

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

Confidentiality Requested:

Yes No

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
 Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
 Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

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

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

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	BAIRD 2-30
Doc ID	1357635

Tops

Name	Top	Datum
Anhydrite	2870	+394
Base Anhydrite	2904	+361
Stotler	3770	-506
Heebner	4079	-815
Lansing	4132	-868
Base Kansas City	4382	-1118
Pawnee	4504	-1240
Fort Scott	4570	-1306
Cherokee	4598	-1334
Mississippi	4750	-1486



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

FIELD SERVICE TICKET

1718 15018 A

DATE _____ TICKET NO. _____

DATE OF JOB <u>4-9-17</u> DISTRICT <u>Pratt</u>		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 <u>LD Drilling</u>		LEASE <u>Baird</u> WELL NO. <u>2-3</u>							
ADDRESS		COUNTY <u>Thomas</u> STATE <u>Ky</u>							
CITY STATE		SERVICE CREW <u>MATTHEW GRAYES OSBORN</u>							
AUTHORIZED BY		JOB TYPE: <u>242 875 SURVEY</u>							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
<u>86779</u>	<u>.5</u>						<u>4-8</u>		<u>4:30</u>
						ARRIVED AT JOB		AM	<u>10:30</u>
						START OPERATION		AM	<u>11:45</u>
<u>19860</u>	<u>.5</u>					FINISH OPERATION	<u>4-9-17</u>	AM	<u>12:10</u>
						RELEASED		AM	<u>12:45</u>
						MILES FROM STATION TO WELL			<u>242</u>

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: [Signature]
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
<u>CP 103</u>	<u>60/40 POZ</u>	<u>54</u>	<u>300</u>		<u>3,600 00</u>
<u>CC 109</u>	<u>calcium chloride</u>	<u>1b</u>	<u>774</u>		<u>812 70</u>
<u>CC 102</u>	<u>CELLORIAN</u>	<u>1b</u>	<u>75</u>		<u>277 50</u>
<u>E 100</u>	<u>P. U. MILLS</u>	<u>mi</u>	<u>100</u>		<u>450 00</u>
<u>E 101</u>	<u>HEAVY CR. MILLS</u>	<u>mi</u>	<u>200</u>		<u>1,500 00</u>
<u>E 113</u>	<u>PROP + bulk del.</u>	<u>700</u>	<u>1290</u>		<u>3,225 00</u>
<u>CC 200</u>	<u>D-500</u>	<u>4hr</u>	<u>1</u>		<u>1,000 00</u>
<u>CC 240</u>	<u>Blend + mix</u>	<u>50</u>	<u>300</u>		<u>420 00</u>
<u>S 003</u>	<u>Supervisor</u>	<u>ea</u>	<u>1</u>		<u>175 00</u>
SUB TOTAL					<u>11,460 20</u>

CHEMICAL / ACID DATA:			

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

TOTAL JWW 5959 30

SERVICE REPRESENTATIVE Mike Matton

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: [Signature]
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

TTMH (74)

FIELD SERVICE TICKET
1718 15025 A

DATE _____ TICKET NO. _____

DATE OF JOB: 4-19-17 DISTRICT: Pratt		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:							
CUSTOMER: L.D. Drilling inc		LEASE: BAIN WELL NO.: 2-30							
ADDRESS:		COUNTY: Thomas STATE: KS							
CITY: STATE:		SERVICE CREW: MARRAL, McGraw, OSBORN, SCOTT							
AUTHORIZED BY:		JOB TYPE: 2-42 5 1/2" long string							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	4-18-17	AM/PM	4:30
19843	1					ARRIVED AT JOB	4-19	AM/PM	1:20
						START OPERATION		AM/PM	4:30
73768	.5					FINISH OPERATION		AM/PM	5:15
						RELEASED		AM/PM	6:00
						MILES FROM STATION TO WELL	244		

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: [Signature]
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 105	AAR CMT	SK	150		2,550 00
CP 103	60/40 P02	SK	30		360 00
CP 200	CMT SOL	lb	52		13 00
CC 102	CELLULOSE	lb	38		140 00
CC 111	SALT	lb	816		408 00
CC 113	SYPSUM	lb	705		528 75
CC 129	FIA-322	lb	113		847 50
CC 201	SILICON	lb	901		603 67
CF 1251	Auto Kill HOA1 Shoo	EA	1		360 00
CF 607	ATCH Down Plug + baffle	EA	1		400 00
CF 1901	BASKET	EA	1		290 00
CF 1651	Turbulizer	EA	8		880 00
CC 151	Mud Plug	SAL	1,000		1,500 00
E 100	P.H. Miles	Mi	100		450 00
E 101	Prop + bulk dol heavy eq. miles	Mi	200		1,500 00
E 113	Prop + bulk dol	Mi	835		2,087 50
CE 205	depth charge 4000-5000'	44'	1		2,520 00
CE 240	blend + mix	SK	180		292 00
5003	Supervisor	EA	1		175 00
CE 504	Plug CONT.	JOB	1		250 00
SUB TOTAL					16,116 00

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	✓
TOTAL		16,380 33

SERVICE REPRESENTATIVE: Mike Marral	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <u>[Signature]</u>
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)	

FIELD SERVICE ORDER NO.

Customer LD Drilling	Lease No.	Date 4-19-17
Lease Baird	Well # 2-30	
Field Order # 15085	Station Pratt	Casing 5 1/2 Depth 4678 County Thomas State KS
Type Job 2-42 5 1/2" long string	Formation TD 4850	Legal Description 30-65-355

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME	
Casing Size 5 1/2	Tubing Size	Shots/Ft		Acid 150 SKS AA-2	RATE	PRESS	ISIP
Depth 4678	Depth	From	To	Pre Pad 30 SK 60/40/20	Max		5 Min.
Volume 111.3	Volume	From	To	Pad	Min		10 Min.
Max Press 1500	Max Press	From	To	Frac	Avg		15 Min.
Well Connection P.C.	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth 4664.32	Packer Depth	From	To	Flush 111	Gas Volume		Total Load

Customer Representative MARK DAVIS	Station Manager JUSTIN WASKERMAN	Treater MIKE MATTAL
Service Units 83353	19843	19960 73768
Driver Names MATTAL	McGraw	OSBORNE

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
1:20					ON location / SAFETY meeting
2:00					run 5 1/2 15.5 # casing, shoe + BARRIERS
					CENTS ON 1,3,5,7,9,10,12,14
3:10					CASING ON BOTTOM
3:20					HOOK TO CASING / BREAK IRC W. RIG
4:32	300		5	4	PUMP 5 BBI WARM
4:34	300		24	4.5	PUMP 24 BBI mud flush
4:39	400		5	4.5	PUMP 5 BBI WARM
4:33	400		41	5	MIX 150 SKS AA-2
4:39			4	4	WASH PUMP + LINE / DROP PLUG
4:43	300			6.5	START DISPLACEMENT
4:57	400		77	6	LIFT PRESSURE
5:01	500		100	3	SLOW RATE
5:04	1700		111	-	PLUG DOWN
5:10			7.5		PLUG RAT HOLE
					CIRCULATION THRU JOB
					JOB COMPLETE
					THANK YOU!
					MIKE MATTAL
					SCOTTY + MIKE RILEY



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: Baird 2-30 DST 1

TIME ON: 12:27
TIME OFF: 19:56

Company LD Drilling Lease & Well No. Baird 2-30
Contractor LD Rig 1 Charge to LD
Elevation 3264 KB Formation _____ Wabi Effective Pay _____ Ft. Ticket No. W281
Date 4/13/2017 Sec. 30 Twp. _____ 6 S Range _____ 35 W County _____ Thomas State KANSAS
Test Approved By Kim Shoemaker Diamond Representative WIL STEINBECK

Formation Test No. 1 Interval Tested from 3771 ft. to 3847 ft. Total Depth 3847 ft.
Packer Depth 3766 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 4771 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____
Top Recorder Depth (Inside) _____ 3757 ft. Recorder Number _____ 5965 Cap. _____ 5000 P.S.I.
Bottom Recorder Depth (Outside) _____ 3772 ft. Recorder Number _____ 5587 Cap. _____ 5000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Mud Type CHEMICAL Viscosity 50 Drill Collar Length _____ 0 ft. I.D. _____ 2 1/4 in.
Weight 8.9 Water Loss 6.8 cc. Weight Pipe Length _____ 0 ft. I.D. _____ 2 7/8 in.
Chlorides _____ 2000 P.P.M. Drill Pipe Length _____ 3738 ft. I.D. _____ 3 1/2 in.
Jars: Make STERLING Serial Number J&J Test Tool Length _____ 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? Yes Reversed Out No Anchor Length _____ 76 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: Built to 2 1/2" **No Return**
2nd Open: Built to 2" **No Return**

Recovered 440 ft. of MCW 30%M 70%W skim of oil
Recovered 440 ft. of Total Fluid
Recovered _____ ft. of _____
Recovered _____ ft. of _____

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Recovered _____ ft. of _____	Insurance
Remarks: <u>Tool Sample= Plugged with cuttings</u>	Total

Time Set Packer(s) 14:45 A.M. P.M. Time Started Off Bottom 17:45 A.M. P.M. Maximum Temperature 120
Initial Hydrostatic Pressure..... (A) 1760 P.S.I.
Initial Flow Period..... Minutes 30 (B) 15 P.S.I. to (C) 84 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 1113 P.S.I.
Final Flow Period..... Minutes 45 (E) 91 P.S.I. to (F) 205 P.S.I.
Final Closed In Period..... Minutes 60 (G) 1104 P.S.I.
Final Hydrostatic Pressure..... (H) 1756 P.S.I.

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



Diamond Testing General Report

Wil Steinbeck
TESTER
CELL: 620-282-9067

General Information

Company Name	LD Drilling	Job Number	W281
Contact	Kim Shoemaker	Representative	Wilbur Steinbeck
Well Name	Baird 2-30	Well Operator	LD
Unique Well ID		Report Date	2017/04/13
Surface Location	S30/6S/35WThomas/Kan	Prepared By	Wilbur Steinbeck
Field	Wildcat	Qualified By	Kim Shoemaker

Test Information

Test Type	DST Conventional
Formation	Wabi
Well Fluid Type	
Test Purpose	

Start Test Date	2017/04/13	Start Test Time	12:27:00
Final Test Date	2017/04/13	Final Test Time	19:56:00

Test Recovery

RECOVERY:

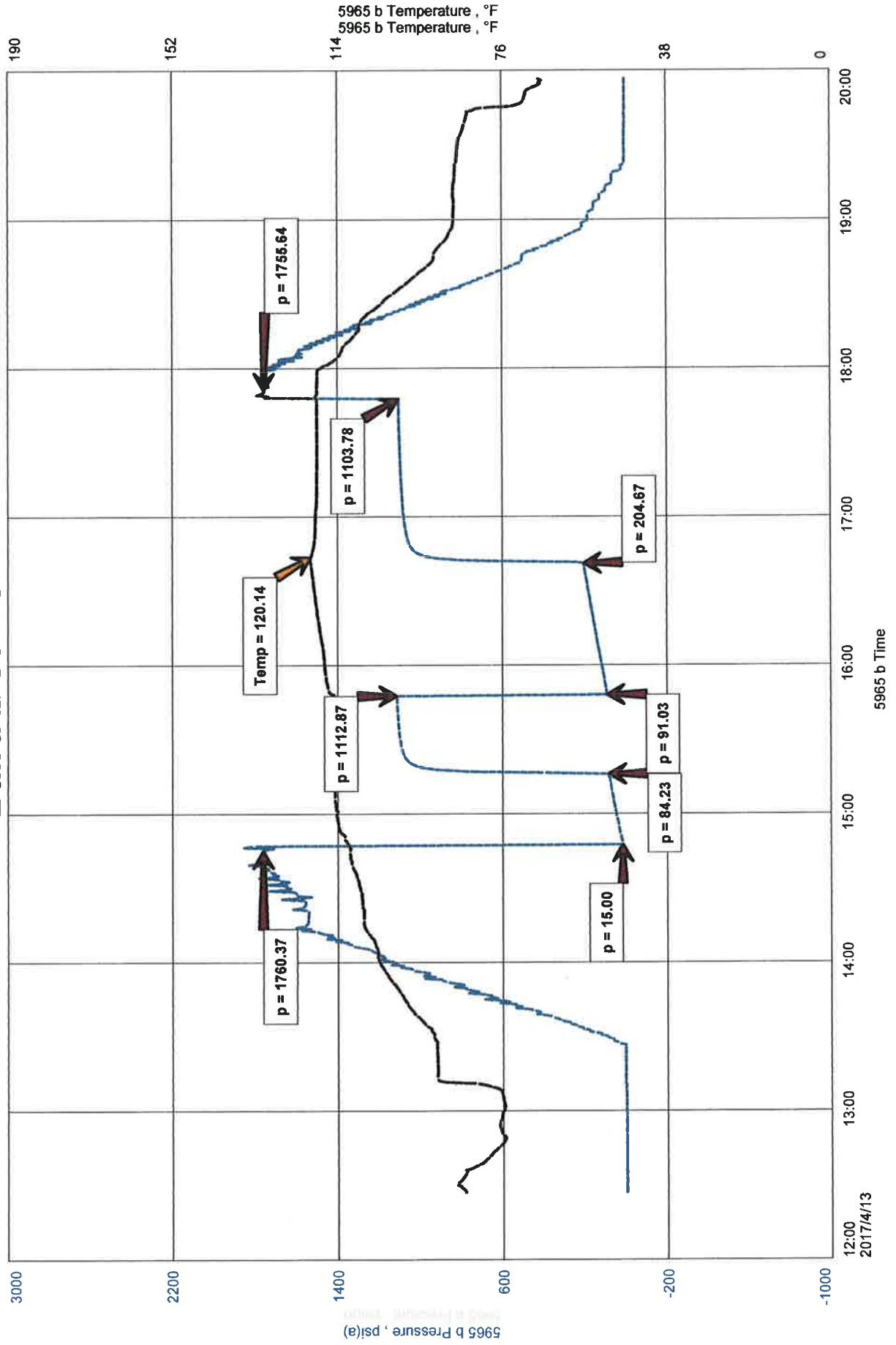
440' MCW 30%M 70%W Skim of oil
440' Total Fluid

Tool Sample=Plugged with cuttings

Baird 2-30
 Formation: Wabi
 Job Number: W281

Baird 2-30 DST 1

LD Drilling
 Start Test Date: 2017/04/13
 Final Test Date: 2017/04/13





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: Baird 2-30 DST 2

TIME ON: 16:00
TIME OFF: 23:45

Company LD Drilling Lease & Well No. Baird 2-30
Contractor LD Rig 1 Charge to LD
Elevation 3264 KB Formation _____ Wabi Effective Pay _____ Ft. Ticket No. W282
Date 4/15/2017 Sec. 30 Twp. _____ 6 S Range _____ 35 W County _____ Thomas State KANSAS
Test Approved By Kim Shoemaker Diamond Representative WIL STEINBECK

Formation Test No. 2 Interval Tested from 4374 ft. to 4441 ft. Total Depth 4441 ft.
Packer Depth 4369 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 4374 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 4360 ft. Recorder Number 5965 Cap. 5000 P.S.I.
Bottom Recorder Depth (Outside) 4375 ft. Recorder Number 5587 Cap. 5000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Mud Type CHEMICAL Viscosity 59 Drill Collar Length 0 ft. I.D. 2 1/4 in.
Weight 9.1 Water Loss 8.0 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 4000 P.P.M. Drill Pipe Length 4341 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number J&J Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? Yes Reversed Out No Anchor Length 67 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: Built to 4" No Return
2nd Open: Built to 2 1/2" No Return

Recovered 100 ft. of Mud
Recovered 100 ft. of Total Fluid
Recovered _____ ft. of _____
Recovered _____ ft. of _____

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Recovered _____ ft. of _____	Insurance
Remarks: <u>Tool Sample= Mud</u>	Total

Time Set Packer(s) 18:35 A.M. P.M. Time Started Off Bottom 21:35 A.M. P.M. Maximum Temperature 125
Initial Hydrostatic Pressure..... (A) 2112 P.S.I.
Initial Flow Period..... Minutes 30 (B) 11 P.S.I. to (C) 31 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 1234 P.S.I.
Final Flow Period..... Minutes 45 (E) 33 P.S.I. to (F) 54 P.S.I.
Final Closed In Period..... Minutes 60 (G) 1161 P.S.I.
Final Hydrostatic Pressure..... (H) 2094 P.S.I.

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



Diamond Testing General Report

Wil Steinbeck
TESTER
CELL: 620-282-9067

General Information

Company Name	LD Drilling	Job Number	W282
Contact	Kim Shoemaker	Representative	Wilbur Steinbeck
Well Name	Baird 2-30	Well Operator	LD
Unique Well ID		Report Date	2017/04/15
Surface Location	S30/6S/35WThomas/Kan	Prepared By	Wilbur Steinbeck
Field	Wildcat	Qualified By	Kim Shoemaker

Test Information

Test Type	DST Conventional
Formation	Marm/Alta 'B'
Well Fluid Type	
Test Purpose	

Start Test Date	2017/04/15	Start Test Time	16:00:00
Final Test Date	2017/04/15	Final Test Time	23:43:00

Test Recovery

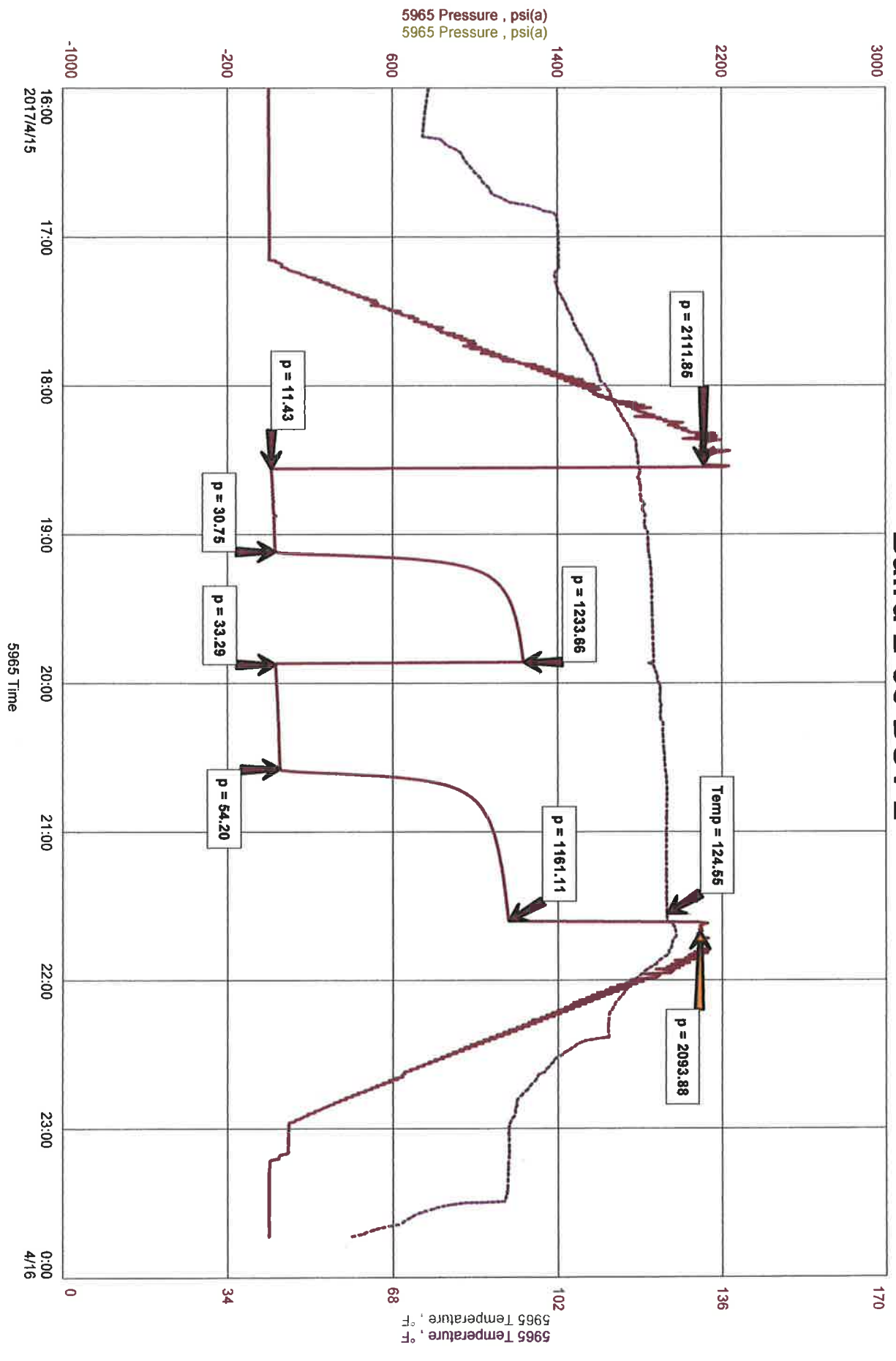
RECOVERY:
100' Mud
100' Total Fluid

Tool Sample=Mud

LD Drilling
 Start Test Date: 2017/04/15
 Final Test Date: 2017/04/15

Baird 2-30 DST 2

Baird 2-30
 Formation: Marm/Alta 'B'
 Job Number: W282





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: Baird 2-30 DST 3

TIME ON: 7:08
TIME OFF: 14:25

Company LD Drilling Lease & Well No. Baird 2-30
Contractor LD Rig 1 Charge to LD
Elevation 3264 KB Formation _____ Wabi Effective Pay _____ Ft. Ticket No. W283
Date 4/16/2017 Sec. 30 Twp. _____ 6 S Range _____ 35 W County _____ Thomas State KANSAS
Test Approved By Kim Shoemaker Diamond Representative WIL STEINBECK

Formation Test No. 3 Interval Tested from 4372 ft. to 4465 ft. Total Depth 4465 ft.
Packer Depth 4367 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 4372 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) _____ 4358 ft. Recorder Number _____ 5965 Cap. _____ 5000 P.S.I.
Bottom Recorder Depth (Outside) _____ 4373 ft. Recorder Number _____ 5587 Cap. _____ 5000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 61 Drill Collar Length _____ 0 ft. I.D. _____ 2 1/4 in.
Weight 9.2 Water Loss 9.6 cc. Weight Pipe Length _____ 0 ft. I.D. _____ 2 7/8 in.
Chlorides _____ 5200 P.P.M. Drill Pipe Length _____ 4339 ft. I.D. _____ 3 1/2 in.
Jars: Make STERLING Serial Number J&J Test Tool Length _____ 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? Yes Reversed Out No Anchor Length _____ 93 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: Built to 5 1/2" No Return
2nd Open: Built to 3 1/2" No Return

Recovered _____ 110 ft. of Mud with oil spots
Recovered _____ 110 ft. of Total Fluid
Recovered _____ ft. of _____
Recovered _____ ft. of _____

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Recovered _____ ft. of _____	Insurance
Remarks: <u>Tool Sample= Mud with oil spots</u>	Total

Time Set Packer(s) 9:30 A.M. P.M. Time Started Off Bottom 12:30 A.M. P.M. Maximum Temperature 122
Initial Hydrostatic Pressure..... (A) _____ 2107 P.S.I.
Initial Flow Period..... Minutes 30 (B) _____ 13 P.S.I. to (C) _____ 34 P.S.I.
Initial Closed In Period..... Minutes 45 (D) _____ 1178 P.S.I.
Final Flow Period..... Minutes 45 (E) _____ 40 P.S.I. to (F) _____ 59 P.S.I.
Final Closed In Period..... Minutes 60 (G) _____ 1101 P.S.I.
Final Hydrostatic Pressure..... (H) _____ 2086 P.S.I.

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



Diamond Testing General Report

Wil Steinbeck
TESTER
CELL: 620-282-9067

General Information

Company Name	LD Drilling	Job Number	W283
Contact	Kim Shoemaker	Representative	Wilbur Steinbeck
Well Name	Baird 2-30	Well Operator	LD
Unique Well ID		Report Date	2017/04/16
Surface Location	S30/6S/35WThomas/Kan	Prepared By	Wilbur Steinbeck
Field	Wildcat	Qualified By	Kim Shoemaker

Test Information

Test Type	DST Conventional
Formation	Marm/Alta 'C'
Well Fluid Type	
Test Purpose	

Start Test Date	2017/04/16	Start Test Time	07:08:00
Final Test Date	2017/04/16	Final Test Time	14:25:00

Test Recovery

RECOVERY:

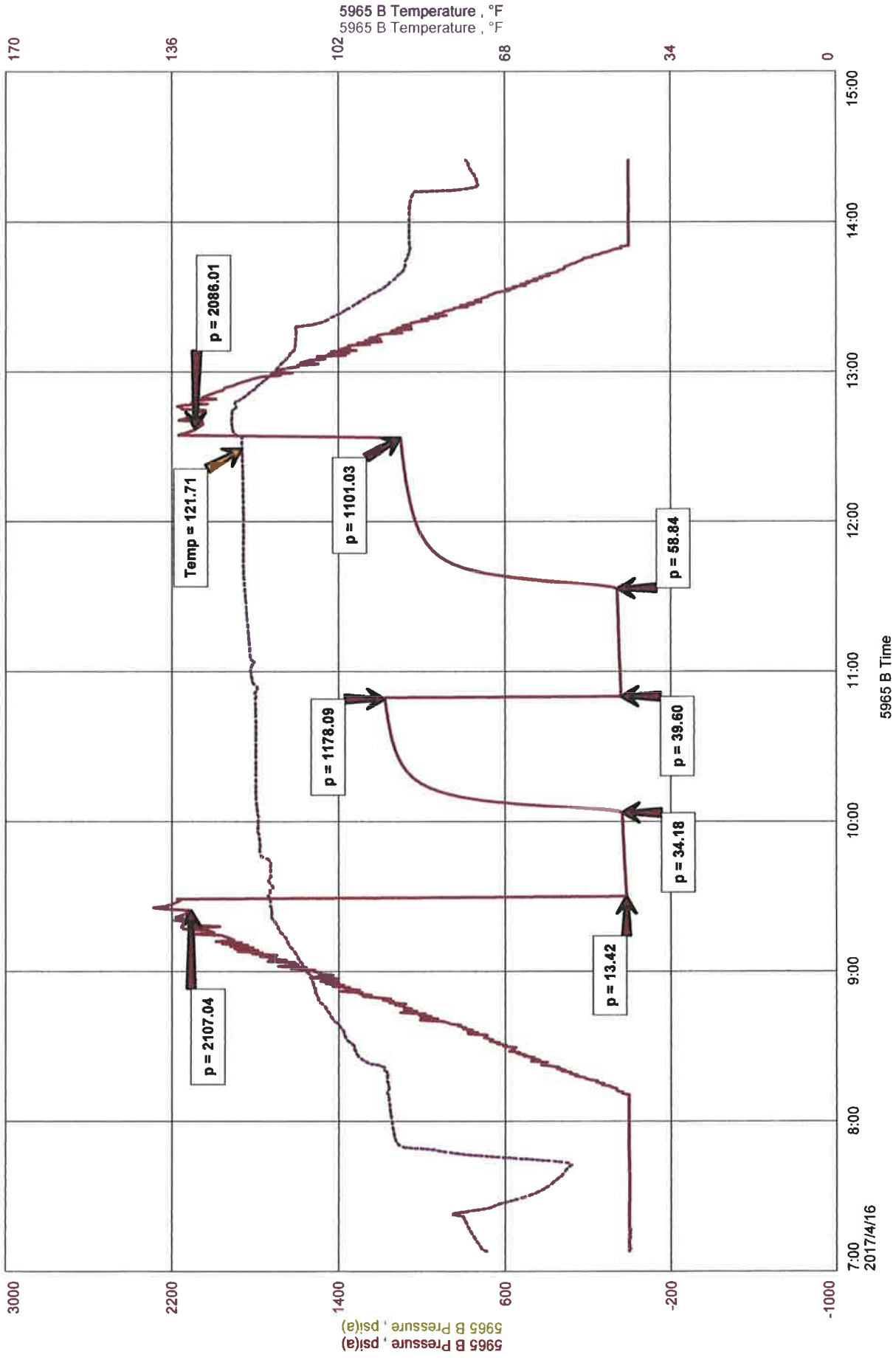
110' Mud with oil spots
110' Total Fluid

Tool Sample=Mud with oil spots

LD Drilling
 Start Test Date: 2017/04/16
 Final Test Date: 2017/04/16

Baird 2-30 DST 3

Baird 2-30
 Formation: Marm/Alta 'C'
 Job Number: W283





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: Baird 2-30 DST 4

TIME ON: 2:54
TIME OFF: 11:16

Company LD Drilling Lease & Well No. Baird 2-30
Contractor LD Rig 1 Charge to LD
Elevation 3264 KB Formation Pawnee Effective Pay Ft. Ticket No. W284
Date 4/17/2017 Sec. 30 Twp. 6 S Range 35 W County Thomas State KANSAS
Test Approved By Kim Shoemaker Diamond Representative WIL STEINBECK

Formation Test No. 4 Interval Tested from 4474 ft. to 4534 ft. Total Depth 4534 ft.
Packer Depth 4469 ft. Size 6 3/4 in. Packer depth ft. Size 6 3/4 in.
Packer Depth 4474 ft. Size 6 3/4 in. Packer depth ft. Size 6 3/4 in.
Depth of Selective Zone Set

Top Recorder Depth (Inside) 4460 ft. Recorder Number 5965 Cap. 5000 P.S.I.
Bottom Recorder Depth (Outside) 4475 ft. Recorder Number 5587 Cap. 5000 P.S.I.
Below Straddle Recorder Depth ft. Recorder Number Cap. P.S.I.

Mud Type CHEMICAL Viscosity 61 Drill Collar Length 0 ft. I.D. 2 1/4 in.
Weight 9.2 Water Loss 9.6 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 5200 P.P.M. Drill Pipe Length 4435 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number J&J Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? Yes Reversed Out No Anchor Length 60 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: BOB in 8 min No Return
2nd Open: BOB in 14 min No Return

Recovered 550 ft. of MCW with oil spots 30%M 70%W
Recovered 550 ft. of Total Fluid Ruined Regular Packer
Recovered ft. of
Recovered ft. of
Recovered ft. of Price Job
Recovered ft. of 180 Miles RT Other Charges
Remarks: Tool Sample= Plugged with cuttings Insurance
Chlorides=36,000ppm Total

Time Set Packer(s) 5:50 A.M. P.M. Time Started Off Bottom 8:50 A.M. P.M. Maximum Temperature 137
Initial Hydrostatic Pressure..... (A) 2143 P.S.I.
Initial Flow Period..... Minutes 30 (B) 14 P.S.I. to (C) 121 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 1284 P.S.I.
Final Flow Period..... Minutes 45 (E) 124 P.S.I. to (F) 247 P.S.I.
Final Closed In Period..... Minutes 60 (G) 1260 P.S.I.
Final Hydrostatic Pressure..... (H) 2132 P.S.I.

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made



Diamond Testing General Report

Wil Steinbeck
TESTER
CELL: 620-282-9067

General Information

Company Name	Kim Shoemaker	Job Number	W284
Well Name	Baird 2-30	Well Operator	LD
Unique Well ID		Report Date	2017/04/17
Surface Location	S30/6S/35WThomas/Kan	Prepared By	Wilbur Steinbeck
Field	Wildcat	Qualified By	Kim Shoemaker

Test Information

Test Type	DST Conventional
Formation	Pawnee
Well Fluid Type	
Test Purpose	

Start Test Date	2017/04/17	Start Test Time	02:54:00
Final Test Date	2017/04/17	Final Test Time	11:16:00

Test Recovery

RECOVERY:
550' MCW with oil spots 300%M 70%W
110' Total Fluid

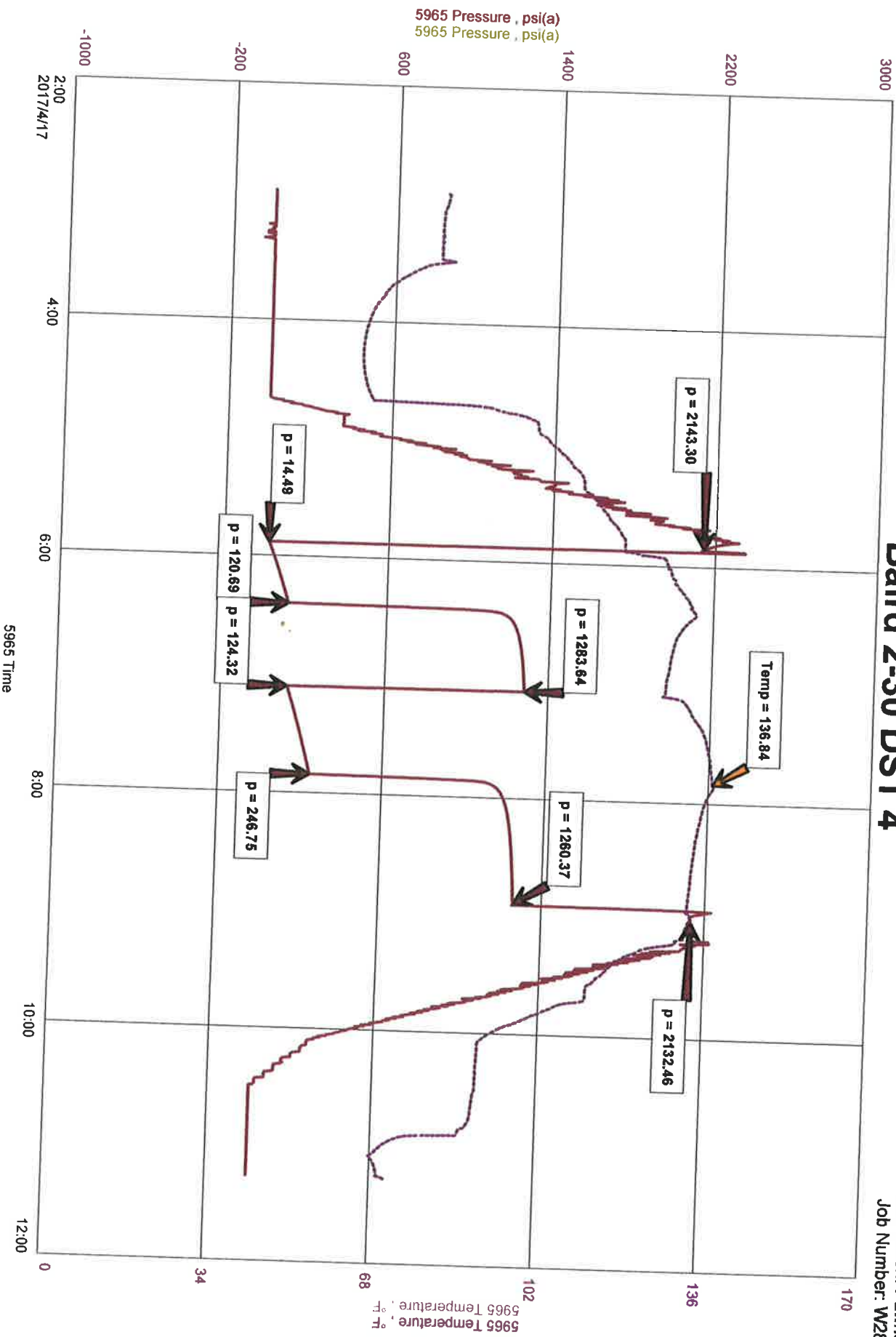
Tool Sample=Plugged with cuttings

Chlorides=36

LD Drilling
Start Test Date: 2017/04/17
Final Test Date: 2017/04/17

Baird 2-30 DST 4

Baird 2-30
Formation: Pawnee
Job Number: W284



KIM B. SHOEMAKER

CONSULTING GEOLOGIST

316-884-8709 * WICHITA, KS

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY L. D. DRILLING, INC.

LEASE # 2-30 BAIRD

FIELD LD

LOCATION 1650' FSL & 1650' FEL SE NW SE

SEC 30 TWP 6s RGE 35 W

COUNTY THOMAS STATE KANSAS

CONTRACTOR L. D. DRILLING, INC.

SPUD 4-8-17 COMP 4-19-17

RTD 4850 LTD 4852

MUD UP 3536 TYPE MUD CHEMICAL

ELEVATIONS

KB 3264

DF _____

GL 3259

Measurements Are All From 3264 KB

CASING
SURFACE 8 5/8" @ 344'
PRODUCTION 5 1/2" @

ELECTRICAL SURVEYS
DUAL IND., DENS-N., MICRO

SAMPLES SAVED FROM 3700 TO 4850

DRILLING TIME KEPT FROM 3500 TO 4850

SAMPLES EXAMINED FROM 3700 TO 4850

GEOLOGICAL SUPERVISION FROM 3700 TO 4850

GEOLOGIST ON WELL KIM B. SHOEMAKER









FORMATION TOPS	LOG	SAMPLES
ANHYDRITE	2870+394	2868+396
B/ANN.	2904+360	2903+361
STOTLER	3770-506	3765-501
HEEGNER	4079-815	4076-812
LANSING	4132-868	4122-858
B/KC	4382-1118	4371-1113
PAWNEE	4504-1240	4500-1236
FORT SCOTT	4570-1306	4568-1304
CHEROKEE	4598-1334	4600-1336
MISSISSIPPI	4750-1486	4742-1478

30

API: 15-193-20988

REMARKS
4-8-17 SPUD
4-9 @ 347'
4-10 @ 1650'
4-11 @ 2620'
4-12 @ 3317'
4-13 @ 3847'
4-14 @ 4025'
4-15 @ 4411'
4-16 @ 4465'
4-17 @ 4534'
4-18 @ ~~4850~~ 4850'
4-19 @ 4850'

LEGEND

-  Dolomite
-  Chert
-  Oil Lime
-  Limestone
-  Core sh
-  Shale
-  Sandstone
-  Salt
-  Anhydrite



REMARKS

LITHOLOGY

ANHYDRITE 2868+396

B/ANN. 2903+361

2950

3500

3600

3700



OST
(1)

V 206

Samples are Lagged

Sh. Rd

65. wt. Si. Foss w/ black silic.

Sh. Rd. Marine

15. To 214. USI. Foss.

Sh. 214. Silty

Sh. 214. Silty

STOTLER 3765-501

15. 214. Silty

Dist. Big. V. 6th Sec. P. 15. 214. Silty. SW
64560 No. Floor. F. 6000

Sh. 110

Dbl. Dwg. Vitrin. Sec. 11. Vis. P. 21. Sat. SW
60560 No. Floor. Floor

DST (1) 3771-3847

1st OPEN: Blow built to 2 1/2"

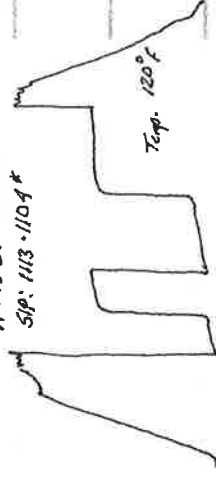
2nd OPEN: " " " 2

30.45-45-60

Rec. 440' H₂O w/ scum oil
(30.14 75% w)

FP: 15.89 91.205"

SIP: 1113.1104"



Sh. Ltg.

ls. Ltg. VSi Calc.

Sh. Ltg.

ls. Tr. w/ Si. Foss. P. Vitr. DE. Sp. Sh. No. Floor. No. Open

ls. w/ Si. Foss. Si. Chly.

ls. w/ Foss. DE. R. Bl. dd. Str.

ls. Tr. Ltg. Si. Foss. R. Sp. No. Floor. No. Open

ls. w/ Si. Foss. Chly.

Sh. Ltg.

ls. w/ Foss. Calcite

Sh. Rd.

ls. w/ Si. Foss. Si. Chly.

ls. w/ Si. Foss. Foss. R. Sp. No. Floor. No. Open

Sh. Ltg. Soly.

Sh. Calc. Foss. Sub. Rd.

Sh. Rd.

ls. Tr. w/ Si. Foss. Calcite

ls. Tr. w/ Foss. Si. Rd.

Dbl. Tr. w/ Vitrin. Sec. VSi. Foss.

Sh. Dkg. G.

ls. Ltg. VSi. A

Sh. Rd.

Dbl. Tr. w/ Vitrin. Sec.

Sh. Rd.

ls. Tr. w/ Foss. Si. Rd. Si. Calcite

Sh. Ltg. Calc.

ls. Tr. Ltg. Si. Rd.

ls. Tr. w/ Foss. Calcite

ls. Tr. Ltg. Si. Rd.

HEEGER 4076-812

Sh. Calc. Calc.

ls. Tr. w/ Si. Foss.

Sh. Ltg. Blue. Soly.

Sh. Calc. Blue. Vitrin. Sec. Rd.

Sh. Rd.

ls. w/ Si. Foss.

Sh. Rd.

VIS: 50
WT: 8.9
NL: 6.8
CIL: 2000

VIS: 59
WT: 9.0
NL: 7.2
CIL: 3000

3800

3900

4000

4100

TORONTO

TORONTO

LANSING 4122-859

LS. wt. Sil. Foss.
Sh. Rd.
LS. wt. Sil. Foss. Calcitic
LS. wt. Sil. Foss. VSI. Chly. F. y. p
To blk. del. Str.
Sil. Ch. G. G. Fa. G. Sub Rd.
Sh. Rd.
LS. wt. Foss. Sil. A
Sh. Rd.
LS. wt. Sil. Foss. Foss. Calcitic
A. D. Org.
LS. To wt. Sil. Foss.
Sh. Rd.
LS. wt. Foss. Calcitic
LS. wt. Ltg. Sil. Foss. VSI. Chly.

MUNCIE CREEK 4244-980

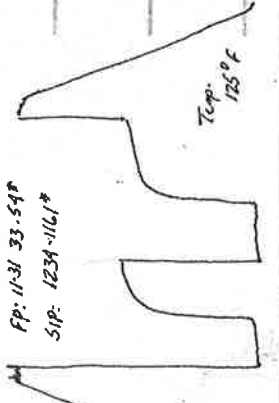
Sh. Blk. G. G. LS. Sil. VSI. Foss.
Sh. Ltg. G.
LS. To G. Sil. Foss. Sil. A
Sh. D. G.
LS. To G. VSI. Foss. No. V. G. p
Spid. Bl. Sil. del. Str. No Flow. Noodor
Sh. Rd.
LS. Ltg. VSI. Foss. VSI. Chly.
LS. wt. Ltg. Foss. Sil. Chly. VSI. A
Sh. G. G.

STARK 4321-1057

LS. To G. Sil. Foss. Sil. Chly.
Sh. G. G.

DST (2) 4374-4441

1st Open: Blow with 7 1/2"
2nd Open: " " 2 1/2"
30-45-45-60
Rec. 100' Mud



FP: 11-31 33-54P
SIP: 1231-1161*

B/KC 4377-1113

MARMATON 4386-1122

LS. Ltg. Sil. Foss. Foss. P. y. p
DE. Bl. Sub. Sil. 5570 No Flow. Noodor.
To Sil. Chly. Blk. V. G. G. Sub. Rd. Blk. Sil.

VSI: 59 WT: 9-1
W/L: 8-0 CHL: 4000

ALTMONT 4412-1148

V LOG

18' 4434-1170

LS. wt. sil. org. A. Foss.

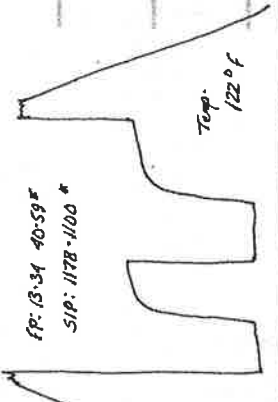
Sh. Ltg. Sil. G.

LS. G. Foss. F. y. p DE. Bl. Sub. Rd. Sil. Foss. P. y. p
Rec. Material. Colonial. Calc. Chly.

Sh. Ltg. Sil. G. Sub. Rd. Sil. G.

DST (3) 4372-4465

1st Open: Blow with 7 1/2"
2nd Open: " " 3 1/2"
30-45-45-60
Rec. 110' Mud w/ oil spots (V. G. G. G.)



FP: 13-31 40-59P
SIP: 1178-1100*

DST (4) 4474-4534

DST (4) 4474-4534

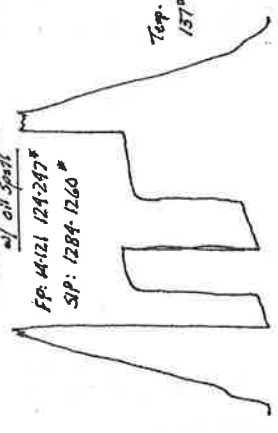
1 STAPEN: Bottom Bucket 8 min. 88° None
2nd ADEN: " " 14 " 88: "

30. 95-95-60

Ric. 550' MOM (300/M, 201/m)
w/ oil Spurt

FR 44121 129297*

SP: 1284-1260"



Sh. Lt. Bl. G. G. Soft Gummy.

VC 4452-1188

LS. To wt. w/ oil. Foss. Calc. Fr. Sp. 1000.
Lt. Bl. Sat. Sh. 5800 Fr. 1000.
LS. wt. w/ oil. Foss. w/ Blue. To Fr

LS. Lt. G. Dun.

Sh. G. Lt. G. Silty

Sh. G. Neg.

PANNEE 4500-1236

V106

LS. wt. F. w/ Foss. VSI: Chky. Fr. Sp. 1000. Lt. Bl. Sat. Sp. 5800
FSSO 1950 Fr. 1000 Fr. 1000

LS. Bl. G. VSI: Foss. Si. Calcitic

LS. Bl. Sp. Foss.
A wt.
Sh. Bl. Carb.

A G. wt. Foss.

LS. Lt. G. VSI: A

Sh. Bl. G.

LS. wt. Sh. Foss. VSI: Chky.

Sh. Bl. Carb.

FORT SCOTT 4568-1304

LS. To. Sil. w/ Lt. w/ VSI: A

LS. To. VSI: Foss. Sil. A

CHEROKEE 4600-1336
Sh. Bl. Carb.

LS. Lt. G. VSI: Foss. VSI: Chky.

Sh. Lt. Bl.

LS. wt. VSI: Foss. VSI: Calcitic

Sh. Bl. G.

LS. G. VSI: A Fr. Chky.

Sh. Lt. G. Silty Sp.

Sp. Sh. Lt. Bl. Carb. VSI: Sil. R.

Sh. Lt. Bl. Carb. Sp.

Sd. Ch. Gassy Co. V. G. Fr. Ang. Sil. Ang.

Sh. Ch. G. Fr. H. G. Sub Bl.

Sh. Bl. Lt. Blue-G.

Sh. Bl. Blue-G.

LS. Yellow.

Sh. Yellow Blue-G.

Sh. Yellow Lt. Blue-G.

Sh. Ch. Blue. H. G. Fr. Lt. Sil. Bl.

Sh. Yellow Bl.

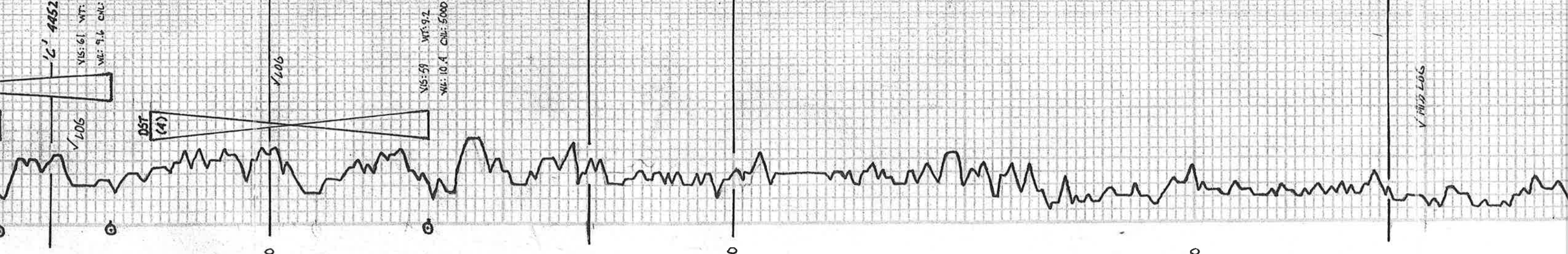
MISSISSIPPI 4742-1478

Dst. 4711. 1478. 1478

Sh. Blue-Yell.

Dst. To. Bl. V. G. Fr. Sil. Foss.

Sh. Yell.



V 4742 LOG

S4. Yellow

Dol. Fr. Br. V. Dark. Sur.

S4. G. J.

Dol. G. Br. V. Dark. w/ Gr. Br. G. Str. Br.

Δ wt. G. Foss. Fresh Cut

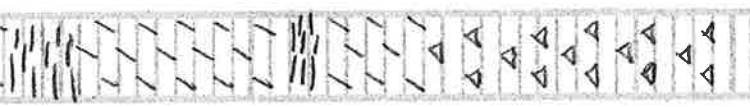
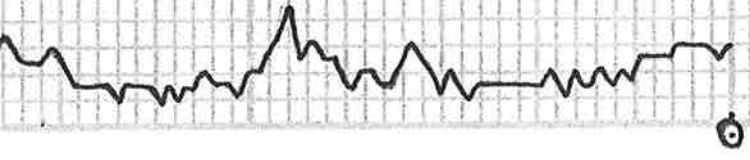
Δ wt. G. Foss. Dol. Fr. Br. Fresh Sur.
Fresh Cut

Vis: 57 wt: 95

wt: 88 Cal: 4000

RTD 4850-1586

4800



Summary of Changes

Lease Name and Number: BAIRD 2-30

API/Permit #: 15-193-20988-00-00

Doc ID: 1357635

Correction Number: 1

Approved By: Karen Ritter

Field Name	Previous Value	New Value
Save Link	../../../../kcc/detail/operatorE ditDetail.cfm?docID=13 57571	../../../../kcc/detail/operatorE ditDetail.cfm?docID=13 57635
Well Type	DH	OIL

Summary of Attachments

Lease Name and Number: BAIRD 2-30

API: 15-193-20988-00-00

Doc ID: 1357635

Correction Number: 1

Attachment Name