



KANSAS CORPORATION COMMISSION 1092164
OIL & GAS CONSERVATION DIVISION

Form AGO-1
June 2009
Form Must Be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 6039
Name: L. D. Drilling, Inc.
Address 1: 7 SW 26TH AVE
Address 2: _____
City: GREAT BEND State: KS Zip: 67530 + 6525
Contact Person: L. D. DAVIS
Phone: (620) 793-3051
CONTRACTOR: License # 33323
Name: Petromark Drilling, LLC
Wellsite Geologist: KIM SHOEMAKER
Purchaser: MV PURCHASING

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
 Conv. to GSW
 Plug Back: _____ Plug Back Total Depth
 Commingled Permit #: _____
 Dual Completion Permit #: _____
 SWD Permit #: _____
 ENHR Permit #: _____
 GSW Permit #: _____
07/18/2012 07/26/2012 08/08/2012
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 15-047-21612-00-00
Spot Description: _____
N2 SW NW SW Sec. 18 Twp. 25 S. R. 18 East West
1880 Feet from North / South Line of Section
330 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Edwards
Lease Name: JUDITH Well #: 1-18
Field Name: NA
Producing Formation: CHEROKEE SAND
Elevation: Ground: 2196 Kelly Bushing: 2197
Total Depth: 4736 Plug Back Total Depth: 4701
Amount of Surface Pipe Set and Cemented at: 407 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: 8000 ppm Fluid volume: 160 bbls
Dewatering method used: Hauled to Disposal
Location of fluid disposal if hauled offsite:
Operator Name: L. D. DRILLING, INC.
Lease Name: MERMIS License #: 6039
Quarter SE Sec. 24 Twp. 20 S. R. 15 East West
County: BARTON Permit #: 021526

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

Letter of Confidentiality Received
Date: _____

Confidential Release Date: _____

Wireline Log Received

Geologist Report Received

UIC Distribution

ALT I II III Approved by: Deanna Gerber Date: 08/30/2012



1092164

Operator Name: L. D. Drilling, Inc. Lease Name: JUDITH Well #: 1-18
 Sec. 18 Twp 25 S. R. 18 East West County: Edwards

INSTRUCTIONS: Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: Attached	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum Attached Attached Attached
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CASING RECORD <input checked="" 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
SURFACE	12.25	8.625	24	407	A-CON	175	
SURFACE	12.25	8.625	24	407	COMMON	175	CellFlake, CC
PRODUCTION	7.875	4.5	10.5	4733	COMMON	260	Salt, Friction Reducer

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
____ Perforate				
____ Protect Casing				
____ Plug Back TD				
____ Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4	4609 - 4613	250 gal 7.5% HCL ACID	
		6420 gal PROGEL LG 200	

TUBING RECORD: Size: <u>2.375</u> Set At: <u>4699</u> Packer At: _____ Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Date of First, Resumed Production, SWD or ENHR. <u>08/08/2012</u>	Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____
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Estimated Production Per 24 Hours	Oil Bbbs.	Gas Mcf	Water Bbbs.	Gas-Oil Ratio	Gravity
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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 checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	JUDITH 1-18
Doc ID	1092164

All Electric Logs Run

BOREHOLE COMPENSATED SONIC LOG
MICRORESISTIVITY LOG
DUAL INDUCTION LOG
DUAL COMPENSATED POROSITY LOG

Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	JUDITH 1-18
Doc ID	1092164

Tops

ANHYDRITE	1318	+879
WABAUNSEE	3231	-1034
STOTLER	3371	-1174
TOPEKA	3594	-1397
HEEBNER	3955	-1758
BROWN LIME	4077	-1880
LANSING	4088	-1891
BASE KANSAS CITY	4432	-2235
CHEROKEE	4573	-2376
MISSISSIPPI	4652	-2455



BASIC
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

FIELD SERVICE TICKET
1718 06523 A

DATE _____ TICKET NO. _____

DATE OF JOB 07-26-12 DISTRICT Perth		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.G. Drilling		LEASE JOOITH 1-18		WELL NO.:		
ADDRESS		COUNTY Edwards		STATE KS		
CITY STATE		SERVICE CREW Sullivan, Melsen, Pearson				
AUTHORIZED BY		JOB TYPE: CDW #4 Lease				
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED 7-26-12 DATE 9:10 TIME
83708-20920	30	19960-21010	30			ARRIVED AT JOB AM 1:30
37900						START OPERATION AM 5:16
						FINISH OPERATION AM 5:40
						RELEASED AM 6:15
						MILES FROM STATION TO WELL 55

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: *Jim Mullen*
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 100C	Common CAT	SK	200		3,200.00
CP 100C	Common CMT	SK	60		960.00
CC 105	C-41-Debris	LB	62		248.00
CC 111	SALT	LB	2112		1,056.00
CC 112	CMT Flicker Pad	LB	184		1,104.00
CC 113	Gypsum	LB	1225		918.75
CC 201	Gypsum	LB	1800		817.00
CF 102	Tap Rubber plug 4 1/2	SA	1		80.00
CF 251	Auto. Stop	SA	1		250.00
CF 1950	Flapper - 2 1/2" x 1 1/2"	SA	1		200.00
CF 1650	Insulation	SA	6		510.00
E 100	Water oil	mi	55		233.75
E 101	4 way split oil	mi	110		770.00
E 113	Brake Delay	mi	6.74		1,078.00
CF 205	Depth delay	SA	1		2,520.00
CF 240	Bleeding Control	SK	260		364.00
CF 504	Plus Control Plant	SA	1		250.00
S 003	Sealant - Superseal	SA	1		175.00

SUB TOTAL **11,091.33**

CHEMICAL / ACID DATA:			

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

SERVICE REPRESENTATIVE *Robert Johnson* THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: *Jim Mullen*
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO. _____

BASIC

energy services, L.P.

TREATMENT REPORT

Customer <i>L.O. Drilling</i>	Lease No.	Date <i>07-26-12</i>
Lease <i>JUDITH</i>	Well # <i>1-18</i>	
Field Order # <i>0523</i>	Station <i>PRATT KS</i>	Casing <i>4 1/2</i>
	Depth <i>4733'</i>	County <i>Edwards</i>
Type Job <i>CNW 4 1/2 longstr</i>	Formation	Legal Description <i>18-25-18</i>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size <i>4 1/2</i>	Tubing Size	Shots/Ft		Acid		RATE	PRESS	ISIP
Depth <i>4733</i>	Depth	From	To	Pre Pad		Max		5 Min.
Volume <i>15</i>	Volume	From	To	Pad		Min		10 Min.
Max Press <i>1500</i>	Max Press	From	To	Frac		Avg		15 Min.
Well Connection <i>PIC</i>	Annulus Vol.	From	To			HHP Used		Annulus Pressure
Plug Depth <i>4717</i>	Packer Depth	From	To	Flush		Gas Volume		Total Load

Customer Representative	Station Manager <i>DAVE SCOTT</i>	Treater <i>Robert Johnson</i>
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Service Units	<i>37900</i>	<i>58700</i>	<i>20920</i>	<i>19960</i>	<i>20010</i>				
Driver Names	<i>Sullivan</i>	<i>Melson</i>	<i>Pearson</i>						

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>2:30</i>					<i>on loc. Softy meddy (fracks)</i>
					<i>Run 116500 4 1/2 10.5 csg 4733'</i>
<i>4:15</i>					<i>Casing on battery</i>
<i>4:30</i>					<i>hook up to rig</i>
<i>5:00</i>	<i>300</i>		<i>8</i>	<i>11.5</i>	<i>mix 30 sk Seawater cont @ 12.8 ppb</i>
			<i>48</i>		<i>mix 200 sk cement @ 15.5 ppb</i>
					<i>cont mixed shut down. wash pump, filter</i>
					<i>Polson Plug</i>
				<i>6</i>	<i>st Disa</i>
	<i>350</i>		<i>4</i>		<i>lift Pj</i>
	<i>700</i>		<i>6.5</i>	<i>2</i>	<i>show kote</i>
<i>5:40</i>	<i>1350</i>		<i>7.5</i>		<i>plug base</i>
			<i>8</i>		<i>plug Rth w/ 20 sk</i>
					<i>SAB - complete</i>
					<i>Thank you</i>

Taylor Fracing, Inc. 620-672-3650

DIAMOND TESTING

General Information Report

General Information

Company Name L.D. DRILLING, INC.
Contact L.D. DAVIS
Well Name JUDITH #1-18
Unique Well ID DST #1, ADMIRE, 3149-3330
Surface Location SEC 18-25S-18W, EDWARDS CO. KS.
Field WILDCAT
Well Type Vertical
Test Type CONVENTIONAL
Formation DST #1, ADMIRE, 3149-3330
Well Fluid Type 02 Gas

Representative TIM VENTERS
Well Operator L.D. DRILLING, INC.
Report Date 2012/07/22
Prepared By TIM VENTERS

Qualified By KIM SHOEMAKER

Start Test Date 2012/07/21
Final Test Date 2012/07/21

Start Test Time 18:43:00
Final Test Time 23:59:00

Test Recovery:

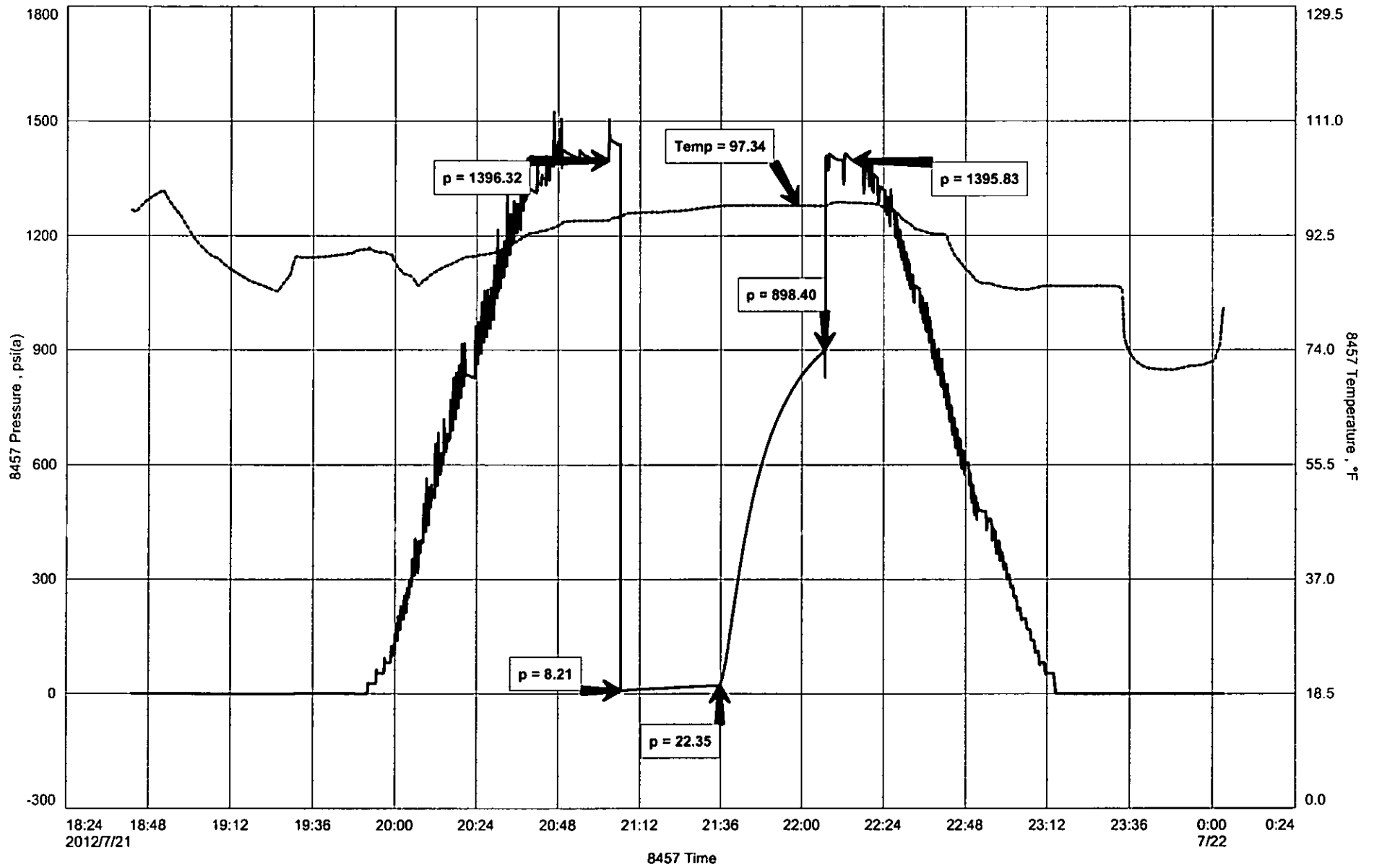
RECOVERED: 20' MUD

TOOL SAMPLE: TRACE OIL, 100% MUD

L.D. DRILLING, INC.
DST #1, ADMIRE, 3149-3330
Start Test Date: 2012/07/21
Final Test Date: 2012/07/21

JUDITH #1-18
Formation: DST #1, ADMIRE, 3149-3330
Pool: WILDCAT
Job Number: T078

JUDITH #1-18





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: JUDITH1-18DST1

TIME ON: 18:43
TIME OFF: 23:59

Company L.D. DRILLING, INC. Lease & Well No. JUDITH #1-18
Contractor PETROMARK DRILLING, LLC RIG #2 Charge to L.D. DRILLING, INC.
Elevation 2197 KB Formation ADMIRE Effective Pay _____ Ft. Ticket No. T078
Date 7-21-12 Sec. 18 Twp. _____ 25 S Range _____ 18 W County EDWARDS State KANSAS
Test Approved By KIM SHOEMAKER Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 1 Interval Tested from 3149 ft. to 3330 ft. Total Depth 3330 ft.
Packer Depth 3144 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 3149 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____
Top Recorder Depth (Inside) _____ 3135 ft. Recorder Number 8457 Cap. 10,000 P.S.I.
Bottom Recorder Depth (Outside) _____ 3327 ft. Recorder Number 11029 Cap. 5,025 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Mud Type CHEMICAL Viscosity 79 Drill Collar Length 121 ft. I.D. 2 1/4 in.
Weight 8.7 Water Loss 7.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 800 P.P.M. Drill Pipe Length 3,000 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number _____ Test Tool Length 28 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 23 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. 158° DP IN ANCHOR Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WEAK 1/4 INCH BLOW, BUILDING TO 1 1/4 INCH. (NOBB)
2nd Open: N/A

Recovered <u>20</u> ft. of MUD	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
TOOL SAMPLE: <u>TRACE OIL, 100% MUD</u>	Total

Time Set Packer(s) 9:01 PM A.M. P.M. Time Started Off Bottom 10:01 PM A.M. P.M. Maximum Temperature 97 deg.
Initial Hydrostatic Pressure..... (A) 1396 P.S.I.
Initial Flow Period..... Minutes 30 (B) 8 P.S.I. to (C) 22 P.S.I.
Initial Closed In Period..... Minutes 30 (D) 898 P.S.I.
Final Flow Period..... Minutes 0 (E) _____ P.S.I. to (F) _____ P.S.I.
Final Closed In Period..... Minutes 0 (G) _____ P.S.I.
Final Hydrostatic Pressure..... (H) 1396 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 Information Report

General Information

Company Name L.D. DRILLING, INC.
Contact L.D. DAVIS
Well Name JUDITH #1-18
Unique Well ID DST #2, CHEROKEE SD., 4595-4622
Surface Location SEC 18-25S-18W, EDWARDS CO. KS.
Field WILDCAT
Well Type Vertical
Test Type CONVENTIONAL
Formation DST #2, CHEROKEE SD., 4595-4622
Well Fluid Type 01 Oil

Representative TIM VENTERS
Well Operator L.D. DRILLING, INC.
Report Date 2012/07/25
Prepared By TIM VENTERS
Qualified By KIM SHOEMAKER

Start Test Date 2012/07/25
Final Test Date 2012/07/25

Start Test Time 06:12:00
Final Test Time 14:03:00

Test Recovery:

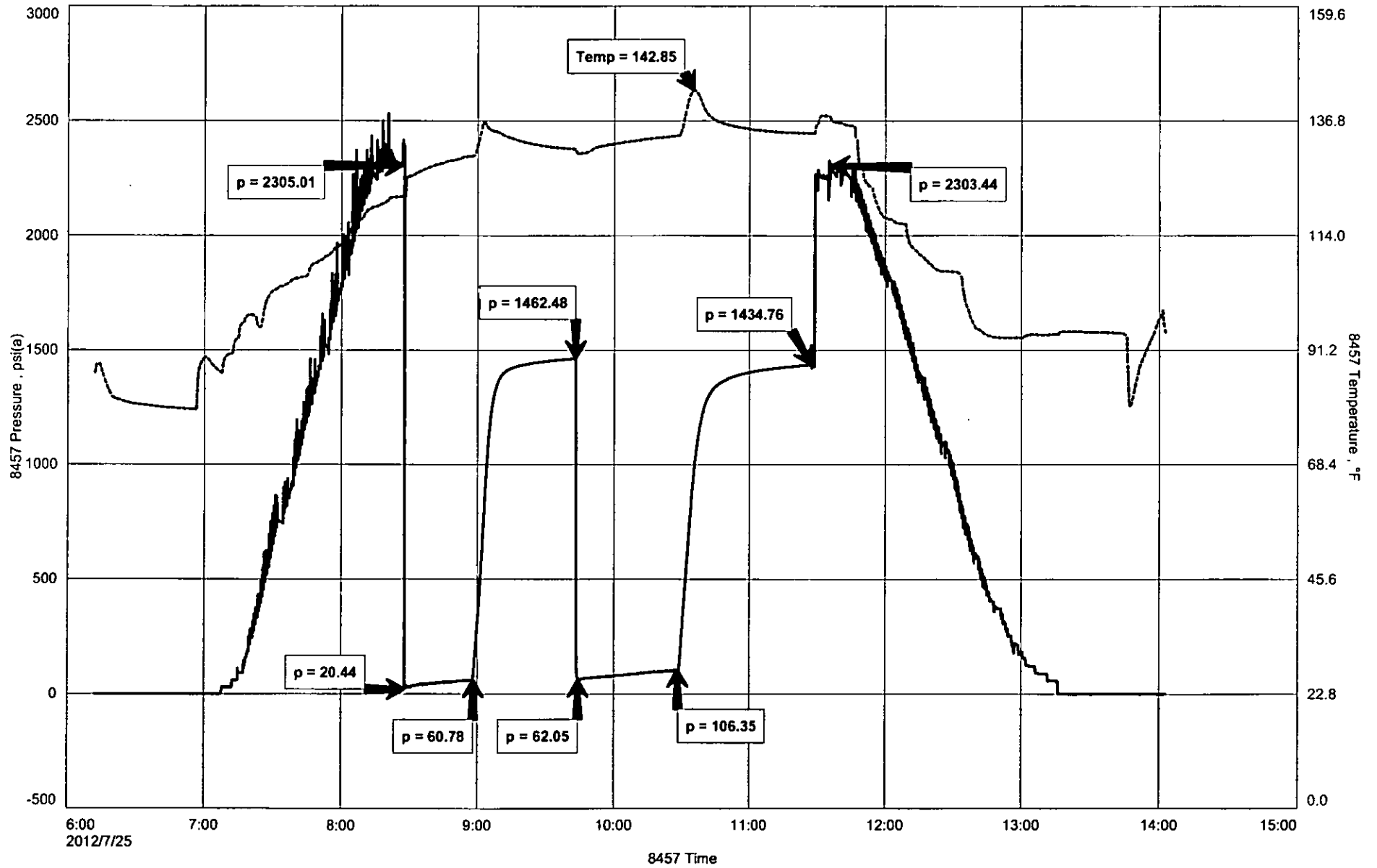
RECOVERED: 4275' GAS IN PIPE
45' GO, 3% GAS, 97% OIL, GRAVITY: 40
60' G,HOCM, 17% GAS, 38% OIL, 45% MUD
125' G,VSMCO, 2% GAS, 97% OIL, 1% MUD
60' G,MCO, 10% GAS, 63% OIL, 27% MUD
290' TOTAL FLUID

TOOL SAMPLE: GAS BLEW OUT

L.D. DRILLING, INC.
DST #2, CHEROKEE SD., 4595-4622
Start Test Date: 2012/07/25
Final Test Date: 2012/07/25

JUDITH #1-18
Formation: DST #2, CHEROKEE SD., 4595-4622
Pool: WILDCAT
Job Number: T079

JUDITH #1-18





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: JUDITH1-18DST2

TIME ON: 06:12
TIME OFF: 14:03

Company L.D. DRILLING, INC. Lease & Well No. JUDITH #1-18
Contractor PETROMARK DRILLING, LLC RIG #2 Charge to L.D. DRILLING, INC.
Elevation 2197 KB Formation CHEROKEE SD. Effective Pay _____ Ft. Ticket No. T079
Date 7-25-12 Sec. 18 Twp. 25 S Range 18 W County EDWARDS State KANSAS
Test Approved By KIM SHOEMAKER Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 2 Interval Tested from 4595 ft. to 4622 ft. Total Depth 4622 ft.
Packer Depth 4590 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 4595 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4576 ft. Recorder Number 8457 Cap. 10,000 P.S.I.
Bottom Recorder Depth (Outside) 4619 ft. Recorder Number 11029 Cap. 5,025 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 55 Drill Collar Length 121 ft. I.D. 2 1/4 in.
Weight 9.9 Water Loss 9.6 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 8,000 P.P.M. Drill Pipe Length 4441 ft. I.D. 3 1/2 in.

Jars: Make STERLING Serial Number 4 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 27 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: WEAK 1 INCH BLOW, BUILDING, REACHING BOB 1 1/2 MIN. (WSBB)
2nd Open: VERY STRONG BLOW, HITTING BOB INSTANTNEOUSLY. (WSBB)

Recovered 4275 ft. of GAS IN PIPE
Recovered 45 ft. of GO, 3% GAS, 97% OIL, GRAVITY: 40
Recovered 60 ft. of G,HOCM, 17% GAS, 38% OIL, 45% MUD
Recovered 125 ft. of G,VSMCO, 2% GAS, 97% OIL, 1% MUD
Recovered 60 ft. of G,MCO, 10% GAS, 63% OIL, 27% MUD
Recovered 290 ft. of TOTAL FLUID

Remarks: _____	Price Job
_____	Other Charges
_____	Insurance
TOOL SAMPLE: GAS BLEW OUT	Total

Time Set Packer(s) 8:27 AM A.M. P.M. Time Started Off Bottom 11:27 AM A.M. P.M. Maximum Temperature 143 deg.

Initial Hydrostatic Pressure..... (A) 2305 P.S.I.
Initial Flow Period..... Minutes 30 (B) 20 P.S.I. to (C) 61 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 1462 P.S.I.
Final Flow Period..... Minutes 45 (E) 62 P.S.I. to (F) 106 P.S.I.
Final Closed In Period..... Minutes 60 (G) 1435 P.S.I.
Final Hydrostatic Pressure..... (H) 2303 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

KIM B. SHOEMAKER

STANDARD OIL COMPANY
 1000 24th Street, Des Moines, IA 50319

DRILLING TIME AND SAMPLE LOG

WELL NO. 18 WILDCAT
 LOCATION 1875 65th St, 345th Ave
 COUNTY EDWARDS STATE KANSAS
 OPERATOR PETROMARK DRILLING, RIG 2
 DATE 7-18-12 TO 7-22-12
 WELL DEPTH 4736 FEET
 SAMPLES 3323 TYPE WTC CHEMICAL None
 SAMPLES SAVED FROM 2800 TO 4736
 DRILLING TIME REPORT FROM 2350 TO 4736
 SAMPLES EXAMINED FROM 2800 TO 4736
 GEOLOGICAL SUPERVISION FROM 2800 TO 4736
 GEOLOGIST ON WELL KIM B. SHOEMAKER

FORMATION TOPS

FORMATION	LOG	SAMPLES
AMNDRITE	1315 - 071	1315 - 082
WADARSES	3331 - 1034	3331 - 1034
STOTLAR	3371 - 1174	3371 - 1174
TRAPKA	3594 - 1312	3594 - 1312
HEBENEZ	3955 - 1758	3955 - 1759
DOWNLINE	4027 - 1880	4027 - 1880
LANSHING	4088 - 1891	4087 - 1890
B/K	4432 - 2235	4431 - 2234
CHICKSEE	4513 - 2336	4513 - 2336
MISSOURI	4632 - 2655	4632 - 2655

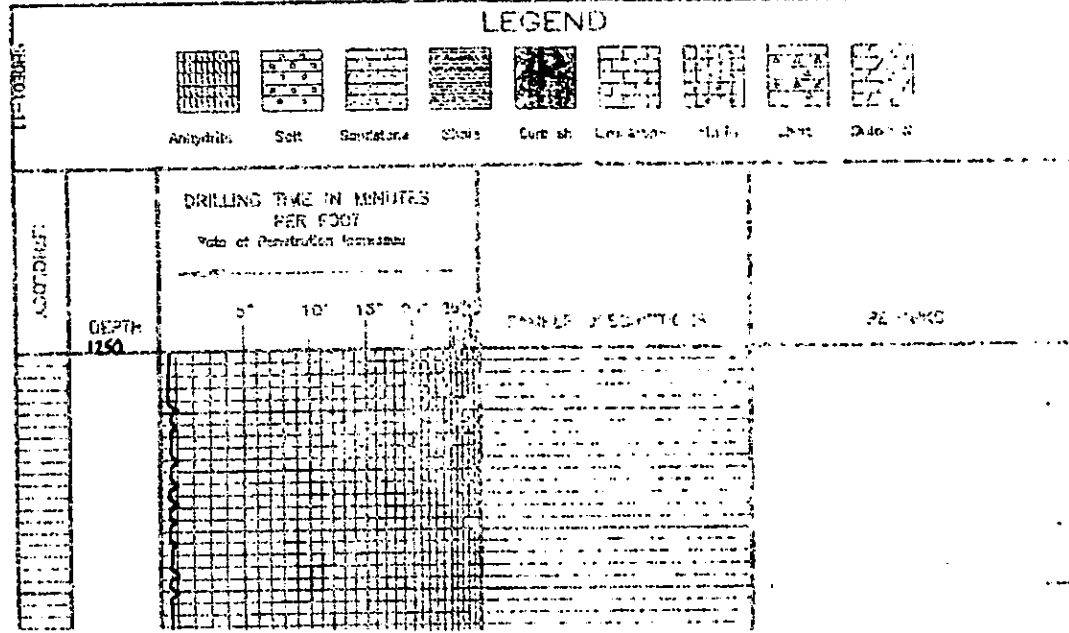
SEAWARD
 2197
 2192
 Department Ave
 2197 KD

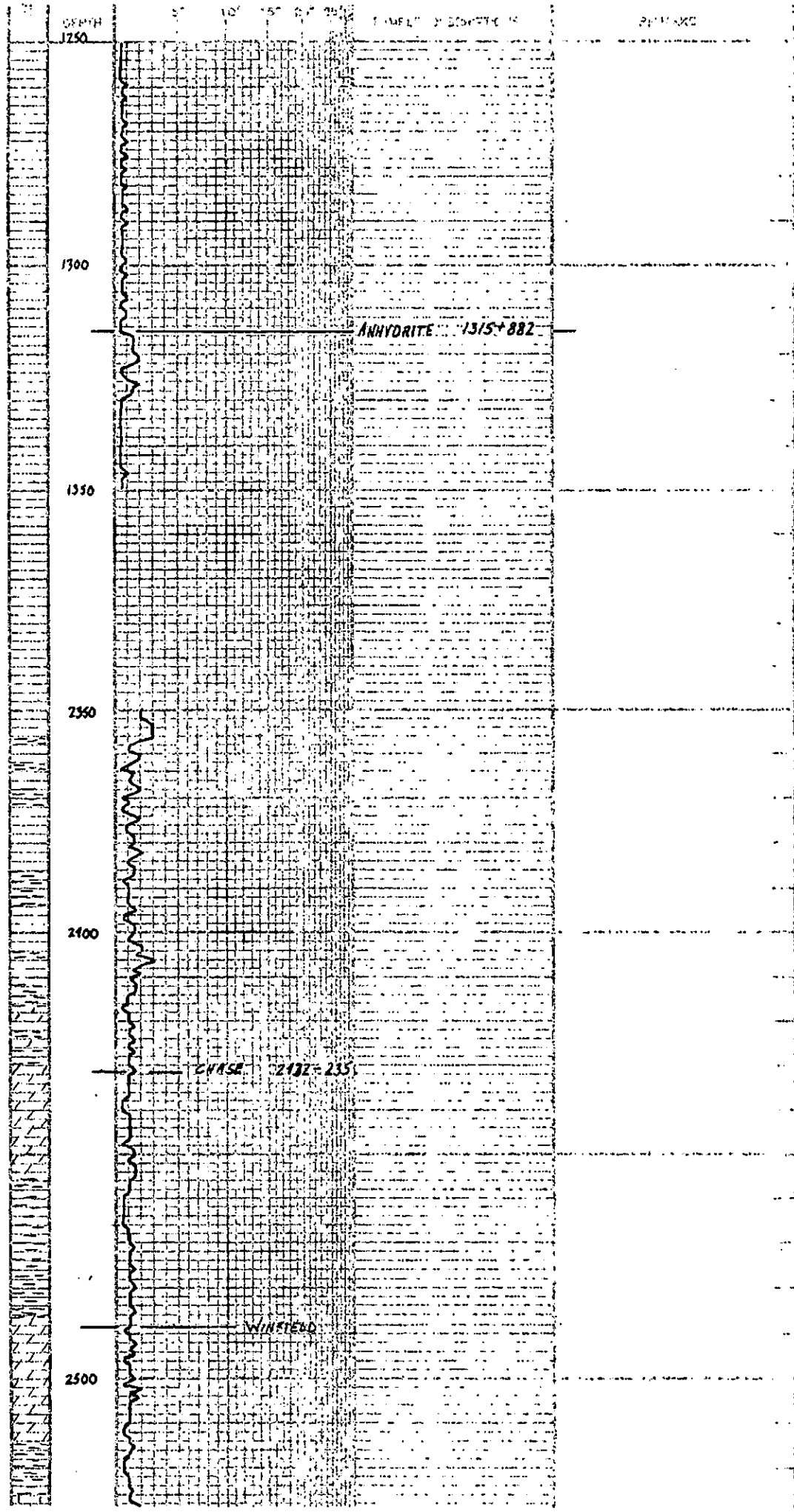
SAVING 0.50 @ 407
 49.0
 ELECTRIC SURVEYS
 Des Moines, Des Moines, IA
 Miss. State

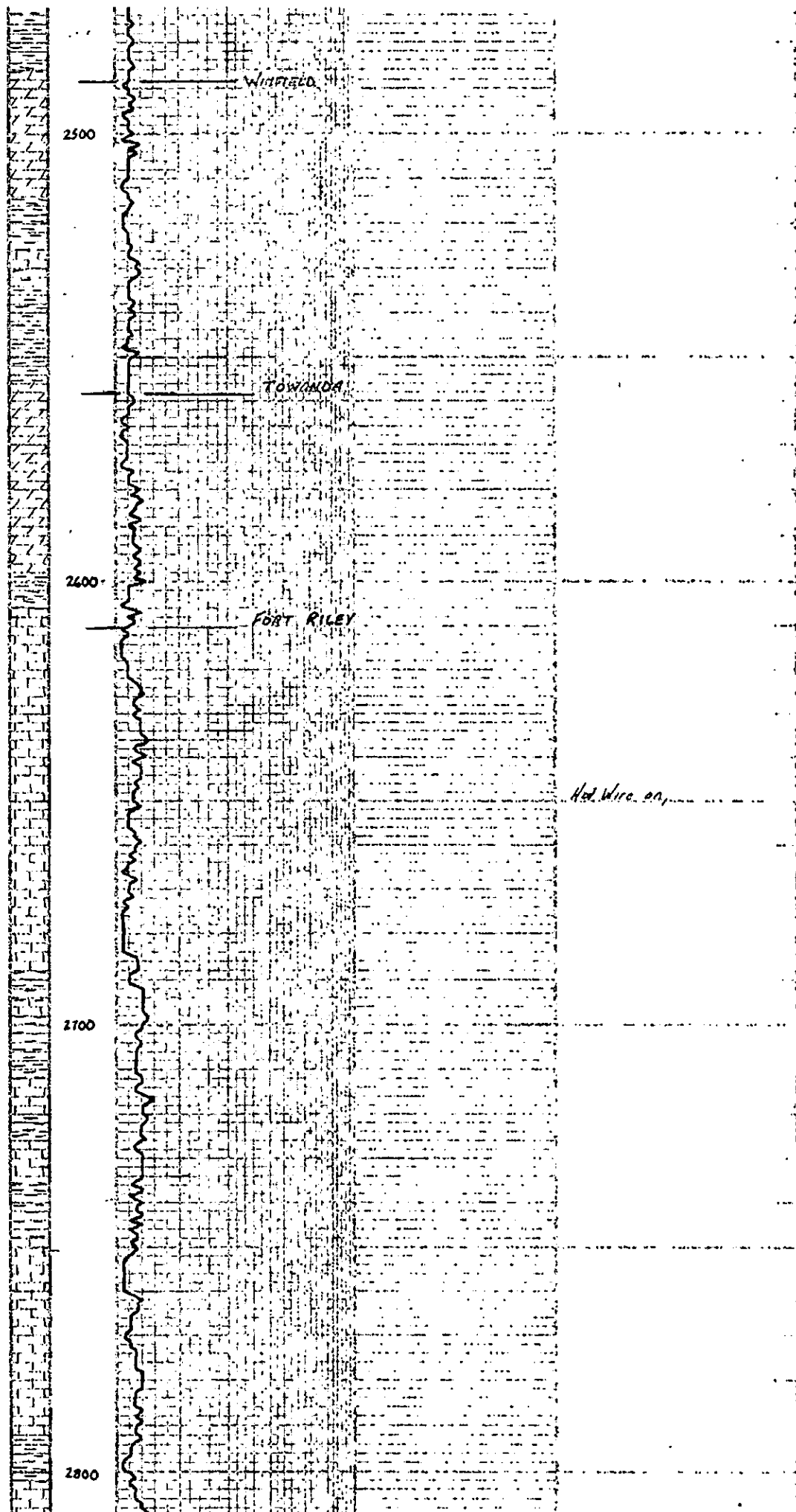
REMARKS

APR 15 097 21612

7-18-12 5600
 7-19-12 705
 7-20-12 2576
 7-21-12 3162
 7-22-12 3462
 7-23-12 3926
 7-24-12 4393
 7-25-12 4622
 7-26-12 4736









2800

2900

3000

*

35. 1176. 7. 21. 75. 1172. 98. 1185. 51. 21.

Shed Glen T. 1176. 7. 21. 75. 1172. 98. 1185. 51. 21.

35. 1176. 7. 21. 75. 1172. 98. 1185. 51. 21.

35. 1176. 7. 21. 75. 1172. 98. 1185. 51. 21.

35. 1176. 7. 21. 75. 1172. 98. 1185. 51. 21.

35. 1176. 7. 21. 75. 1172. 98. 1185. 51. 21.

35. 1176. 7. 21. 75. 1172. 98. 1185. 51. 21.

2200 1176. 7. 21. 75. 1172. 98. 1185. 51. 21.

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35. 1176. 7. 21. 75. 1172. 98. 1185. 51. 21.



DISPLACED
① 3323
Vis: 70
WT: 87
WT: 72
WT: 800

31. 4. 24. 5. 21. 7. 12. 7. 4.

31. 21. 217. 6.

STOTLER 3321-7174

31. 21. 4. 24. 5. 21. 7. 12. 7. 4.

3400

31. 21. 4. 24. 5. 21. 7. 12. 7. 4.

TARKIO

TARKIO log

31. 4. 24. 5. 21. 7. 12. 7. 4.

31. 21. 4. 24. 5. 21. 7. 12. 7. 4.

31. 4. 24. 5. 21. 7. 12. 7. 4.

31. 21. 4. 24. 5. 21. 7. 12. 7. 4.

3500

BERN

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31. 4. 24. 5. 21. 7. 12. 7. 4.

31. 4. 24. 5. 21. 7. 12. 7. 4.

31. 21. 4. 24. 5. 21. 7. 12. 7. 4.

3570-40 DATE
INCE

HOWARD 3567-1370

31. 21. 4. 24. 5. 21. 7. 12. 7. 4.

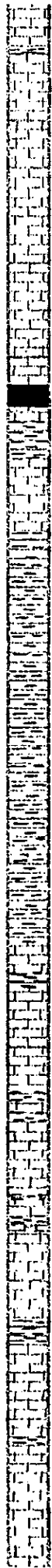
TOPEKA 3590-1393

3600

31. 21. 4. 24. 5. 21. 7. 12. 7. 4.

31. 4. 24. 5. 21. 7. 12. 7. 4.

31. 4. 24. 5. 21. 7. 12. 7. 4.



3900

Sh. Blue Clay, 2' to 3' of. 15' to 20' of. 15' to 20' of.

Sh. Blue Clay, 1' to 2' of. 15' to 20' of. 15' to 20' of.

Sh. Blue Clay, 1' to 2' of. 15' to 20' of. 15' to 20' of.
3910 30" Sh. Clay, 15' to 20' of. 15' to 20' of.
15' to 20' of. 15' to 20' of. 15' to 20' of.
3920 30" Sh. Clay, 15' to 20' of. 15' to 20' of.

Sh. Blue Clay, 1' to 2' of. 15' to 20' of. 15' to 20' of.

HEBNER 3956-1759

Sh. Blue Clay, 1' to 2' of. 15' to 20' of. 15' to 20' of.

TORONTO 3970

Sh. Blue Clay, 1' to 2' of. 15' to 20' of. 15' to 20' of.

DOUGLAS

Sh. Blue Clay, 1' to 2' of. 15' to 20' of. 15' to 20' of.

4000

Sh. Blue Clay, 1' to 2' of. 15' to 20' of. 15' to 20' of.

Sh. Blue Clay, 1' to 2' of. 15' to 20' of. 15' to 20' of.

Sh. Blue Clay, 1' to 2' of. 15' to 20' of. 15' to 20' of.

Sh. Blue Clay, 1' to 2' of. 15' to 20' of. 15' to 20' of.

BROWN LINE 4077-1880

Sh. Blue Clay, 1' to 2' of. 15' to 20' of. 15' to 20' of.

LANSING 4087

Samples are Lagged - FD

4087-1890

Sh. Blue Clay, 1' to 2' of. 15' to 20' of. 15' to 20' of.

4100

Sh. Blue Clay, 1' to 2' of. 15' to 20' of. 15' to 20' of.

Sh. Blue Clay, 1' to 2' of. 15' to 20' of. 15' to 20' of.

Sh. Blue Clay, 1' to 2' of. 15' to 20' of. 15' to 20' of.

Sh. Blue Clay, 1' to 2' of. 15' to 20' of. 15' to 20' of.

Sh. Blue Clay, 1' to 2' of. 15' to 20' of. 15' to 20' of.

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Sh. Blue Clay, 1' to 2' of. 15' to 20' of. 15' to 20' of.

Sh. Blue Clay, 1' to 2' of. 15' to 20' of. 15' to 20' of.

4200

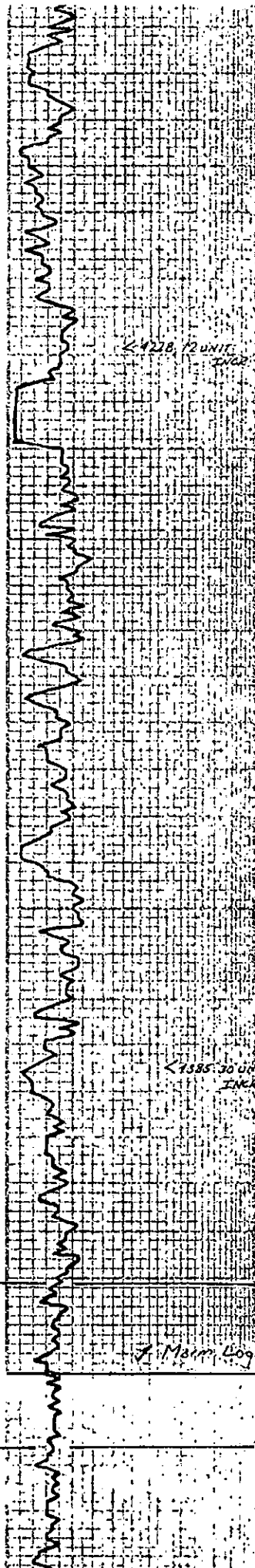
Sh. Blue Clay, 1' to 2' of. 15' to 20' of. 15' to 20' of.



4200

4300

4400



36. 219
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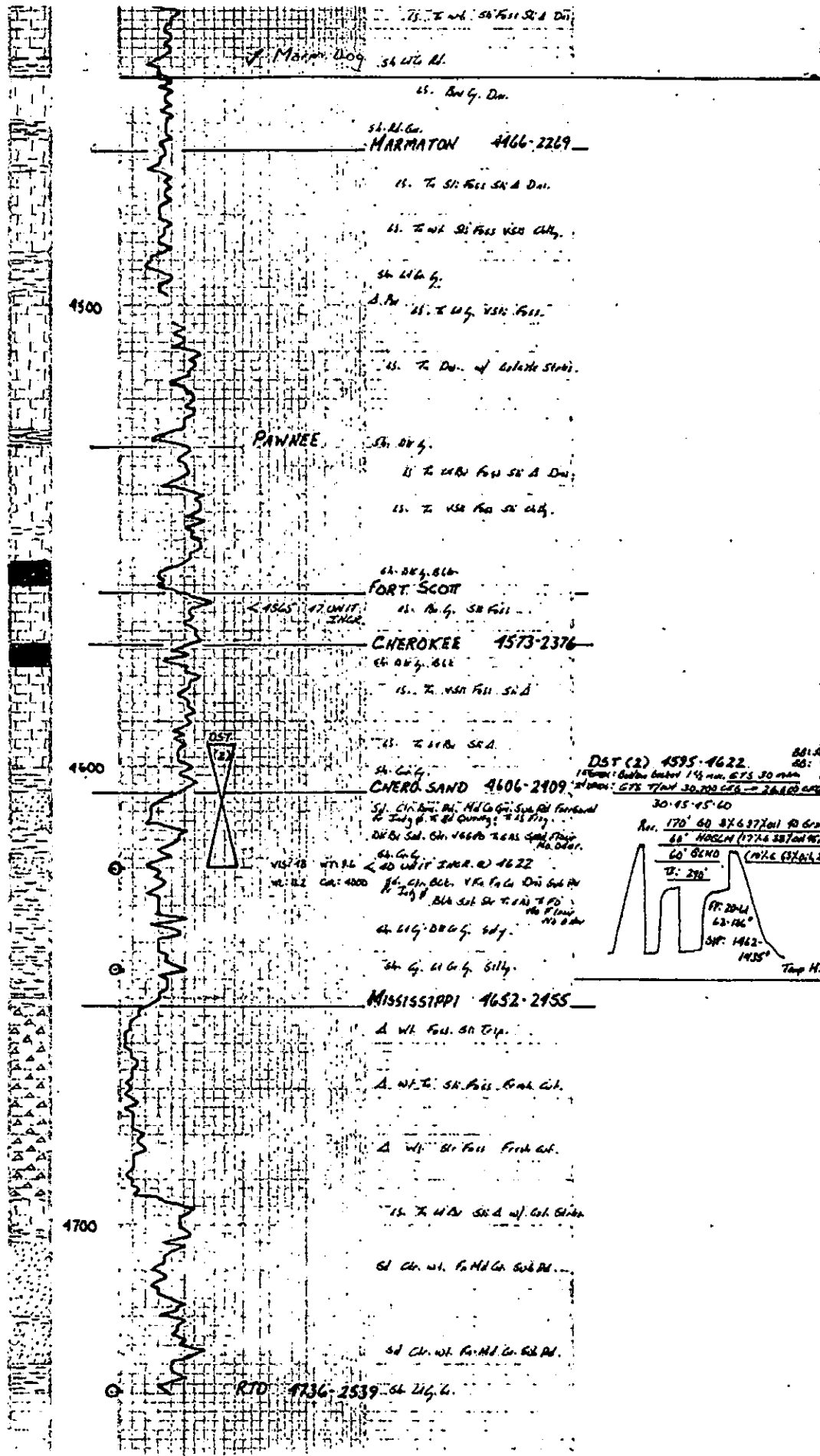
4228. 12 UNIT
INCR

4385. 30 UNIT
INCR

4431-2231
HARMATON

HARMATON Log 54 116 H.

HARMATON 4466-2269



75. To wt. sh. Fall. S. & D. D.
 Marm. Dog sh. 276 ft.

65. Red G. D.
 sh. bl. G.
MARMATON 4466-2269

15. To sh. Fall. S. & D. D.
 21. To wt. sh. Fall. S. & D. D.
 sh. 276 ft.
 D. D. 21. To wt. sh. Fall.
 15. To D. of Col. sh. S. & D. D.

4500

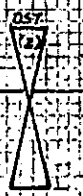
PAWNEE sh. 276 ft.
 15. To wt. sh. Fall. S. & D. D.
 15. To wt. sh. Fall. S. & D. D.

sh. 276 ft. bl.
FORT SCOTT
 15. To wt. sh. Fall.

< 1565' 17 UNIT INCR.

CHEROKEE 4573-2376
 sh. 276 ft. bl.
 15. To wt. sh. Fall. S. & D. D.

4600

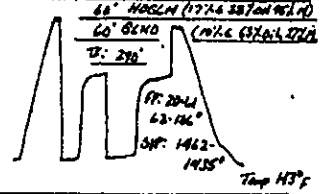


sh. 276 ft. S. & D. D.
CHERO SAND 4606-2409

DST (2) 4595-4622
 15' diam. 60' dia. 1 1/2' dia. 875 30 diam.
 15' diam. 675 77' dia. 30. 100 675 - 26. 1125 675

sh. 276 ft. S. & D. D.
 15. To wt. sh. Fall. S. & D. D.
 15. To wt. sh. Fall. S. & D. D.
 15. To wt. sh. Fall. S. & D. D.
 15. To wt. sh. Fall. S. & D. D.

15. To wt. sh. Fall. S. & D. D.
 15. To wt. sh. Fall. S. & D. D.
 15. To wt. sh. Fall. S. & D. D.
 15. To wt. sh. Fall. S. & D. D.



MISSISSIPPI 4652-2455

A. wt. sh. Fall. S. & D. D.
 A. wt. sh. Fall. S. & D. D.
 A. wt. sh. Fall. S. & D. D.
 15. To wt. sh. Fall. S. & D. D.
 60' ch. wt. sh. Fall. S. & D. D.
 60' ch. wt. sh. Fall. S. & D. D.

4700

RTD 4736-2539 sh. 276 ft.