





Form	ACO1 - Well Completion
Operator	Double D's LLC
Well Name	CECIL 2
Doc ID	1458936

#### Tops

Name	Top	Datum
Anhydrite	1132	+841
Base Anhydrite	1174	+801
Topeka	2952	-979
Heebner	3217	-1244
Toronto	3235	-1262
Lansing/KC	3264	-1291
BKC	3508	-1535
Conglomerate Sand	3582	-1609
Arbuckle	3607	-1634
Reagan Sand	3660	-1687
Granite Wash	3750	-1777

Form	ACO1 - Well Completion
Operator	Double D's LLC
Well Name	CECIL 2
Doc ID	1458936

#### Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12	8.625	23	1140	80/20 Poz	450	2%Gel&35 CC
Production	7.875	4.5	11.6	3658	QPRO-C	180	10%Salt-5%Gil

# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025

Home Office P.O. Box 32 Russell, KS 67665

No. 1418

Cell 785-324-1041

Date	Sec.	Twp.	Range	County	State	On Location	Finish
4-21-19	30	15	18	Ellis	KS		6:30 AM
Location				Hays S Smoky Hill River 3 1/2 W S 100			
Lease			Well No.		Owner		
Cecil			2		To Quality Oilwell Cementing, Inc.		
Contractor			Discovery #4		You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.		
Type Job			Production String		Charge To		
Hole Size			7 7/8		Double D'S LLC		
Csg.			4 1/2		Street		
Tbg. Size			Depth		City		
Tool			Depth		State		
Cement Left in Csg.			Shoe Joint		The above was done to satisfaction and supervision of owner agent or contractor.		
13.76			13.76		Cement Amount Ordered		
Meas Line			Displace		225 Q-Pro C 500 gal Mud over		
			59 BL		10/1 salt 5/16 lb sand		
EQUIPMENT				Common			
Pumptrk	No.	Cementer	Poz. Mix				
20		Helper					
Bulktrk	No.	Driver	Gel.				
		Driver					
Bulktrk	No.	Driver	Calcium				
15		Driver					
JOB SERVICES & REMARKS				Hulls			
Remarks:				Salt			
Rat Hole				Flowseal			
309K							
Mouse Hole				Kol-Seal			
153K							
Centralizers				Mud CLR 48			
1, 3, 5, 7, 9, 11							
Baskets				CFL-117 or CD110 CAF 38			
D/V or Port Collar				Sand			
4 1/2 sp @ 3608. Baffle @ 3644.				Handling			
Est. Completion Set Triple Shoe				Mileage			
Pump string and string wire spool.				FLOAT EQUIPMENT 4 1/2			
Plug Rat Hole mouse hole. Cement 4 1/2				Guide Shoe			
with 180SK Clear liner. Displace Plug				Centralizer 6			
Plug landed @ 1800*				Baskets 5 1/2 Triple Shoe			
				AFU Inserts			
				Float Shoe 1 4 1/2 5 1/2 Change over			
				Latch Down 1			
				Pumptrk Charge			
				Mileage			
				Tax			
				Discount			
X Signature				Total Charge			
John L. Luchter							



# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025

Home Office P.O. Box 32 Russell, KS 67665

No. 1266

Cell 785-324-1041

Date	4-14-19	Sec.	30	Twp.	15	Range	18	County	Ellis	State	Ks	On Location		Finish	5:45 AM				
Lease								Cecil		Well No.		2		Owner		go in North side of Rig by frac Tanks			
Contractor								Discovery		#4		To Quality Oilwell Cementing, Inc.		You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.					
Type Job								Surface				Charge To		Double D's					
Hole Size								12 1/4"		T.D.		1140'		Street					
Csg.								8 5/8"		Depth		1140'		City		State			
Tbg. Size										Depth				City		State			
Tool										Depth				The above was done to satisfaction and supervision of owner agent or contractor.					
Cement Left in Csg.								31.16'		Shoe Joint		31.16'		Cement Amount Ordered		450 80/20 3 1/2 CC 2 1/2 Gel			
Meas Line								Displace		70 1/2 BLS		1/4 # F10-seal							
EQUIPMENT				Common		360													
Pumptrk								20 No.		Cementer		David		Poz. Mix		90			
Bulktrk								19 No.		Driver		Jack		Gel.		9			
Bulktrk								p.h. No.		Driver		Rick		Calcium		16			
JOB SERVICES & REMARKS				Hulls															
Remarks								Cement did		Circulate		Salt							
Rat Hole												Flowseal		125#					
Mouse Hole												Kol-Seal							
Centralizers								2, 8, 15				Mud CLR 48							
Baskets								3, 9				CFL-117 or CD110 CAF 38							
D/V or Port Collar												Sand							
												Handling		475					
												Mileage							
FLOAT EQUIPMENT				Guide Shoe		Rubber plug													
												Centralizer		3					
												Baskets		2					
												AFU Inserts		Baffle plate					
												Float Shoe							
												Latch Down							
												Pumptrk Charge							
												Mileage							
														Tax					
														Discount					
														Total Charge					
X Signature								J. Allen		L. Aschell									

Thanks





Marc A. Downing		Geologic Report	
Consulting Petroleum Geologist		Drilling Time and Sample Log	
Operator Double D's LLC		Elevation KB 1973 DF 1971 GL 1965	
Lease Cecil No. 2		Casing Record Surface 8 5/8" @ 1140' Production 4 1/2" @ 3658'	
API # 15-051-26946-0000			
Field			
Location 2155' FNL & 2265' FWL			
Sec. 30	Twp. 15s	Rge. 18w	
County Ellis State Kansas		Electrical Surveys CNDL, DIL MEL	
Formation	Sample tops	Log Tops	Datum Struct Comp
Top Anhydrite	1132	1132	+841 +7
Base Anhydrite	1174	1172	+801 +4
Topeka	2954	2952	-979 -4
Heebner	3219	3217	-1244 -2
Toronto	3237	3235	-1262 -1
LKC	3266	3264	-1291 -3
BKC	3510	3508	-1535 -5
Conglomerate Sand	3584	3582	-1609 Absent (Gorham)
Arbuckle	3609	3607	-1634 -34
Reagan Sand	3662	3660	-1687 Not Reached
Granite Wash	3753	3750	-1777 Not Reached
Total Depth	3765	3765	-1792
Reference Well For Structural Comparison Double D's LLC - Cecil #1 1096' FNL & 1818' FWL Sec. 30-15s-18w			

Due to lack of fluid recovery in DST #3 (LKC "C" zone) and DST #5 (Cong. Sand), it was decided to set 4 1/2" production casing for salt water disposal in the lower Arbuckle, Reagan Sand, and Granite Wash. After log evaluation, above mentioned formations calculate 41% SW in the "C" zone and 50% SW in the Cong. Sand, with each having good micro indicating permeability. It is recommended to perforate these zones before disposal of salt water.

Recommended Perforations:  
Cong. Sand 3582-3586  
LKC "C" 3287-3290

Summary and Recommendations

Due to lack of fluid recovery in DST #3 (LKC "C" zone) and DST #5 (Cong. Sand), it was decided to set 4 1/2" production casing for salt water disposal in the lower Arbuckle, Reagan Sand, and Granite Wash. After log evaluation, above mentioned formations calculate 41% SW in the "C" zone and 50% SW in the Cong. Sand, with each having good micro indicating permeability. It is recommended to perforate these zones before disposal of salt water.

Respectfully Submitted,

Marc A. Downing

ROCK TYPES shale, gry Carbon Sh igne shale, red Dolprim Lmst hv/> shale, grn Cht Cht varl Congl

ACCESSORIES

OTHER SYMBOLS

STRINGER

MINERAL

OIL SHOWS

MISC

Vertical Log File Horizontal Log File Core Log File Drill Cuttings Rpt

Printed by GEOstrip VXC Striplog version 4.0.8.15 (www.gstri.ca)

Geological Descriptions

Lithology

DST

Curve Track #1

V/S: 60 V/L: 8.6 DST #1 3152-3178 I.F.: B-OB 27 min 30 sec F.F.: BOB 1 min 15 sec IFP: 123-748 FFP: 728-1032 SJP: 1117-1117 HP: 1488-1452 Rec: 157 OCM (5% o) BH1: 97

V/S: 58 V/L: 8.6 DST #2 3216-3283 I.F.: 1" F.F.: 3-4" FFP: 16-28 FFP: 31-32 SJP: 619-263 HP: 1510-1491 Rec: 407 OCM (5% o) BH1: 97

DST #3 3274-3300 I.F.: 1" F.F.: Surf 14-47 FFP: 18-76 FFP: 483-457 HP: 1531-1517 Rec: 10 mud w oil sps BH1: 94

V/S: 51 V/L: 9.0 DST #4 3414-3459 I.F.: B-OB 27 min 30 sec F.F.: 8-3/4" 21-32 FFP: 18-76 FFP: 510-507 HP: 1610-1600 Rec: 1 FO 126 WW w trace oil (80%w) BH1: 102 Chlr: 35K

V/S: 53 V/L: 9.2 DST #5 3488-3589 I.F.: 1" F.F.: Surf died in 26 min 21-32 FFP: 18-76 FFP: 510-507 HP: 1610-1600 Rec: 20 OCM (2% o) BH1: 102

LS: wht-tan, some brn. Mostly fn xln, scat md xln, foss in prt. Scat subxin rx, mostly pr por and dns. All NS.

LS: tan-brn, md xln, foss. More subxin rx than above, rest trng dns w/ pr por, NS.

Sh: gry

LS: wht-lt tan, fn xln. Scat gd int xln and pp por, totally barren, no od. Fr ant v chky rx.

Sh: drk gry

Sh: gry

LS: tan-gry, fn xln, v dns w/ no vis por. Scat foss.

LS: wht, fr-md xln, few foss. Scat vulg por, many chky rx. NS.

LS: tan, md xln, foss, some mild. Mostly pr por, scat chky rx and vulg por. All NS.

LS: tan-gry, trng all wht. Md xln, foss, scat vulg por, mostly v chky. Scat gry foss cht, totally barren, no od.

Sh: black carb

Sh: gry

LS: wht, vfn-mic xln. V dns w/ no vis por, all totally barren, no od.

Sh: gry

LS: wht w/ some lt tan. fn xln, some md xln. All NS w/ no od.

Sh: gry w/ brn

LS: wht, fr-md xln, pr por and dns.

Sh: Black Carb

Sh: gry

LS: tan w/ some wht. Fn xln, some md xln. Mostly pr por and dns, scat resid stn, mostly barren. Lt od.

LS: tan-wht, fr-md xln, foss in prt. Fr pp por w/ few sml vugs, fr brn sat stn in 2-3 rx, fr SFO, lt od.

LS: wht-tan, md xln, foss w/ scat selinite. Fr-gd vulg por, scat chky rx. Fr-gd sat stn w/ scat gd SFO when broken. Gd strong od.

LS: wht-tan, md xln, foss in prt. Fr amt vulg por trng more subxin-chiky. Trng totally barren w/ no od, scat gry shp dnt.

LS: scat rx ala, trng more wht and mld in prt. Fr amt subxin-chiky rx trng dns w/ pr por. Totally barren, no od.

Heebner 3219 (-1246)  
Sh: Black Carb

Sh: gry

Toronto 3237 (-1264)  
LS: wht, fr-md xln, foss. Fr-gd vulg and pp por, some int foss por. Gd brn sat stn w/ gd SFO, fr od, free oil on cup. Trng totally dolomitic and dns w/ NS.

Sh: gry w/ brn

LS: wht, ool w/ few sml foss. Gd ooc por w/ scat int ool por, gd sat stn w/ gd SFO, lt od.

LS: tan, tot foss, gd int foss and vulg por. Scat gd sat stn w/ gd SFO, many barren chky rx. Lt od.

LS: tan, foss in prt, mostly fr-md xln. Fr-gd pp por w/ fr-gd sat stn and SFO, fr amt subxin-chiky rx. Fr-gd od

Sh: Black Carb

Sh: gry

LS: wht, ool w/ some lt tan, md xln, foss in prt. Scat gd int foss and vulg por w/ fr stn and sptd SFO, mostly v chky and barren. Lt-fr od. Trng many sml ool and frag foss w/ fr-gd lt brn stn and fr SFO in gd int foss and vulg por.

Sh: gry

LS: wht, ool in prt w/ gd ooc por. Mostly chky, all totally barren w/ no od.

LS: tan-wht, fr-md xln. Pr por and v dns, totally barren w/ no od.

Sh: drk gry

Sh: gry

LS: tan, fn xln. Fr pp por, silty tight. 3-4 rx w/ gd sat stn, fr-gd SFO, fr-gd od.

Sh: gry

Sh: gry

LS: wht-lt tan, fr-md xln. Fr-gd vulg por w/ fr lt brn stn, sptd SFO, lt-fr od.

Sh: gry

LS: tan-wht, ool. Gd ooc por w/ mostly gd sat stn, scat fr stn. Gd SFO, some gssy when broken, fr-gd od.

LS: wht-tan, scat ool, v dns w/ no vis por.

Sh: gry

LS: wht, fr-md xln, few foss and ool w/ int xln por. Mostly subxin-chiky, totally barren, no od.

LS: tan-wht, fr-md xln, scat foss. No vis por and v dns, all NS.

Sh: gry

LS: tan-wht, md xln, some mild in prt. Scat inbxn por, fr amt chky wht. All NS, no od. Few pcs org cht.

BKC 3510 (-1532)  
Sh: brn w/ lt grn and gry

LS: tan-wht, md xln w/ scat ool. Pr por, dns.

Sh: brn w/ some gry

LS: tan-wht, md xln, dns.

Sh: brn-red

LS: wht, fn xln, subxin-chiky. Totally barren, no od. 2-3 pcs org cht. Trng mostly cht, org and some tan, suc in prt, mostly fresh and shp. Scat vulg por w/ mw stn, mostly barren, fr-no od. Fr amt dns LS.

Sh: drk gry

Sh: gry

LS: wht, fr-md xln, well md, fr-well sort, gd int gran por and friable, lt sat w/ v gd SFO. Fr amt crs grain, sub-ang, fr sort, froated in prt, silty weath. Friy well cemented w/ fr IG por, rily friable, silty light. Fr-gd sat, gd black SFO when broken. Gd strong od, much free oil on cup.

Sh: brn-red, scat gry. Fr amt org and tan cht. Few pcs ss ala, poss carry.

SS: dr-wht, mid xln, some mild in prt. Scat inbxn por, fr amt chky wht. All NS, no od. Few pcs org cht.

BKC 3510 (-1532)  
Sh: brn w/ lt grn and gry

LS: tan-wht, md xln w/ scat ool. Pr por, dns.

Sh: brn w/ some gry

LS: tan-wht, md xln, dns.

Sh: brn-red

LS: wht, fn xln, subxin-chiky. Totally barren, no od. 2-3 pcs org cht. Trng mostly cht, org and some tan, suc in prt, mostly fresh and shp. Scat vulg por w/ mw stn, mostly barren, fr-no od. Fr amt dns LS.

Sh: drk gry

Sh: gry

LS: wht, fr-md xln, well md, fr-well sort, gd int gran por and friable, lt sat w/ v gd SFO. Fr amt crs grain, sub-ang, fr sort, froated in prt, silty weath. Friy well cemented w/ fr IG por, rily friable, silty light. Fr-gd sat, gd black SFO when broken. Gd strong od, much free oil on cup.

Sh: brn-red, scat gry. Fr amt org and tan





# Company: Double D's LLC

## Lease: Cecil #2

SEC: 30 TWN: 15S RNG: 18W  
County: ELLIS  
State: Kansas  
Drilling Contractor: Discovery Drilling  
Company, Inc. - Rig 4  
Elevation: 1965 EGL  
Field Name: NA  
Pool: Infield  
Job Number: 332

### Operation:

Uploading recovery &  
pressures

### DATE

April  
**17**  
2019

DST #1

Formation:  
Plattsmouth

Test Interval: 3152 -  
3178'

Total Depth: 3178'

Time On: 06:42 04/17

Time Off: 13:03 04/17

Time On Bottom: 08:41 04/17

Time Off Bottom: 10:41 04/17

Electronic Volume  
Estimate:  
2892'

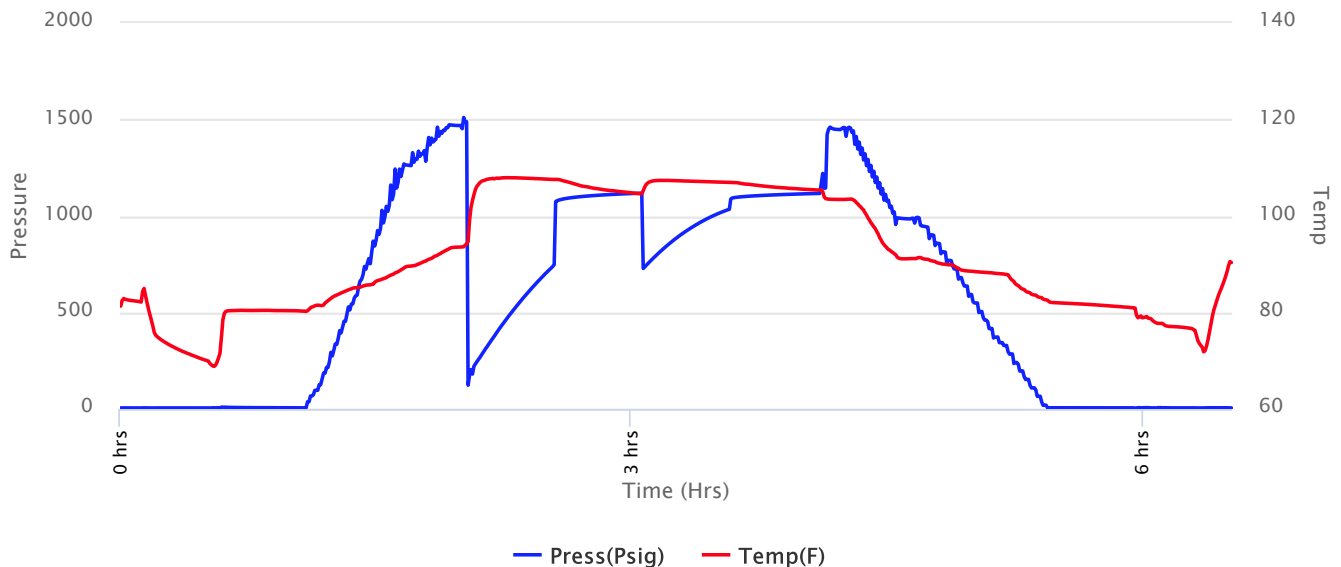
1st Open  
Minutes: 30  
Current Reading:  
300.1" at 30 min  
Max Reading: 300.1"

1st Close  
Minutes: 30  
Current Reading:  
0" at 30 min  
Max Reading: 0"

2nd Open  
Minutes: 30  
Current Reading:  
233.2" at 30 min  
Max Reading: 233.2"

2nd Close  
Minutes: 30  
Current Reading:  
0" at 30 min  
Max Reading: 0"

Inside Recorder







# Company: Double D's LLC

## Lease: Cecil #2

SEC: 30 TWN: 15S RNG: 18W  
 County: ELLIS  
 State: Kansas  
 Drilling Contractor: Discovery Drilling  
 Company, Inc. - Rig 4  
 Elevation: 1965 EGL  
 Field Name: NA  
 Pool: Infield  
 Job Number: 332

### Operation:

Uploading recovery &  
pressures

### DATE

April  
**17**  
2019

### DST #1

Formation:  
Plattsmouth

Test Interval: 3152 -  
3178'

Total Depth: 3178'

Time On: 06:42 04/17

Time Off: 13:03 04/17

Time On Bottom: 08:41 04/17

Time Off Bottom: 10:41 04/17

### Recovered

Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
157	2.23411	SLMCHGCW (trace O)	40	.1	46.9	13
190	2.7037	SLMCHGCW	30	0	60	10
317	4.51091	SLMCSLGCW (trace O)	10	.1	88.9	1
445	6.33235	SLMCSLGCW	5	0	94	1
1079	15.0605326	SLMCW	0	0	99	1

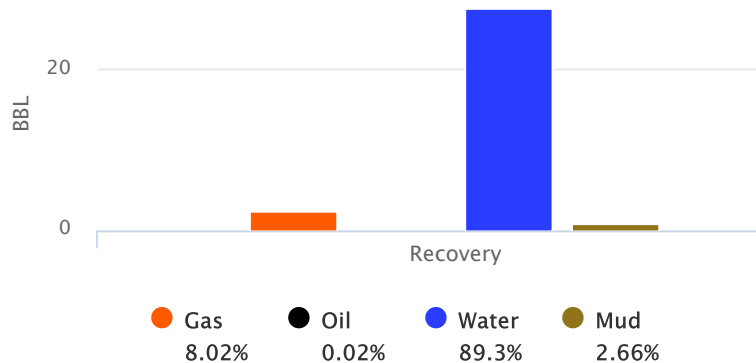
Total Recovered: 2188 ft

Total Barrels Recovered: 30.8416026

Reversed Out  
NO

Initial Hydrostatic Pressure	1468	PSI
Initial Flow	123 to 748	PSI
<b>Initial Closed in Pressure</b>	<b>1117</b>	<b>PSI</b>
Final Flow Pressure	728 to 1032	PSI
<b>Final Closed in Pressure</b>	<b>1117</b>	<b>PSI</b>
Final Hydrostatic Pressure	1452	PSI
Temperature	108	°F
Pressure Change Initial	0.1	%
Close / Final Close		

### Recovery at a glance



GIP cubic foot volume: 13.88164





# Company: Double D's LLC

## Lease: Cecil #2

SEC: 30 TWN: 15S RNG: 18W  
County: ELLIS  
State: Kansas  
Drilling Contractor: Discovery Drilling  
Company, Inc. - Rig 4  
Elevation: 1965 EGL  
Field Name: NA  
Pool: Infield  
Job Number: 332

### Operation:

Uploading recovery &  
pressures

### DATE

April  
**17**  
2019

DST #1

Formation:  
Plattsmouth

Test Interval: 3152 -  
3178'

Total Depth: 3178'

Time On: 06:42 04/17

Time Off: 13:03 04/17

Time On Bottom: 08:41 04/17 Time Off Bottom: 10:41 04/17

### BUCKET MEASUREMENT:

1st Open: BoB in 1 min 10 sec.

1st Close: No Return

2nd Open: BoB in 1 min. 15 sec.

2nd Close: No Return

### REMARKS:

Chased tool approx 5' to bottom.

Tool Sample: 0% Gas .1% Oil 94.9% Water 5% Mud

Ph: 6

Measured RW: .07 @ 54 degrees °F

RW at Formation Temp: 0.037 @ 108 °F

Chlorides: 162000 ppm





**Company: Double D's LLC**  
**Lease: Cecil #2**

SEC: 30 TWN: 15S RNG: 18W  
County: ELLIS  
State: Kansas  
Drilling Contractor: Discovery Drilling  
Company, Inc. - Rig 4  
Elevation: 1965 EGL  
Field Name: NA  
Pool: Infield  
Job Number: 332

**Operation:**

Uploading recovery &  
pressures

**DATE**

April  
**17**  
2019

**DST #1**

**Formation:**  
**Plattsmouth**

**Test Interval: 3152 -**  
**3178'**

**Total Depth: 3178'**

Time On: 06:42 04/17

Time Off: 13:03 04/17

Time On Bottom: 08:41 04/17 Time Off Bottom: 10:41 04/17

**Down Hole Makeup**

**Heads Up:** 13.07 FT

**Packer 1:** 3147 FT

**Drill Pipe:** 3108.37 FT  
*ID-3 1/2*

**Packer 2:** 3152 FT

**Weight Pipe:** 0 FT  
*ID-2 7/8*

**Top Recorder:** 3139 FT

**Bottom Recorder:** 3154 FT

**Collars:** 31.54 FT  
*ID-2 1/4*

**Well Bore Size:** 7 7/8

**Surface Choke:** 1"

**Test Tool:** 26.16 FT  
*ID-3 1/2-FH*

**Bottom Choke:** 5/8"

**Total Anchor:** 26

**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 1/2*

**Change Over:** 0 FT

**Perforations: (below):** 25 FT  
*4 1/2-FH*





**Company: Double D's LLC**  
**Lease: Cecil #2**

SEC: 30 TWN: 15S RNG: 18W  
County: ELLIS  
State: Kansas  
Drilling Contractor: Discovery Drilling  
Company, Inc. - Rig 4  
Elevation: 1965 EGL  
Field Name: NA  
Pool: Infield  
Job Number: 332

**Operation:**

Uploading recovery &  
pressures

**DATE**

April  
**17**  
2019

**DST #1**

**Formation:**  
**Plattsmouth**

**Test Interval: 3152 -**  
**3178'**

**Total Depth: 3178'**

Time On: 06:42 04/17

Time Off: 13:03 04/17

Time On Bottom: 08:41 04/17 Time Off Bottom: 10:41 04/17

**Mud Properties**

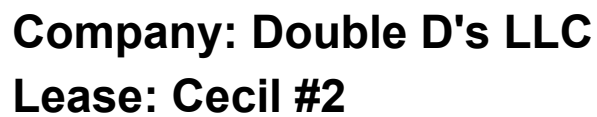
**Mud Type:** Chem

**Weight:** 9.6

**Viscosity:** 29

**Filtrate:** N/C

**Chlorides:** 52000 ppm







# Company: Double D's LLC

## Lease: Cecil #2

SEC: 30 TWN: 15S RNG: 18W  
 County: ELLIS  
 State: Kansas  
 Drilling Contractor: Discovery Drilling  
 Company, Inc. - Rig 4  
 Elevation: 1965 EGL  
 Field Name: Martina East  
 Pool: Infield  
 Job Number: 332

### Operation:

Uploading recovery &  
pressures

### DATE

April  
**17**  
2019

DST #2 Formation: Toronto - LKC "A" Test Interval: 3215 - 3283' Total Depth: 3283'

Time On: 23:47 04/17

Time Off: 05:00 04/18

Time On Bottom: 01:28 04/18

Time Off Bottom: 03:28 04/18

### Recovered

Foot BBLs  
40 0.2755626

Description of Fluid  
SLOCM

Gas %  
0

Oil %  
5

Water %  
0

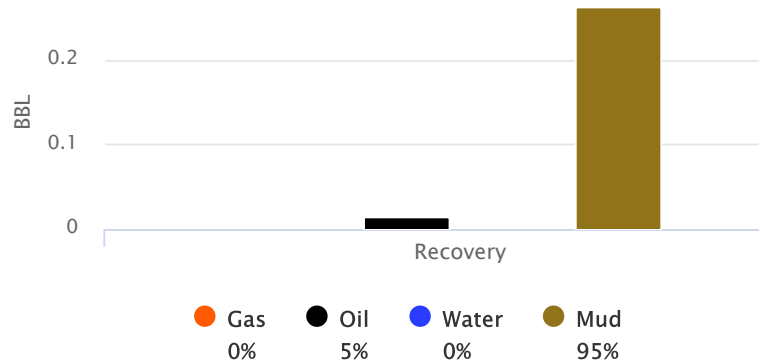
Mud %  
95

Total Recovered: 40 ft

Total Barrels Recovered: 0.2755626

Reversed Out  
NO

### Recovery at a glance



Initial Hydrostatic Pressure	1510	PSI
Initial Flow	16 to 26	PSI
<b>Initial Closed in Pressure</b>	<b>619</b>	<b>PSI</b>
Final Flow Pressure	31 to 32	PSI
<b>Final Closed in Pressure</b>	<b>263</b>	<b>PSI</b>
Final Hydrostatic Pressure	1491	PSI
Temperature	97	°F
Pressure Change Initial Close / Final Close	57.5	%

GIP cubic foot volume: 0

Tool Sample: 0% Gas 5% Oil 0% Water 95% Mud





**Mud Type:** Chem      **Weight:** 8.9      **Viscosity:** 55      **Filtrate:** 6.0      **Chlorides:** 3400 ppm





# Company: Double D's LLC

## Lease: Cecil #2

SEC: 30 TWN: 15S RNG: 18W  
County: ELLIS  
State: Kansas  
Drilling Contractor: Discovery Drilling  
Company, Inc. - Rig 4  
Elevation: 1965 EGL  
Field Name: Martina East  
Pool: Infield  
Job Number: 332

### Operation:

Uploading recovery &  
pressures

### DATE

April  
**18**  
2019

DST #3      Formation: LKC "C"      Test Interval: 3274 - 3300'      Total Depth: 3300'

Time On: 10:45 04/18

Time Off: 16:06 04/18

Time On Bottom: 12:27 04/18

Time Off Bottom: 14:27 04/18

Electronic Volume  
Estimate:  
7'

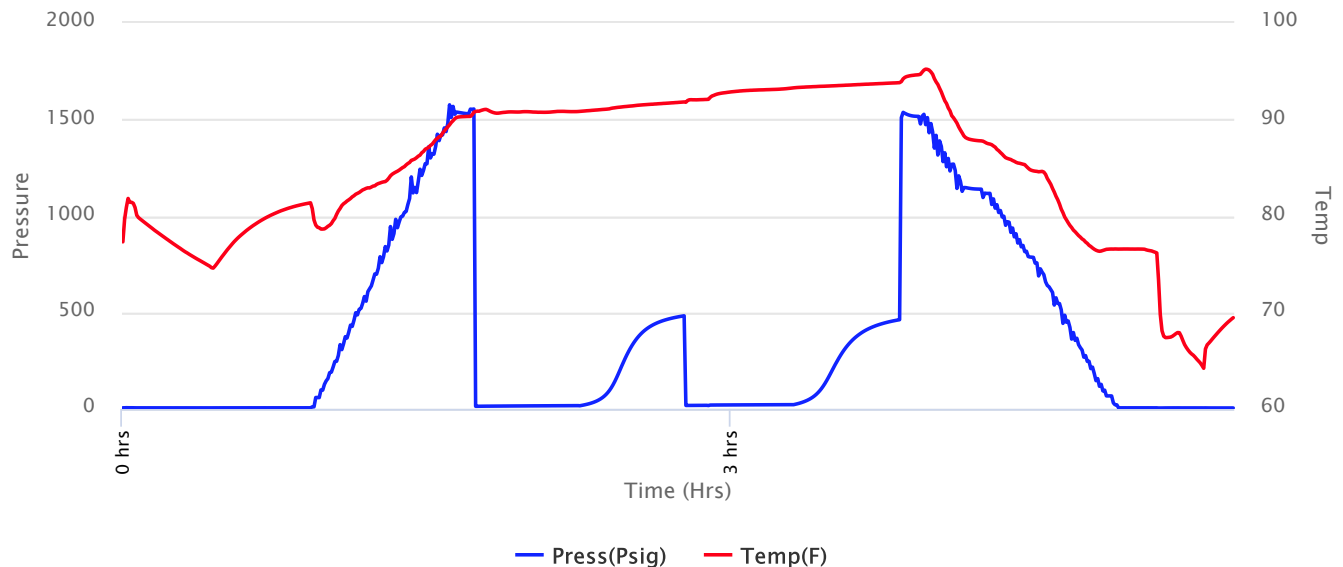
1st Open  
Minutes: 30  
Current Reading:  
.1" at 30 min  
Max Reading: .1"

1st Close  
Minutes: 30  
Current Reading:  
0" at 30 min  
Max Reading: 0"

2nd Open  
Minutes: 30  
Current Reading:  
.1" at 30 min  
Max Reading: .2"

2nd Close  
Minutes: 30  
Current Reading:  
0" at 30 min  
Max Reading: 0"

Inside Recorder





# Company: Double D's LLC

## Lease: Cecil #2

SEC: 30 TWN: 15S RNG: 18W  
 County: ELLIS  
 State: Kansas  
 Drilling Contractor: Discovery Drilling  
 Company, Inc. - Rig 4  
 Elevation: 1965 EGL  
 Field Name: Martina East  
 Pool: Infield  
 Job Number: 332

### Operation:

Uploading recovery &  
pressures

### DATE

April  
**18**  
2019

DST #3 Formation: LKC "C" Test Interval: 3274 - 3300' Total Depth: 3300'

Time On: 10:45 04/18

Time Off: 16:06 04/18

Time On Bottom: 12:27 04/18

Time Off Bottom: 14:27 04/18

### Recovered

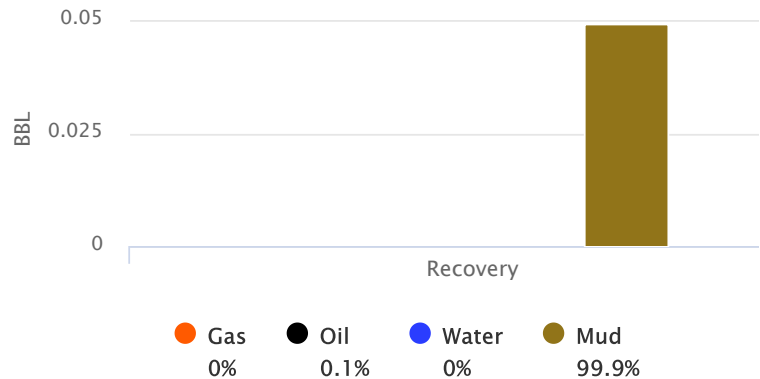
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
10	0.0492	M (trace O)	0	.1	0	99.9

Total Recovered: 10 ft

Total Barrels Recovered: 0.0492

Reversed Out  
NO

### Recovery at a glance



Initial Hydrostatic Pressure	1531	PSI
Initial Flow	14 to 17	PSI
Initial Closed in Pressure	483	PSI
Final Flow Pressure	18 to 22	PSI
Final Closed in Pressure	457	PSI
Final Hydrostatic Pressure	1517	PSI
Temperature	94	°F
Pressure Change Initial Close / Final Close	5.2	%

GIP cubic foot volume: 0





**Company: Double D's LLC**  
**Lease: Cecil #2**

SEC: 30 TWN: 15S RNG: 18W  
County: ELLIS  
State: Kansas  
Drilling Contractor: Discovery Drilling  
Company, Inc. - Rig 4  
Elevation: 1965 EGL  
Field Name: Martina East  
Pool: Infield  
Job Number: 332

**Operation:**

Uploading recovery &  
pressures

**DATE**

April

**18**

2019

**DST #3      Formation: LKC "C"      Test Interval: 3274 -      Total Depth: 3300'**  
**3300'**

Time On: 10:45 04/18

Time Off: 16:06 04/18

Time On Bottom: 12:27 04/18

Time Off Bottom: 14:27 04/18

**BUCKET MEASUREMENT:**

1st Open: Weak surface blow built to 1/8" over 30 min.

1st Close: No Return

2nd Open: Weak surface blow - Flushed tool at 6 min. - 1/4" blow after flush died back to surface blow over 30 min.

2nd Close: No Return

**REMARKS:**

Flushed tool 6 min. Into Final Flow Period.

Tool Sample: 0% Gas .1% Oil 10% Water 89.9% Mud



# Company: Double D's LLC

## Lease: Cecil #2

SEC: 30 TWN: 15S RNG: 18W  
County: ELLIS  
State: Kansas  
Drilling Contractor: Discovery Drilling  
Company, Inc. - Rig 4  
Elevation: 1965 EGL  
Field Name: Martina East  
Pool: Infield  
Job Number: 332

### Operation:

Uploading recovery &  
pressures

### DATE

April  
**18**  
2019

DST #3      Formation: LKC "C"      Test Interval: 3274 - 3300'      Total Depth: 3300'

Time On: 10:45 04/18

Time Off: 16:06 04/18

Time On Bottom: 12:27 04/18

Time Off Bottom: 14:27 04/18

### Down Hole Makeup

**Heads Up:** 17.99 FT

**Packer 1:** 3269 FT

**Drill Pipe:** 3235.29 FT  
*ID-3 1/2*

**Packer 2:** 3274 FT

**Weight Pipe:** 0 FT  
*ID-2 7/8*

**Top Recorder:** 3261 FT

**Bottom Recorder:** 3276 FT

**Collars:** 31.54 FT  
*ID-2 1/4*

**Well Bore Size:** 7 7/8

**Surface Choke:** 1"

**Test Tool:** 26.16 FT  
*ID-3 1/2-FH*

**Bottom Choke:** 5/8"

**Total Anchor:** 26

#### 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 1/2*

**Change Over:** 0 FT

**Perforations: (below):** 25 FT  
*4 1/2-FH*





**Company: Double D's LLC**  
**Lease: Cecil #2**

SEC: 30 TWN: 15S RNG: 18W  
County: ELLIS  
State: Kansas  
Drilling Contractor: Discovery Drilling  
Company, Inc. - Rig 4  
Elevation: 1965 EGL  
Field Name: Martina East  
Pool: Infield  
Job Number: 332

**Operation:**

Uploading recovery &  
pressures

**DATE**

April  
**18**  
2019

**DST #3**      **Formation: LKC "C"**      **Test Interval: 3274 - 3300'**      **Total Depth: 3300'**

Time On: 10:45 04/18

Time Off: 16:06 04/18

Time On Bottom: 12:27 04/18

Time Off Bottom: 14:27 04/18

**Mud Properties**

**Mud Type:** Chem

**Weight:** 9.0

**Viscosity:** 50

**Filtrate:** 6.8

**Chlorides:** 5200 ppm



# Company: Double D's LLC

## Lease: Cecil #2

SEC: 30 TWN: 15S RNG: 18W  
County: ELLIS  
State: Kansas  
Drilling Contractor: Discovery Drilling  
Company, Inc. - Rig 4  
Elevation: 1965 EGL  
Field Name: Martina East  
Pool: Infield  
Job Number: 332

### Operation:

Uploading recovery &  
pressures

### DATE

April  
**19**  
2019

DST #4

Formation: LKC "  
I,J"

Test Interval: 3413 -  
3459'

Total Depth: 3459'

Time On: 06:35 04/19

Time Off: 12:43 04/19

Time On Bottom: 08:30 04/19

Time Off Bottom: 11:00 04/19

Electronic Volume  
Estimate:  
197'

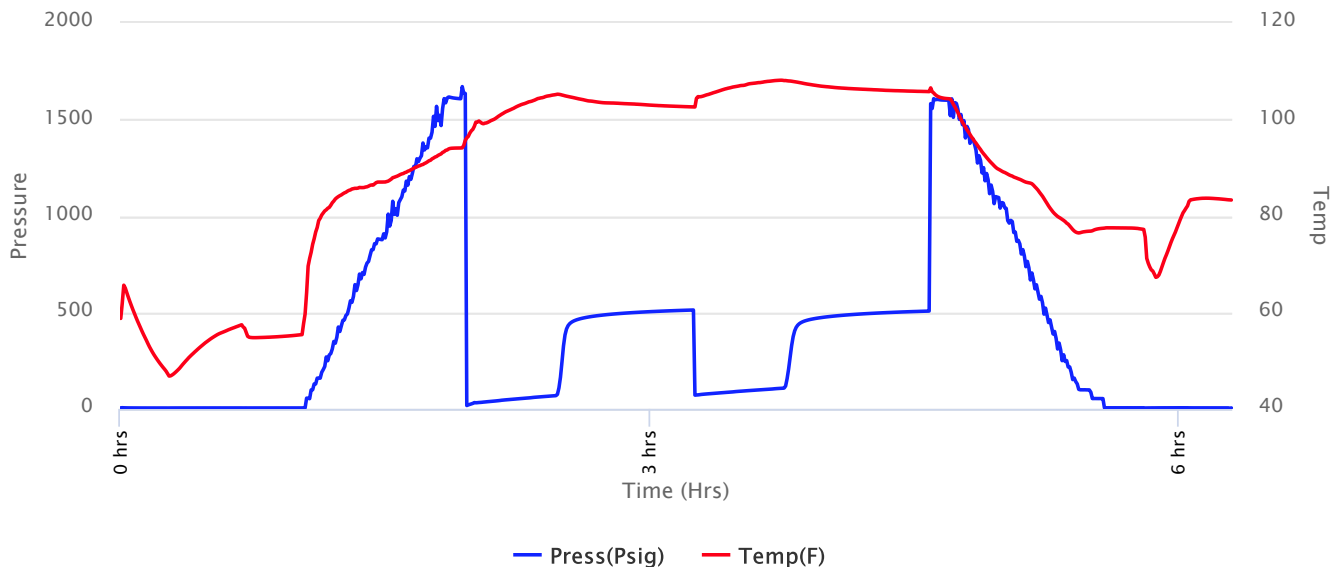
1st Open  
Minutes: 30  
Current Reading:  
11.4" at 30 min  
Max Reading: 11.4"

1st Close  
Minutes: 45  
Current Reading:  
0" at 45 min  
Max Reading: 0"

2nd Open  
Minutes: 30  
Current Reading:  
8.7" at 30 min  
Max Reading: 8.7"

2nd Close  
Minutes: 45  
Current Reading:  
0" at 45 min  
Max Reading: 0"

Inside Recorder





# Company: Double D's LLC

## Lease: Cecil #2

SEC: 30 TWN: 15S RNG: 18W  
 County: ELLIS  
 State: Kansas  
 Drilling Contractor: Discovery Drilling  
 Company, Inc. - Rig 4  
 Elevation: 1965 EGL  
 Field Name: Martina East  
 Pool: Infield  
 Job Number: 332

### Operation:

Uploading recovery &  
pressures

### DATE

April  
**19**  
2019

DST #4

Formation: LKC "  
I,J"

Test Interval: 3413 -  
3459'

Total Depth: 3459'

Time On: 06:35 04/19

Time Off: 12:43 04/19

Time On Bottom: 08:30 04/19

Time Off Bottom: 11:00 04/19

### Recovered

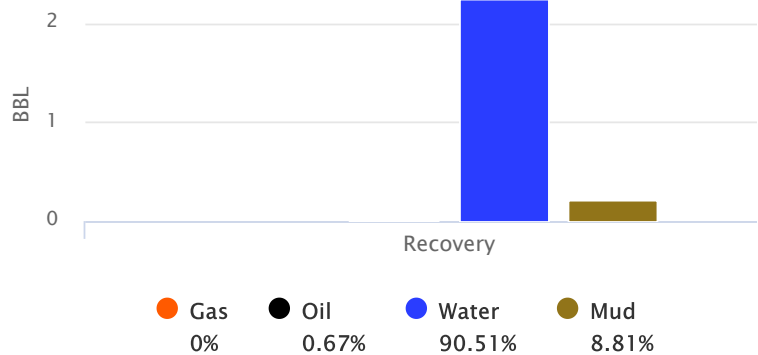
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
1	0.01423	O	0	100	0	0
5	0.07115	SLMCW (trace O)	0	.1	86.9	13
126	1.79298	SLMCW (trace O)	0	.1	89.9	10
63	0.6028526	SLMCW (trace O)	0	.1	94.9	5

Total Recovered: 195 ft

Total Barrels Recovered: 2.4812126

Reversed Out  
NO

### Recovery at a glance



Initial Hydrostatic Pressure	1610	PSI
Initial Flow	18 to 76	PSI
<b>Initial Closed in Pressure</b>	<b>512</b>	<b>PSI</b>
Final Flow Pressure	72 to 107	PSI
<b>Final Closed in Pressure</b>	<b>507</b>	<b>PSI</b>
Final Hydrostatic Pressure	1600	PSI
Temperature	108	°F

Pressure Change Initial  
Close / Final Close

1.1 %

GIP cubic foot volume: 0





**Company: Double D's LLC**  
**Lease: Cecil #2**

SEC: 30 TWN: 15S RNG: 18W  
County: ELLIS  
State: Kansas  
Drilling Contractor: Discovery Drilling  
Company, Inc. - Rig 4  
Elevation: 1965 EGL  
Field Name: Martina East  
Pool: Infield  
Job Number: 332

**Operation:**

Uploading recovery &  
pressures

**DATE**

April

**19**

2019

**DST #4**

**Formation: LKC "**  
**I,J"**

**Test Interval: 3413 -**  
**3459'**

**Total Depth: 3459'**

Time On: 06:35 04/19

Time Off: 12:43 04/19

Time On Bottom: 08:30 04/19

Time Off Bottom: 11:00 04/19

**BUCKET MEASUREMENT:**

1st Open: BoB in 27 min. 30 sec.

1st Close: No Return

2nd Open: Surface Blow built to 8 3/4" over 30 min.

2nd Close: No Return

**REMARKS:**

Tool Sample: 0% Gas 3% Oil 95% Water 2% Mud

Ph: 6

Measured RW: .1 @ 61 degrees °F

RW at Formation Temp: 0.059 @ 108 °F

Chlorides: 95000 ppm





**Company: Double D's LLC**  
**Lease: Cecil #2**

SEC: 30 TWN: 15S RNG: 18W  
County: ELLIS  
State: Kansas  
Drilling Contractor: Discovery Drilling  
Company, Inc. - Rig 4  
Elevation: 1965 EGL  
Field Name: Martina East  
Pool: Infield  
Job Number: 332

**Operation:**

Uploading recovery &  
pressures

**DATE**

April  
**19**  
2019

**DST #4**      **Formation: LKC "**  
**I,J"**      **Test Interval: 3413 -**  
**3459'**      **Total Depth: 3459'**

Time On: 06:35 04/19

Time Off: 12:43 04/19

Time On Bottom: 08:30 04/19    Time Off Bottom: 11:00 04/19

**Mud Properties**

**Mud Type: Chem**

**Weight: 9.2**

**Viscosity: 55**

**Filtrate: 7.2**

**Chlorides: 5000 ppm**





# Company: Double D's LLC

## Lease: Cecil #2

SEC: 30 TWN: 15S RNG: 18W  
County: ELLIS  
State: Kansas  
Drilling Contractor: Discovery Drilling  
Company, Inc. - Rig 4  
Elevation: 1965 EGL  
Field Name: Martina East  
Pool: Infield  
Job Number: 332

### Operation:

Uploading recovery &  
pressures

### DATE

April  
**20**  
2019

DST #6

Formation: Cong.  
Snd.

Test Interval: 3487 -  
3589'

Total Depth: 3589'

Time On: 00:48 04/20

Time Off: 06:24 04/20

Time On Bottom: 02:34 04/20

Time Off Bottom: 04:34 04/20

Electronic Volume  
Estimate:  
35'

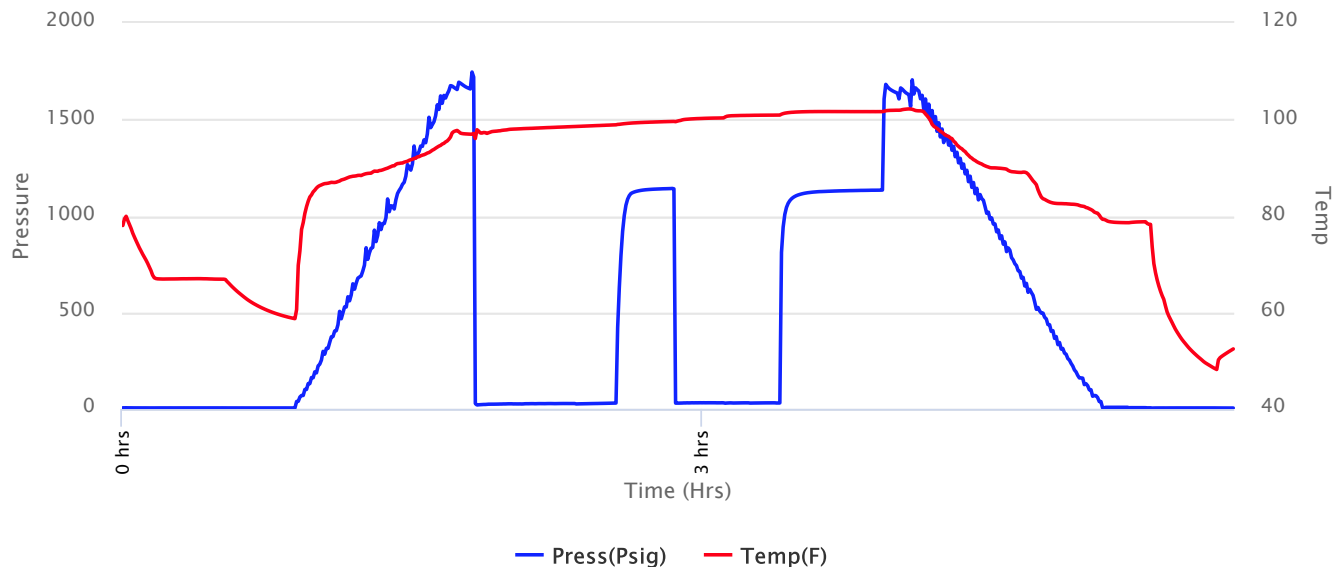
1st Open  
Minutes: 30  
Current Reading:  
1.5" at 30 min  
Max Reading: 1.5"

1st Close  
Minutes: 30  
Current Reading:  
0" at 30 min  
Max Reading: 0"

2nd Open  
Minutes: 30  
Current Reading:  
0" at 30 min  
Max Reading: .1"

2nd Close  
Minutes: 30  
Current Reading:  
0" at 30 min  
Max Reading: 0"

Inside Recorder





# Company: Double D's LLC

## Lease: Cecil #2

SEC: 30 TWN: 15S RNG: 18W  
 County: ELLIS  
 State: Kansas  
 Drilling Contractor: Discovery Drilling  
 Company, Inc. - Rig 4  
 Elevation: 1965 EGL  
 Field Name: Martina East  
 Pool: Infield  
 Job Number: 332

### Operation:

Uploading recovery &  
 pressures

### DATE

April  
**20**  
 2019

DST #6

Formation: Cong.  
 Snd.

Test Interval: 3487 -  
 3589'

Total Depth: 3589'

Time On: 00:48 04/20

Time Off: 06:24 04/20

Time On Bottom: 02:34 04/20

Time Off Bottom: 04:34 04/20

### Recovered

Foot	BBLs
20	0.0984

Description of Fluid  
 SLOCM

Gas %  
 0

Oil %  
 2

Water %  
 0

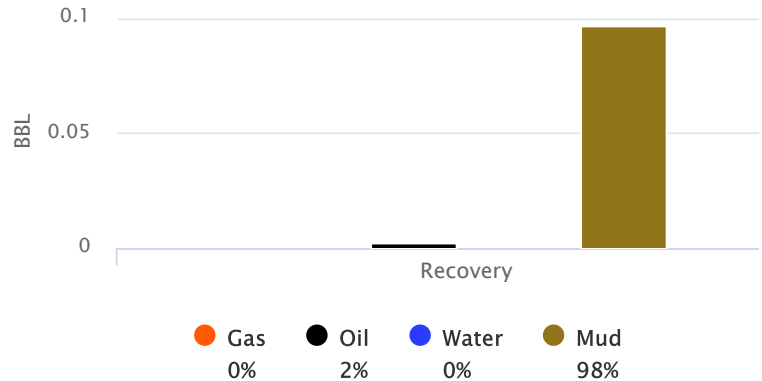
Mud %  
 98

Total Recovered: 20 ft

Total Barrels Recovered: 0.0984

Reversed Out  
 NO

### Recovery at a glance



Initial Hydrostatic Pressure	1675	PSI
Initial Flow	21 to 28	PSI
Initial Closed in Pressure	1140	PSI
Final Flow Pressure	31 to 32	PSI
Final Closed in Pressure	1133	PSI
Final Hydrostatic Pressure	1649	PSI
Temperature	102	°F
Pressure Change Initial Close / Final Close	0.6	%

GIP cubic foot volume: 0



**Company: Double D's LLC**  
**Lease: Cecil #2**

SEC: 30 TWN: 15S RNG: 18W  
County: ELLIS  
State: Kansas  
Drilling Contractor: Discovery Drilling  
Company, Inc. - Rig 4  
Elevation: 1965 EGL  
Field Name: Martina East  
Pool: Infield  
Job Number: 332

**Operation:**

Uploading recovery &  
pressures

**DATE**

April  
**20**  
2019

**DST #6**

**Formation: Cong.  
Snd.**

**Test Interval: 3487 -  
3589'**

**Total Depth: 3589'**

Time On: 00:48 04/20

Time Off: 06:24 04/20

Time On Bottom: 02:34 04/20

Time Off Bottom: 04:34 04/20

**BUCKET MEASUREMENT:**

1st Open: 1/2" Blow built to 1 1/2" over 30 min.

1st Close: No Return

2nd Open: Weak Surface blow started at 15 min. Died at 26 min.

2nd Close: No Return

**REMARKS:**

Tool Sample: 0% Gas 5% Oil 0% Water 95% Mud



**Company: Double D's LLC**  
**Lease: Cecil #2**

SEC: 30 TWN: 15S RNG: 18W  
County: ELLIS  
State: Kansas  
Drilling Contractor: Discovery Drilling  
Company, Inc. - Rig 4  
Elevation: 1965 EGL  
Field Name: Martina East  
Pool: Infield  
Job Number: 332

**Operation:**

Uploading recovery &  
pressures

**DATE**

April  
**20**  
2019

**DST #6**      **Formation: Cong. Snd.**      **Test Interval: 3487 - 3589'**      **Total Depth: 3589'**  
Time On: 00:48 04/20      Time Off: 06:24 04/20  
Time On Bottom: 02:34 04/20      Time Off Bottom: 04:34 04/20

**Down Hole Makeup**

<b>Heads Up:</b>	26.06 FT	<b>Packer 1:</b>	3482.36 FT
<b>Drill Pipe:</b>	3456.72 FT	<b>Packer 2:</b>	3487.36 FT
	ID-3 1/2	<b>Top Recorder:</b>	3474.36 FT
<b>Weight Pipe:</b>	0 FT	<b>Bottom Recorder:</b>	3491 FT
	ID-2 7/8	<b>Well Bore Size:</b>	7 7/8
<b>Collars:</b>	31.54 FT	<b>Surface Choke:</b>	1"
	ID-2 1/4	<b>Bottom Choke:</b>	5/8"
<b>Test Tool:</b>	26.16 FT		
	ID-3 1/2-FH		
<b>Total Anchor:</b>	101.64		
	<u><b>Anchor Makeup</b></u>		
<b>Packer Sub:</b>	1 FT		
<b>Perforations: (top):</b>	1 FT		
	4 1/2-FH		
<b>Change Over:</b>	.5 FT		
<b>Drill Pipe: (in anchor):</b>	95.14 FT		
	ID-3 1/2		
<b>Change Over:</b>	1 FT		
<b>Perforations: (below):</b>	3 FT		
	4 1/2-FH		





**Company: Double D's LLC**  
**Lease: Cecil #2**

SEC: 30 TWN: 15S RNG: 18W  
County: ELLIS  
State: Kansas  
Drilling Contractor: Discovery Drilling  
Company, Inc. - Rig 4  
Elevation: 1965 EGL  
Field Name: Martina East  
Pool: Infield  
Job Number: 332

**Operation:**

Uploading recovery &  
pressures

**DATE**

April  
**20**  
2019

**DST #6**

**Formation: Cong.  
Snd.**

**Test Interval: 3487 -  
3589'**

**Total Depth: 3589'**

Time On: 00:48 04/20

Time Off: 06:24 04/20

Time On Bottom: 02:34 04/20

Time Off Bottom: 04:34 04/20

**Mud Properties**

**Mud Type: Chem**

**Weight: 9.2**

**Viscosity: 51**

**Filtrate: 7.2**

**Chlorides: 5000 ppm**