

ORIGINAL

STATE CORPORATION COMMISSION OF KANSAS  
OIL & GAS CONSERVATION DIVISION  
WELL COMPLETION FORM  
ACC-1 WELL HISTORY  
DESCRIPTION OF WELL AND LEASE

Operator: License # 5886

Name: CHIEF DRILLING, INC.

Address 120 S. Market, #300

City/State/Zip Wichita, KS 67202

Purchaser: Koch

Operator Contact Person: Douglas W. Thimesch

Phone (316) 262-3791

Contractor: Name: CHIEF DRILLING, INC.

License: 5886

Wellsite Geologist: Dan Reynolds

Designate Type of Completion

- New Well  Re-Entry  Workover
- Oil  SVD  SIOW  Temp. Abd.
- Gas  ENHR  SIGW
- Dry  Other (Core, VSW, Expl., Cathodic, etc)

If Workover/Re-Entry: old well info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Comp. Date \_\_\_\_\_ Old Total Depth \_\_\_\_\_

- Deepening  Re-perf.  Conv. to Inj/SVD
- Plug Back  PSTD
- Commingled  Docket No. \_\_\_\_\_
- Dual Completion  Docket No. \_\_\_\_\_
- Other (SVD or Inj?)  Docket No. \_\_\_\_\_

4-15-93      4-23-93      5-24-93  
 Spud Date      Date Reached TD      Completion Date

API NO. 15- 135-23742-00-00

County Ness

SE NW NE Sec. 33 Twp. 16S Rge. 22W

4290 FSL Feet from  (circle one) Line of Section

1650 FEL Feet from  (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:  
NE, SE, NW or SW (circle one)

Lease Name HINNERGARDT Well # 1-33

Field Name WC

Producing Formation Mississippi

Elevation: Ground 2399  2406

Total Depth 4452 PSTD n/a

Amount of Surface Pipe Set and Cemented at 245' 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/ \_\_\_\_\_ sz cement.

Drilling Fluid Management Plan 6/1/2 8-11-93  
(Data must be collected from the Reserve Pit) Missing

Chloride content 48,000 ppm Fluid volume 1285 bbls

Dewatering method used \_\_\_\_\_

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name \_\_\_\_\_

Lease Name \_\_\_\_\_ License No. \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S Rng. \_\_\_\_\_ E/W

County \_\_\_\_\_ Docket No. \_\_\_\_\_

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, 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 on 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.

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 Patrick J. Deenihan

Title Exploration Manager Date 8-5-93

Subscribed and sworn to before me this 5 day of August 19 93.

Notary Public Betty M. Abbott

Notary Public BETTY M. ABBOTT -22-95  
 NOTARY PUBLIC  
 STATE OF KANSAS  
 My Appl. Exp. 1-22-95

RECEIVED

KANSAS CORPORATION COMMISSION

08-06-1987

AUG 06 1987

- F  Letter of Confidentiality Attached
  - C  Wireline Log Received
  - C  Other (Specify) \_\_\_\_\_
- CONSERVATION DIVISION  
 WICHITA, KS  
 Distribution
- KCC  SVD/Rep  NEPA
  - KCS  Plug  Other

Operator Name Chief Drilling, Inc.

Lease Name Hinnergardt

Well # 1-33

Sec. 33 Twp. 16S Rge. 22W

East

County Ness

West

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all drill stem 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 during test. Attach extra sheet if more space is needed. Attach copy of log.

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  
(Submit Copy.)

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

See attachment sheet

List All E.Logs Run:

Compensated Density Neutron Log  
Dual Induction Log  
Radiation Guard Log  
Gamma Ray Bond Log

**CASING RECORD**

New  Used

Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (in O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12 1/4"	8 5/8"	20#	245'	60/40 Pozmix	145	2%gel, 3%cc
Production	7 7/8"	5 1/2"	14#	4448'	ASC	125	500gal ASF

**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/ft	4426-4436	500 gal. 15% MCA
2/ft	4412-4414 4418-4421	

TUBING RECORD	Size	Set At	Packer At	Liner Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
141 jts.	2 3/8"	4423'	none		

Date of First, Resumed Production, SWD or In): May 24, 1993 Producing Method  Flowing  Pumping  Gas Lift  Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	3	-0-	170		

Disposition of Gas:  
 Vented  Sold  Used on Lease  
(If vented, submit ACD-18.)

**METHOD OF COMPLETION**

Open Hole  Perf.  Dually Comp.  Commingled  
 Other (Specify) \_\_\_\_\_

Production Interval \_\_\_\_\_

ORIGINAL

CHIEF DRILLING, INC. (Op. #5886)  
120 S. Market, #300  
Wichita, KS 67202

#1-33 HINNERGARDT  
API #15-135-23,742-00-00  
SE NW NE  
Sec. 33-16S-22W  
Ness County, Kansas

ACO-1 ATTACHMENT SHEET

FORMATION TOPS:

Anhydrite	1712	+694
Heebner	3816	-1410
Lansing	3856	-1450
Pawnee	4228	-1822
Ft. Scott	4319	-1913
Cherokee Sh.	4335	-1929
Cherokee Sd.	4339	-1933
Mississippi	4429	-2023
RTD	4452	

LOG TOPS:

Anhydrite	1708	+698
Heebner	3810	-1404
Lansing	3850	-1444
Pawnee	4222	-1816
Ft. Scott	4318	-1912
Cherokee Sh.	4329	-1923
Cherokee Sd.	4332	-1926
Mississippi	4422	-2016
LTD	4445	

DST #1 4328-4344 (Cherokee)  
30-30" 30-30", Wk blow died in  
20 min. Rec. 10' OCM, FP 17/17#  
17/17#, BHP 44/17#, Hyd 2066/2031#  
119° temp.

DST #2 4332-4352 (Cherokee Sh.)  
30-30" 0-0"  
Weak blow died in 25 min.  
Rec. 5' mud spotted oil. FP 26/26#  
BHP 44#, Hyd 2123/2077#, 119°

DST #3 4370-4452  
30-30" 30-30"  
Strong blow off bottom in 8 min.  
Rec. 373' MO (5' OCM, 92' MO 70% oil,  
92' MO, 58% oil, 92' MO, 59% oil, 92'  
MO, 88% oil) Trace of water. FP 125/  
170#, 178/214#, BHP 1019/1019#,  
Hyd 2169/2123#, 119°

RECEIVED  
KANSAS CORPORATION COMMISSION

AUG 06 1993

CONSERVATION DIVISION  
WICHITA, KS

Phone 913-83-2627, Russell, Kansas  
 Phone 316-793-5861, Great Bend, Kansas

15-135-23742-00-00

ORIGINAL

Phone Plainville 913-434-2812  
 Phone Ness City 913-798-3843

**ALLIED CEMENTING CO., INC.** 1228

Home Office P. O. Box 31 Russell, Kansas 67665

New

Date	4/15/93	Sec. No.	33	W.P. No.	165	Range	22W	Called Out	11:45	On Location	12:30	Job Start	2:00	Finish	2:30
Lease	Hinnergard	Well No.	133	Location	Brownell 1/2 W. 15 1/2 W. 5	County	Ness	State	Ks.						
Contractor	Go Tools	Owner	Same												
Type Job	Surface	To Allied Cementing Co., 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.	242												
Csg.	8 5/8	Depth	242												
Tbg. Size	20#	Depth													
Drill Pipe		Depth													
Tool		Depth													
Cement Left in Csg.		Shoe Joint													
Press Max.		Minimum													
Meas Line		Displace	14.966												
Perf.															

No.	Cementer	Gary
Pumptrk 158	Helper	Kathy
No.	Cementer	
Pumptrk	Helper	
	Driver	Bill
Bulktrk. 69	Driver	
Bulktrk	Driver	

DEPTH of Job		
Reference:	Pump Truck	430.00
	24 Mileage	54.00
	8 5/8 TWP	42.00
	Sub-Total	
	Total	526.00

Remarks: Cement circulated.

Purchase Order No.	x George Bagler
CEMENT	
Amount Ordered	145.60 1/4 2% Gel 3% CC
Consisting of	
Common	87 5.75 500.25
Poz. Mix	58 3.00 174.00
Gel.	3 7.00 21.00
Chloride	4 25.00 100.00
Quickset	
Handling	145 1.00 145.00
Mileage	24 139.20
Sub-Total	
Total	1079.45
Floating Equipment	
TOTAL \$	1605.45
DISC -	321.00
Total	\$ 1284.45

Thank you  
 Stan L. Hens

RECEIVED  
 KANSAS CORPORATION COMMISSION  
 APR 06 1993  
 CONSERVATION DIVISION  
 WICHITA, KS

15-135-23742-00-00

483-2627, Russell, Kansas

Phone 316-793-5861, Great Bend, Kansas

ORIGINAL

Phone Plainville 913-434-2812

Phone Ness City 913-798-3843

# ALLIED CEMENTING CO., INC.

1233

Home Office P. O. Box 31

Russell, Kansas 67665

New

Date	4-23-93	Sec.	33	Twp.	16	Range	22	Called Out		On Location	3:15	Job Start	4:15	Finish	5 PM
Lease	Hinneryacht	Well No.	1-33	Location	Brownell	1/2 W 15 1/2 W		County	Ness	State	Ks.				
Contractor	Co. Tools														
Type Job	Long String														
Hole Size	7 7/8		T.D. 4452												
Csg.	5 1/2" 14#		Depth 4452												
Tbg. Size	Depth														
Drill Pipe	Depth														
Tool	Port Collar		Depth 2726												
Cement Left in Csg.	Shoe Joint 14'														
Press Max.	1000#		Minimum												
Meas Line	Displace 100.2 bbl														
Perf.															

Owner Same  
 To Allied Cementing Co., Inc.  
 You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Charge To Chief Drilling Co. Inc.  
 Street Box 240  
 City Haisington State Ks. 67544  
 The above was done to satisfaction and supervision of owner agent or contractor.

Purchase Order No.  
*[Signature]*

CEMENT

Amount Ordered	125 ASC	500 gal	WATER
Consisting of	Common 125 ASC	7.50	937.50
Poz. Mix			
Gel.			
Chloride			
Quickset			
	500 gals ASE	1.00	500.00
Handling	125	1.00	125.00
Mileage	24		120.00
Total \$	5508.50		
Disc	1101.70		
	4406.80		

EQUIPMENT

Pumptrk	No.	Cementer	Gary Keith
	158	Helper	
Pumptrk	No.	Cementer	
		Helper	
Bulktrk		Driver	Dwight Bill
		Driver	

DEPTH of Job 4452'

Reference:	Pump Truck	1038.00
24	Mileage	54.00
	5 1/2" TRP	45.00
	Sub-Total	
	Total	1137.00

Remarks: Mix + pump 500 gal ASE. Phys rathole + move hole. Mix and displace cement in casing. Float held.

Thank you

Floating Equipment

6 centralizers	-	336.00
2 baskets	-	254.00
1 Port Collar	-	1785.00
1 Guide Shoe	-	125.00
1 Insert	-	189.00
		2689.00

RECEIVED  
 KANSAS CORPORATION COM.  
 AUG 06 1993  
 CONSERVATION DIVISION  
 WICHITA, KS

15-135-23742-00-00

**WT**

**WIRE-TECH**

**RADIATION GUARD LOG**

COMPANY <u>CHIEF DRILLERS INC.</u>	
WELL <u>#1-33 LINNBERGARD</u>	
FIELD _____	
COUNTY <u>NESS</u>	STATE <u>KANSAS</u>
Location <u>SE - NW - NE</u>	Other Services: <u>DIT, COL-N</u>
Sec. <u>33</u> Twp. <u>16s</u> Rge. <u>22w</u>	

Permanent Datum <u>GROUND LEVEL</u>	Elev. <u>2399'</u>	Elev.: K.B. <u>2406'</u>
Log Measured From <u>KELLY BUSHING</u>	<u>7</u> Ft. Above Perm. Datum	D.F. _____
Drilling Measured From <u>KELLY BUSHING</u>		G.L. <u>2399'</u>

Date	<u>4 - 22 - 93</u>	
Run No.	<u>OIL</u>	
Depth—Driller	<u>4452'</u>	<p><b>RECEIVED</b> KANSAS CORPORATION COMMISSION</p> <p><b>AUG 06 1993</b></p> <p>CONSERVATION DIVISION WICHITA, KS</p>
Depth—Wire Tech	<u>4445'</u>	
Bt. Log Inter.	<u>4443'</u>	
Top Log Inter.	<u>3700'</u>	
Casing—Driller	<u>8 5/8" @ 245'</u>	
Casing—Wire Tech		
Bit Size	<u>7 7/8"</u>	
Type Fluid in Hole	<u>CHEMICAL MUD</u>	
CHLORIDES	<u>7600 PPM</u>	
Dens.   Visc.	<u>9   50</u>	
pH   Fluid Loss	<u>10.5   10.4 ml</u>	
Source of Sample	<u>FLOWLINE</u>	
R <sub>m</sub> @ Meas. Temp.	<u>.7 @ 58 °F</u>	<u>.42 @ 118 °F</u>
R <sub>ml</sub> @ Meas. Temp.	<u>.50 @ 53 °F</u>	<u>.3 @ 119 °F</u>
R <sub>mc</sub> @ Meas. Temp.	<u>.98 @ 53 °F</u>	<u>.58 @ 113 °F</u>
Source R <sub>ml</sub> R <sub>mc</sub>	<u>CHARLES I</u>	
R <sub>m</sub> @BHT	<u>.42 @ 113 °F</u>	
Time Since Circ.	<u>3 HOURS</u>	
Max. Rec. Temp.	<u>113 °F @ T.D.</u>	
Equip.   Location	<u>50   CORREL BLDG, KANSAS.</u>	
Recorded By	<u>W. CURTIS</u>	
Witnessed By	<u>DALE REYNOLDS</u>	

Phone 913-483-2627, Russell, Kansas

Phone Plainville 913-434-2812

Phone 916-793-5861, Great Bend, Kansas

Phone Ness City 913-798-3843

OLD  
15-135-23742-00.00

# ALLIED CEMENTING CO., INC.

Home Office P. O. Box 31

Russell, Kansas 67665

4520

Date	8-17-93	Sec.	33	Twp.	16	Range	22	Called Out	7:00 AM	On Location	8:30 AM	Job Start	11:30 AM	Finish	2:45 PM
Lease	Hinnergard	Well No.	1-34	Location	1/2 W 15 1/2 W Brownall			County		State	KS				
Contractor	Cheyenne Well Service Inc							Owner	Chief Drlg						
Type Job	PTA							To Allied Cementing Co., 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								T.D.							
Csg.	5/8							Depth	2200'						
Tbg. Size								Depth							
Drill Pipe								Depth							
Tool								Depth							
Cement Left in Csg.								Shoe Joint							
Press Max.								Minimum							
Meas Line								Displace							
Perf.															

**EQUIPMENT**

No.	Cementer	Dean Rundle
Pumptrk 277	Helper	
No.	Cementer	
Pumptrk 279	Helper	Carl BATTIN
	Driver	Steve Williams
Bulktrk 218		
Bulktrk	Driver	

DEPTH of Job	1750'
Reference:	Pump Trk chrg 2 <sup>3</sup> / <sub>4</sub> per mile, 22 miles
	Sub Total
	Tax
	Total

Remarks: Spot csg off at 2200' pulled to 1750' and spotted 50 sks. Pulled to 1000' spotted 80 sks. Pulled to 270' pulled rest of csg and top off w/ 10 sks

**CEMENT**

Amount Ordered 190 sks 60/40 670 Gals

Consisting of

Common	
Poz. Mix	
Gel	
Chloride	
Quickset	
Sales Tax	
Handling	
Mileage	
Sub Total	
Total	

RECEIVED  
STATE OF KANSAS COMMISSION  
AUG 24 1993  
CONSERVATION DIVISION  
Wichita, Kansas

Floating Equipment