

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

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 # 30380
Name: Hupfer Operating, Inc.
Address 1: P.O. Box 3912
Address 2: _____
City: Shawnee State: KS Zip: 66203 + 0912
Contact Person: Dennis D. Hupfer
Phone: (913) 400-3777
CONTRACTOR: License # 31548
Name: Discovery Drilling Co., Inc.
Wellsite Geologist: Jim Musgrove
Purchaser: NCRA

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 #: _____

12/3/2011	12/8/2011	12/9/2011
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 009-25,624-00-00
Spot Description: _____
 NW NE NW Sec. 5 Twp. 16 S. R. 13 East West
330 Feet from North / South Line of Section
1,510 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Barton
Lease Name: Bitter "B" Well #: 3
Field Name: Trapp
Producing Formation: Arbuckle
Elevation: Ground: 1886 Kelly Bushing: 1894
Total Depth: 3390 Plug Back Total Depth: _____
Amount of Surface Pipe Set and Cemented at: 454 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: 18,000 ppm Fluid volume: 400 bbls
Dewatering method used: Evaporation
Location of fluid disposal if hauled offsite:
Operator Name: _____
Lease Name: _____ License #: _____
Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
County: _____ Permit #: _____

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INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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.

Signature: Dennis D. Hupfer
Title: President Date: Feb 15, 12

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: DG Date: 2/28/12

Operator Name: Hupfer Operating, Inc. Lease Name: Bitter "B" Well #: 3
 Sec. 5 Twp. 16 S. R.: 13 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 Yes No
 (Attach Additional Sheets)

Samples Sent to Geological Survey Yes No

Cores Taken Yes No

Electric Log Run Yes No

Electric Log Submitted Electronically Yes No
 (If no, Submit Copy)

Name	Top	Datum
Anhydrite	857	+1037
Heebner	3001	-1107
Toronto	3017	-1123
Douglas	3031	-1137
Lansing	3073	-1179
Base K.C.	3308	-1414
Arbuckle	3324	-1430
RTD	3390	-1496

List All E. Logs Run: RAG & COMPUTER Processed interpretation.

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 Pipe	12 1/4	8 5/8	24	454	Common	200	2%Gel&3%CC
Production String	7 7/8	5 1/2	14	3384	Common	155	10%Salt-5%Gilsonite

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 (Amount and Kind of Material Used)	Depth
2	Perf. 3325 to 3327	None	3325 to 3327

TUBING RECORD:	Size: 2 7/8	Set At: 3380	Packer At:	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR. Jan. 14, 2012	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 Bbls. 45	Gas Mcf TSTM	Water Bbls. 380	Gas-Oil Ratio	Gravity 38
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input checked="" type="checkbox"/> Shut in. (If vented, Submit ACO-18.)	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled (Submit ACO-5) (Submit ACO-4)	PRODUCTION INTERVAL: 3325 to 3327 Arbuckle
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HUPFER OPERATING, INC.
BITTER #8-3
API #15-009-25,624-00-00

DST RESULTS:

DST #1 - Lansing - 3099 to 3140 - 30-30-45-60. Recovered 1 ft. clean oil and 40' WCM. ISIP 592, FSIP 596, IFP 26-42, FFP 41-51.

DST #2 - Arbuckle - 3301 to 3328. 30-30-30-30. Recovered 300' GIP, 700' clean gassy oil and 180' GMCOW. ISIP 1110, FSIP 1110, IFP 50-234, FFP 242-366.

COMPLETION: Perforate Arbuckle from 3325' to 3327', 5 total shots. 200' kick on first swab. Overnight fill 2700' with 700' clean oil on top - 50 bbl. short of load. RIH w/ tubing. Swab 12 BFPH, 40% oil. Ran down hole pump and rods. Commenced production. No Acid.
Natural.

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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

Date: 12/7/2011
 Invoice # 87

P.O.#:
 Due Date: 1/6/2012
 Division: Russell

Invoice

Contact:
 Hupfer Operating Inc
Address/Job Location:
 Hupfer Operating Inc
 P.O. Box 3912
 Shawnee, KS 66203-0912

Reference:
 BITTER B-3

Description of Work:
 SURFACE JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 991.39	No				
Common-Class A	200	\$ 2,649.14	Yes				
Bulk Truck Matl-Material Service Charge	211	\$ 458.17	No				
Calcium Chloride	7	\$ 286.22	Yes				
Pump Truck Mileage-Job to Nearest Camp	19	\$ 205.87	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	19	\$ 120.47	No				
Premium Gel (Bentonite)	4	\$ 70.70	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 4,781.96
 Discount Available ONLY if Invoice is Paid & Received
 within listed terms of invoice: \$ (717.29)

SubTotal for Taxable Items: \$ 2,555.15
 SubTotal for Non-Taxable Items: \$ 1,509.52

Total: \$ 4,064.67
 Tax: \$ 186.53

7.30% Barton County Sales Tax

Thank You For Your Business!

Amount Due: \$ 4,251.19
Applied Payments:
Balance Due: \$ 4,251.19

Past Due Invoices are subject to a service charge (annual rate of 24%)
 This does not include any applicable taxes unless it is listed.
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QUALITY OILWELL CEMENTING, INC.

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

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

No. 087

Date	12-4-11	Sec.	5	Twp.	16	Range	13	County	Barton	State	KS	On Location		Finish	12:00 PM
Lease	Bitter	Well No.	B-3	Location Russell Pioneer Rd 3/4w into Co line											
Contractor	Discovery #2						Owner								
Type Job	Surface						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.								
Hole Size	12 1/4			T.D.			454								
Csg.	8 5/8			Depth			454			Charge To Hyster Operating					
Tbg. Size				Depth			Street								
Tool				Depth			City			State					
Cement Left in Csg.	15'			Shoe Joint			The above was done to satisfaction and supervision of owner agent or contractor.								
Meas Line				Displace			28			Cement Amount Ordered 200 lbm 3% oil 2% defl					

EQUIPMENT

Pumptrk	9	No.	Cementer	Chris	Common	200
			Helper			
Bulktrk		No.	Driver	Matt	Poz. Mix	
			Driver			
Bulktrk	8	No.	Driver	Ding	Gel.	4
			Driver			
JOB SERVICES & REMARKS				Calcium 7		

Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
8 5/8 on bottom. Best Circulation	Sand
Mix basic Displace	Handling 211
Cement Checked	Mileage

FLOAT EQUIPMENT

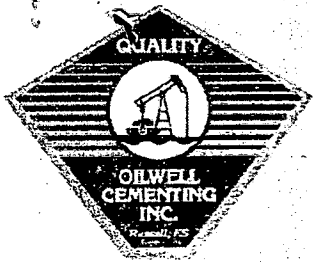
Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	

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Signature	Thanks!	Pumptrk Charge	Surface	Tax	
		Mileage	19	Discount	
		Total Charge			



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

Date: 12/14/2011
 Invoice # 194
 P.O.#:
 Due Date: 1/13/2012
 Division: Russell

Invoice

Contact:
 Hupfer Operating Inc
Address/Job Location:
 Hupfer Operating Inc
 P.O. Box 3912
 Shawnee, KS 66203-0912

Reference:
 BITTER B-3

Description of Work:
 PROD LONG STRING

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 1,020.55	No	Bulk Truck Mileage-Job to Nearest Bulk Plant	19	\$124.01	No
Common-Class A	200	\$ 2,727.06	Yes	5 1/2" Top Rubber Plug	1	\$69.29	Yes
Gilsonite	1000	\$ 1,676.47	Yes				
Bulk Truck Matl-Material Service Charge	228	\$ 509.65	No				
Mud Clear	500	\$ 413.53	Yes				
5 1/2" Turbolizer	5	\$ 324.12	Yes				
Salt (Fine)	18	\$ 280.84	Yes				
5 1/2" Basket	1	\$ 257.06	Yes				
Pump Truck Mileage-Job to Nearest Camp	19	\$ 211.93	No				
5 1/2" AFU Insert	1	\$ 178.82	Yes				
5 1/2" Regular Guide Shoes	1	\$ 160.94	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 7,954.27
Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (1,193.14)

SubTotal for Taxable Items: \$ 5,174.92
 SubTotal for Non-Taxable Items: \$ 1,586.22

7.30% Barton County Sales Tax

Total: \$ 6,761.13
 Tax: \$ 377.77

Thank You For Your Business!

Amount Due: \$ 7,138.90
Applied Payments:
Balance Due: \$ 7,138.90

Past Due Invoices are subject to a service charge (annual rate of 24%)
 This does not include any applicable taxes unless it is listed.
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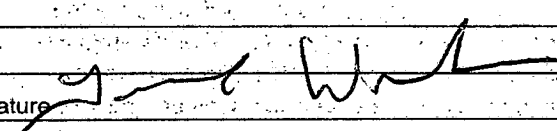
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QUALITY OILWELL CEMENTING, INC.

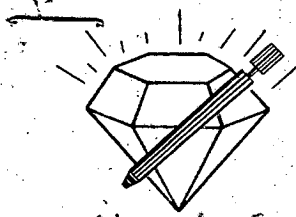
Phone 785-483-2025
Cell 785-324-1041

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

No. 194

Date	12-9-11	Sec.	5	Twp.	16	Range	13	County	Barton	State	Ks	On Location		Finish	7:30 AM
Lease	Bitter			Weil No.	B-3			Location	BT + Russell Co. Line, 3 1/2 E, S/into						
Contractor	Discovery #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	Production							Charge To	Hupfes oil						
Hole Size	7 7/8"			T.D.	3390'			Depth	33841						
Csg.	5 1/2" New 14#			Depth											
Tbg. Size				Depth											
Tool				Depth											
Cement Left in Csg.	42.15'			Shoe Joint	42.15'			The above was done to satisfaction and supervision of owner agent or contractor.							
Meas Line				Displace	81 1/2 BLS			Cement Amount Ordered	2cb 5x Common 10% Salt. 5% Gilsomite, - 500 gal Mud Clear 48.						
EQUIPMENT															
Pumptrk	1	No.	Cement	Helper	Cisco										
Bulktrk	8	No.	Driver	Mike											
Bulktrk	p.w.	No.	Driver	Rick											
JOB SERVICES & REMARKS															
Remarks:	<p>Rat Hole 30 SX</p> <p>Mouse Hole 15 SX</p> <p>Centralizers 1/2, 5, 9</p> <p>Baskets 3</p> <p>pipe on bottom, break Circulation, pump 500 gal Mud Clear 48 plug Babbler w/ 30 SX plug Mousehole w/ 15 SX Cement 5 1/2" Casing with 155 SX Common 10% Salt, 5% Gilsomite. Shut down, wash pump + lines Released plug + Displaced with 8 1/2 BLS Released a Float held</p> <p>Lift pressure 700 # Land plug to 1200 #</p>														
Calcium															
Hulls															
Salt	18														
Flowseal															
Kol-Seal	1000#														
Mud CLR 48	500 gal														
CFL-117 or CD110 CAF 38															
Sand															
Handling	228														
Mileage															
FLOAT EQUIPMENT															
Guide Shoe	1														
Centralizer	5														
Baskets	1														
AFU Inserts	1														
Float Shoe															
Latch Down	1- Rubber plug														
Pumptrk Charge	prod Long String														
Mileage	19														
Tax															
Discount															
Total Charge															
X Signature															

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DIAMOND TESTING
 P.O. Box 157
 HOISINGTON, KANSAS 67544
 (800) 542-7313

TIME ON: 06:00 12/7/11
 TIME OFF: 13:40 12/7/11

DRILL-STEM TEST TICKET
 FILE: STC/BURT/HP-30571

Company HOPFER OPERATING Lease & Well No. BITTER B-3
 Contractor DISCOVERY RILL Charge to HOPFER OPERATING
 Elevation _____ Formation LANA A-B Effective Pay _____ Ft. Ticket No. D1071
 Date 12/7/11 Sec. 5 Twp. 16 S Range 13 W County BARTON State KANSAS
 Test Approved By JIM MUSGROVE Diamond Representative JOHN C. RIEDL

Formation Test No. 1 Interval Tested from 3099 ft. to 3140 ft. Total Depth 3140 ft.
 Packer Depth 3094 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Packer Depth 3099 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____
 Top Recorder Depth (Inside) 3102 ft. Recorder Number 6000 Cap. 6000 P.S.I.
 Bottom Recorder Depth (Outside) 3137 ft. Recorder Number 11073 Cap. 4000 P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 51 Drill Collar Length 30 ft. I.D. 2 1/4 in.
 Weight 9.3 Water Loss 8.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
 Chlorides 3000 P.P.M. Drill Pipe Length 3049 ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number NOT USED Test Tool Length 20 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? NO Reversed Out NO Anchor Length 41 ft. Size 4 1/2-FH in.
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WEAK (2") NO BB
 2nd Open: WEAK (3") NO BB

Recovered 20 ft. of GAS IN PIPE
 Recovered 1 ft. of CLEAN OIL
 Recovered 40 ft. of WCM (25% WATER 75% MUD)

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Recovered _____ ft. of _____	Price Job <u>KCC WICHITA</u>
Recovered _____ ft. of _____	Other Charges _____
Remarks: _____	Insurance _____
	FROM HOME <u>6</u> TO HOME <u>6</u>
	Total TOTAL MILES <u>12</u>

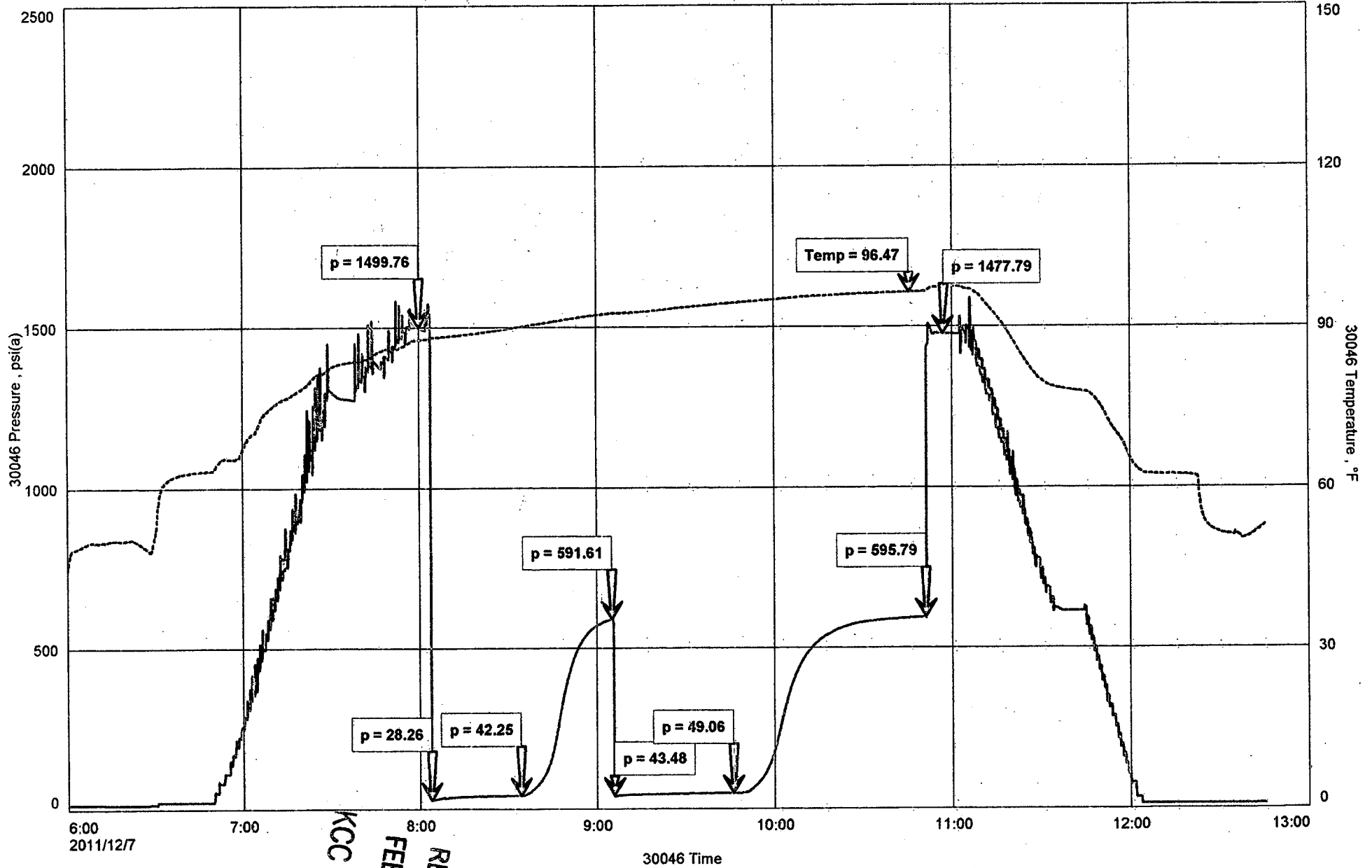
Time Set Packer(s) 9:05 ^(A.M.) P.M. Time Started Off Bottom 11:50 ^(A.M.) P.M. Maximum Temperature 80
 Initial Hydrostatic Pressure..... (A) 1500 P.S.I.
 Initial Flow Period..... Minutes 30 (B) 26 P.S.I. to (C) 42 P.S.I.
 Initial Closed In Period..... Minutes 30 (D) 592 P.S.I.
 Final Flow Period..... Minutes 45 (E) 41 P.S.I. to (F) 50 P.S.I.
 Final Closed In Period..... Minutes 60 (G) 596 P.S.I.
 Final Hydrostatic Pressure..... (H) 1478 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.

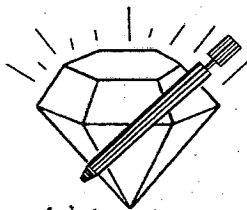
HUPFER OPERATING
Start Test Date: 2011/12/07
Final Test Date: 2011/12/07

Formation: LANS...
Job Number: L...

BITTER B-3



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DIAMOND TESTING
 P.O. Box 157
 HOISINGTON, KANSAS 67544
 (800) 542-7313

TIME ON: 04:00 12/19/11
 TIME OFF: 11:30 12/19/11

DRILL-STEM TEST TICKET

FILE: STC/BITTERROOTS/2

Company HUFFER OPERATIONS Lease & Well No. RITLER D-3
 Contractor DISCOVERY RIG 2 Charge to HUFFER OPERATIONS
 Elevation 1886.66 Formation ARBUCKLE Effective Pay _____ Ft. Ticket No. 1072
 Date 12/19/11 Sec. E Twp. 16 S Range 13 W County BARTON State KANSAS
 Test Approved By JIM MISERAVE Diamond Representative JOHN C. RIEDL

Formation Test No. 2 Interval Tested from 3301 ft. to 3328 ft. Total Depth 3328 ft.
 Packer Depth 3296 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Packer Depth 3301 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3384 ft. Recorder Number 30046 Cap. 6000 P.S.I.
 Bottom Recorder Depth (Outside) 3325 ft. Recorder Number 11023 Cap. 4000 P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.
 Mud Type CHALK Viscosity 51 Drill Collar Length 30 ft. I.D. 2 1/4 in.
 Weight 9.3 Water Loss 8.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
 Chlorides 3,000 P.P.M. Drill Pipe Length 3251 ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number N17 15000 Test Tool Length 20 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 in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: STRONG (B.O.B 2 MIN)
 2nd Open: STRONG (B.O.B 7 MIN)

Recovered 300 ft. of GAS IN PIPE
 Recovered 700 ft. of GOC (10% GAS 90% OIL) 37 GRAVITY
 Recovered 100 ft. of WATER (24,000 PPM)

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Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Recovered _____ ft. of _____	Insurance
Remarks: _____	FRM HUFF 4 FD HUFF 2
	Total <u>TOTAL 400 12</u>

Time Set Packer(s) 5:45 ^(A.M.) P.M. Time Started Off Bottom 7:30 ^(A.M.) P.M. Maximum Temperature 112^o
 Initial Hydrostatic Pressure..... (A) 1600 P.S.I.
 Initial Flow Period..... Minutes 30 (B) 50 P.S.I. to (C) 234 P.S.I.
 Initial Closed In Period..... Minutes 30 (D) 1110 P.S.I.
 Final Flow Period..... Minutes 30 (E) 242 P.S.I. to (F) 366 P.S.I.
 Final Closed In Period..... Minutes 30 (G) 1110 P.S.I.
 Final Hydrostatic Pressure..... (H) 1593 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.

HUPFER OPERATING
Start Test Date: 2011/12/08
Final Test Date: 2011/12/08

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