

CONTRACTOR L.D. DRILLING, INC.

SPUD 11-6-17 COMP 11-17-17

RTD 4900 LTD 4900

MUD UR. 3501 TYP. MUD CHEMICAL

ELEVATIONS

XD 3339

DF:

GL 3334

Measurements are from 3339 KB

CASING  
SOURCE 8 5/8" @ 332'

PRODUCTION

ELECTRICAL SURVEYS  
DUAL IND, DENS-N. MICRO

SAMPLES SAVED FROM 3600 TO 4900

DRILLING TIME KEPT FROM 3500 TO 4900

SAMPLES EXAMINED FROM 3600 TO 4900

GEOLOGICAL SUPERVISION FROM 3800 TO 4900

GEOLOGIST ON WELL KIM B. SHOEMAKER

FORMATION TOPS	LOG	SAMPLES
ANHYDRITE	2932+ 407	2934+ 405
BY ANH.	2967+ 572	2969+ 370
STOTLER	3832- 493	3829- 490
HEEBNER	4140- 801	4140- 801
LANSING	4188- 849	4186- 847
B/KC	4444- 1105	4442- 1103
PAWNEE	4559- 1220	4555- 1216
FORT SCOTT	4622- 1283	4621- 1282
CHEROKEE	4652- 1313	4652- 1313
MISSISSIPPI	4802- 1463	4798- 1459



API: 15-193-21005

REMARKS

11-6-17 5900  
 11-7 @ 336'  
 11-8 @ 1000'  
 11-9 @ 2230'  
 11-10 @ 3054'  
 11-11 @ 3705'  
 11-12 @ 3878'  
 11-13 @ 4305'  
 11-14 @ 4425'  
 11-15 @ 4564'  
 11-16 @ 4677'  
 11-17 @ 4900'

### LEGEND

- Anhydrite
- BY ANH.
- Stotler
- Heebner
- Lansing
- B/KC
- Pawnee
- Fort Scott
- Cherokee
- Mississippi
- Sandstone
- Shale
- Carb. sh.
- Limestone
- Alluvium
- Clay
- Dolomite

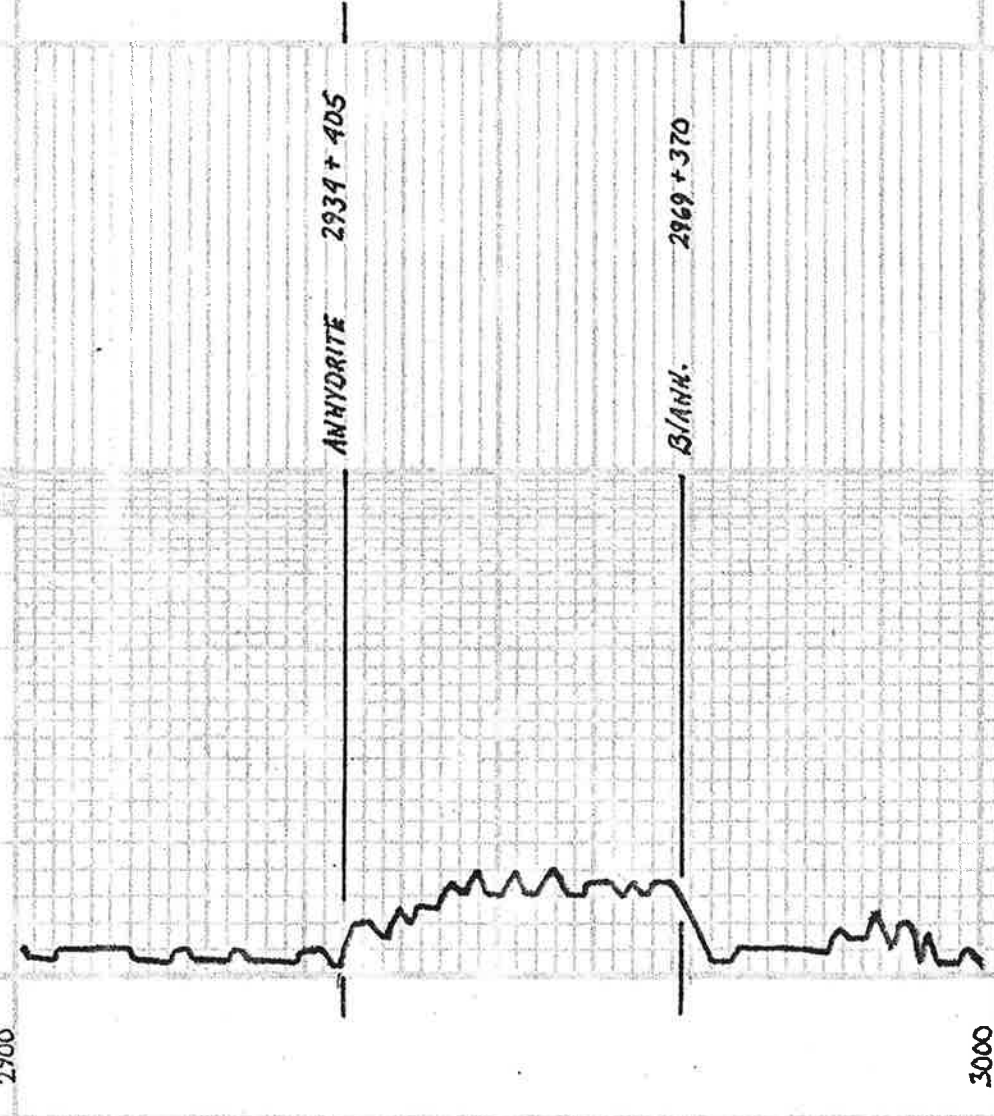
DRILLING TIME IN MINUTES  
PER FOOT

Rate of Penetration (RPM)

DEPTH  
2900

REMARKS

SAMPLE DESCRIPTIONS



LITHOLOGY



3000

3500

3600

3700

Samples are tagged

Sh. Rd silty

Sh. Rd silty

ls. wt. silty

ls. sh. silty

ls. sh. silty

Dk. sh. silty

Sh. Rd silty

sd. clay ls. v. fine ss. Rd. well sorted

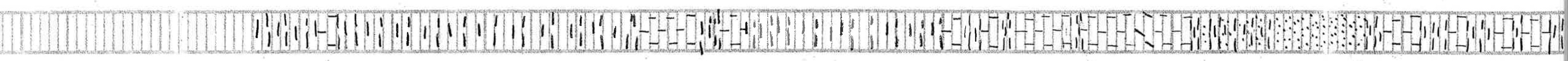
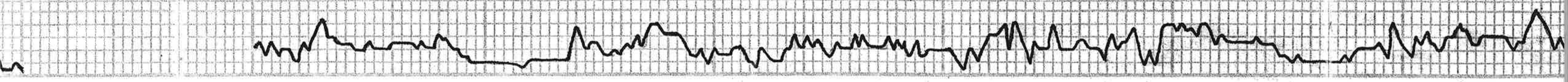
ls. G. silty silty

Sh. Rd.

Sh. Rd-Lt. Gd.

ls. G. v. silty calcitic

Vis: 54  
WT: 8.8  
Vol: 7.2  
Dil: 2300





3800

3900

4000

4100

Sh. G. VSi. Calcitic

Sh. Ls. G.

Ls. Tn. G. Sl. Foss. w/ Blue Str.

Sh. Rd.

Ls. Rd. Sl. Foss. Sil. A

Sh. G. Ark.

Ls. Ls. G. VSi. A

Sh. Dk. Rd.

**STOTLER 3829-490**

Ls. Tn. Rd. Sl. Foss. Calcitic P. VSi. B  
Dk. Rd. Sil. 55 Foss. No Floor. G. odor.

Dk. Rd. VSi. Foss. P. P. Ark. P.  
Dk. Rd. Sil. 55 Foss. 18 Bedding Sil. Dull floor. Calcitic

Sh. G.

Ls. Ls. G. Sl. Foss. VSi. Chly.

Sh. Rd. Purple

Ls. Tn. G. Sl. Foss. VSi. Sil. w/ T. Dk. Rd. Blue Str. Noodor.

Ls. w/ Ls. G. VSi. Foss. VSi. Chly.

Sh. Rd.

Ls. Tn. w/ Foss. Sl. Calcitic

Ls. w/ Chly.

Sh. Rd.

Ls. G. Sl. Foss.

Sh. Rd.

Ls. G. VSi. A

Ls. w/ Foss. Sl. Chly.

Sh. Rd. Sil.

Sh. G. Foss. Sil. Ark. Rd.

Sh. Rd. Sil.

Ls. w/ G. Foss. Calcitic

Sh. Rd. Silly

Ls. G. VSi. Foss.

Sh. Dk. G. Blk.

Sh. Rd.

Ls. Tn. Sl. Foss. Sl. Calcitic

Sh. Rd.

Ls. Tn. Sl. Foss. VSi. A

Sh. Rd.

Ls. Tn. Foss. Sl. Foss. VSi. A

**DST (1) 3834-3878**

15' OPEN. Blow 60711 to 1/2"

2nd OPEN. No Blow

30-45-45-60

Re. 12' 50cm (21-011287.M2)

1/2" to clean oil in top.

Sp: 8-17 11-22\*

SIP: 1063-1099\*

Temp.

1190 F



DST (1)

Vis: 7.5  
WT: 9.3  
Vol: 7.8  
CAL: 6800



LS. To. Fossil. Sec. Sil. Delemitic.

LS. To. Foss. Sil. A.

**HEBNER 4140-801**  
Sh. Dk. Blk.

LS. To. Aly. Sil. Foss.

Sh. L.A. Silly. Sdy.

TORONTO

LS. wt. VSI. Foss. Sdy.

Sh. Bl.

**LANSING 4186-817**

LS. wt. Sil. Foss. w/ Blk. Tarry Sil.

LS. wt. Foss. Chly.

Sh. Dk. Sil. G.

Sh. Bl.

LS. wt. Sil. Foss. w/ Blk. dd. Sil. Hoodar

Sh. Dk. Blk.

LS. wt. Foss. Sil. Sdy.

Sh. Bl. G.

LS. Bl. G. VSI. Foss.

Sh. Bl.

LS. wt. Sil. Foss. w/ Chly.

LS. Aly. VSI. Foss.

LS. To. wt. Sil. Foss. Sil. Calcitic

LS. Aly. VSI. Chly.

**MUNCIE CREEK 4306-967**

Sh. Blk. LS. Aly. VSI. Foss.

Sh. Aly. G.

LS. wt. Foss. Sil. A.

LS. G. VSI. Foss. Sil. A.

Sh. L. Blue.

LS. wt. Sil. Foss. Sil. A. w/ Blk. dd. Sil. Hoodar

Sh. Bl.

LS. wt. Aly. Foss. w/ Blk. dd. Sil. Hoodar

LS. wt. Aly. Sil. Foss. Sil. Chly.

Sh. Bl. G.

LS. wt. VSI. Foss. VSI. Chly.

LS. To. wt. Foss. VSI. Chly.

Sh. Dk. G.

Sh. Gw.

LS. wt. Aly. Sil. Foss. Sil. Chly.

**B/KC 4492-1103**

Sh. Bl.

DST (2)

4300

DST (2) 4300-4385

1<sup>st</sup> SOLEN: Blow built to 2"

2<sup>nd</sup> SOLEN: 46 Blow

30. 45. 45. 60

Rec. 50 Mud (100% M)

FP: 1321 8-41 F

SIP: 1287-1263 F

Tool Sample

100% Mud

Temp. 121°F



**STARK 4393-1044**

VIS: 51

WT: 92

WV: 7.2

CXC: 6600

DST (3)

4400





Sh. Yellow. Blue. G.  
sd. Cl. w/ F. G. S. R.  
54 Yellow A Orange

MISSISSIPPI 4798-1459

Dol. G. V. Fresh Suc.

Dol. G. Fresh Suc.

Dol. G. Fresh Silty

Dol. G. DK G. V. Fresh Suc. Sil. Fresh.

66. Yellow. G.

ss. G. w/ Foss. Co. In

Dol. w/ silty. Fresh Suc.

A. w/ G. Speckled w/ Bk.

A. w/ G. Speckled

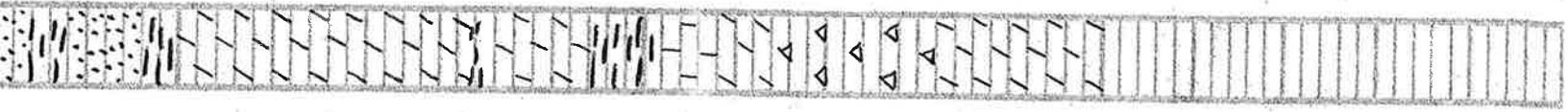
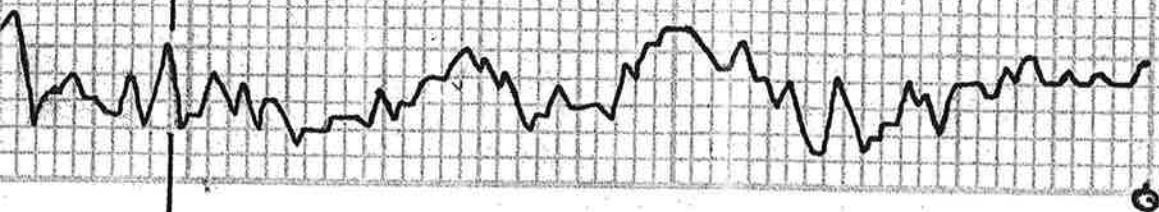
Dol. G. Fresh Suc.

Dol. G. Fresh Suc. Sil. Silty

4800

4900

RTD 4900-1561







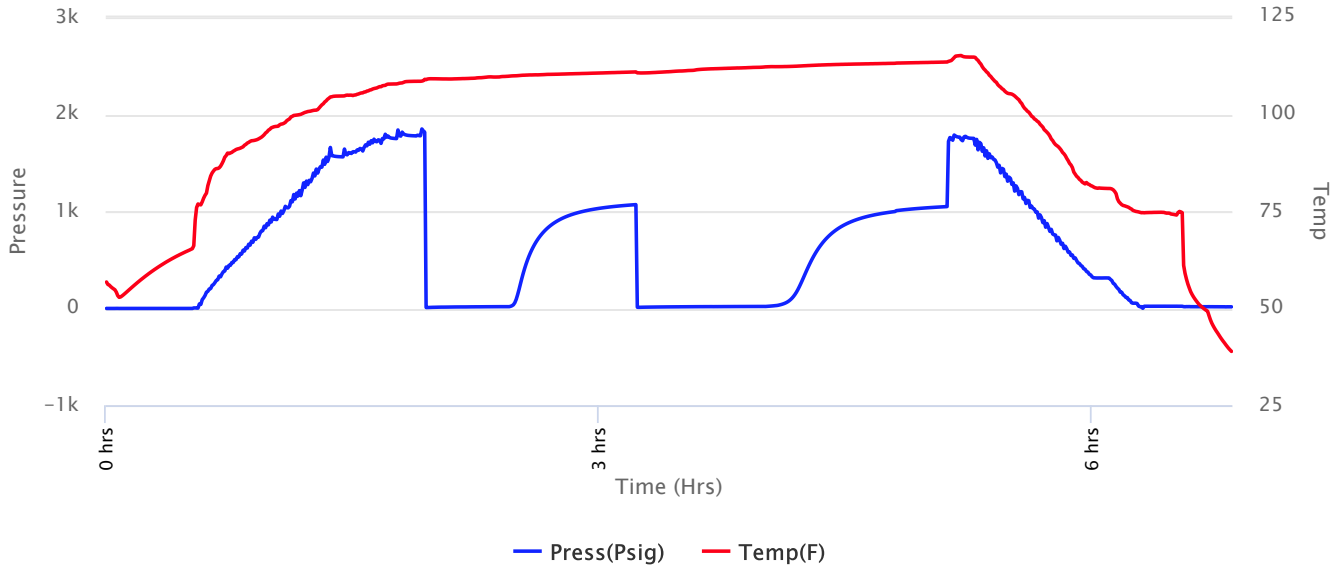
**Company: L. D. Drilling, Inc**  
**Lease: Biggs #1-36**

SEC: 36 TWN: 6S RNG: 36W  
 County: THOMAS  
 State: Kansas  
 Drilling Contractor: L. D. Drilling, Inc - Rig 1  
 Elevation: 3334 EGL  
 Field Name: Wildcat  
 Pool: Infield  
 Job Number: 71

**DATE**  
 November  
**11**  
 2017

**DST #1**      **Formation: Wabaunsee**      **Test Interval: 3834 - 3878'**      **Total Depth: 3878'**  
 Time On: 22:20 11/11      Time Off: 06:06 11/12  
 Time On Bottom: 01:05 11/12      Time Off Bottom: 04:05 11/12

Electronic Volume Estimate: 6'	<u>1st Open</u> Minutes: 30 .6" at 30 min	<u>1st Close</u> Minutes: 45 0" at 45 min	<u>2nd Open</u> Minutes: 45 0" at 45 min	<u>2nd Close</u> Minutes: 60 0" at 60 min
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**Company: L. D. Drilling, Inc**  
**Lease: Biggs #1-36**

SEC: 36 TWN: 6S RNG: 36W  
 County: THOMAS  
 State: Kansas  
 Drilling Contractor: L. D. Drilling, Inc - Rig 1  
 Elevation: 3334 EGL  
 Field Name: Wildcat  
 Pool: Infield  
 Job Number: 71

**DATE**  
 November  
**11**  
 2017

**DST #1**      **Formation: Wabaunsee**      **Test Interval: 3834 - 3878'**      **Total Depth: 3878'**  
 Time On: 22:20 11/11      Time Off: 06:06 11/12  
 Time On Bottom: 01:05 11/12      Time Off Bottom: 04:05 11/12

Recovered

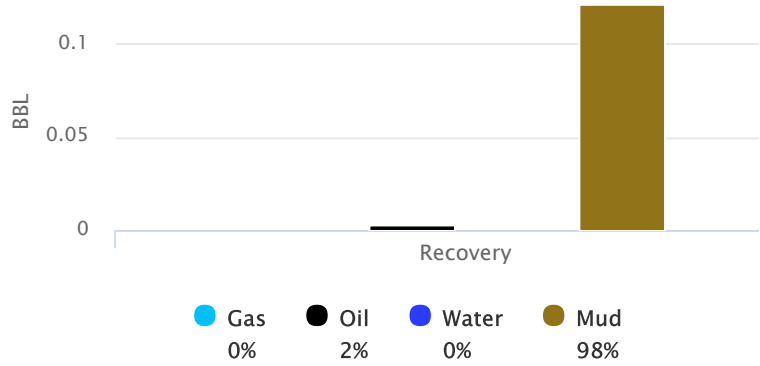
<u>Foot</u>	<u>BBLs</u>	<u>Description of Fluid</u>	<u>Gas %</u>	<u>Oil %</u>	<u>Water %</u>	<u>Mud %</u>
12	0.12312	SLOCM	0	2	0	98

Total Recovered: 12 ft  
 Total Barrels Recovered: 0.12312

**Reversed Out**  
 NO

Initial Hydrostatic Pressure	1778	PSI
Initial Flow	8 to 17	PSI
<b>Initial Closed in Pressure</b>	<b>1069</b>	<b>PSI</b>
Final Flow Pressure	11 to 22	PSI
<b>Final Closed in Pressure</b>	<b>1049</b>	<b>PSI</b>
Final Hydrostatic Pressure	1764	PSI
Temperature	114	°F
Pressure Change Initial Close / Final Close	1.9	%

**Recovery at a glance**





**Company: L. D. Drilling, Inc**  
**Lease: Biggs #1-36**

SEC: 36 TWN: 6S RNG: 36W  
County: THOMAS  
State: Kansas  
Drilling Contractor: L. D. Drilling, Inc -  
Rig 1  
Elevation: 3334 EGL  
Field Name: Wildcat  
Pool: Infield  
Job Number: 71

<b>DATE</b> November <b>11</b> 2017
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<b>DST #1</b>	<b>Formation:</b> Wabaunsee	<b>Test Interval: 3834 -</b> <b>3878'</b>	<b>Total Depth: 3878'</b>
	Time On: 22:20 11/11	Time Off: 06:06 11/12	
	Time On Bottom: 01:05 11/12	Time Off Bottom: 04:05 11/12	

**REMARKS:**

Initial Flow: Blow increasing to .6 in.

Initial Shut-in: No blow.

Final Flow: No blow.

Final Shut-in: No blow.

Tool Sample: 100% mud







**Company: L. D. Drilling, Inc**  
**Lease: Biggs #1-36**

SEC: 36 TWN: 6S RNG: 36W  
County: THOMAS  
State: Kansas  
Drilling Contractor: L. D. Drilling, Inc -  
Rig 1  
Elevation: 3334 EGL  
Field Name: Wildcat  
Pool: Infield  
Job Number: 71

<p><b>DATE</b> November <b>11</b> 2017</p>
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**DST #1**      **Formation:**      **Test Interval: 3834 -**      **Total Depth: 3878'**  
**Wabaunsee**      **3878'**  
Time On: 22:20 11/11      Time Off: 06:06 11/12  
Time On Bottom: 01:05 11/12      Time Off Bottom: 04:05 11/12

**Mud Properties**

**Mud Type:** Chemical      **Weight:** 8.8      **Viscosity:** 54      **Filtrate:** 7.2      **Chlorides:** 2,300 ppm



**Company: L. D. Drilling, Inc**  
**Lease: Biggs #1-36**

SEC: 36 TWN: 6S RNG: 36W  
County: THOMAS  
State: Kansas  
Drilling Contractor: L. D. Drilling, Inc -  
Rig 1  
Elevation: 3334 EGL  
Field Name: Wildcat  
Pool: Infield  
Job Number: 71

<b>DATE</b> November <b>11</b> 2017
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**DST #1**      **Formation:**      **Test Interval: 3834 -**      **Total Depth: 3878'**  
**Wabaunsee**      **3878'**  
Time On: 22:20 11/11      Time Off: 06:06 11/12  
Time On Bottom: 01:05 11/12      Time Off Bottom: 04:05 11/12

**Gas Volume Report**

1st Open

2nd Open

Time	Orifice	PSI	MCF/D
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Time	Orifice	PSI	MCF/D
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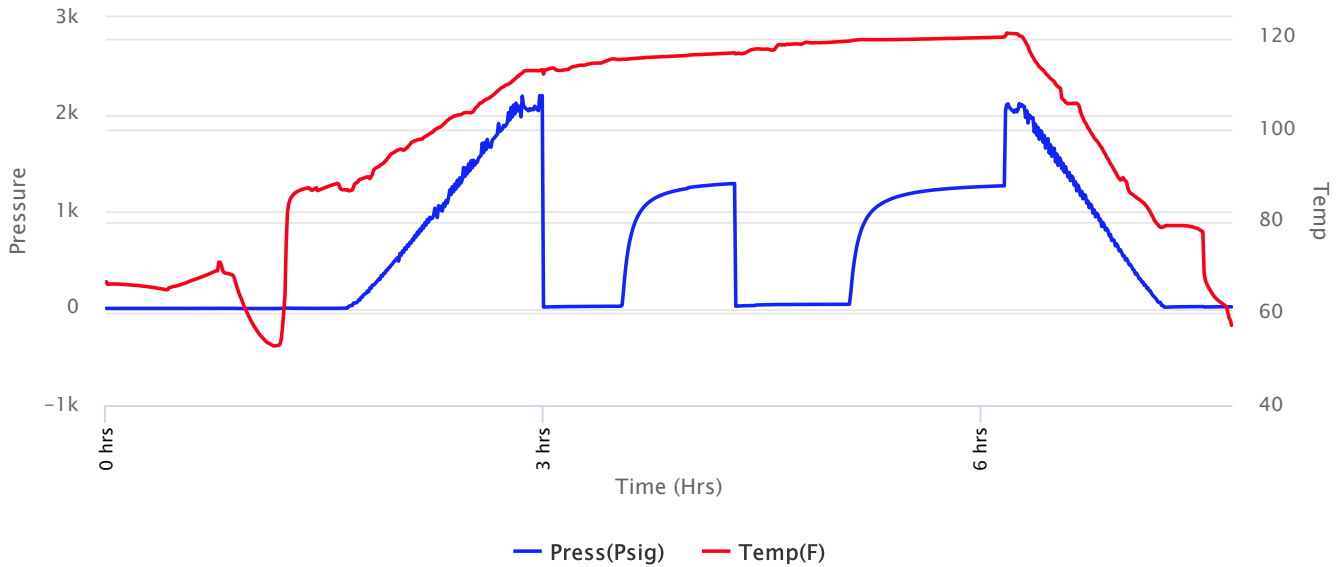
**Company: L. D. Drilling, Inc**  
**Lease: Biggs #1-36**

SEC: 36 TWN: 6S RNG: 36W  
 County: THOMAS  
 State: Kansas  
 Drilling Contractor: L. D. Drilling, Inc - Rig 1  
 Elevation: 3334 EGL  
 Field Name: Wildcat  
 Pool: Infield  
 Job Number: 71

**DATE**  
 November  
**14**  
 2017

**DST #2**    **Formation: L/KC H-J**    **Test Interval: 4384 - 4385'**    **Total Depth: 4385'**  
 Time On: 00:00 01/01    Time Off: 00:58 11/14  
 Time On Bottom: 00:00 01/01    Time Off Bottom: 23:23 11/13

Electronic Volume Estimate:	<u>1st Open</u> Minutes: 30	1st Close Minutes: 45	<u>2nd Open</u> Minutes: 45	2nd Close Minutes: 60
22'	2.0" at 30 min	0" at 45 min	0" at 45 min	0" at 60 min





**Company: L. D. Drilling, Inc**  
**Lease: Biggs #1-36**

SEC: 36 TWN: 6S RNG: 36W  
 County: THOMAS  
 State: Kansas  
 Drilling Contractor: L. D. Drilling, Inc - Rig 1  
 Elevation: 3334 EGL  
 Field Name: Wildcat  
 Pool: Infield  
 Job Number: 71

**DATE**  
 November  
**14**  
 2017

**DST #2**    **Formation: L/KC H-J**    **Test Interval: 4384 - 4385'**    **Total Depth: 4385'**

Time On: 00:00 01/01    Time Off: 00:58 11/14  
 Time On Bottom: 00:00 01/01    Time Off Bottom: 23:23 11/13

Recovered

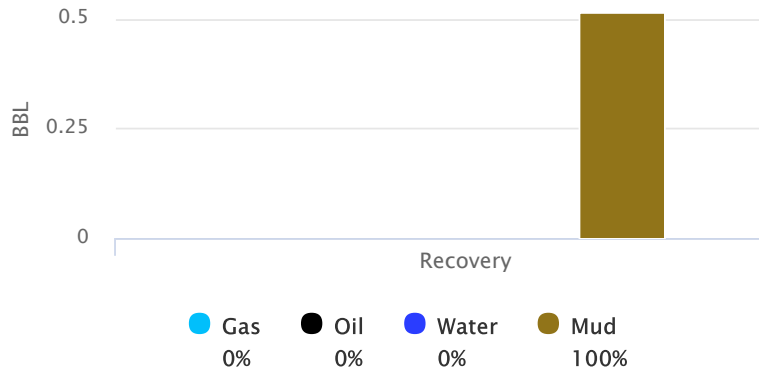
<u>Foot</u>	<u>BBLs</u>	<u>Description of Fluid</u>	<u>Gas %</u>	<u>Oil %</u>	<u>Water %</u>	<u>Mud %</u>
50	0.513	M	0	0	0	100

Total Recovered: 50 ft  
 Total Barrels Recovered: 0.513

Reversed Out  
 NO

Initial Hydrostatic Pressure	2056	PSI
Initial Flow	13 to 21	PSI
<b>Initial Closed in Pressure</b>	<b>1287</b>	<b>PSI</b>
Final Flow Pressure	0 to 41	PSI
<b>Final Closed in Pressure</b>	<b>1263</b>	<b>PSI</b>
Final Hydrostatic Pressure	2033	PSI
Temperature	121	°F
Pressure Change Initial Close / Final Close	1.9	%

**Recovery at a glance**





**Company: L. D. Drilling, Inc**  
**Lease: Biggs #1-36**

SEC: 36 TWN: 6S RNG: 36W  
County: THOMAS  
State: Kansas  
Drilling Contractor: L. D. Drilling, Inc -  
Rig 1  
Elevation: 3334 EGL  
Field Name: Wildcat  
Pool: Infield  
Job Number: 71

<p><b>DATE</b> November <b>14</b> 2017</p>
--

**DST #2      Formation: L/KC H-J      Test Interval: 4384 -      Total Depth: 4385'**  
**4385'**

Time On: 00:00 01/01      Time Off: 00:58 11/14  
Time On Bottom: 00:00 01/01      Time Off Bottom: 23:23 11/13

**REMARKS:**

IF-Built to 2"  
ISI- No Blow  
FF- No Blow  
FSI- No Blow

Tool sample = Mud



**Company: L. D. Drilling, Inc**  
**Lease: Biggs #1-36**

SEC: 36 TWN: 6S RNG: 36W  
 County: THOMAS  
 State: Kansas  
 Drilling Contractor: L. D. Drilling, Inc -  
 Rig 1  
 Elevation: 3334 EGL  
 Field Name: Wildcat  
 Pool: Infield  
 Job Number: 71

<p><b>DATE</b>          November  <b>14</b>          2017</p>
---

**DST #2    Formation: L/KC H-J    Test Interval: 4384 - 4385'    Total Depth: 4385'**

Time On: 00:00 01/01                      Time Off: 00:58 11/14  
 Time On Bottom: 00:00 01/01    Time Off Bottom: 23:23 11/13

**Down Hole Makeup**

<b>Heads Up:</b> -460.95 FT	<b>Packer 1:</b> Not ran
<b>Drill Pipe:</b> 3902.89 FT <i>ID-3 1/4</i>	<b>Packer 2:</b> 4384 FT
<b>Weight Pipe:</b> FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 4376 FT
<b>Collars:</b> FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 4386 FT
<b>Test Tool:</b> 21.16 FT <i>ID-3 1/2-FH</i>	<b>Well Bore Size:</b> 7 7/8
<b>Total Anchor:</b> 1	<b>Surface Choke:</b> 1"
<b>Anchor Makeup</b>	
<b>Packer Sub:</b> 1 FT	<b>Bottom Choke:</b> 5/8"
<b>Perforations: (top):</b> FT <i>4 1/2-FH</i>	
<b>Change Over:</b> FT	
<b>Drill Pipe: (in anchor):</b> FT <i>ID-3 1/4</i>	
<b>Change Over:</b> FT	
<b>Perforations: (below):</b> FT <i>4 1/2-FH</i>	





**Company: L. D. Drilling, Inc**  
**Lease: Biggs #1-36**

SEC: 36 TWN: 6S RNG: 36W  
County: THOMAS  
State: Kansas  
Drilling Contractor: L. D. Drilling, Inc -  
Rig 1  
Elevation: 3334 EGL  
Field Name: Wildcat  
Pool: Infield  
Job Number: 71

<p><b>DATE</b> November <b>14</b> 2017</p>
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**DST #2**      **Formation: L/KC H-J**      **Test Interval: 4384 - 4385'**      **Total Depth: 4385'**

Time On: 00:00 01/01      Time Off: 00:58 11/14  
Time On Bottom: 00:00 01/01      Time Off Bottom: 23:23 11/13

**Mud Properties**

**Mud Type:**      **Weight:**      **Viscosity:**      **Filtrate:**      **Chlorides: ppm**



**Company: L. D. Drilling, Inc**  
**Lease: Biggs #1-36**

SEC: 36 TWN: 6S RNG: 36W  
County: THOMAS  
State: Kansas  
Drilling Contractor: L. D. Drilling, Inc -  
Rig 1  
Elevation: 3334 EGL  
Field Name: Wildcat  
Pool: Infield  
Job Number: 71

<b>DATE</b> November <b>14</b> 2017
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**DST #2**    **Formation: L/KC H-J**    **Test Interval: 4384 - 4385'**    **Total Depth: 4385'**

Time On: 00:00 01/01                      Time Off: 00:58 11/14  
Time On Bottom: 00:00 01/01    Time Off Bottom: 23:23 11/13

**Gas Volume Report**

1st Open

2nd Open

Time	Orifice	PSI	MCF/D
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Time	Orifice	PSI	MCF/D
------	---------	-----	-------



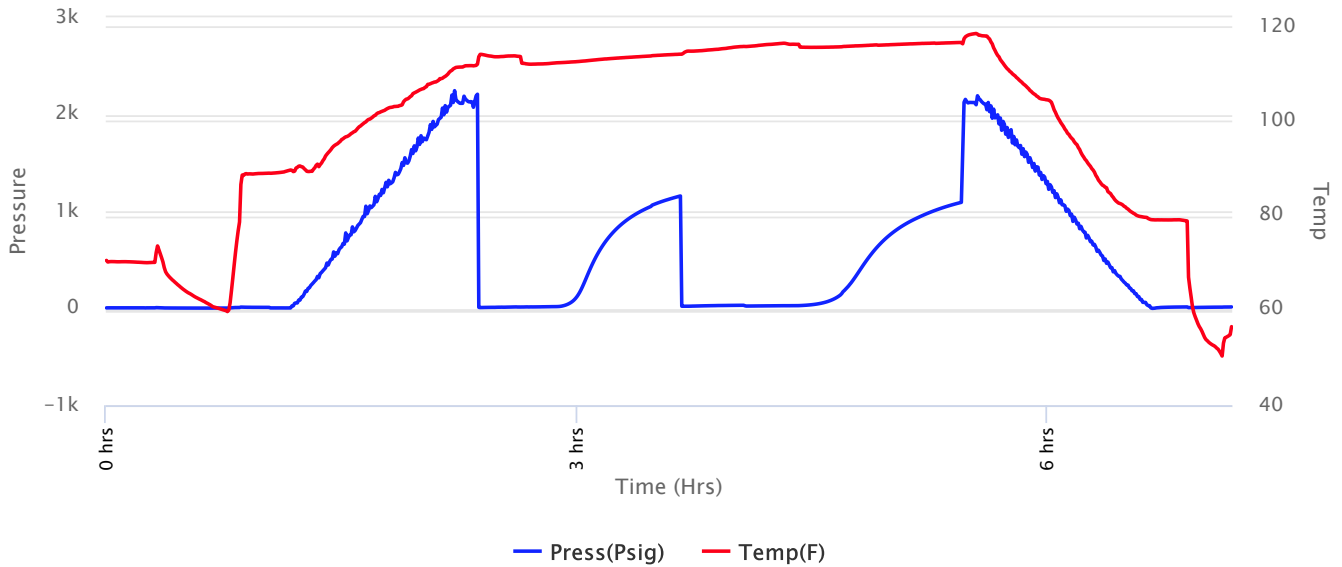
**Company: L. D. Drilling, Inc**  
**Lease: Biggs #1-36**

SEC: 36 TWN: 6S RNG: 36W  
 County: THOMAS  
 State: Kansas  
 Drilling Contractor: L. D. Drilling, Inc - Rig 1  
 Elevation: 3334 EGL  
 Field Name: Wildcat  
 Pool: Infield  
 Job Number: 71

**DATE**  
 November  
**15**  
 2017

**DST #3**      **Formation: Marm/Alta B**      **Test Interval: 4440 - 4533'**      **Total Depth: 4533'**  
 Time On: 18:27 11/14      Time Off: 01:26 11/15  
 Time On Bottom: 20:45 11/14      Time Off Bottom: 23:45 11/14

Electronic Volume Estimate: 16'	<u>1st Open</u> Minutes: 30 1.3" at 30 min	<u>1st Close</u> Minutes: 45 0" at 45 min	<u>2nd Open</u> Minutes: 45 0" at 45 min	<u>2nd Close</u> Minutes: 60 0" at 60 min
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**Company: L. D. Drilling, Inc**  
**Lease: Biggs #1-36**

SEC: 36 TWN: 6S RNG: 36W  
 County: THOMAS  
 State: Kansas  
 Drilling Contractor: L. D. Drilling, Inc - Rig 1  
 Elevation: 3334 EGL  
 Field Name: Wildcat  
 Pool: Infield  
 Job Number: 71

**DATE**  
 November  
**15**  
 2017

**DST #3**      **Formation: Marm/Alta B**      **Test Interval: 4440 - 4533'**      **Total Depth: 4533'**  
 Time On: 18:27 11/14      Time Off: 01:26 11/15  
 Time On Bottom: 20:45 11/14      Time Off Bottom: 23:45 11/14

Recovered

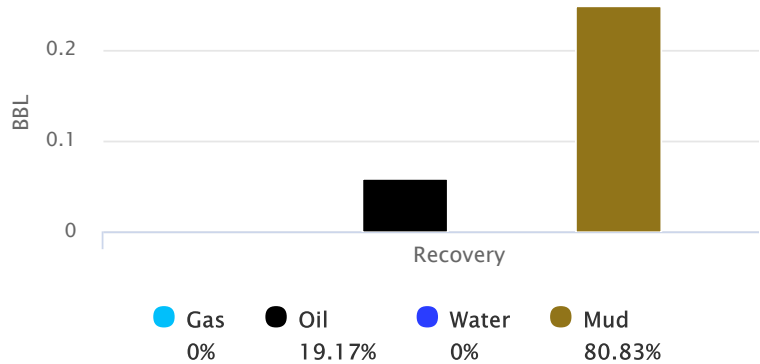
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
25	0.2565	SLOCM	0	5	0	95
5	0.0513	SLMCO	0	90	0	10

Total Recovered: 30 ft  
 Total Barrels Recovered: 0.3078

Reversed Out  
 NO

Initial Hydrostatic Pressure	2131	PSI
Initial Flow	10 to 18	PSI
<b>Initial Closed in Pressure</b>	<b>1159</b>	<b>PSI</b>
Final Flow Pressure	21 to 27	PSI
<b>Final Closed in Pressure</b>	<b>1093</b>	<b>PSI</b>
Final Hydrostatic Pressure	2122	PSI
Temperature	117	°F
Pressure Change Initial Close / Final Close	5.7	%

**Recovery at a glance**







**Company: L. D. Drilling, Inc**  
**Lease: Biggs #1-36**

SEC: 36 TWN: 6S RNG: 36W  
County: THOMAS  
State: Kansas  
Drilling Contractor: L. D. Drilling, Inc -  
Rig 1  
Elevation: 3334 EGL  
Field Name: Wildcat  
Pool: Infield  
Job Number: 71

<p><b>DATE</b> November <b>15</b> 2017</p>
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<b>DST #3</b>	<b>Formation:</b> <b>Marm/Alta B</b>	<b>Test Interval: 4440 -</b> <b>4533'</b>	<b>Total Depth: 4533'</b>
	Time On: 18:27 11/14	Time Off: 01:26 11/15	
	Time On Bottom: 20:45 11/14	Time Off Bottom: 23:45 11/14	

**REMARKS:**

IF- Built to 1.3"  
ISI- No Blow  
FF- No Blow  
FSI- No Blow

Tool Sample= OCM 40%O 60%M



**Company: L. D. Drilling, Inc**  
**Lease: Biggs #1-36**

SEC: 36 TWN: 6S RNG: 36W  
 County: THOMAS  
 State: Kansas  
 Drilling Contractor: L. D. Drilling, Inc -  
 Rig 1  
 Elevation: 3334 EGL  
 Field Name: Wildcat  
 Pool: Infield  
 Job Number: 71

<p><b>DATE</b>          November  <b>15</b>          2017</p>
---

**DST #3**      **Formation:**      **Test Interval: 4440 -**      **Total Depth: 4533'**  
**Marm/Alta B**      **4533'**  
 Time On: 18:27 11/14      Time Off: 01:26 11/15  
 Time On Bottom: 20:45 11/14      Time Off Bottom: 23:45 11/14

**Down Hole Makeup**

<b>Heads Up:</b> 26.79 FT	<b>Packer 1:</b> 4434.54 FT
<b>Drill Pipe:</b> 4433.76 FT <i>ID-3 1/4</i>	<b>Packer 2:</b> 4439.54 FT
<b>Weight Pipe:</b> FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 4423.96 FT
<b>Collars:</b> FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 4531 FT
<b>Test Tool:</b> 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	<b>Well Bore Size:</b> 7 7/8
<b>Total Anchor:</b> 93.46	<b>Surface Choke:</b> 1"
<u><b>Anchor Makeup</b></u>	<b>Bottom Choke:</b> 5/8"
<b>Packer Sub:</b> 1 FT	
<b>Perforations: (top):</b> 24 FT <i>4 1/2-FH</i>	
<b>Change Over:</b> 1 FT	
<b>Drill Pipe: (in anchor):</b> 63.46 FT <i>ID-3 1/4</i>	
<b>Change Over:</b> 1 FT	
<b>Perforations: (below):</b> 3 FT <i>4 1/2-FH</i>	



**Company: L. D. Drilling, Inc**  
**Lease: Biggs #1-36**

SEC: 36 TWN: 6S RNG: 36W  
County: THOMAS  
State: Kansas  
Drilling Contractor: L. D. Drilling, Inc -  
Rig 1  
Elevation: 3334 EGL  
Field Name: Wildcat  
Pool: Infield  
Job Number: 71

<p><b>DATE</b> November <b>15</b> 2017</p>
--

**DST #3**      **Formation:**      **Test Interval: 4440 -**      **Total Depth: 4533'**  
**Marm/Alta B**      **4533'**  
Time On: 18:27 11/14      Time Off: 01:26 11/15  
Time On Bottom: 20:45 11/14      Time Off Bottom: 23:45 11/14

**Mud Properties**

**Mud Type:** Chemical      **Weight:** 9.2      **Viscosity:** 58      **Filtrate:** 7.2      **Chlorides:** 6800 ppm



**Company: L. D. Drilling, Inc**  
**Lease: Biggs #1-36**

SEC: 36 TWN: 6S RNG: 36W  
County: THOMAS  
State: Kansas  
Drilling Contractor: L. D. Drilling, Inc -  
Rig 1  
Elevation: 3334 EGL  
Field Name: Wildcat  
Pool: Infield  
Job Number: 71

<b>DATE</b> November <b>15</b> 2017
--

**DST #3**      **Formation:**      **Test Interval: 4440 -**      **Total Depth: 4533'**  
**Marm/Alta B**      **4533'**  
Time On: 18:27 11/14      Time Off: 01:26 11/15  
Time On Bottom: 20:45 11/14      Time Off Bottom: 23:45 11/14

### Gas Volume Report

1st Open

2nd Open

Time	Orifice	PSI	MCF/D
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Time	Orifice	PSI	MCF/D
------	---------	-----	-------



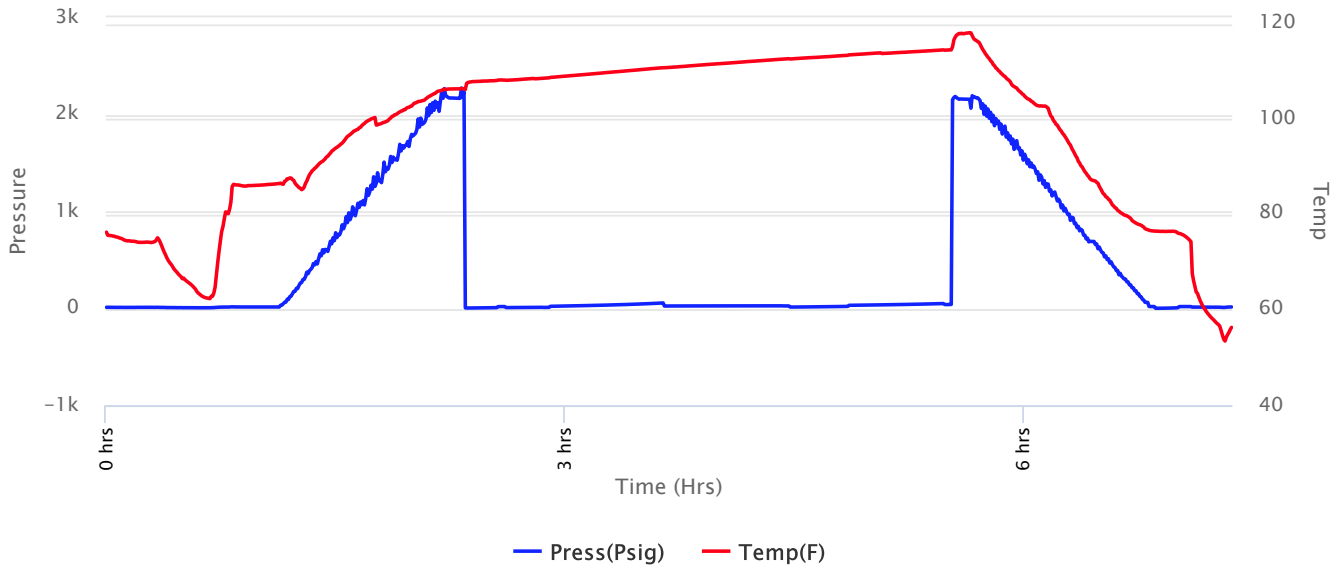
**Company: L. D. Drilling, Inc**  
**Lease: Biggs #1-36**

SEC: 36 TWN: 6S RNG: 36W  
 County: THOMAS  
 State: Kansas  
 Drilling Contractor: L. D. Drilling, Inc - Rig 1  
 Elevation: 3334 EGL  
 Field Name: Wildcat  
 Pool: Infield  
 Job Number: 71

**DATE**  
 November  
**15**  
 2017

**DST #4**      **Formation: Pawnee**      **Test Interval: 4530 - 4580'**      **Total Depth: 4580'**  
 Time On: 11:28 11/15      Time Off: 18:38 11/15  
 Time On Bottom: 13:45 11/15      Time Off Bottom: 16:45 11/15

Electronic Volume Estimate:	<u>1st Open</u> Minutes: 30	<u>1st Close</u> Minutes: 45	<u>2nd Open</u> Minutes: 45	<u>2nd Close</u> Minutes: 60
9'	.7" at 30 min	0" at 45 min	0" at 45 min	0" at 60 min







**Company: L. D. Drilling, Inc**  
**Lease: Biggs #1-36**

SEC: 36 TWN: 6S RNG: 36W  
 County: THOMAS  
 State: Kansas  
 Drilling Contractor: L. D. Drilling, Inc - Rig 1  
 Elevation: 3334 EGL  
 Field Name: Wildcat  
 Pool: Infield  
 Job Number: 71

**DATE**  
 November  
**15**  
 2017

**DST #4 Formation: Pawnee Test Interval: 4530 - 4580' Total Depth: 4580'**  
 Time On: 11:28 11/15 Time Off: 18:38 11/15  
 Time On Bottom: 13:45 11/15 Time Off Bottom: 16:45 11/15

Recovered

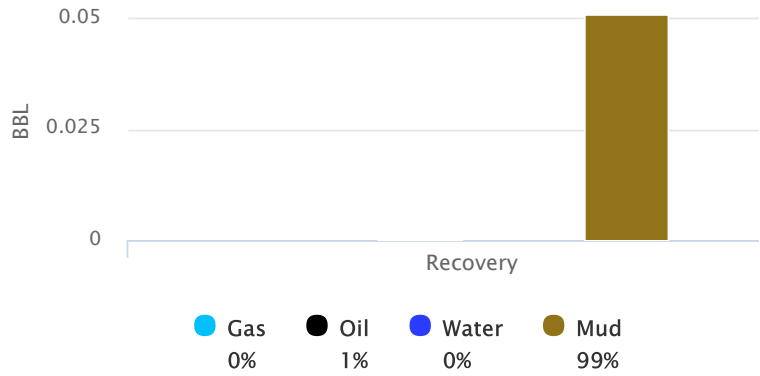
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
5	0.0513	SLOCM	0	1	0	99

Total Recovered: 5 ft  
 Total Barrels Recovered: 0.0513

**Reversed Out**  
 NO

Initial Hydrostatic Pressure	2167	PSI
Initial Flow	3 to 10	PSI
<b>Initial Closed in Pressure</b>	<b>56</b>	<b>PSI</b>
Final Flow Pressure	23 to 24	PSI
<b>Final Closed in Pressure</b>	<b>49</b>	<b>PSI</b>
Final Hydrostatic Pressure	2156	PSI
Temperature	115	°F
Pressure Change Initial Close / Final Close	12.7	%

**Recovery at a glance**





**Company: L. D. Drilling, Inc**  
**Lease: Biggs #1-36**

SEC: 36 TWN: 6S RNG: 36W  
County: THOMAS  
State: Kansas  
Drilling Contractor: L. D. Drilling, Inc -  
Rig 1  
Elevation: 3334 EGL  
Field Name: Wildcat  
Pool: Infield  
Job Number: 71

<p><b>DATE</b> November <b>15</b> 2017</p>
--

**DST #4      Formation: Pawnee      Test Interval: 4530 -      Total Depth: 4580'**  
**4580'**

Time On: 11:28 11/15      Time Off: 18:38 11/15  
Time On Bottom: 13:45 11/15      Time Off Bottom: 16:45 11/15

**REMARKS:**

IF- Built to .7"  
ISI- No Blow  
FF- No Blow  
FSI-No Blow

Tool Sample= MUD



**Company: L. D. Drilling, Inc**  
**Lease: Biggs #1-36**

SEC: 36 TWN: 6S RNG: 36W  
 County: THOMAS  
 State: Kansas  
 Drilling Contractor: L. D. Drilling, Inc -  
 Rig 1  
 Elevation: 3334 EGL  
 Field Name: Wildcat  
 Pool: Infield  
 Job Number: 71

<p><b>DATE</b>          November  <b>15</b>          2017</p>
---

**DST #4      Formation: Pawnee      Test Interval: 4530 - 4580'      Total Depth: 4580'**

Time On: 11:28 11/15      Time Off: 18:38 11/15  
 Time On Bottom: 13:45 11/15      Time Off Bottom: 16:45 11/15

**Down Hole Makeup**

<b>Heads Up:</b> 30.3 FT	<b>Packer 1:</b> 4525.25 FT
<b>Drill Pipe:</b> 4527.98 FT <i>ID-3 1/4</i>	<b>Packer 2:</b> 4530.25 FT
<b>Weight Pipe:</b> FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 4514.67 FT
<b>Collars:</b> FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 4578 FT
<b>Test Tool:</b> 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	<b>Well Bore Size:</b> 7 7/8
<b>Total Anchor:</b> 49.75	<b>Surface Choke:</b> 1"
<b><u>Anchor Makeup</u></b>	<b>Bottom Choke:</b> 5/8"
<b>Packer Sub:</b> 1 FT	
<b>Perforations: (top):</b> 12 FT <i>4 1/2-FH</i>	
<b>Change Over:</b> 1 FT	
<b>Drill Pipe: (in anchor):</b> 31.75 FT <i>ID-3 1/4</i>	
<b>Change Over:</b> 1 FT	
<b>Perforations: (below):</b> 3 FT <i>4 1/2-FH</i>	



**Company: L. D. Drilling, Inc**  
**Lease: Biggs #1-36**

SEC: 36 TWN: 6S RNG: 36W  
County: THOMAS  
State: Kansas  
Drilling Contractor: L. D. Drilling, Inc -  
Rig 1  
Elevation: 3334 EGL  
Field Name: Wildcat  
Pool: Infield  
Job Number: 71

<p><b>DATE</b> November <b>15</b> 2017</p>
--

**DST #4      Formation: Pawnee      Test Interval: 4530 -      Total Depth: 4580'**  
**4580'**

Time On: 11:28 11/15      Time Off: 18:38 11/15  
Time On Bottom: 13:45 11/15      Time Off Bottom: 16:45 11/15

**Mud Properties**

**Mud Type:** Chemical      **Weight:** 9.2      **Viscosity:** 62      **Filtrate:** 7.2      **Chlorides:** 6800 ppm



**Company: L. D. Drilling, Inc**  
**Lease: Biggs #1-36**

SEC: 36 TWN: 6S RNG: 36W  
County: THOMAS  
State: Kansas  
Drilling Contractor: L. D. Drilling, Inc -  
Rig 1  
Elevation: 3334 EGL  
Field Name: Wildcat  
Pool: Infield  
Job Number: 71

<b>DATE</b> November <b>15</b> 2017
--

**DST #4      Formation: Pawnee      Test Interval: 4530 -      Total Depth: 4580'**  
**4580'**

Time On: 11:28 11/15      Time Off: 18:38 11/15  
Time On Bottom: 13:45 11/15      Time Off Bottom: 16:45 11/15

**Gas Volume Report**

1st Open

2nd Open

Time	Orifice	PSI	MCF/D
------	---------	-----	-------

Time	Orifice	PSI	MCF/D
------	---------	-----	-------