

KANSAS CORPORATION COMMISSION 1092308
OIL & GAS CONSERVATION DIVISION

Form ACO-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: _____

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 #: _____

<u>08/06/2012</u>	<u>08/12/2012</u>	<u>08/12/2012</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-009-25728-00-00
 Spot Description: _____
S2 NE SE NE Sec. 6 Twp. 20 S. R. 15 ☐ East ☒ West
1900 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: Barton
 Lease Name: MA-RO-DE Well #: 1-6
 Field Name: _____
 Producing Formation: NA
 Elevation: Ground: 1983 Kelly Bushing: 1983
 Total Depth: 3720 Plug Back Total Depth: _____
 Amount of Surface Pipe Set and Cemented at: 1017 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: 5000 ppm Fluid volume: 400 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 #: D21526

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 Garcia Date: 08/30/2012

1092308

Operator Name: L. D. Drilling, Inc. Lease Name: MA-RO-DE Well #: 1-6
 Sec. 6 Twp. 20 S. R. 15 ☐ East ☒ West County: Barton

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 (Attach Additional Sheets)	☒ Yes ☐ No	☐ Log Formation (Top), Depth and Datum	☒ Sample
Samples Sent to Geological Survey	☒ Yes ☐ No	Name	Top Datum
Cores Taken	☐ Yes ☒ No	ANHYDRITE	988 +995
Electric Log Run	☐ Yes ☒ No	TOPEKA	3029 -1046
Electric Log Submitted Electronically (If no, Submit Copy)	☐ Yes ☐ No	HEEBNER	3288 -1305
		BROWN LIME	3367 -1384
		LANSING	3377 -1394
		BASE KANSAS CITY	3600 -1617
		ARBUCKLE	3638 -1655

CASING RECORD ☒ New ☐ 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	1017	A-CON BLEND	200	
SURFACE	12.25	8.625	24	1017	COMMON	175	

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

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: ☐ Vented ☐ Sold ☐ Used on Lease (If vented, Submit ACO-18.)	METHOD OF COMPLETION: ☐ Open Hole ☐ Perf. ☐ Dually Comp. ☐ Commingled (Submit ACO-5) (Submit ACO-4) ☐ Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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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 06782 A

DATE TICKET NO. _____

DATE OF JOB 08-12-12				DISTRICT PRITH KS				NEW WELL ☒ OLD WELL ☐ PROD ☐ INJ ☐ WDW ☐ CUSTOMER ORDER NO.:			
CUSTOMER L.D. DRILLING				LEASE MHI-RO-DE				1-6 WELL NO.			
ADDRESS				COUNTY BARLOW				STATE KS			
CITY				STATE				SERVICE CREW Sullivan, Matt, Young			
AUTHORIZED BY				JOB TYPE: C/W P.T.A.							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED 8-12-12		DATE	AM PM	TIME	
19905-1903	45					ARRIVED AT JOB			AM PM	7:30	
19900-11010	45					START OPERATION			AM PM	7:30	
37800						FINISH OPERATION			AM PM	5:40	
						RELEASED			AM PM	6:45	
						MILES FROM STATION TO WELL 65.600					

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)

[illegible]

CHEMICAL / ACID DATA:			

		SUB TOTAL		
		DLS	259.44	
SERVICE & EQUIPMENT	%TAX ON \$			
MATERIALS	%TAX ON \$			
TOTAL				

SERVICE REPRESENTATIVE <i>Ph...</i>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <i>D. Smith</i>
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FIELD SERVICE ORDER NO.

BASIC

energy services, L.P.

TREATMENT REPORT

Customer <u>L.O. Dr. 11.11.11</u>		Lease No.		Date	
Lease <u>1111-RD-11</u>		Well # <u>1-6</u>			
Field Order # <u>6782</u>	Station <u>Pratt KS</u>	Casing <u>D.P.</u>	Depth <u>3618'</u>	County	State <u>K1</u>
Type Job <u>CNW A.T.A.</u>			Formation	Legal Description <u>6-24-15</u>	

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

Customer Representative	Station Manager <u>DAVE SCOTT</u>	Treater <u>R. L. L. L.</u>
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Service Units	<u>791.1</u>	<u>1790</u>	<u>19002</u>	<u>19910</u>	<u>21010</u>						
Driver Names	<u>2/11/11</u>	<u>11/11/11</u>	<u>11/11/11</u>	<u>11/11/11</u>	<u>11/11/11</u>						

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
2:20					on for 10 min
					P.T.A.
					3618' w/ 20 sk
3:30			10		SPACE
			6		CM T
3:45			47		DISP HNDL hnd down
					1060' w/ 40 sk
4:45			10		SPACE
			10		cm
4:55			10		DISP
					360' w/ 50 sk
5:10			5		SPACE
			20		cm
5:20			3		DISP
5:30			3	2	DISP 40' w/ 10 f
5:40			7	2	P.H.
					3013 complete
					Thank you



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

FIELD SERVICE TICKET

1718 3540 A

DATE TICKET NO. _____

DATE OF JOB 8-7-12 DISTRICT Piatt				NEW WELL ☒ OLD WELL ☐ PROD ☐ INJ ☐ WDW ☐ CUSTOMER ORDER NO.:			
CUSTOMER L.D. Drilling				LEASE MA-RU-DE WELL NO. 1-6			
ADDRESS				COUNTY Barton STATE KS			
CITY STATE				SERVICE CREW Orlando, McBrat, Young			
AUTHORIZED BY				JOB TYPE: CNW - 85% Surface			
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE 8-7-12 AM ☐ PM ☒ TIME 7:00
27283	1					ARRIVED AT JOB	8:15 AM ☐ PM ☒
27463	1					START OPERATION	8:20 AM ☐ PM ☒
19960-19918	1					FINISH OPERATION	8:30 AM ☐ PM ☒
						RELEASED	8:30 AM ☐ PM ☒
						MILES FROM STATION TO WELL	6.5

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: _____
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

[illegible]

CHEMICAL / ACID DATA:			

		SUB TOTAL	10,057.50
SERVICE & EQUIPMENT	%TAX ON \$		
MATERIALS	%TAX ON \$		
		TOTAL	

SERVICE REPRESENTATIVE <i>Stan</i>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <i>J. M. M. M. M.</i>
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FIELD SERVICE ORDER NO.



TREATMENT REPORT

[illegible]

GENERAL INFORMATION

Client Information:

Company: L D DRILLING INC

Contact: L D DAVIS

Phone: Fax: e-mail:

Site Information:

Contact: KIM SHOEMAKER

Phone: Fax: e-mail:

Well Information:

Name: MA-RO-DE 1-6

Operator: L D DRILLING INC

Location-Downhole:

Location-Surface: S6/20S/15W

Test Information:

Company: DIAMOND TESTING

Representative: JOHN RIEDL

Supervisor: KIM SHOEMAKER

Test Type: DST #1 CONVENTIONAL

Job Number: D1192

Test Unit:

Start Date: 2012/08/11

Start Time: 01:30:00

End Date: 2012/08/11

End Time: 09:00:00

Report Date: 2012/08/11

Prepared By: JOHNRIEDL

Remarks:

Qualified By: KIM SHOEMAKER

RECOVERY: 2000' GASSY SULFUR WATER



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: STC/Ma-ro-de1-6dst1

TIME ON: 01:30 08/11/12

TIME OFF: 09:00 08/11/12

Company L D DRILLING INC Lease & Well No. MA-RO-DE #1-6
Contractor PETROMARK RIG 2 Charge to L D DRILLING INC
Elevation 1983 K.B Formation ARBUCKLE Effective Pay _____ Ft. Ticket No. D1192
Date 8/11/12 Sec. 6 Twp. 20 S Range 15 W County BARTON State KANSAS
Test Approved By KIM SHOEMAKER Diamond Representative JOHN RIEDL

Formation Test No. 1 Interval Tested from 3643 ft. to 3669 ft. Total Depth 3669 ft.

Packer Depth 3638 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Packer Depth 3643 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3646 ft. Recorder Number 30046 Cap. 6000 P.S.I.

Bottom Recorder Depth (Outside) 3666 ft. Recorder Number 11073 Cap. 4000 P.S.I.

Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 54 Drill Collar Length 120 ft. I.D. 2 1/4 in.

Weight 9.3 Water Loss 9.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.

Chlorides 4,000 P.P.M. Drill Pipe Length 3497 ft. I.D. 3 1/2 in.

Jars: Make STERLING Serial Number #2 Test Tool Length 26 ft. Tool Size 3 1/2-IF in.

Did Well Flow? NO Reversed Out NO Anchor Length 26 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: STRONG (B.O.B 1 MINUTE) WEAK BB

2nd Open: STRONG (B.O.B 5 MINUTE) NO BB

Recovered 2000 ft. of GAS CUT SULFUR WATER

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered 0 ft. of _____

Remarks: TOTAL FLUID RECOVERY: 2000' (120' IN DRILL COLLARS 1880' IN DRILL PIPE)

Price Job

Other Charges

Insurance

Total

Time Set Packer(s) 3:40 A.M. A.M. P.M. Time Started Off Bottom 6:40 A.M. A.M. P.M. Maximum Temperature 118

Initial Hydrostatic Pressure..... (A) 1823 P.S.I.

Initial Flow Period..... Minutes 30 (B) 200 P.S.I. to (C) 647 P.S.I.

Initial Closed In Period..... Minutes 45 (D) 980 P.S.I.

Final Flow Period..... Minutes 45 (E) 690 P.S.I. to (F) 907 P.S.I.

Final Closed In Period..... Minutes 60 (G) 981 P.S.I.

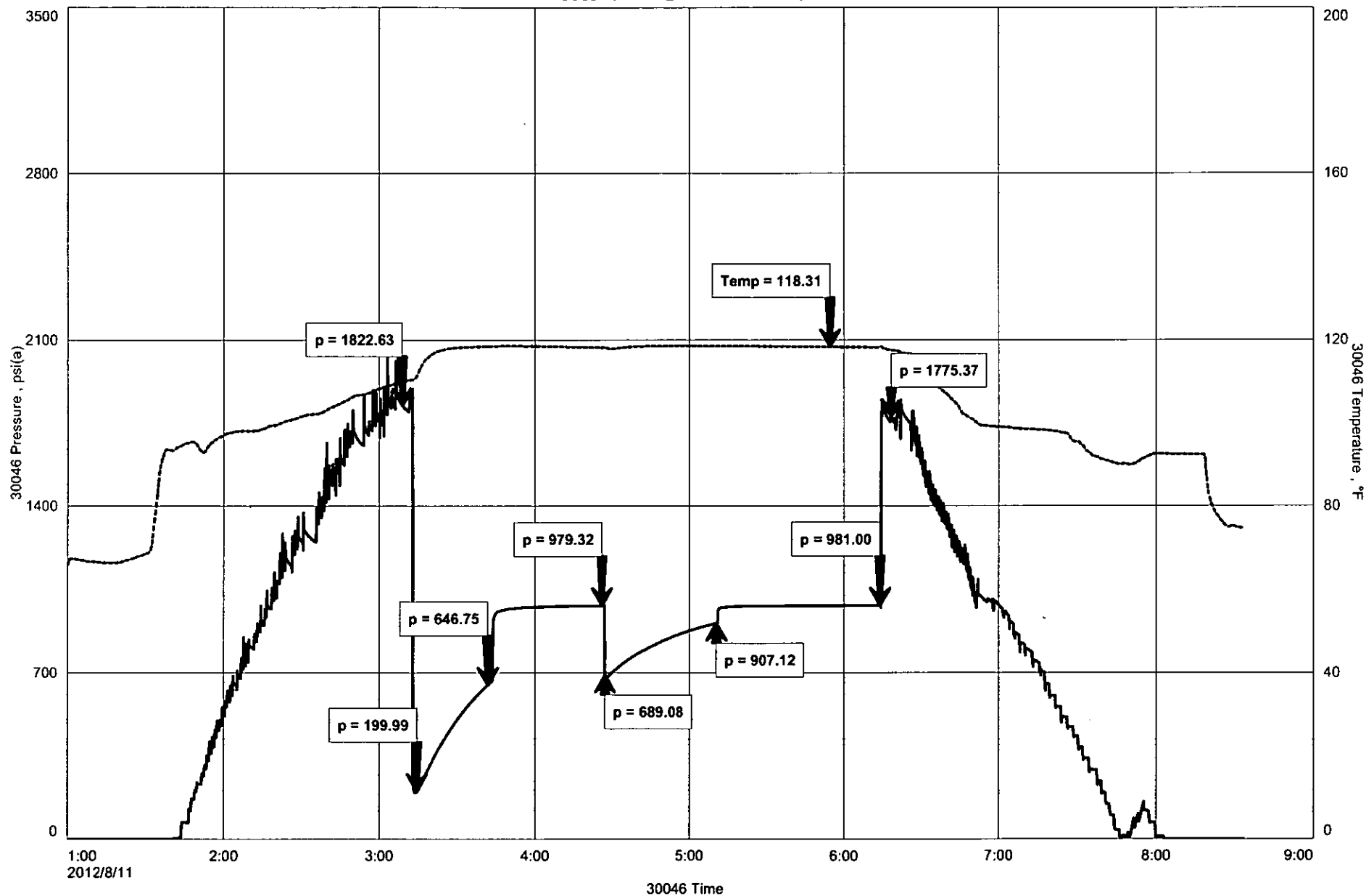
Final Hydrostatic Pressure..... (H) 1775 P.S.I.

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.

L D DRILLING INC
Start Test Date: 2012/08/11
Final Test Date: 2012/08/11

MA-RO-DE 1-6
Formation: ARBUCKLE
Job Number: D1192

MA-RO-DE 1-6



GENERAL INFORMATION

Client Information:

Company: L D DRILLING INC

Contact: L D DAVIS

Phone: Fax: e-mail:

Site Information:

Contact: KIM SHOEMAKER

Phone: Fax: e-mail:

Well Information:

Name: MA-RO-DE 1-6

Operator: L D DRILLING INC

Location-Downhole:

Location-Surface: S6/20S/15S

Test Information:

Company: DIAMOND TESTING

Representative: JOHN RIEDL

Supervisor: KIM SHOEMAKER

Test Type: DST 2 CONVENTIONAL

Job Number: D1193

Test Unit:

Start Date: 2012/08/11

Start Time: 15:30:00

End Date: 2012/08/11

End Time: 23:00:00

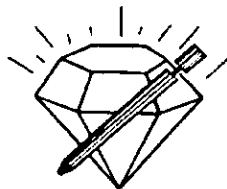
Report Date:

Prepared By:

Remarks:

Qualified By:

RECOVERY: GAS TO SURFACE, 180' SLIGHTLY OIL CUT GASSY MUDDY WATER, 1920' WATER



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: STC/Ma-ro-de1-6dst2

TIME ON: 15:30 08/11/12
TIME OFF: 23:00 08/11/12

Company L D DRILLING INC Lease & Well No. MA-RO-DE #1-6
Contractor PETROMARK RIG 2 Charge to L D DRILLING INC
Elevation 1983 K.B Formation ARBUCKLE Effective Pay _____ Ft. Ticket No. D1193
Date 8/11/12 Sec. 6 Twp. 20 S Range 15 W County BARTON State KANSAS
Test Approved By KIM SHOEMAKER Diamond Representative JOHN RIEDL

Formation Test No. 2 Interval Tested from 3672 ft. to 3701 ft. Total Depth 3701 ft.

Packer Depth 3667 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Packer Depth 3672 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3675 ft. Recorder Number 30046 Cap. 6000 P.S.I.

Bottom Recorder Depth (Outside) 3698 ft. Recorder Number 11073 Cap. 4000 P.S.I.

Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 52 Drill Collar Length 120 ft. I.D. 2 1/4 in.

Weight 9.2 Water Loss 8.4 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.

Chlorides 5,000 P.P.M. Drill Pipe Length 3526 ft. I.D. 3 1/2 in.

Jars: Make STERLING Serial Number #2 Test Tool Length 26 ft. Tool Size 3 1/2-IF in.

Did Well Flow? NO Reversed Out NO Anchor Length 29 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: STRONG (B.O.B 1 MINUTE, GTS 30 MIN.) STRONG BB

2nd Open: STRONG (B.O.B 2 MIN. GTS THRU-OUT) GOOD BB

Recovered 60 ft. of SLOGGWM (3%OIL 25%GAS 30%WATER 42%MUD)

Recovered 120 ft. of VSLOGGMW (1%OIL 30%GAS 25%MUD 71%WATER)

Recovered 1920 ft. of GW (20%GAS 80%WATER) CHLORIDES 40,000 Ppm

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered 0 ft. of _____

Remarks: TOTAL FLUID RECOVERY: 2100' (120' IN DRILL COLLARS. 1980' IN DRILL PIPE)

GAS WAS GUAGED @ 3 MCF/D DECREASING TO TSTM

Price Job

Other Charges

Insurance

Total

Time Set Packer(s) 5:15 P.M A.M. P.M. Time Started Off Bottom 8:15 P.M A.M. P.M. Maximum Temperature 119

Initial Hydrostatic Pressure..... (A) 1860 P.S.I.

Initial Flow Period..... Minutes 30 (B) 474 P.S.I. to (C) 968 P.S.I.

Initial Closed In Period..... Minutes 45 (D) 1048 P.S.I.

Final Flow Period..... Minutes 45 (E) 985 P.S.I. to (F) 1021 P.S.I.

Final Closed In Period..... Minutes 60 (G) 1023 P.S.I.

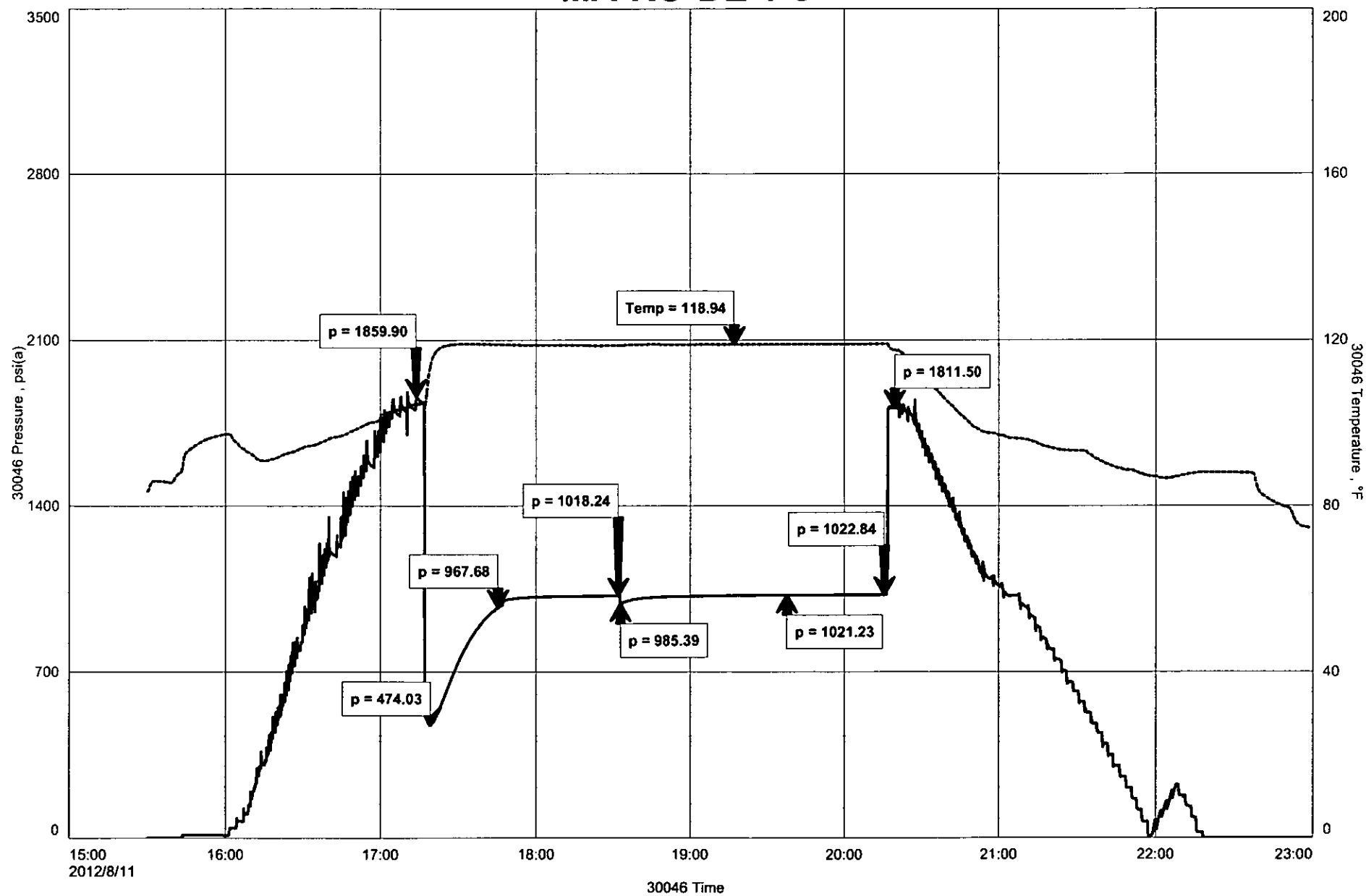
Final Hydrostatic Pressure..... (H) 1812 P.S.I.

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

L D DRILLING INC
Start Test Date: 2012/08/11
Final Test Date: 2012/08/11

MA-RO-DE 1-6
Formation: ARUCKLE
Job Number: D1193

MA-RO-DE 1-6



GENERAL INFORMATION

Client Information:

Company: L D DRILLING INC

Contact: LD DAVIS

Phone: Fax: e-mail:

Site Information:

Contact: KIM SHOEMAKER

Phone: Fax: e-mail:

Well Information:

Name: MA-RO-DE 1-6

Operator: L D DRILLING INC

Location-Downhole:

Location-Surface: S6/20S/15W

Test Information:

Company: DIAMOND TESTING

Representative: JOHN RIEDL

Supervisor: KIM SHOEMAKER

Test Type: DST #3 CONVENTIONAL

Job Number: D1194

Test Unit:

Start Date: 2012/08/12

Start Time: 05:00:00

End Date: 2012/08/12

End Time: 12:30:00

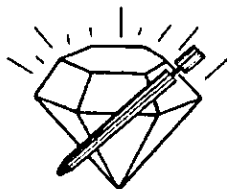
Report Date: 2012/08/12

Prepared By: JOHN RIEDL

Remarks:

Qualified By: KIM SHOEMAKER

RECOVERY: GAS TO SURFACE 1ST FLOW, 2700' GASSY WATER WITH SOME OIL SCUM IN TOP 200'



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: STC/Ma-ro-de1-6ds3

TIME ON: 05:00 08/12/12

TIME OFF: 9:00 8/12/12

Company L D DRILLING INC Lease & Well No. MA-RO-DE #1-6
Contractor PETROMARK RIG 2 Charge to L D DRILLING INC
Elevation 1983 K.B Formation ARBUCKLE Effective Pay _____ Ft. Ticket No. D1194
Date 8/12/12 Sec. 6 Twp. 20 S Range 15 W County BARTON State KANSAS
Test Approved By KIM SHOEMAKER Diamond Representative JOHN RIEDL

Formation Test No. 3 Interval Tested from 3703 ft. to 3720 ft. Total Depth 3720 ft.

Packer Depth 3698 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Packer Depth 3703 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3706 ft. Recorder Number 30046 Cap. 6000 P.S.I.

Bottom Recorder Depth (Outside) 3717 ft. Recorder Number 11073 Cap. 4000 P.S.I.

Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 58 Drill Collar Length 120 ft. I.D. 2 1/4 in.

Weight 9.6 Water Loss 9.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.

Chlorides 5,000 P.P.M. Drill Pipe Length 3557 ft. I.D. 3 1/2 in.

Jars: Make STERLING Serial Number #2 Test Tool Length 26 ft. Tool Size 3 1/2-IF in.

Did Well Flow? NO Reversed Out NO Anchor Length 29 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: STRONG (B.O.B 1 MINUTE, GTS 12 MIN.) STRONG BB

2nd Open: WEAK SURFACE BLOW NO BB

Recovered 2700 ft. of GASSY WATER WITH A SCUM OF OIL IN TOP 200' CHLORIDES 35,000Ppm

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered 0 ft. of _____

Remarks: TOTAL FLUID RECOVERY: ' (120' IN DRILL COLLARS., 2580' IN DRILL PIPE)

GAS WAS GUAGED 10 MCF/D DURING 1ST FLOW

Price Job

Other Charges

Insurance

Total

Time Set Packer(s) 7:10 A.M. A.M. P.M. Time Started Off Bottom 10:10 A.M. A.M. P.M. Maximum Temperature 119

Initial Hydrostatic Pressure..... (A) 1815 P.S.I.

Initial Flow Period..... Minutes 30 (B) 475 P.S.I. to (C) 981 P.S.I.

Initial Closed In Period..... Minutes 45 (D) 1018 P.S.I.

Final Flow Period..... Minutes 45 (E) 985 P.S.I. to (F) 1020 P.S.I.

Final Closed In Period..... Minutes 60 (G) 1023 P.S.I.

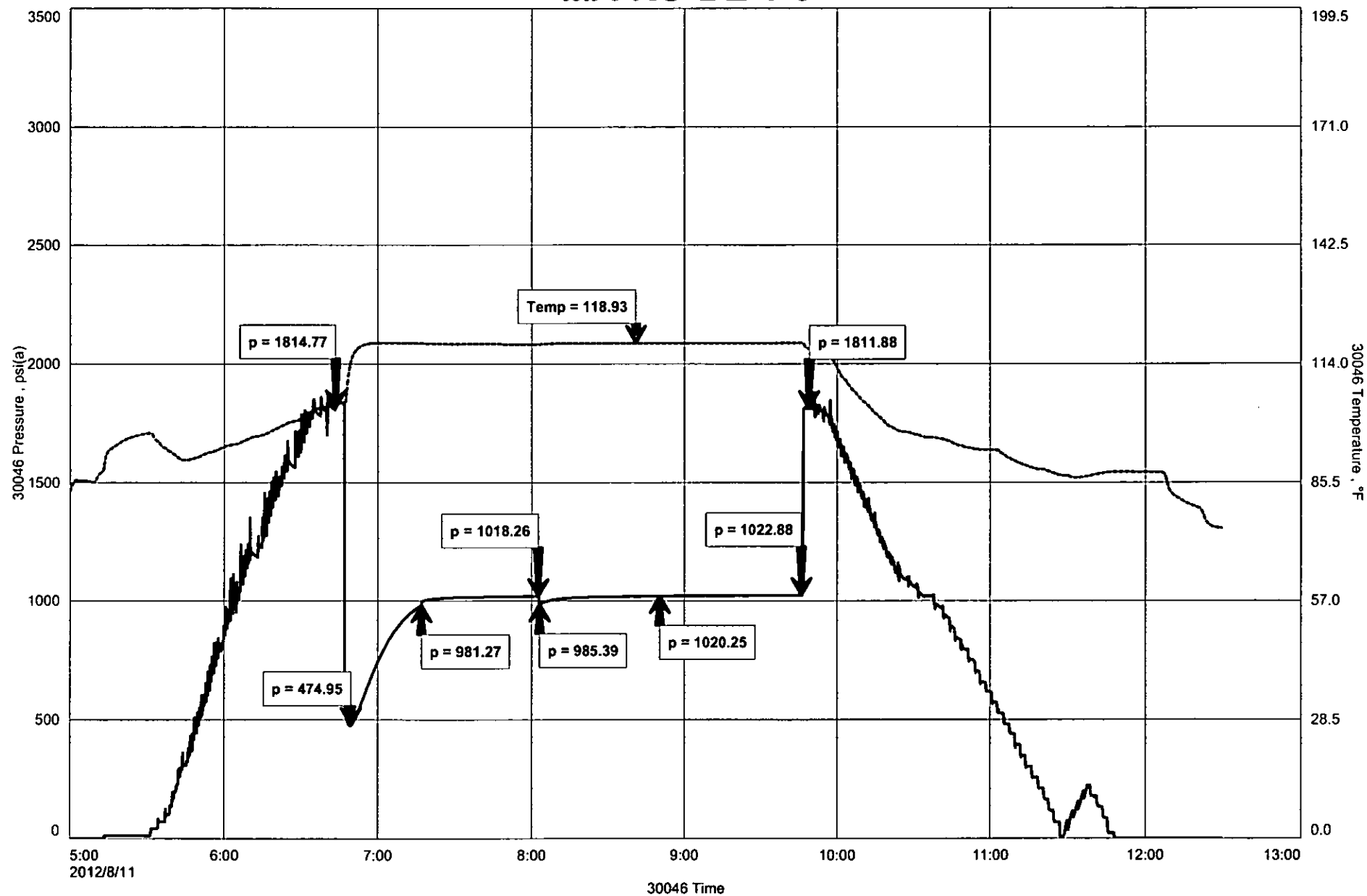
Final Hydrostatic Pressure..... (H) 1812 P.S.I.

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

L D DRILLING INC
Start Test Date: 2012/08/12
Final Test Date: 2012/08/12

MA-RO-DE 1-6
Formation: ARBUCKLE
Job Number: D1194

MA-RO-DE 1-6

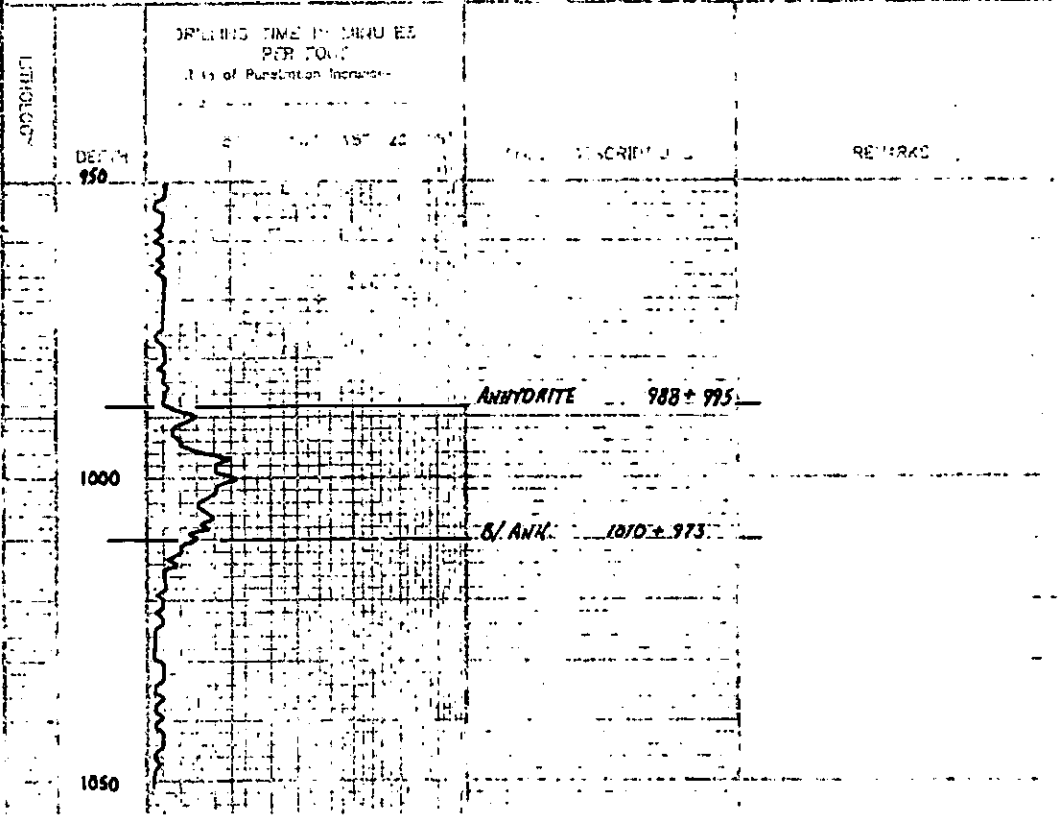


COMPANY **L. D. DRILLING, INC.**
 5116 **MA. ROAD**
 BERRENS
 1900 **FWL 1 330. FEL.**
 203 **NO. 15W**
KANSAS
PETROMARK DRILLING, RIG 2
 8-6-12 8-12-12
 5720
 2800
 CHEMICAL
 3000 5720
 2900 5720
 3000 5720
 3200 5720
 FORMATION
 ANHYDRITE 988+995
 TOBEKA 3029-1016
 HEEBREEK 3268-1205
 DROWN LIME 3347-1394
 LANSING 3377-1394
 S/KC 3600-1617
 AMBUCKLE 3630-1655

REMARKS
 8-6-12 5PUB.
 8-7 860
 8-8 1592
 8-9 2720
 8-10 3394
 8-11 3649
 8-12 5720

API: 15,009 - 25728

NO. 1-05



2900

VIS: 60
WT: 8.7
WT: 8.7
OIL: 2000

2885

HOWARD

Samples are Lagged

Sh. 214. 014

TOPEKA 3029-1096

Sh. 214. 014

Sh. 214. 014

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3100

3600

0186 3600-1617

DST (1) 3643-3669

SA. 24. 6. 6.

15000' Bottom bucket 1 min. 051 50' L. 131 11. 10

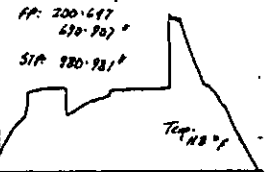
11. 24. 6. 6.

30. 45. 45. 60

Rel. 2000' GW w/ 1.5' 1.5'

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3700

170 3720-1737

DST (2) 3672-3701

SA. 24. 6. 6.

15000' Bottom bucket 1 min. 051 50' L. 131 11. 10

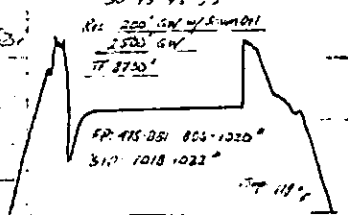
11. 24. 6. 6.

30. 45. 45. 60

Rel. 2000' GW w/ 1.5' 1.5'

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