

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: Kurt Talbott  
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 #: \_\_\_\_\_

<u>9/12/2011</u>	<u>9/18/2011</u>	<u>9/19/2011</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 009-25,601-00-00  
Spot Description: \_\_\_\_\_  
NE NW SE Sec. 32 Twp. 19 S. R. 11  East  West  
2,005 Feet from  North /  South Line of Section  
1,520 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE     NW     SE     SW  
County: Barton  
Lease Name: Knop "A" Well #: 1  
Field Name: Chase-Silica  
Producing Formation: LKC  
Elevation: Ground: 1850 Kelly Bushing: 1858  
Total Depth: 3350 Plug Back Total Depth: \_\_\_\_\_  
Amount of Surface Pipe Set and Cemented at: 263.08 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: 320 bbls  
Dewatering method used: Hauled free fluids  
Location of fluid disposal if hauled offsite: \_\_\_\_\_  
Operator Name: Bob's Oil Service, Inc.  
Lease Name: Sieker(SWD) License #: 32408  
Quarter NW/4 Sec. 35 Twp. 19S S. R. 11W  East  West  
County: Barton Permit #: D-26145

**NOV 28 2011**

**KCC WICHITA**

**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: 11-25-11

**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: DJG Date: 12/1/11

Operator Name: Hupfer Operating, Inc. Lease Name: Knop "A" Well #: 1  
 Sec. 32 Twp. 19 S. R. 11  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 <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: <u>Radiation Guard, Computer Interpretation, Cement Bond</u>	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  <table style="width:100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">Name</th> <th style="text-align: left;">Top</th> <th style="text-align: left;">Datum</th> </tr> <tr> <td>Anhydrite</td> <td>543</td> <td>+1245</td> </tr> <tr> <td>Topeka</td> <td>22667</td> <td>- 879</td> </tr> <tr> <td>Heebner</td> <td>2930</td> <td>-1142</td> </tr> <tr> <td>Toronto</td> <td>2952</td> <td>-1164</td> </tr> <tr> <td>Douglas Shale</td> <td>2962</td> <td>-1174</td> </tr> <tr> <td>Brown Lime</td> <td>3052</td> <td>-1264</td> </tr> <tr> <td>Lansing</td> <td>3070</td> <td>-1282</td> </tr> <tr> <td>Arbuckle</td> <td>3333</td> <td>-1545</td> </tr> <tr> <td>RTD</td> <td>3350</td> <td>-1562</td> </tr> </table>	Name	Top	Datum	Anhydrite	543	+1245	Topeka	22667	- 879	Heebner	2930	-1142	Toronto	2952	-1164	Douglas Shale	2962	-1174	Brown Lime	3052	-1264	Lansing	3070	-1282	Arbuckle	3333	-1545	RTD	3350	-1562
Name	Top	Datum																													
Anhydrite	543	+1245																													
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Arbuckle	3333	-1545																													
RTD	3350	-1562																													

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	23	263.08	Common	200	2%Gel&3%CC
Production String	7 7/8	5 1/2	14	3333	QPRO-C	135	10%Salt-5%Gilonite

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
	Arbuckle Open Hole	500 gal. 15% mud acid 3333 to 3356	
	Bridge Plug over Arbuckle @ 3318'.		
4 holes/ft.	Perf. Lansing "J" zone	800 gals. 15% mud acid 3242 to 3252	
4 holes /ft.	Perf. Lansing "E" zone	600 gals. 15% mud acid 3126 to 3130	
4 holes/ft.	Perf. Lansing "B" & "A" zones	1400 gals. 15% mud acid 3088 to 3092 & 3072 to 3078	

TUBING RECORD: Size: <u>2-7/8</u> Set At: <u>3310</u> Packer At: <u> </u>	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Date of First, Resumed Production, SWD or ENHR: <u>October 16, 2011</u>		Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) <u> </u>
Estimated Production Per 24 Hours: Oil <u>100</u> Bbls. Gas <u>TSTM</u> Mcf Water <u>35</u> Bbls. Gas-Oil Ratio <u> </u> Gravity <u>40°</u>		

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input checked="" type="checkbox"/> <b>Shut-In</b> 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) (Submit ACO-4)</i>	PRODUCTION INTERVAL: <u>Lansing</u> <u>3242 to 3252</u> <u>3126 to 3130</u> <u>3088 to 3092</u>
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202 3072 to 3078 "A"

HUPFER OPERATING, INC.

KNOP A-1 API #15-009, 25,601-00-00

NE-NW-SE Sec 32-19-11W, Barton Co.

DST #1: Douglas Sand 2961' to 3010'. Miss Run.

DST #2: Douglas Sand 2961' to 3010'. 30-30-30-30. Recovered 30' oil specked mud.  
ISIP 122, FSIP 72, IFP 29-35, FFP 36-40.

DST #3: Lansing - 3058' to 3150'. 30-30-45-60. GTS 25 minutes. Gauge 4 MCFD.  
Recovered 1900' mud cut gassy oil, 3% mud, 45% gas, 52% oil, 200'  
gassy water. ISIP 834, FSIP 835, IFP 242-533, FFP 547-713.

Arbuckle - ~~Completion - 3333' to 3350'~~ Open Hole. Acidize w/ 500 gal. mud acid/  
Swab 25 BFPH, 12% to 22% oil. Set Bridge Plug @ 3318'. Perforate Lansing  
"G" 3242' to 3252' - 800 gals. 15% mud acid.

Perforate Lansing "E" 3126' to 3130', 600 gals. 15% mud acid.

Perforate Lansing "B" 3088' to 3092', 1400 gals. 15% mud acid.

Perforate Lansing "A" 3072' to 3078',

Swab all Lansing zones together. Swab 27 BFPH - 70% oil. P.O.P.

DST #4: 3330- to 3350'. 30-30-45-60. Recovered 60' gassy oil, 10% gas, 90% oil,  
90' SOCW, 5% oil, 95% water. ISIP 1063, FSIP 1087, IFP 36-62, FFP 66-95.

RECEIVED

NOV 28 2011

KCC WICHITA



**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: 9/22/2011  
 Invoice # 6163  
 P.O.#:  
 Due Date: 10/22/2011  
 Division: Russell

# Invoice

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

**Reference:**  
 KNOP A-1

**Description of Work:**  
 PROD LONG STRING

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 991.39	No	Bulk Truck Mileage-Job to Nearest Bulk Plant	14	\$88.77	No
Pro-C Cement	180	\$ 3,322.29	Yes				
Gilsonite	900	\$ 1,465.71	Yes				
Material Rubber Cementing Shoe Packer Type, 5 1/2"	1	\$ 1,444.00	Yes				
Bulk Truck Mat-Material Service Charge	205	\$ 445.14	No				
Mud Clear	500	\$ 401.71	Yes				
5 1/2" Turbolizer	6	\$ 377.83	Yes				
5 1/2" Basket	1	\$ 249.71	Yes				
Latch Down Plug & Baffle, 5 1/2"	1	\$ 243.20	Yes				
Salt (Fine)	16	\$ 242.51	Yes				
Pump Truck Mileage-Job to Nearest Camp	14	\$ 151.70	No				

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**Invoice Terms:**

Net 30

Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (1,413.59)

SubTotal: \$ 9,423.96

SubTotal for Taxable Items: \$ 6,584.92

SubTotal for Non-Taxable Items: \$ 1,425.45

Total: \$ 8,010.36

Tax: \$ 480.70

7.30% Barton County Sales Tax

Amount Due: \$ 8,491.06

Applied Payments:

Balance Due: \$ 8,491.06

**Thank You For Your Business!**

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. 5163

Date	9-18-11	Sec.	32	Twp.	19	Range	11	County	Barton	State	Ks	On Location		Finish	3:45 pm
Lease	Knop		Well No.	A-1		Location Ellinwood Ks - 1E, 1/2N, 1/2W									
Contractor	Discovery #4					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 Hupfer oil									
Hole Size	7 7/8"		T.D.	3350'		Cement Left in Csg 21.24'									
Csg.	1 1/2" 5 1/2"		Depth	3335.78'		Shoe Joint 21.24'									
Tbg. Size			Depth			Displace 80 BLS									
Tool			Depth			Cement Amount Ordered 180sx Pro-C 10% Salt, 5% Gilsomite									
Cement Left in Csg	21.24'		Shoe Joint	21.24'		The above was done to satisfaction and supervision of owner agent or contractor.									
Meas Line			Displace	80 BLS		Cement Amount Ordered 180sx Pro-C 10% Salt, 5% Gilsomite									

**EQUIPMENT**

Pumptrk	1	No.	Cementer	Cisco	500 gal mud Clear 48
			Helper		Common 180 pro-C
Bulktrk	8	No.	Driver	Doug	Poz. Mix
			Driver		
Bulktrk		No.	Driver	Rick	Gel.
			Driver		

**JOB SERVICES & REMARKS**

Remarks:	Calcium
Rat Hole 30 SX	Hulls
Mouse Hole 15 SX	Salt 16
Centralizers 1, 3, 5, 7, 9, 11	Flowseal
Baskets 6	Kol-Seal 900#
D/V or Port Collar	Mud CLR 48 500 gal
	CFL-117 or CD110 CAF 38

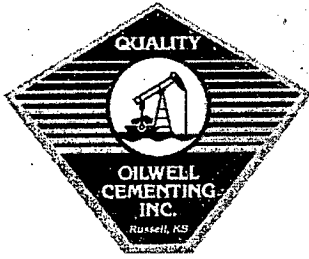
pipe on bottom, break Circulate  
 Set packer shoe, Circulate  
 10 mins, pump 500 gal mud  
 Clear 48', Plug Rathole, plug  
 manhole, mix cement down  
 5 1/2" casing; shut down, wash  
 pump + lines, Released plug +  
 Displaced with 80 BLS of  
 water. Land plug 1200#  
 Lift pressure 200#  
 Released + held.

Handling	205
Mileage	
<b>FLOAT EQUIPMENT</b>	
Guide Shoe	
Centralizer	6 - turbo's
Baskets	1
AFU Inserts	
Float Shoe	
Latch Down	1
	1 - Packer shoe
Pumptrk Charge	prod Long String
Mileage	14

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X Signature *Michael D. Sanchez*

Tax  
 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: 9/15/2011  
 Invoice # 5154

P.O.#:  
 Due Date: 10/15/2011  
 Division: Russell

# Invoice

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

**Reference:**  
 KNOP A-1

**Description of Work:**  
 SURFACE JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 937.80	No				
Common-Class A	200	\$ 2,505.95	Yes				
Bulk Truck Mat-Material Service Charge	211	\$ 433.41	No				
Calcium Chloride	7	\$ 270.74	Yes				
Pump Truck Mileage-Job to Nearest Camp	14	\$ 143.50	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	14	\$ 83.97	No				
Premium Gel (Bentonite)	4	\$ 66.88	Yes				

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**Invoice Terms:**

Net 30

SubTotal: \$ 4,442.24  
 Discount Available ONLY if Invoice is Paid & Received  
 within listed terms of invoice: \$ (666.34)

SubTotal for Taxable Items: \$ 2,417.04  
 SubTotal for Non-Taxable Items: \$ 1,358.87

7.30% Barton County Sales Tax

Total: \$ 3,775.90  
 Tax: \$ 176.44  
 Amount Due: \$ 3,952.35  
 Applied Payments:  
 Balance Due: \$ 3,952.35

**Thank You For Your Business!**

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 67603

No. 5154

Date	9-13-11	Sec.	32	Twp.	19	Range	11	County	Barton	State	Ks	On Location		Finish	4:30 AM
Lease	Knop	Well No.	A-1		Location Ellinwood, Ks - 1E, 2N, W/4										
Contractor	Discovery #4							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.		263'		Charge To <del>Hubbs</del> Hubbs Operating								
Csg.	8 5/8"		Depth		263'		Street								
Tbg. Size			Depth				City								
Tool			Depth				State								
Cement Left in Csg.	15'		Shoe Joint		15'		The above was done to satisfaction and supervision of owner agent or contractor.								
Meas Line			Displace		15 3/4 BLS		Cement Amount Ordered 200 sx Common 3% CC								

### EQUIPMENT

Pumptrk	1	No.	Cementer	Cisto	2% Gel
			Helper		Common 200
Bulktrk	14	No.	Driver	Brian S.	Poz. Mix
			Driver		Gel. 4
Bulktrk	pu.	No.	Driver	Rick	Calcium 7
			Driver		

### JOB SERVICES & REMARKS

Remarks:	Cement did Circulate.	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
		Sand
		Handling 211
		Mileage

### FLOAT EQUIPMENT

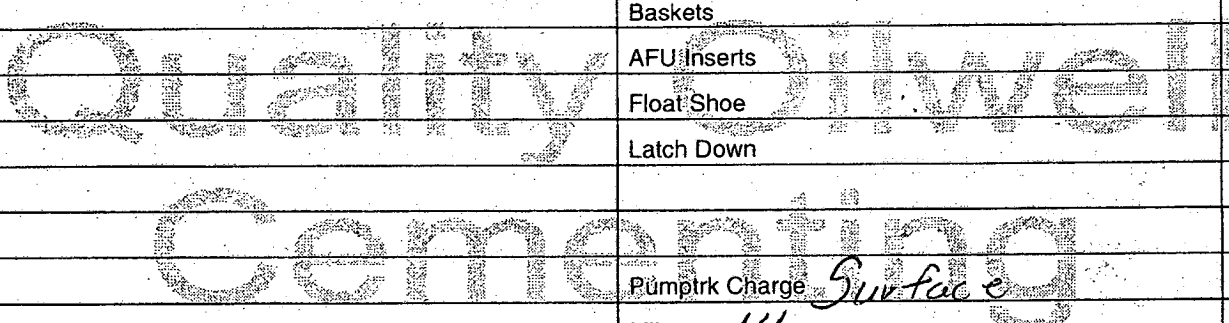
Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	

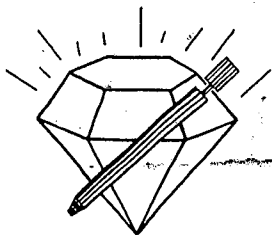
Pumptrk Charge Surface  
Mileage 14

Tax  
Discount  
Total Charge

X Signature *Michael D. ...*

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# DIAMOND TESTING

P.O. Box 157

HOISINGTON, KANSAS 67544

(620) 653-7550 • (800) 542-7313

STC 30046.D1013

Company Hupfer Operating, Inc. Lease & Well No. Knop No. A-1

Elevation 1788 KB Formation Douglas Sand Effective Pay -- Ft. Ticket No. J2808

Date 9-16-11 Sec. 32 Twp. 19S Range 11W County Barton State Kansas

Test Approved By Kurt Talbott Diamond Representative John C. Riedl

Formation Test No. 1 Interval Tested from 2,961 ft. to 3,010 ft. Total Depth 3,010 ft.

Packer Depth 2,956 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 2,961 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 2,964 ft. Recorder Number 30046 Cap. 6,000 psi

Bottom Recorder Depth (Outside) 3,007 ft. Recorder Number 11073 Cap. 4,000 psi

Below Straddle Recorder Depth ft. Recorder Number psi

Drilling Contractor Discovery Drilling - Rig 4 Drill Collar Length 30 ft. I.D. 2 1/4 in.

Mud Type Chemical Viscosity 51 Weight Pipe Length -- ft. I.D. -- in.

Weight 8.7 Water Loss 10.4 cc. Drill Pipe Length 2,911 ft. I.D. 3 1/2 in.

Chlorides 1,800 P.P.M. Test Tool Length 20 ft. Tool Size 3 1/2 - IF in.

Jars: Make Sterling Serial Number Not Run Anchor Length 49 ft. Size 4 1/2 - FH in.

Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 - XH in.

Blow: 1st Open: MISRUN! Couldn't get to bottom with tool approximately 15 ft. off bottom.

2nd Open: N/A

Recovered 500 ft. of drilling mud = 6.835700 bbls.

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks

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Time Set Packer(s) 4:20 ~~P.M.~~ <sup>A.M.</sup> Time Started Off Bottom 4:25 ~~P.M.~~ <sup>A.M.</sup> Maximum Temperature 93°

Initial Hydrostatic Pressure ..... (A) 1394 P.S.I.

Initial Flow Period ..... Minutes 5 (B) -- P.S.I. to (C) -- P.S.I.

Initial Closed In Period ..... Minutes 0 (D) -- 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.

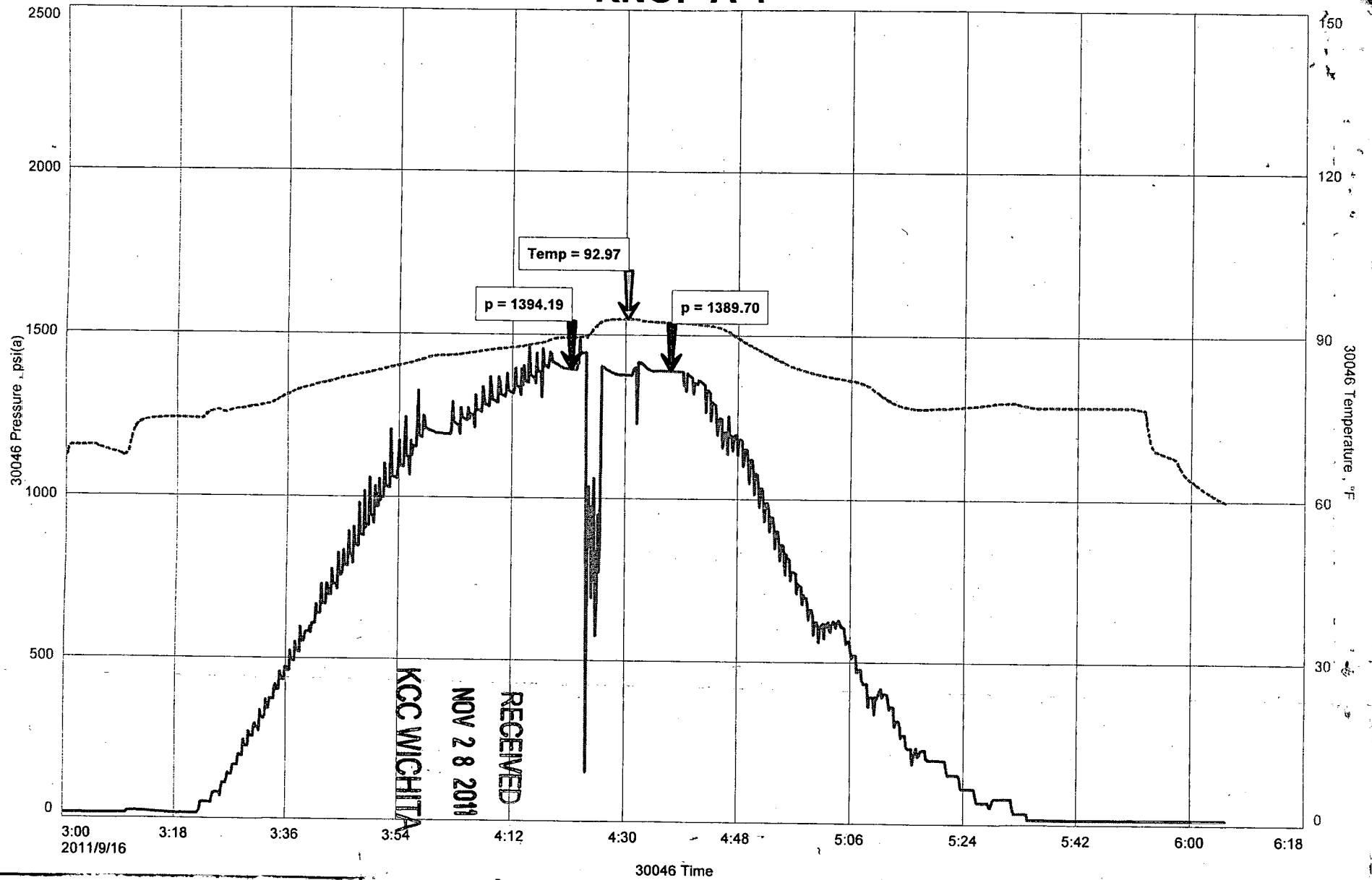
Final Hydrostatic Pressure ..... (H) 1390 P.S.I.



HUPFER OPERATING INC  
Start Test Date: 2011/09/16  
Final Test Date: 2011/09/16

KNOP A-1  
Formation: DOUGLAS SAND  
Job Number: D1013

# KNOP A-1





**DIAMOND TESTING**  
 P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
 (620) 653-7550 • (800) 542-7313  
 STC 30046.D1014

Company Hupfer Operating, Inc. Lease & Well No. Knop No. A-1  
 Elevation 1788 KB Formation Conglomerate Sand Effective Pay      Ft. Ticket No. J2809  
 Date 9-16-11 Sec. 32 Twp. 19S Range 11W County Barton State Kansas  
 Test Approved By Kurt Talbott Diamond Representative John C. Riedl

Formation Test No. 2 Interval Tested from 2,961 ft. to 3,010 ft. Total Depth 3,010 ft.  
 Packer Depth 2,956 ft. Size 6 3/4 in. Packer Depth      ft. Size      in.  
 Packer Depth 2,961 ft. Size 6 3/4 in. Packer Depth      ft. Size      in.  
 Depth of Selective Zone Set      ft.

Top Recorder Depth (Inside) 2,964 ft. Recorder Number 30046 Cap. 6,000 psi  
 Bottom Recorder Depth (Outside) 3,007 ft. Recorder Number 11073 Cap. 4,000 psi  
 Below Straddle Recorder Depth      ft. Recorder Number      Cap.      psi

Drilling Contractor Discovery Drilling - Rig 4 Drill Collar Length 30 ft. I.D. 2 1/4 in.  
 Mud Type Chemical Viscosity 51 Weight Pipe Length      ft. I.D.      in.  
 Weight 8.7 Water Loss 10.4 cc. Drill Pipe Length 2,911 ft. I.D. 3 1/2 in.  
 Chlorides 1,800 P.P.M. Test Tool Length 20 ft. Tool Size 3 1/2 - IF in.  
 Jars: Make Sterling Serial Number Not Run Anchor Length 49 ft. Size 4 1/2 - FH in.  
 Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8 in.  
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 - XH in.

Blow: 1st Open: Weak, 1/2 in., blow. Dead in 25 mins. No blow back during shut-in.  
2nd Open: Very weak, 1/8 in., blow throughout. No blow back during shut-in.

Recovered 30 ft. of oil specked mud = .147600 bbls.

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**NOV 28 2011**  
**KCC WICHITA**

Recovered      ft. of       
 Recovered      ft. of       
 Recovered      ft. of       
 Recovered      ft. of     

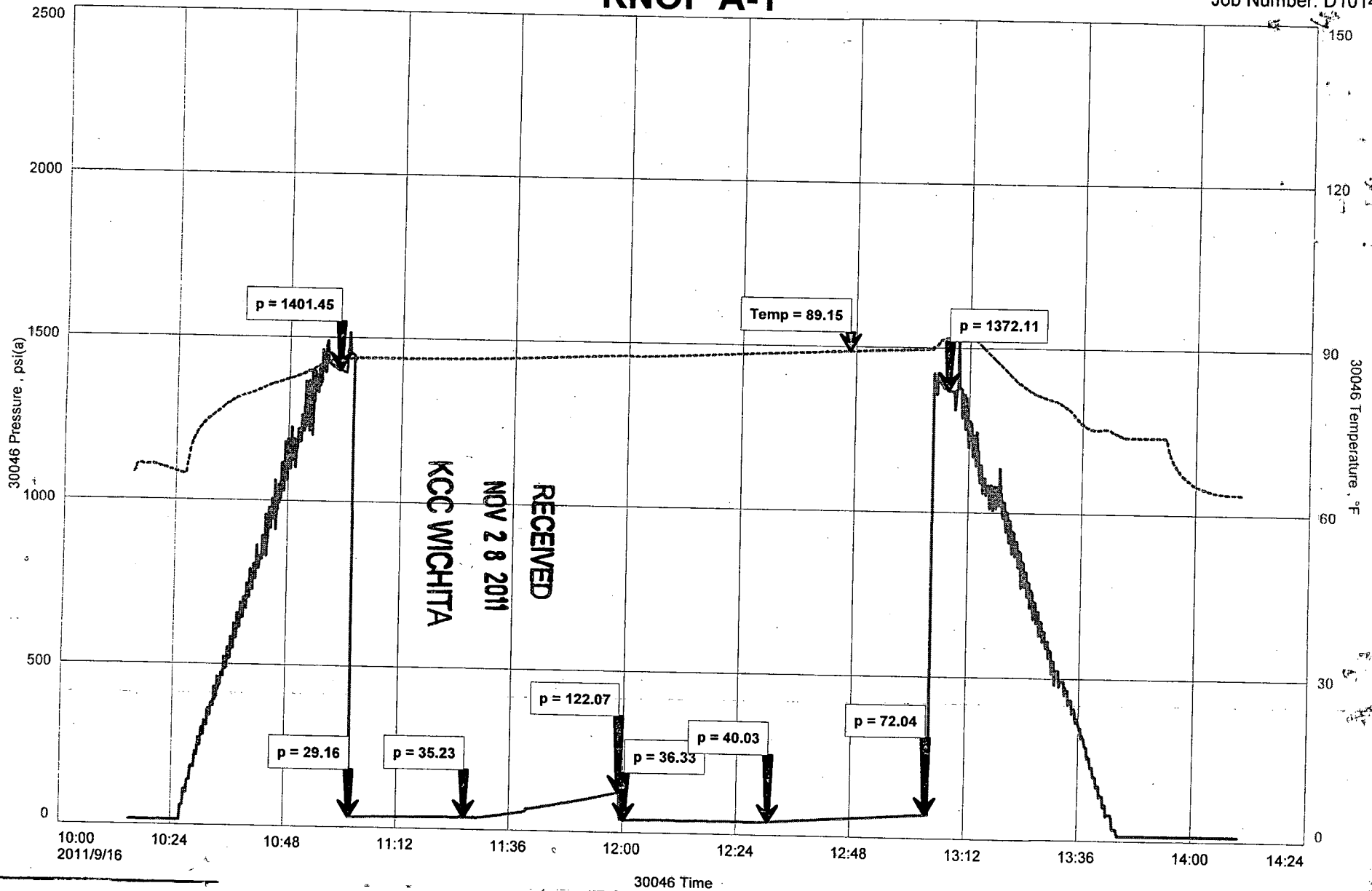
Remarks     

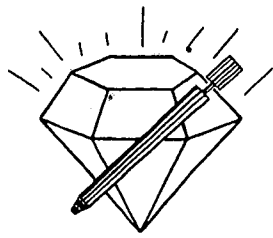
Time Set Packer(s) 10:00 ~~XXX~~ <sup>A.M.</sup> Time Started Off Bottom 12:00  <sup>XXM.</sup> P.M. Maximum Temperature 89°  
 Initial Hydrostatic Pressure ..... (A) 1401 P.S.I.  
 Initial Flow Period ..... Minutes 30 (B) 29 P.S.I. to (C) 35 P.S.I.  
 Initial Closed In Period ..... Minutes 30 (D) 122 P.S.I.  
 Final Flow Period ..... Minutes 30 (E) 36 P.S.I. to (F) 40 P.S.I.  
 Final Closed In Period ..... Minutes 30 (G) 72 P.S.I.  
 Final Hydrostatic Pressure ..... (H) 1372 P.S.I.

HUPFER OPERATING INC  
Start Test Date: 2011/09/16  
Final Test Date: 2011/09/16

KNOP A-1  
Formation: CONG SAND  
Job Number: D1014

# KNOP A-1





# DIAMOND TESTING

P.O. Box 157

HOISINGTON, KANSAS 67544

(620) 653-7550 • (800) 542-7313  
STC 30046.D1015

Company Hupfer Operating, Inc. Lease & Well No. Knop No. A-1

Elevation 1788 KB Formation Lansing/Kansas City Effective Pay -- Ft. Ticket No. J2810

Date 9-17-11 Sec. 32 Twp. 19S Range 11W County Barton State Kansas

Test Approved By Kurt Talbott Diamond Representative John C. Riedl

Formation Test No. 3 Interval Tested from 3,058 ft. to 3,150 ft. Total Depth 3,150 ft.

Packer Depth 3,053 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 3,058 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set          ft.

Top Recorder Depth (Inside) 3,061 ft. Recorder Number 30046 Cap. 6,000 psi

Bottom Recorder Depth (Outside) 3,147 ft. Recorder Number 11073 Cap. 4,000 psi

Below Straddle Recorder Depth          ft. Recorder Number          Cap.          psi

Drilling Contractor Discovery Drilling - Rig 4 Drill Collar Length 30 ft. I.D. 2 1/4 in.

Mud Type Chemical Viscosity 60 Weight Pipe Length -- ft. I.D. -- in.

Weight 8.9 Water Loss 8.8 cc. Drill Pipe Length 3,008 ft. I.D. 3 1/2 in.

Chlorides 6,800 P.P.M. Test Tool Length 20 ft. Tool Size 3 1/2 - IF in.

Jars: Make Sterling Serial Number Not Run Anchor Length 92 ft. Size 4 1/2 - FH in.

Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 - XH in.

Blow: 1st Open: Strong blow. Off bottom of bucket in 1 min. Gas to surface in 25 mins. Strong blow back during shut-in.  
2nd Open: Strong blow. Gas to surface throughout. Guaged 4 MCF/D. Strong blow back during shut-in.

Recovered 1,900 ft. of slightly mud cut gassy oil = 27.037000 bbls. (Grind out: 3%-mud; 45%-gas; 52%-oil)

Recovered 200 ft. of gassy water = 2.566700 bbls. (Grind out: 10%-gas; 90%-water) Chlorides: 55,000 Ppm

Recovered 2,100 ft. of TOTAL FLUID = 29.603700 bbls.

Recovered          ft. of         

Recovered          ft. of         

Remarks         

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NOV 28 2011

KCC WICHITA

Time Set Packer(s) 12:00 ~~P.M.~~ <sup>A.M.</sup> Time Started Off Bottom 2:45 ~~P.M.~~ <sup>A.M.</sup> Maximum Temperature 107°

Initial Hydrostatic Pressure ..... (A) 1444 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 242 P.S.I. to (C) 532 P.S.I.

Initial Closed In Period ..... Minutes 30 (D) 834 P.S.I.

Final Flow Period ..... Minutes 45 (E) 547 P.S.I. to (F) 713 P.S.I.

Final Closed In Period ..... Minutes 60 (G) 835 P.S.I.

Final Hydrostatic Pressure ..... (H) 1440 P.S.I.

## GENERAL INFORMATION

### Client Information:

Company: HUPFER OPERATING INC

Contact: DENNIS HUPFER

Phone: Fax: e-mail:

### Site Information:

Contact: KURT TALBOTT

Phone: Fax: e-mail:

### Well Information:

Name: KNOP A-1

Operator: HUPFER OPERATING INC

Location-Downhole:

Location-Surface: S32/19S/11W

### Test Information:

Company: DIAMOND TESTING

Representative: JOHN RIEDL

Supervisor: KURT TALBOTT

Test Type: CONVENTIONAL

Job Number: D1015

Test Unit:

Start Date: 2011/09/16

Start Time: 22:30:00

End Date: 2011/09/17

End Time: 05:30:00

Report Date: 2011/09/17

Prepared By: JOHN RIEDL

### Remarks:

Qualified By: KURT TALBOTT

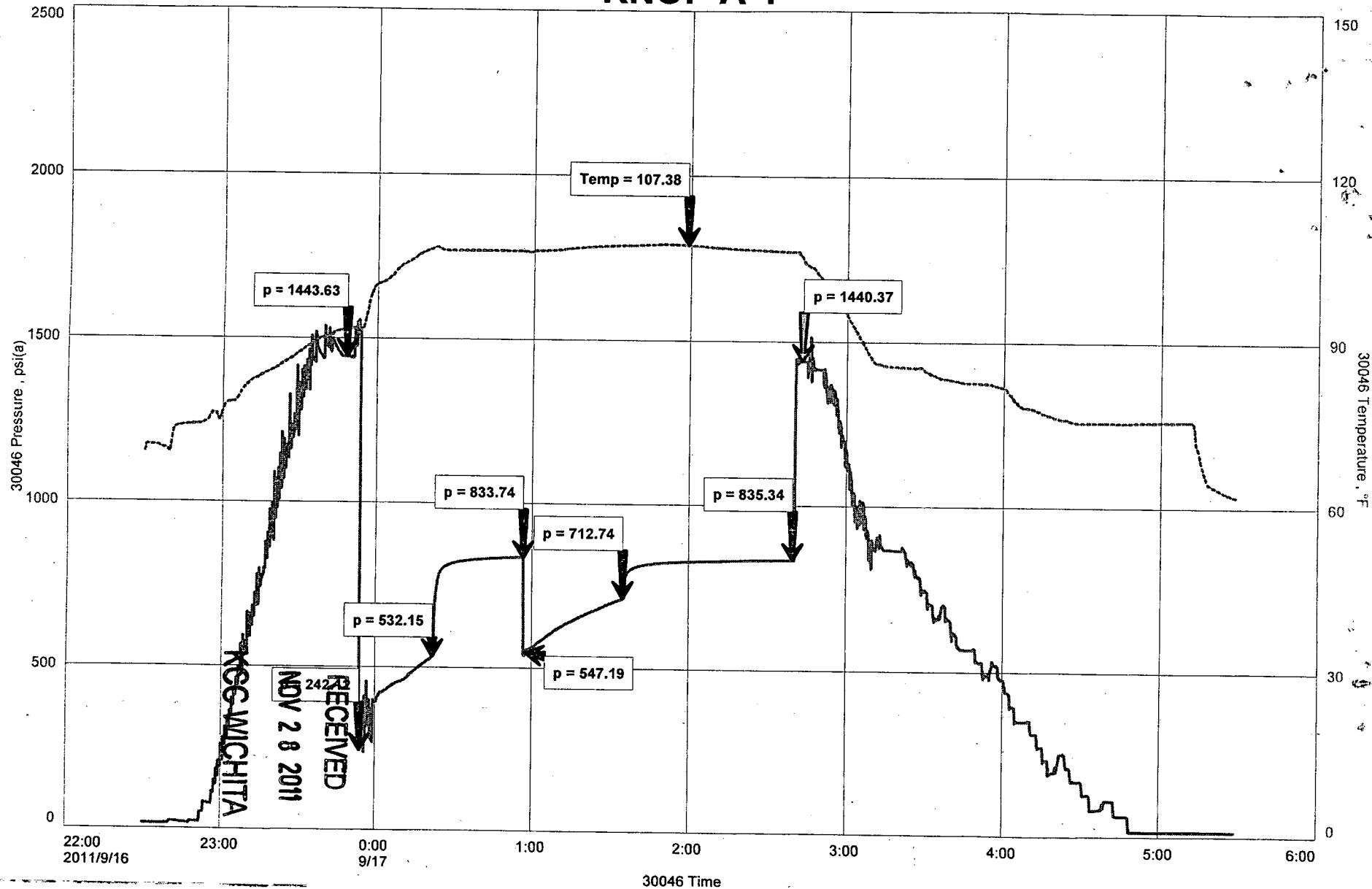
RECOVERY: GAS TO SURFACE, 1900' SLIGHTLY MUD CUT GASSY OIL, 200' GASSY WATER

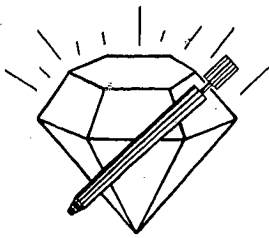
RECEIVED  
NOV 28 2011  
KCC WICHITA

HUPFER OPERATING INC  
Start Test Date: 2011/09/16  
Final Test Date: 2011/09/17

KNOP A-1  
Formation: LKC  
Job Number: D1015

# KNOP A-1





# DIAMOND TESTING

P.O. Box 157  
HOISINGTON, KANSAS 67544  
(620) 653-7550 • (800) 542-7313  
STC 30046.D1016

Company Hupfer Operating, Inc. Lease & Well No. Knop No. A-1  
Elevation 1788 KB Formation Arbuckle Effective Pay -- Ft. Ticket No. J2811  
Date 9-17-11 Sec. 32 Twp. 19S Range 11W County Barton State Kansas  
Test Approved By Kurt Talbott Diamond Representative John C. Riedl

Formation Test No. 4 Interval Tested from 3,330 ft. to 3,350 ft. Total Depth 3,350 ft.  
Packer Depth 3,325 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.  
Packer Depth 3,330 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.  
Depth of Selective Zone Set          ft.

Top Recorder Depth (Inside) 3,333 ft. Recorder Number 30046 Cap. 6,000 psi  
Bottom Recorder Depth (Outside) 3,347 ft. Recorder Number 11073 Cap. 4,000 psi  
Below Straddle Recorder Depth          ft. Recorder Number          Cap.          psi

Drilling Contractor Discovery Drilling - Rig 4 Drill Collar Length 30 ft. I.D. 2 1/4 in.  
Mud Type Chemical Viscosity 47 Weight Pipe Length -- ft. I.D. -- in.  
Weight 8.9 Water Loss 8.7 cc. Drill Pipe Length 3,280 ft. I.D. 3 1/2 in.  
Chlorides 8,000 P.P.M. Test Tool Length 20 ft. Tool Size 3 1/2 - IF in.  
Jars: Make Sterling Serial Number Not Run Anchor Length 20 ft. Size 4 1/2 - FH in.  
Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8 in.  
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 - XH in.

Blow: 1st Open: Good, 6 in., blow. No blow back during shut-in.  
2nd Open: Good, 6 in., blow. No blow back during shut-in.

Recovered 60 ft. of gassy oil = .853800 bbls. (Grind out: 10%-gas; 90%-oil) Gravity: 38 @ 60°  
Recovered 90 ft. of slightly oil cut water = 1.001400 bbls. (Grind out: 5%-oil; 95%-water) Chlorides: 20,000 Ppm  
Recovered 150 ft. of TOTAL FLUID = 1.855200 bbls.  
Recovered          ft. of           
Recovered          ft. of         

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NOV 28 2011

KCC WICHITA

Remarks         

Time Set Packer(s) 11:45 ~~P.M.~~ <sup>A.M.</sup> Time Started Off Bottom 2:30 ~~P.M.~~ <sup>A.M.</sup> Maximum Temperature 110°  
Initial Hydrostatic Pressure ..... (A) 1623 P.S.I.  
Initial Flow Period ..... Minutes 30 (B) 36 P.S.I. to (C) 62 P.S.I.  
Initial Closed In Period ..... Minutes 30 (D) 1063 P.S.I.  
Final Flow Period ..... Minutes 45 (E) 66 P.S.I. to (F) 95 P.S.I.  
Final Closed In Period ..... Minutes 60 (G) 1087 P.S.I.  
Final Hydrostatic Pressure ..... (H) 1583 P.S.I.

HUPFER OPERATING INC  
Start Test Date: 2011/09/17  
Final Test Date: 2011/09/18

KNOP A-1  
Formation: ARBUCKLE  
Job Number: D1016

# KNOP A-1

