

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

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

ORIGINAL

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 6037  
Name: Staab Oil Company  
Address 1: 1607 Hopewell Road  
Address 2: \_\_\_\_\_  
City: Hays State: KS Zip: 67601 + 9443  
Contact Person: Francis C. Staab  
Phone: (785) 625-5013  
CONTRACTOR: License # 31548  
Name: Discovery Drilling Co., Inc.  
Wellsite Geologist: Marc Downing  
Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well     Re-Entry     Workover
- Oil     WSW     SWD     SLOW
- Gas     D&A     ENHR     SIGW
- OG     GSW     Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic     Other (Corr. 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>4/18/2011</u>	<u>4/24/2011</u>	<u>4/25/2011</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 195-22,707-00-00

Spot Description: \_\_\_\_\_  
NE SW SW SE Sec. 27 Twp. 13 S. R. 22  East  West

500 Feet from  North /  South Line of Section

2,130 Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:  
 NE     NW     SE     SW

County: Trego

Lease Name: Mong/Benno Well #: 1

Field Name: Unnamed

Producing Formation: Cherokee Sand

Elevation: Ground: 2325 Kelly Bushing: 2333

Total Depth: 4268 Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: 217.96 Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: 1776 Feet

If Alternate II completion, cement circulated from: 1776  
feet depth to: Surface w/ 405sks Circ. 50 sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 16,000 ppm Fluid volume: 320 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 #: \_\_\_\_\_

**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: Francis C. Staab  
Title: Partner Date: 5-30-11

KCC Office Use ONLY

RECEIVED

Letter of Confidentiality Received

Date: \_\_\_\_\_

JUN 07 2011

Confidential Release Date: \_\_\_\_\_

Wireline Log Received

Geologist Report Received

UIC Distribution

ALT  I  II  III

Approved by: Dlg Date: 6/10/11

KCC WICHITA

Operator Name: Staab Oil Company Lease Name: Mong/Benno Well #: 1  
 Sec. 27 Twp. 13 S. R. 22  East  West County: Trego

**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)

Log Formation (Top), Depth and Datum  Sample  
 Name Top Datum

See additional paper filed

List All E. Logs Run: Dual Induction  
Dual Compensated Porosity  
Microsensitivity Log, Sonic Cement Log

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	217.96	Common	150	2%Gel&3%CC
Production String	7 7/8	5 1/2	14	4264.25	Common	175	10%Salt-2%Gel
			DV Tool @	1776	AMDC	405	1/4#CF/sk

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
4 per ft	4160 to 4164	Natural	
4 per ft	4170 to 4172	Natural	

TUBING RECORD:		Size: <u>2 7/8</u>	Set At: <u>4170</u>	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR. <u>5-25-11</u>		Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____			
Estimated Production Per 24 Hours	Oil Bbts. <u>20</u>	Gas Mcf	Water Bbts.	Gas-Oil Ratio	Gravity <u>32</u>

DISPOSITION OF GAS: <input checked="" type="checkbox"/> NONE vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease (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) <input type="checkbox"/> Other (Specify) _____		PRODUCTION INTERVAL: <u>4160 to 4164</u> <u>4170 to 4172</u>	
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# ALLIED CEMENTING CO., LLC.

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT: Russell

DATE <u>4/18/11</u>	SEC. <u>27</u>	TWP. <u>13 S</u>	RANGE <u>22 W</u>	CALLED OUT	ON LOCATION	JOB START <u>6:00p</u>	JOB FINISH <u>6:30p</u>
LEASE <u>Mons Benno</u>	WELL # <u>1</u>	LOCATION <u>Ogallah 4 1/2 S Wint</u>		COUNTY <u>Trego</u>	STATE <u>Ks.</u>		
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR Discovery Drilling Rig # 3  
 TYPE OF JOB Surface Sub.  
 HOLE SIZE 12 1/4 T.D. 218  
 CASING SIZE 5 1/2 DEPTH 218.96  
 TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_  
 PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_  
 MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_  
 CEMENT LEFT IN CSG. 15'  
 PERFS. \_\_\_\_\_  
 DISPLACEMENT 12.98 bbl

OWNER \_\_\_\_\_  
 CEMENT AMOUNT ORDERED 150 Con 38cc  
29.601

EQUIPMENT  
 PUMP TRUCK CEMENTER Shane, Heath  
 # 409 HELPER Tony  
 BULK TRUCK # 411 DRIVER Todd  
 BULK TRUCK # \_\_\_\_\_ DRIVER \_\_\_\_\_

COMMON	<u>150</u>	@	<u>16.25</u>	<u>2437.50</u>
POZMIX		@		
GEL	<u>3</u>	@	<u>21.25</u>	<u>63.75</u>
CHLORIDE	<u>5</u>	@	<u>58.20</u>	<u>291.00</u>
ASC		@		
HANDLING	<u>158</u>	@	<u>2.25</u>	<u>355.50</u>
MILEAGE	<u>111.56/100</u>			<u>834.24</u>
TOTAL				<u>3981.99</u>

REMARKS:

Ran 5 jts & Landing St.  
Est Circulation  
Mixed 150 sks  
Cement Circulated

SERVICE

DEPTH OF JOB				
PUMP TRUCK CHARGE				<u>1125.00</u>
EXTRA FOOTAGE		@		
MILEAGE	<u>96</u>	@	<u>7.00</u>	<u>672.00</u>
MANIFOLD		@		
<u>CUA</u>	<u>96</u>	@	<u>4.00</u>	<u>384.00</u>
TOTAL				<u>2181.00</u>

CHARGE TO: Staab Oil  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

PLUG & FLOAT EQUIPMENT

RECEIVED  
 JUN 07 2011  
 KCC WICHITA

*Thanks!*

To Allied Cementing Co., LLC.  
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME GAVEN GASCHER  
 SIGNATURE Gaven Gascher

TOTAL \_\_\_\_\_  
 SALES TAX (If Any) \_\_\_\_\_  
 TOTAL CHARGES \_\_\_\_\_  
 DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

## GENERAL TERMS AND CONDITIONS

**DEFINITIONS:** In these terms and conditions, "ALLIED" shall mean Allied Cementing Co., LLC, and "CUSTOMER" shall refer to the party identified by that term on the front of this contract. As applicable, "Job" relates to the services described on the front side of this contract, "Merchandise" refers to the material described on the front of this contract and to any other materials, products, or supplies used, sold, or furnished under the requirements of this contract.

—**TERMS:** Unless satisfactory credit has been established, CUSTOMER must tender full cash payment to ALLIED before the job is undertaken or merchandise is delivered. If satisfactory credit has been established, the terms of payment for the job and/or merchandise, including bulk cement, are net cash, payable in 30 days from the completion of the job and/or delivery of the merchandise. For all past due invoices, CUSTOMER agrees to pay interest on amounts invoiced at a rate of 18 percent per annum until paid. Notwithstanding the foregoing, in no event shall this Contract provide for interest exceeding the maximum rate of interest that CUSTOMER may agree to pay under applicable law. If any such interest should be provided for, it shall be and hereby is deemed to be a mistake, and this contract shall be automatically reformed to lower the rate of interest to the maximum legal contract rate, any amounts previously paid as excess interest shall be deducted from the amounts owing from the CUSTOMER or at the option of ALLIED, refunded directly to CUSTOMER. For purposes of this paragraph, ALLIED and CUSTOMER agree that Kansas law shall apply. Any discounts granted with this contract are null and void if the charges are not paid when due.

—**ATTORNEY FEES:** In any legal action or proceeding between the parties to enforce any of the terms of this Service Contract, or in any way pertaining to the terms of this Contract, the prevailing party shall be entitled to recover all expenses, including, but not limited to, a reasonable sum as and for attorney's fees.

—**PRICES AND TAXES:** All merchandise listed in ALLIED'S current price schedule are F.O.B. ALLIED'S local station and are subject to change without notice. All prices are exclusive of any federal, state, local, or special taxes for the sale or use of the merchandise or services listed. The amount of taxes required to be paid by ALLIED shall be added to the quoted prices charged to CUSTOMER.

—**TOWING CHARGES:** ALLIED will make a reasonable attempt to get to and from each job site using its own equipment. Should ALLIED be unable to do so because of poor or inadequate road conditions, and should it become necessary to employ a tractor or other pulling equipment to get to or from the job site, the tractor or pulling equipment will be supplied by CUSTOMER or, if furnished by ALLIED, will be charged to and paid by CUSTOMER.

—**PREPARATION CHARGES:** If a job and/or merchandise is ordered and CUSTOMER cancels the order after preparation of a chemical solution or other material, CUSTOMER will pay ALLIED for the expenses incurred by ALLIED as a result of the cancellation.

—**DEADHAUL, CHARGES:** Unless otherwise specified on the front of this Contract, a deadhaul charge as set forth in ALLIED'S current price book will be charged each way for each service unit which is ordered by CUSTOMER but not used.

### —SERVICE CONDITIONS AND LIABILITIES:

1. ALLIED carries public liability and property damage insurance, but since there are so many uncertain and unknown conditions beyond ALLIED'S control, ALLIED shall not be liable for injuries to property or persons or for loss or damage arising from the performance of the job or delivery of the merchandise. CUSTOMER shall be responsible for and indemnify, defend, and hold harmless ALLIED, its officers, agents and employees, from and against any and all claims or suits for:

(A) Damage to property or for bodily injury, sickness, disease, or death, brought by any person, including CUSTOMER and/or the well owner; and:

(B) Oil spills, pollution, surface or sub-surface damage, injury to the well, reservoir loss, or damage arising from a well blowout arising out of or in connection with ALLIED'S performance of the job or furnishing of merchandise in accordance with this contract, unless such loss or damage is caused by the willful misconduct or gross negligence of ALLIED or its employees.

2. With respect to any of ALLIED'S tools, equipment, or instruments which are lost in the well or damaged when performing or attempting to perform the job or, in the case of marine operations, are lost or damaged at any time after delivery to the landing for CUSTOMER and before return to ALLIED at the landing, CUSTOMER shall either recover the lost item without cost to ALLIED or reimburse ALLIED the current replacement cost of the item unless the loss or damage results from the sole negligence of ALLIED or its employees.

3. ALLIED does not assume any liability or responsibility for damages or conditions resulting from chemical action in cements caused by contamination of water or other fluids.

### WARRANTIES:

1. ALLIED warrants all merchandise manufactured or furnished by it to be free from defects in material and workmanship under normal use and service when installed, and used, and/or serviced in the manner provided and intended. ALLIED'S obligation under this warranty is expressly limited to repair, replacement, or allowance for credit, at its option, for any merchandise which is determined by ALLIED to be defective. THIS IS THE SOLE WARRANTY OF ALLIED AND NO OTHER WARRANTY IS APPLICABLE, EITHER EXPRESS OR OTHERWISE IMPLIED, IN FACT OR IN LAW, INCLUDING ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE, CUSTOMER'S sole and only remedy with regard to any defective merchandise shall be the repair or replacement thereof or allowance for credit as herein provided, and ALLIED shall not be liable for any consequential, special, incidental, or punitive damages resulting from or caused by defective materials, products or supplies.

#### 2. More specifically:

(A) Nothing in this contract shall be construed as a warranty by ALLIED of the success or the effectiveness of the result of any work done or merchandise used, sold, or furnished under this contract.

(B) Nothing in this contract shall be construed as a warranty of the accuracy or correctness of any facts, information, or data furnished by ALLIED or any interpretation of tests, meter readings, chart information, analysis of research, or recommendations made by ALLIED, unless the inaccuracy or incorrectness is caused by the willful misconduct or gross negligence of ALLIED or its employees in the preparation or furnishing of such facts, information or data.

(C) Work done by ALLIED shall be under the direct supervision and control of the CUSTOMER or his agent and ALLIED will accomplish the job as an independent contractor and not as an employee or agent of the CUSTOMER.

# ALLIED CEMENTING CO., LLC. 039686

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT: Russell Kansas

DATE <u>4-24-2011</u>	SEC. <u>27</u>	TWP. <u>13</u>	RANGE <u>22</u>	CALLED OUT <u>10:45</u>	ON LOCATION <u>11:30</u>	JOB START <u>11:30AM</u>	JOB FINISH <u>12:00PM</u>
LEASE <u>MONG</u> <u>RENNO</u>	WELL # <u>1</u>	LOCATION <u>OGALLALA KS. 7S 3/4 W4 N1 T10</u>			COUNTY <u>Trego</u>	STATE <u>KANSAS</u>	
OLD OR NEW (Circle one)							

CONTRACTOR Discovery Drilling RIG #3  
 TYPE OF JOB PRODUCTION STRING (D-V)  
 HOLE SIZE 7 7/8 T.D. 4  
 CASING SIZE 5 1/2 New 14# DEPTH 4264  
 TUBING SIZE DV TOOL @ DEPTH 1776  
 DRILL PIPE DEPTH  
 TOOL LATCH DOWN Plug Assy DEPTH 4243'  
 PRES. MAX MINIMUM  
 MEAS. LINE SHOE JOINT 20.94  
 CEMENT LEFT IN CSG 20.94  
 PERFS.  
 DISPLACEMENT 103.48/BBL 43.31/BBL

OWNER  
 CEMENT  
 AMOUNT ORDERED 175 sx Comm. 10% SALT 2% GEL  
450 sx Lite / WT. w,  
14 # FLO-Seal Per Sx. 500 GAL WFR-2  
MVD FLUSH

EQUIPMENT  
 PUMP TRUCK CEMENTER Glenn - Bill  
 # 398 HELPER WOODY  
 BULK TRUCK  
 # 378 DRIVER RON  
 BULK TRUCK  
 # 481 DRIVER TODD

COMMON @  
 POZMIX @  
 GEL @  
 CHLORIDE @  
 ASC @  
 HANDLING @  
 MILEAGE @

REMARKS:

Ran 101 now JTS OF 5 1/2 CSG. (14#)  
Set @ 4264' Receive Circulation, Drop Float -  
Shoe - Ball, & Circulate 1 Hr. Pump Flush  
& Cement w/ 175 sx Comm. 10% SALT, 2% GEL, Clear-Line  
Release LATCH DN. Plug, & Displace, LAND @ 1500#.  
DROP DART, & Open DV Tool @ 1,000 #, Cement w/ 450 sx  
Lite / wt. Release Plug & Displace Land @ 1700#  
30 sx @ Patch  
To close DV. Tool,  
15 sx @ mouse hole

SERVICE

DEPTH OF JOB  
 PUMP TRUCK CHARGE  
 EXTRA FOOTAGE @ RECEIVED  
 MILEAGE @  
 MANIFOLD @ JUN 07 2011  
 @ CC WICHITA

CHARGE TO: STAAB Oil Co.  
 STREET  
 CITY STATE ZIP

TOTAL

\* Cement Did Circulate TO SURFACE.

PLUG & FLOAT EQUIPMENT

Float Shoe  
LATCH DOWN Plug Assy @  
CentRALizers @  
1 BASKET @

TOTAL

To Allied Cementing Co., LLC.  
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (If Any)  
 TOTAL CHARGES  
 DISCOUNT IF PAID IN 30 DAYS

PRINTED NAME GALEN GASCHLER  
 SIGNATURE [Signature]

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(A) Damage to property or for bodily injury, sickness, disease, or death, brought by any person, including CUSTOMER and/or the well owner; and:

(B) Oil spills, pollution, surface or sub-surface damage, injury to the well, reservoir loss, or damage arising from a well blowout arising out of or in connection with ALLIED'S performance of the job or furnishing of merchandise in accordance with this contract, unless such loss or damage is caused by the willful misconduct or gross negligence of ALLIED or its employees.

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### WARRANTIES:

1. ALLIED warrants all merchandise manufactured or furnished by it to be free from defects in material and workmanship under normal use and service when installed, and used, and/or serviced in the manner provided and intended. ALLIED'S obligation under this warranty is expressly limited to repair, replacement, or allowance for credit, at its option, for any merchandise which is determined by ALLIED to be defective. THIS IS THE SOLE WARRANTY OF ALLIED AND NO OTHER WARRANTY IS APPLICABLE, EITHER EXPRESS OR OTHERWISE IMPLIED, IN FACT OR IN LAW, INCLUDING ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. CUSTOMER'S sole and only remedy with regard to any defective merchandise shall be the repair or replacement thereof or allowance for credit as herein provided, and ALLIED shall not be liable for any consequential, special, incidental, or punitive damages resulting from or caused by defective materials, products or supplies.

#### 2. More specifically:

(A) Nothing in this contract shall be construed as a warranty by ALLIED of the success or the effectiveness of the result of any work done or merchandise used, sold, or furnished under this contract.

(B) Nothing in this contract shall be construed as a warranty of the accuracy or correctness of any facts, information, or data furnished by ALLIED or any interpretation of tests, meter readings, chart information, analysis of research, or recommendations made by ALLIED, unless the inaccuracy or incorrectness is caused by the wilful misconduct or gross negligence of ALLIED or its employees in the preparation or furnishing of such facts, information or data.

(C) Work done by ALLIED shall be under the direct supervision and control of the CUSTOMER or his agent and ALLIED will accomplish the job as an independent contractor and not as an employee or agent of the CUSTOMER.

# Marc Downing

Consulting Petroleum Geologist

1411 Washington Circle

Hays, Ks 67601

Phone: 620-428-1356 (cell) 785-621-2286

GEOLOGIC  
REPORT  
LOG

COMPANY Staab Oil Co.

WELL Mang-Bennet #1

FIELD Wildcat

LOCATION 500' FEL + 2130' FEL

SEC. 27 TWP. 13s RGE. 22w

COUNTY Trego

STATE Kansas

OPERATOR Staab Oil Co.

CONTRACTOR Discovery Drilling Rig #2

COMM: NA COMP: 4-24-11

PRODUCTION Cher. Sand

ELEVATION KB 2333  
DF \_\_\_\_\_  
GL 2325

Drilling Measured From: KB

Samples Saved From 3650 To: TD

Drilling Time From 3300 To: TD

Samples Examined From: 3650 To: TD

Geological Supervision From 3300 To Total Depth

Wellsite Geologist Marc Downing

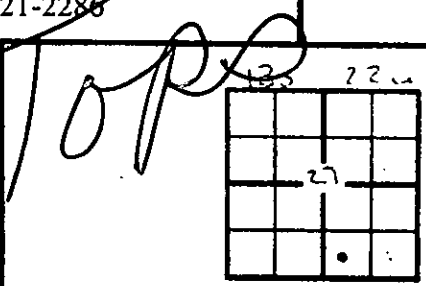
Electrical Surveys Log-Tech

CNL/COL \_\_\_\_\_

OIL \_\_\_\_\_

MEL \_\_\_\_\_

Sonic \_\_\_\_\_



## FORMATION TOPS AND STRUCTURAL POSITION

FORMATION	SAMPLE TOP	ELECTRIC LOG TOP	SUB-SEA DATUM	STRUCTURAL POSITION
Top Anhydrite	1797	1552	1552	F30
Base	1926	1509	1509	NA
Tapeka	3449	3449	-1115	NA
HEEBNER	3691	3685	-1352	F2
Tacoma	3697	3701	-1348	NA
LKC	3717	3716	-1383	F6
BKC	3962	3962	-1629	NA
Pawnee / Marmaton	4070	4068	-1735	NA
CHEROKEE SH	4116	4117	-1784	NA
CHEROKEE SAND	4162	4160	-1827	Absent
Conglomerate	4184	4182	-1849	NA
Miss	4233	4233	-1900	NA

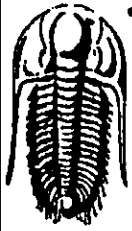
REFERENCE WELL FOR STRUCTURE Magheiser & Castle

Mang #1 SW-NE Sec. 27-13s-22w

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**TRILOBITE TESTING, INC**

**DRILL STEM TEST REPORT**

Staab Oil Co.  
1607 Hopewell Rd  
Hays KS 67601  
ATTN: Marc Downing

*DST 1*

Mong Benno #1  
27-13s-22w Trego, KS  
Job Ticket: 42819      DST#: 1  
Test Start: 2011.04.22 @ 05:10:54

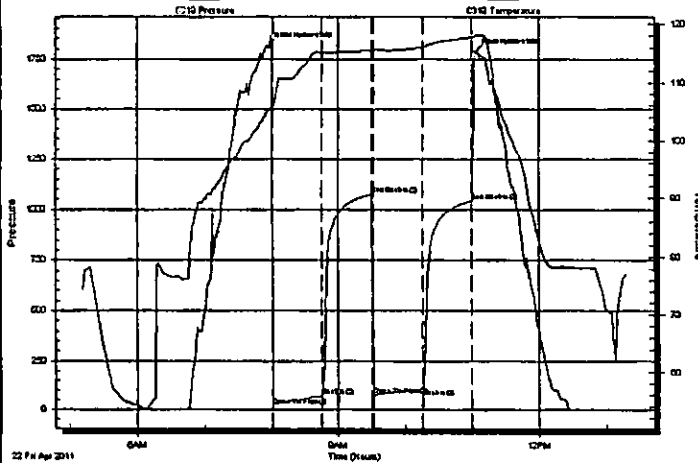
**GENERAL INFORMATION:**

Formation: LKC "E"  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 08:00:54  
Time Test Ended: 13:18:54  
Interval: 3778.00 ft (KB) To 3805.00 ft (KB) (TVD)  
Total Depth: 3805.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole  
Tester: Brett Dickinson  
Unit No: 47  
Reference Elevations: 2337.00 ft (KB)  
2329.00 ft (CF)  
KB to GR/CF: 8.00 ft

Serial #: 8319      Inside  
Press@RunDepth: 106.79 psig @ 3783.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2011.04.22      End Date: 2011.04.22      Last Calib.: 2011.04.22  
Start Time: 05:10:59      End Time: 13:18:53      Time On Btm: 2011.04.22 @ 07:56:54  
Time Off Btm: 2011.04.22 @ 11:02:54

TEST COMMENT: IF-BOB in 17 min  
IS-weak surface blow  
FF-9.5" blow  
FSI-weak surface blow

Pressure vs. Time



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1812.45	104.91	Initial Hydro-static
4	20.10	105.51	Open To Flow (1)
49	68.17	115.16	Shut-In(1)
93	1075.55	115.53	End Shut-In(1)
95	71.92	115.64	Open To Flow (2)
139	106.79	116.17	Shut-In(2)
183	1042.68	117.71	End Shut-In(2)
186	1786.22	118.02	Final Hydro-static

**Recovery**

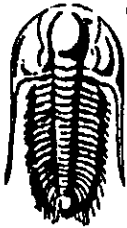
Length (ft)	Description	Volume (bbl)
120.00	MCW 80%W 20%M	1.41
60.00	VSMWCO 5%G 80%O 10%W 5%M	0.84
30.00	SGO 10%G 90%O	0.42
0.00	180ft GIP	0.00

**Gas Rates**

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

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**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

DST 2

Staab Oil Co.

1607 Hopewell Rd  
Hays KS 67601

ATTN: Marc Downing

**Mong Benno #1**

**27-13s-22wTrego,KS**

Job Ticket: 42820

DST#: 2

Test Start: 2011.04.23 @ 15:25:20

## GENERAL INFORMATION:

Formation: Conglomerate sand

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:59:20

Time Test Ended: 21:57:20

Test Type: Conventional Bottom Hole

Tester: Brett Dickinson

Unit No: 47

Interval: 4110.00 ft (KB) To 4168.00 ft (KB) (TVD)

Total Depth: 4168.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2337.00 ft (KB)

2329.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8319

Inside

Press@RunDepth: 257.18 psig @ 4113.00 ft (KB)

Start Date: 2011.04.23

End Date:

2011.04.23

Capacity: 8000.00 psig

Last Calib.: 2011.04.23

Start Time: 15:25:25

End Time:

21:57:19

Time On Btm: 2011.04.23 @ 16:58:20

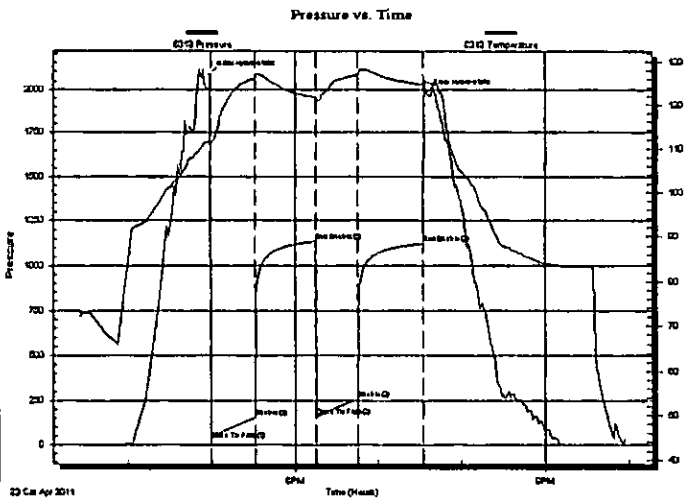
Time Off Btm: 2011.04.23 @ 19:34:50

TEST COMMENT: IF-BOB in 7.5 min

IS-1" blow

FF-BOB in 8 min

FS- Weak surface blow died in 17 min



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2085.63	111.42	Initial Hydro-static
1	31.00	110.85	Open To Flow (1)
33	153.56	126.19	Shut-In(1)
77	1136.53	121.77	End Shut-In(1)
77	158.33	121.42	Open To Flow (2)
107	257.18	127.14	Shut-In(2)
154	1123.69	124.75	End Shut-In(2)
157	1984.64	125.39	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	GVSMCO 20%G 75%O 5%M	1.41
180.00	GO 20%G 80%O	2.52
345.00	GO 35%G 65%O	4.84
0.00	270ft GIP	0.00

## Gas Rates

	Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/d)