



KANSAS CORPORATION COMMISSION 1059297
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 # 34225
Name: Buffalo Resources LLC
Address 1: 301 COMMERCE, STE 1380
Address 2: _____
City: FT WORTH State: TX Zip: 76102 + _____
Contact Person: Matthew Flanery
Phone: (817) 870-2707
CONTRACTOR: License # 5929
Name: Duke Drilling Co., Inc.
Wellsite Geologist: Dave Barker
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 #: _____
6/16/2011 6/22/2011 6/22/2011
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 15-167-23722-00-00

Spot Description: _____
N2 N2 NE NE Sec. 1 Twp. 14 S. R. 12 East West
110 Feet from North / South Line of Section
660 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: Russell

Lease Name: Heffel Unit Well #: 2-1

Field Name: _____

Producing Formation: N/A

Elevation: Ground: 1773 Kelly Bushing: 8

Total Depth: 3340 Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: 523 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: 32000 ppm Fluid volume: 950 bbls

Dewatering method used: Evaporated

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

- Letter of Confidentiality Received
Date: _____
 Confidential Release Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
ALT I II III Approved by: Deanna Garrisor Date: 08/02/2011



1059297

Operator Name: Buffalo Resources LLC Lease Name: Heffel Unit Well #: 2-1
 Sec. 1 Twp. 14 S. R. 12 East West County: Russell

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 Wireline 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 checked="" type="checkbox"/> Yes <input 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: Dual Induction Micro Compensated Density	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Name</th> <th style="text-align: left;">Top</th> <th style="text-align: left;">Datum</th> </tr> </thead> <tbody> <tr> <td>Anhydrite</td> <td>648</td> <td>+1131</td> </tr> <tr> <td>Topeka</td> <td>2562</td> <td>-783</td> </tr> <tr> <td>Heebner</td> <td>2801</td> <td>-1072</td> </tr> <tr> <td>Brown Lm</td> <td>2886</td> <td>-1107</td> </tr> <tr> <td>Lansing</td> <td>2806</td> <td>-1121</td> </tr> <tr> <td>Arbuckle</td> <td>3240</td> <td>-1461</td> </tr> </tbody> </table>	Name	Top	Datum	Anhydrite	648	+1131	Topeka	2562	-783	Heebner	2801	-1072	Brown Lm	2886	-1107	Lansing	2806	-1121	Arbuckle	3240	-1461
Name	Top	Datum																				
Anhydrite	648	+1131																				
Topeka	2562	-783																				
Heebner	2801	-1072																				
Brown Lm	2886	-1107																				
Lansing	2806	-1121																				
Arbuckle	3240	-1461																				

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	23	523	60/40 poz	250	3% CC 2 % Gel

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	-			
	-			

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: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date of First, Resumed Production, SWD or ENHR. _____		Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> 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> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
---	---	--

COPY

Date: 6/26/2011
Invoice # 4885
P.O.#:
Due Date: 7/26/2011
Division: Russell



QUALITY OILWELL CEMENTING, INC.
PO Box 32 - 740 West Wichita Ave, Russell KS 67665
Phone: 785-324-1041 fax: 785-483-1087
Email: cementing@ruraitel.net

Invoice

Contact:
BUFFALO RESOURCES
Address/Job Location:
BUFFALO RESOURCES
301 COMMERCE ST
SUITE 1380
FT WORTH TX 76102

Reference:
HEFFEL UNIT 2-1

Description of Work:
PLUG JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 977.42	No				
Common-Class A	108	\$ 1,410.39	Yes				
Bulk Truck Matl-Material Service Charge	188	\$ 402.48	No				
POZ Mix-Standard	72	\$ 354.52	Yes				
Pump Truck Mileage-Job to Nearest Camp	14	\$ 149.56	No				
Premium Gel (Bentonite)	6	\$ 104.56	Yes				
Flo Seal	45	\$ 96.34	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	14	\$ 87.52	No				
Dry Hole Plug	1	\$ 59.94	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 3,642.73
Discount Available ONLY if Invoice is Paid & Received
within listed terms of invoice: \$ (546.41)

SubTotal for Taxable Items: \$ 1,721.89
SubTotal for Non-Taxable Items: \$ 1,374.43

8.30% Russell County Sales Tax

Total: \$ 3,096.32
Tax: \$ 142.92

Thank You For Your Business!

Amount Due: \$ 3,239.24
Applied Payments:
Balance Due: \$ 3,239.24

Past Due Invoices are subject to a service charge (annual rate of 24%)
This does not include any applicable taxes unless it is listed.
©2008-2013 Straker Investments, LLC. All rights reserved.





QUALITY OILWELL CEMENTING, INC.
 PO Box 32 - 740 West Wichita Ave, Russell KS 67665
 Phone: 785-324-1041 fax: 785-483-1087
 Email: cementing@ruraltel.net

COPY

Date: 6/22/2011
 Invoice # 4881
 P.O.#:
 Due Date: 7/22/2011
 Division: Russell

Invoice

Contact:
BUFFALO RESOURCES
Address/Job Location:
BUFFALO RESOURCES
301 COMMERCE ST
SUITE 1380
FT WORTH TX 76102

Reference:
HEFFEL UNIT 2-1

Description of Work:
SURFACE JOB

Services / Items Included:

	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 963.85	No				
Common-Class A	150	\$ 1,931.67	Yes				
Bulk Truck Matl-Material Service Charge	263	\$ 555.22	No				
POZ Mix-Standard	100	\$ 485.56	Yes				
Calcium Chloride	9	\$ 357.77	Yes				
8 5/8" Centralizer	3	\$ 202.67	Yes				
Pump Truck Mileage-Job to Nearest Camp	16	\$ 168.55	No				
8 5/8" Top Rubber Plug	1	\$ 111.89	Yes				
Baffle Plate Aluminum, 8 5/8"	1	\$ 95.00	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	16	\$ 98.63	No				
Premium Gel (Bentonite)	4	\$ 68.74	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 5,039.54
Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (755.93)

SubTotal for Taxable Items: \$ 2,765.29

SubTotal for Non-Taxable Items: \$ 1,518.32

Total: \$ 4,283.61

Tax: \$ 229.52

8.30% Russell County Sales Tax

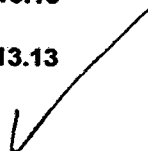
Thank You For Your Business!

Amount Due: \$ 4,513.13

Applied Payments:

Balance Due: \$ 4,513.13

Past Due Invoices are subject to a service charge (annual rate of 24%)
 This does not include any applicable taxes unless it is listed.
 ©2008-2013 Straker Investments, LLC. All rights reserved.



QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.#

Phone 785-483-2025
Cell 785-324-1041

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

No. 4881

Date	6-16-11	Sec.	1	Twp.	14	Range	12	County	Russell	State	KS	On Location		Finish	11:00PM
Lease	Hefel unit		Well No.	2-1		Location	Dorrance 1W 1W Sinto								
Contractor	Duke #2					Owner	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	Buffalo Resources								
Hole Size	12 1/4		T.D.	524'		Street									
Csg.	8 5/8 23lb		Depth			City									
Tbg. Size			Depth			State									
Tool			Depth			The above was done to satisfaction and supervision of owner agent or contractor.									
Cement Left in Csg.	42.50'		Shoe Joint	42.50'		Cement Amount Ordered	250 6 3/4 39cc 290gel								
Meas Line			Displace	30 1/2 bds											

EQUIPMENT

Pumptrk.	1	No.	Cementor	Brandon		Common	150 150	
Bulktrk	8	No.	Helper	Paul		Poz. Mix	100	
Bulktrk	PU	No.	Driver	Doug		Gel.	4	
			Driver			Calcium	9	

JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal
Centralizers	Koi-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
Cement did Giro's	Sand
	Handling 163
	Mileage

Thank You!!

	Guide Shoe
	Centralizer - 3
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down
	1 - 8 5/8 baffle plate
	1 - 8 5/8 solid rubber plug
	Pumptrk Charge - Surface
	Mileage 16

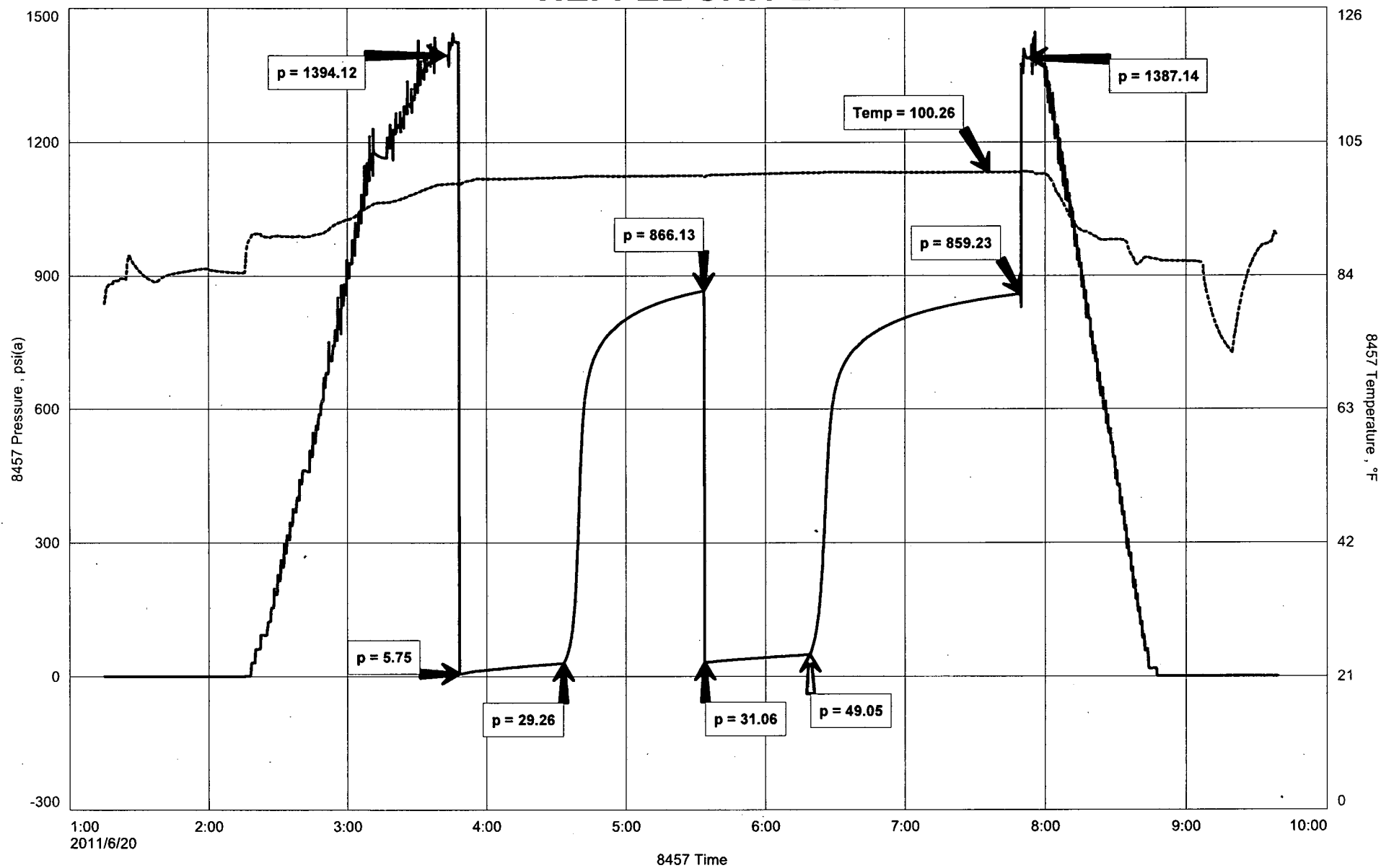
X Signature Daron Patterson

Tax	
Discount	
Total Charge	

BUFFALO RESOURCES
DST#1 2910-2928 L/KC "C"
Start Test Date: 2011/06/20
Final Test Date: 2011/06/20

HEFFEL UNIT 2-1
Formation: DST#1 2910-2928 L/KC "C"
Pool: WILDCAT
Job Number: M173

HEFFEL UNIT 2-1



DIAMOND TESTING

Pressure Survey Report

General Information

Company Name	BUFFALO RESOURCES	Job Number	M173
Well Name	HEFFEL UNIT 2-1	Representative	MIKE COCHRAN
Unique Well ID	DST#1 2910-2928 L/KC "C"	Well Operator	BUFFALO RESOURCES
Surface Location	SEC.1-14S-12W RUSSELL CO.KS.	Report Date	2011/06/20
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	DAVID BARKER
		Test Unit	NO. 1

Test Information

Test Type	CONVENTIONAL		
Formation	DST#1 2910-2928 L/KC "C"		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2011/06/20	Start Test Time	01:15:00
Final Test Date	2011/06/20	Final Test Time	09:40:00
		Well Fluid Type	01 Oil
Gauge Name	8457		
Gauge Serial Number			

Test Results

Remarks

RECOVERED:
1' CO 100% OIL
90' MW 86% WTR, 14% MUD LIGHT OIL SCUM
91' TOTAL FLUID

CHLOR: 43,000 PPM
PH: 7.0
RW: .18 @ 90 DEG

GRAVITY: 40.5@60DEG

TOOL SAMPLE: 4% OIL, 76% WTR, 20% MUD



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

TIME ON: 0115
 TIME OFF: 0940

Company BUFFALO RESOURCES Lease & Well No. HEFFEL UNIT 2-1
 Contractor DUKE RIG 2 Charge to BUFFALO RESOURCES
 Elevation 1773 GL EST. Formation _____ L/KC "C" Effective Pay _____ Ft. Ticket No. M173
 Date 06/20/2011 Sec. 1 Twp. _____ 14 S Range _____ 12 W County RUSSELL State KANSAS
 Test Approved By DAVID BARKER Diamond Representative MIKE COCHRAN

Formation Test No. 1 Interval Tested from 2910 ft. to 2928 ft. Total Depth 2928 ft.
 Packer Depth 2905 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.
 Packer Depth 2910 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Depth of Selective Zone Set _____
 Top Recorder Depth (Inside) 2892 ft. Recorder Number 8457 Cap. 10,000 P.S.I.
 Bottom Recorder Depth (Outside) 2925 ft. Recorder Number 13386 Cap. 3,875 P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.
 Mud Type CHEM Viscosity 45 Drill Collar Length 0 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 3,200 P.P.M. Drill Pipe Length 2878 ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number 1 Test Tool Length 32 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? NO Reversed Out NO Anchor Length 18 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: WSB, INC. TO 7 1/2" (NO BB)
 2nd Open: WSB AFTER 5 MIN, THEN INC. TO 3 1/2" (NO BB)

Recovered 1 ft. of CO 100% OIL GRAVITY: 40.5@60DEG
 Recovered 90 ft. of MW 86% WTR, 14% MUD, LIGHT OIL SCUM
 Recovered 91 ft. of TOTAL FLUID

Recovered _____ ft. of _____	PH: <u>7.0</u>	Price Job
Recovered _____ ft. of _____	CHLOR: <u>43,000 PPM</u>	Other Charges
Remarks: _____	RW: <u>.18 @ 90 °</u>	Insurance
TOOL SAMPLE: <u>4% OIL, 76% WTR., 20% MUD</u>		Total

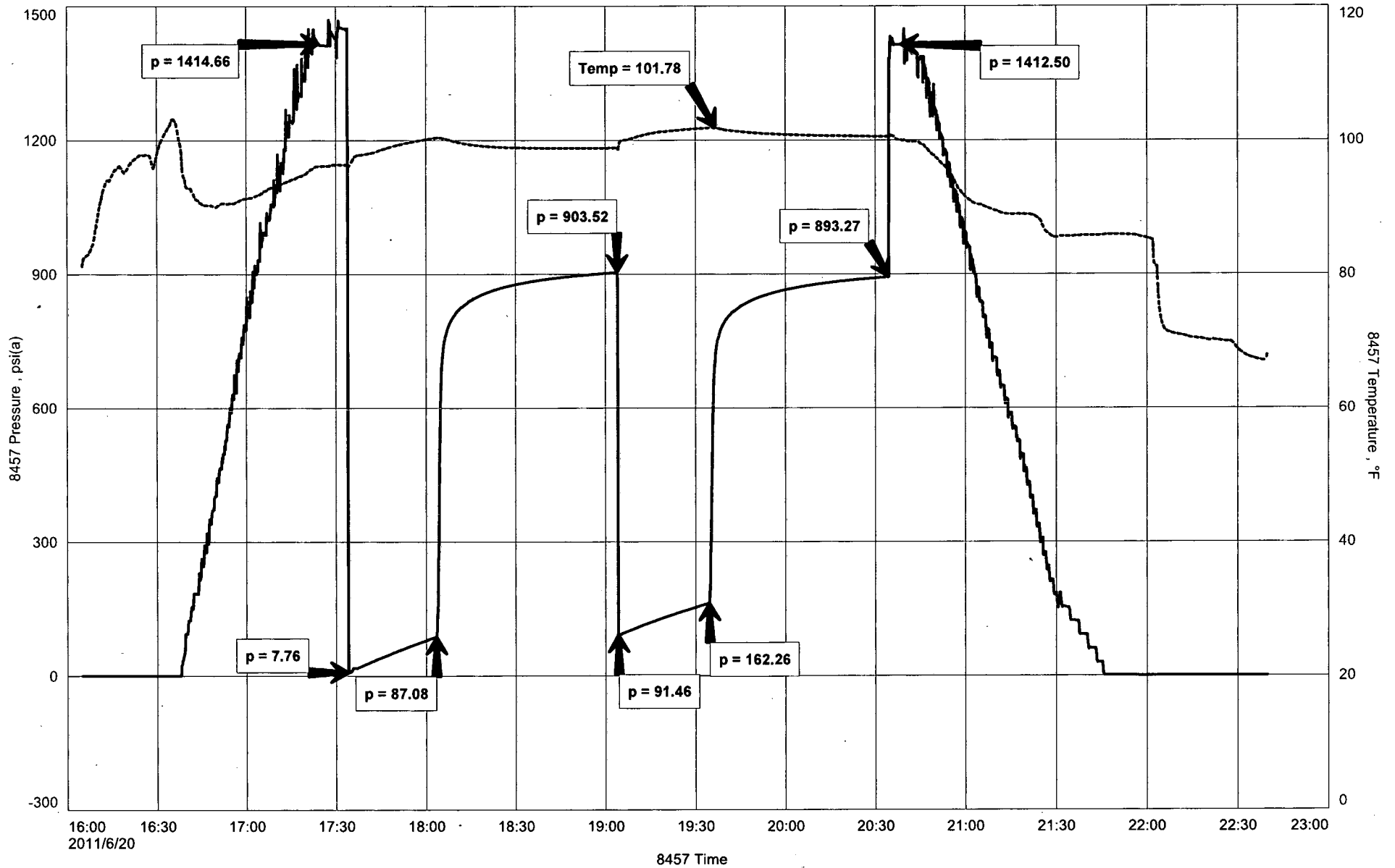
Time Set Packer(s) 3:45 A.M. A.M. P.M. Time Started Off Bottom 7:45 A.M. A.M. P.M. Maximum Temperature 100
 Initial Hydrostatic Pressure..... (A) 1394 P.S.I.
 Initial Flow Period..... Minutes 45 (B) _____ P.S.I. to (C) 29 P.S.I.
 Initial Closed In Period..... Minutes 60 (D) 866 P.S.I.
 Final Flow Period..... Minutes 45 (E) 31 P.S.I. to (F) 49 P.S.I.
 Final Closed In Period..... Minutes 90 (G) 859 P.S.I.
 Final Hydrostatic Pressure..... (H) 1387 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.

BUFFALO RESOURCES
DST#2 2966-2986 L/KC "G"
Start Test Date: 2011/06/20
Final Test Date: 2011/06/20

HEFFEL UNIT 2-1
Formation: DST#2 2966-2986 L/KC "G"
Pool: WILDCAT
Job Number: M174

HEFFEL UNIT 2-1



DIAMOND TESTING

Pressure Survey Report

General Information

Company Name	BUFFALO RESOURCES	Job Number	M174
Well Name	HEFFEL UNIT 2-1	Representative	MIKE COCHRAN
Unique Well ID	DST#2 2966-2986 L/KC "G"	Well Operator	BUFFALO RESOURCES
Surface Location	SEC.1-14S-12W RUSSELL CO.KS.	Report Date	2011/06/20
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	DAVID BARKER
		Test Unit	NO. 1

Test Information

Test Type	CONVENTIONAL		
Formation	DST#2 2966-2986 L/KC "G"		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2011/06/20	Start Test Time	16:05:00
Final Test Date	2011/06/20	Final Test Time	22:40:00
		Well Fluid Type	01 Oil
Gauge Name	8457		
Gauge Serial Number			

Test Results

Remarks

RECOVERED:
80' GIP
1' CO 100% OIL
334' MW 90% WTR, 10% MUD, LIGHT SCUM OF OIL
335' TOTAL FLUID

CHLOR: 32,000 PPM
PH: 7.0
RW: .26 @ 56 DEG
GRAVITY: 39.2 @ 60 DEG

TOOL SAMPLE: 2% GAS, 8% OIL, 79% WTR, 11% MUD



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

TIME ON: 1605
TIME OFF: 2240

Company BUFFALO RESOURCES Lease & Well No. HEFFEL UNIT 2-1
Contractor DUKE RIG 2 Charge to BUFFALO RESOURCES
Elevation 1773 GL EST. Formation _____ L/KC "G" Effective Pay _____ Ft. Ticket No. M174
Date 06/20/2011 Sec. 1 Twp. _____ 14 S Range _____ 12 W County RUSSELL State KANSAS
Test Approved By DAVID BARKER Diamond Representative MIKE COCHRAN

Formation Test No. 2 Interval Tested from 2966 ft. to 2986 ft. Total Depth 2986 ft.
Packer Depth 2961 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.
Packer Depth 2966 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Depth of Selective Zone Set _____
Top Recorder Depth (Inside) 2948 ft. Recorder Number 8457 Cap. 10,000 P.S.I.
Bottom Recorder Depth (Outside) 2983 ft. Recorder Number 13386 Cap. 3,875 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Mud Type CHEM Viscosity 53 Drill Collar Length 0 ft. I.D. 2 1/4 in.
Weight 9.1 Water Loss 7.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 5,300 P.P.M. Drill Pipe Length 2934 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 1 Test Tool Length 32 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 20 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: GSB, BOB 14 MIN (WEAK 1/4" BB)
2nd Open: WSB, BOB 20 MIN. (VWSBB)

Recovered 80 ft. of G.I.P.
Recovered 1 ft. of CO 100% OIL GRAVITY: 39.2 @ 60 DEG
Recovered 334 ft. of MW 90% WTR 10% MUD LIGHT SCUM OF OIL
Recovered 335 ft. of TOTAL FLUID

Recovered _____ ft. of _____	PH: <u>7.0</u>	Price Job
Recovered _____ ft. of _____	CHLOR: <u>32,000 PPM</u>	Other Charges
Remarks: _____	RW: <u>.26 @ 56°</u>	Insurance
TOOL SAMPLE: _____		Total

Time Set Packer(s) 5:30 P.M. A.M. P.M. Time Started Off Bottom 8:30 P.M. A.M. P.M. Maximum Temperature 102
Initial Hydrostatic Pressure..... (A) 1415 P.S.I.
Initial Flow Period..... Minutes 30 (B) 8 P.S.I. to (C) 87 P.S.I.
Initial Closed In Period..... Minutes 60 (D) 904 P.S.I.
Final Flow Period..... Minutes 30 (E) 91 P.S.I. to (F) 162 P.S.I.
Final Closed In Period..... Minutes 60 (G) 893 P.S.I.
Final Hydrostatic Pressure..... (H) 1413 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

Pressure Survey Report

General Information

Company Name	BUFFALO RESOURCES	Job Number	M175
Well Name	HEFFEL UNIT 2-1	Representative	MIKE COCHRAN
Unique Well ID	DST#2 2890-2920 L/KC "A"	Well Operator	BUFFALO RESOURCES
Surface Location	SEC.1-14S-12W RUSSELL CO.KS.	Report Date	2011/06/20
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	DAVID BARKER
		Test Unit	NO. 1

Test Information

Test Type	CONVENTIONAL		
Formation	DST#2 2890-2920 L/KC "A"		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2011/06/21	Start Test Time	03:55:00
Final Test Date	2011/06/21	Final Test Time	08:40:00
		Well Fluid Type	01 Oil
Gauge Name	8457		
Gauge Serial Number			

Test Results

Remarks NO PACKERSEAT

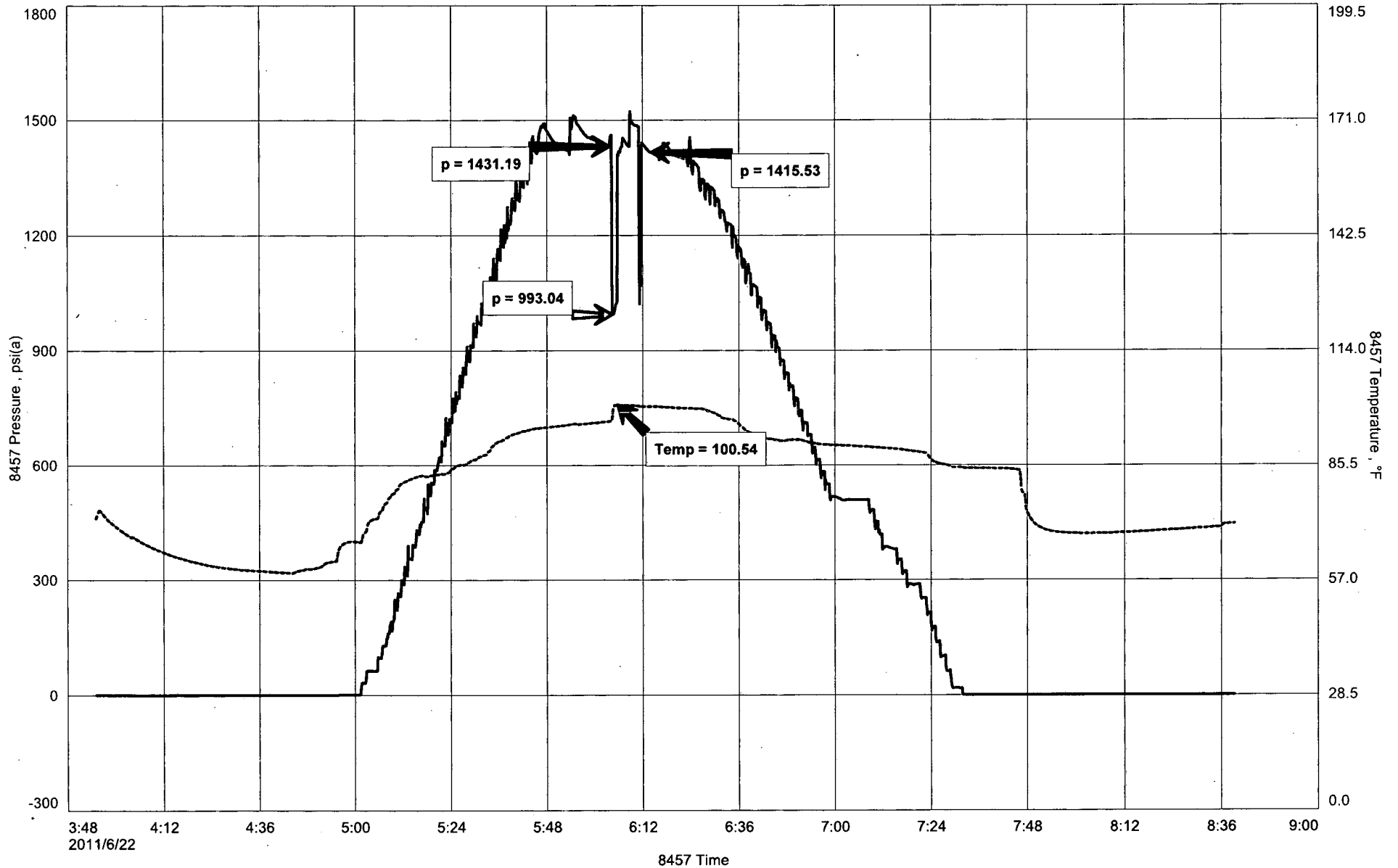
RECOVERED:
580' DM
580' TOTAL FLUID

TOOL SAMPLE: DM W/ A FEW SPOTS OF OIL

BUFFALO RESOURCES
DST#2 2890-2920 L/KC "A"
Start Test Date: 2011/06/21
Final Test Date: 2011/06/21

HEFFEL UNIT 2-1
Formation: DST#2 2890-2920 L/KC "A"
Pool: WILDCAT
Job Number: M175

HEFFEL UNIT 2-1





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: HFFLUNT DST3

TIME ON: 0355

TIME OFF: 0840

Company BUFFALO RESOURCES Lease & Well No. HEFFEL UNIT 2-1
Contractor DUKE RIG 2 Charge to BUFFALO RESOURCES
Elevation 1773 GL EST. Formation _____ L/KC "A" Effective Pay _____ Ft. Ticket No. M175
Date 06/22/2011 Sec. 1 Twp. _____ 14 S Range _____ 12 W County RUSSELL State KANSAS
Test Approved By DAVID BARKER Diamond Representative MIKE COCHRAN

Formation Test No. 3 Interval Tested from 2890 ft. to 2920 ft. Total Depth 3342 LTD ft.
Packer Depth 2885 ft. Size 6 3/4 in. Packer depth 2920 ft. Size 6 3/4 in.
Packer Depth 2890 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.
Depth of Selective Zone Set 2920

Top Recorder Depth (Inside) 2872 ft. Recorder Number 8457 Cap. 10,000 P.S.I.
Bottom Recorder Depth (Outside) 2913 ft. Recorder Number 13386 Cap. 3,875 P.S.I.
Below Straddle Recorder Depth 3339 ft. Recorder Number 6884 Cap. 6,275 P.S.I.

Mud Type CHEM Viscosity 56 Drill Collar Length 0 ft. I.D. 2 1/4 in.
Weight 9.4 Water Loss 8.0 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 5,800 P.P.M. Drill Pipe Length 2858 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 1 Test Tool Length 32 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 30 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. (422' T.P.) Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: NO PACKER SEAT

2nd Open:

Recovered <u>580</u> ft. of <u>DRLG MUD</u>	
Recovered <u>580</u> ft. of <u>TOTAL FLUID</u>	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
TOOL SAMPLE: <u>DM W/ SOME OIL SPOTS</u>	Total

Time Set Packer(s) 6:00 A.M. P.M. Time Started Off Bottom 6:15 A.M. P.M. Maximum Temperature 101
Initial Hydrostatic Pressure..... (A) 1431 P.S.I.
Initial Flow Period..... Minutes (B) 993 P.S.I. to (C) _____ P.S.I.
Initial Closed In Period..... Minutes (D) _____ P.S.I.
Final Flow Period..... Minutes (E) _____ P.S.I. to (F) _____ P.S.I.
Final Closed In Period..... Minutes (G) _____ P.S.I.
Final Hydrostatic Pressure..... (H) 1416 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.