

**CONFIDENTIAL**

*Wm  
4/06/09*

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

ORIGINAL 7/01/10

Form ACO-1  
October 2008  
Form Must Be Typed

**WELL COMPLETION FORM**  
**WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # 8628

Name: CREDO PETROLEUM CORPORATION

Address 1: 1801 Broadway, Suite 900

Address 2: \_\_\_\_\_

City: DENVER State: CO Zip: 80202

Contact Person: JACK RENFRO

Phone: (303) 297-2200

CONTRACTOR: License # 33493

Name: AMERICAN EAGLE DRILLING

Wellsite Geologist: Jim Musgrove

Purchaser: N/A

Designate Type of Completion:

- New Well
- Re-Entry
- Workover
- Oil
- SWD
- SIOW
- Gas
- ENHR
- SIGW
- CM (Coal Bed Methane)
- Temp. Abd.
- Dry
- Other \_\_\_\_\_

(Core, WSW, Expl., Cathodic, 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 \_\_\_\_\_

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

Commingled \_\_\_\_\_ Docket No.: \_\_\_\_\_

Dual Completion \_\_\_\_\_ Docket No.: \_\_\_\_\_

Other (SWD or Enhr.?) \_\_\_\_\_ Docket No.: \_\_\_\_\_

6/3/09                      6/9/09                      6/10/09

Spud Date or                      Date Reached TD                      Completion Date or  
Recompletion Date                                                                Recompletion Date

API No. 15 - 009-25319-0000

Spot Description: \_\_\_\_\_

SW \_NW \_NE Sec. 9 Twp. 19 S. R. 11  East  West

1230 Feet from  North /  South Line of Section

2555 Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

County: BARTON

Lease Name: KLEPPER CPC Well #: 1-9

Field Name: AHRENS NORTH

Producing Formation: N/A

Elevation: Ground: 1768 Kelly Bushing: 1773

Total Depth: 3360 Plug Back Total Depth: 3360

Amount of Surface Pipe Set and Cemented at: 259 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** PAND 7-27-09  
(Data must be collected from the Reserve Pit)

Chloride content: 7300 ppm Fluid volume: 300 bbls

Dewatering method used: Evaporation

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

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

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

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

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

**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.

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: \_\_\_\_\_

Title: OPERATIONS MANAGER Date: 7/1/09

Subscribed and sworn to before me this 1 day of July

2009

Notary Public: \_\_\_\_\_

Date Commission Expires: 1/19/2012

**KCC Office Use ONLY**

Letter of Confidentiality Received

If Denied, Yes  Date: \_\_\_\_\_

Wireline Log Received

Geologist Report Received

UIC Distribution

Operator Name: CREDO PETROLEUM CORPORATION Lease Name: KLEPPER CPC Well #: 1-9  
 Sec. 9 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 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 type="checkbox"/> Yes <input checked="" 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 <i>(Submit Copy)</i>  List All E. Logs Run: <b>Dual Induction, Dual Porosity, Sonic, Microrestiv.</b>	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:70%;">Name</td> <td style="width:15%;">Top</td> <td style="width:15%;">Datum</td> </tr> <tr> <td>Topeka</td> <td>2669</td> <td>-896</td> </tr> <tr> <td>Brown Lime</td> <td>3051</td> <td>-1278</td> </tr> <tr> <td>Lansing</td> <td>3068</td> <td>-1295</td> </tr> <tr> <td>BKC</td> <td>3316</td> <td>-1543</td> </tr> <tr> <td>Conglomerate</td> <td>3326</td> <td>-1553</td> </tr> </table>	Name	Top	Datum	Topeka	2669	-896	Brown Lime	3051	-1278	Lansing	3068	-1295	BKC	3316	-1543	Conglomerate	3326	-1553
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BKC	3316	-1543																	
Conglomerate	3326	-1553																	

CASING RECORD <input 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	12-1/4"	8-5/8"	24	259	Common	175	2%gel, 3%CaCl

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose: <input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
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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 <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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## 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. 34122

Federal Tax I.D.#                     

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

SERVICE POINT: Medicine Lodge, KS

DATE <u>06 09 09</u>	SEC <u>CP</u>	TWP. <u>19S</u>	RANGE <u>11W</u>	CALLED OUT <u>10:00 AM</u>	ON LOCATION <u>1:00 PM</u>	JOB START <u>4:00 PM</u>	JOB FINISH <u>5:00 PM</u>
LEASE <u>Kleppen</u>	WELL# <u>1-9</u>	LOCATION <u>Claflin, KS, 7.5, 1/4 W, sp. to</u>			COUNTY <u>Barton</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR American Eagle #1

TYPE OF JOB Rotary Plug

HOLE SIZE 7 7/8 T.D.         

CASING SIZE 8 5/8 DEPTH 260

TUBING SIZE          DEPTH         

DRILL PIPE 4 1/2 DEPTH 575

TOOL          DEPTH         

PRES. MAX 200 MINIMUM         

MEAS. LINE          SHOE JOINT         

CEMENT LEFT IN CSG.         

PERFS.         

DISPLACEMENT Fresh H<sub>2</sub>O

EQUIPMENT

PUMP TRUCK CEMENTER D. Folio

# 372 HELPER D. Franklin

BULK TRUCK DRIVER M. Coley

# 389

BULK TRUCK DRIVER         

#         

REMARKS:

Pipe at 575' load Hole, Pump 12 Bbls Fresh H<sub>2</sub>O spacer, Mix 25 sv Cement, Disp. w/ 6 1/2 Bbls Fresh H<sub>2</sub>O, Pipe at 310' load Hole, Mix 70 sv Cement Disp. 1/4 Bbls Water, Push Plug into casing, Mix 10 sv Cement, Did Calc. Pump 35 sv Cement to Plug, Rat Hole

CHARGE TO: Credo Petro

STREET         

CITY          STATE          ZIP         

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 Lee Black

SIGNATURE Lee Black

OWNER Credo Petro

CEMENT AMOUNT ORDERED 16.5 sv 60:40:4%  
gel + 1/4" Fluvent

COMMON         

POZMIX         

GEL         

CHLORIDE         

ASC         

HANDLING         

MILEAGE         

SERVICE

DEPTH OF JOB 575

PUMP TRUCK CHARGE         

EXTRA FOOTAGE         

MILEAGE 14

MANIFOLD         

PLUG & FLOAT EQUIPMENT

1 - Dry hole Plug

TOTAL         

SALES TAX (If Any)         

TOTAL CHARGES         

DISCOUNT          IF PAID IN 30 DAYS

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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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(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.

**JAMES C. MUSGROVE**

Petroleum Geologist

P.O. Box 215

212 Main St.

Clafin, KS 67525

Office (620) 588-4250

Res. Clafin (620) 587-3444

Credo Petroleum Corporation  
Klepper CPC #1-9  
1230' FNL & 2555' FEL; Section 9-19s-11w  
Barton County, Kansas  
Page No. 1

**Dry and Abandoned**

**Contractor:** American Eagle Drilling Company (Rig #1)

**Commenced:** June 3, 2009

**Completed:** June 9, 2009

**Elevation:** 1773' K.B.; 1771' D.F.; 1768' G.L.

**Casing Program:** Surface; 8 5/8" @ 260'  
Production; none.

**Samples:** Samples saved and examined 2500' to the Rotary Total Depth.

**Drilling Time:** One (1) foot drilling time recorded and kept 2500' to the Rotary Total Depth.

**Measurements:** All depths measured from the Kelly Bushing.

**Drill Stem Tests:** There were two (2) Drill Stem Tests ran by Trilobite Testing Co.

**Electric Log:** By Log Tech; Dual Induction, Dual Compensated Porosity Log, Microresistivity and Borehole Compensated Sonic Log.

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<u>Formation</u>	<u>Log Depth</u>	<u>Sub-Sea Datum</u>
Anhydrite	573	+1200
Topeka	2669	-896
Heebner	2933	-1160
Toronto	2950	-1177
Douglas	2964	-1191
Brown Lime	3051	-1278
Lansing	3068	-1295
Base Kansas City	3316	-1543
Conglomerate	3326	-1553
Conglomerate Sand*	3353	-1580
Rotary Total Depth	3360	-1587
Log Total Depth	3357	-1584

(All tops and zones corrected to Electric Log measurements).  
\*Sample depth

**SAMPLE ANALYSIS, SHOWS OF OIL, TESTING DATA, ETC.**

**TOPEKA SECTION**

2669-2684' Limestone; gray, white, tan, finely crystalline, few chalky, poorly developed porosity, few chalky, poorly developed porosity.

2705-2715' Limestone; as above, scattered intercrystalline and pinpoint type porosity, no shows.

- 2730-2736' Limestone; tan, slightly fossiliferous, few granular, no shows.
- 2795-2805' Limestone; white to gray, finely crystalline, few fossiliferous, chalky, (dense).
- 2846-2860' Limestone; tan, buff, finely crystalline, few granular, scattered porosity.
- 2883-2889' Limestone; tan, buff, sub oomoldic, few fossiliferous, chalky, brown to dark brown and black stain, trace of free oil and faint odor in fresh samples.
- 2906-2920' Limestone; white/gray, finely crystalline, slightly fossiliferous, chalky, poor visible porosity, no shows.

**TORONTO SECTION**

- 2856-2961' Limestone; white and gray, fine to medium crystalline, few oolitic, chalky, no stain, no free oil, no fluorescence, questionable odor in fresh samples.

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**LANSING SECTION**

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- 3068-3076' Limestone; white and gray, finely crystalline, few fossiliferous, chalky, scattered pinpoint to finely intercrystalline type porosity, light brown and golden brown stain, show of free oil and fair odor in fresh samples.
- 3093-3098' Limestone; white and gray, oolitic, oomoldic, fair oomoldic porosity, brown to dark brown spotty stain, show of free oil and fair odor in fresh samples.
- 3113-3118' Limestone; tan, finely crystalline, slightly oolitic, chalky, scattered intercrystalline porosity, trace dark brown stain, weak show of free oil and questionable odor in fresh samples.
- 3128-3131' Limestone; tan, oolitic, chalky, scattered porosity, brown stain, trace of free oil and faint odor in fresh samples.

**Drill Stem Test #1 3059-3136' (log measurements 3056-3133)**

**Times: 30-30-45-60**

**Blow: Weak**

**Recovery: 20' mud with scum of oil**

**Pressures: ISIP 241 psi**  
**FSIP 453 psi**  
**IFP 47-50 psi**  
**FFP 52-55 psi**  
**HSH 1556-1555 psi**

- 3140-3147' Limestone; tan, buff and gray, oolitic, slightly chalky, brown and light brown stain, trace of free oil and faint odor in fresh samples.



**Drill Stem Test #2** **3133-3154' (log measurements 3130-3151)**

**Times:** 30-45-60-90  
**Blow:** Good  
**Recovery:** 195' muddy water

**Pressures:** ISIP 456 psi  
FSIP 451 psi  
IFP 20-62 psi  
FFP 66-120 psi  
HSH 1554-1475 psi

- 3156-3166' Limestone; gray, oomoldic, chalky, fair oomoldic porosity, trace brown edge staining, no show of free oil and no odor in fresh samples.
- 3170-3180' Limestone; tan, oomoldic, good oomoldic porosity, (barren).
- 3207-3212' Limestone; gray, white, oomoldic, chalky, poorly developed porosity, trace poor light brown stain, no show of free oil and questionable odor in fresh samples.
- 3218-3224' Limestone; gray, tan, oolitic/fossiliferous, poor porosity, no shows.
- 3241-3250' Limestone; gray, white, oomoldic, slightly chalky, fair porosity, no shows.
- 3271-3275' Limestone; tan and white, oolitic, few medium crystalline, chalky in part, sparry calcite cement, no shows.
- 3280-3300' Limestone; white, finely crystalline, chalky, trace brown and gray stain, (poor), no show of free oil and no odor in fresh samples.

**CONGLOMERATE SECTION**

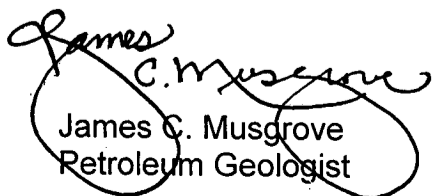
- 3326-3353' Varied colored shale; trace very fine grained, calcareous sand, no shows, trace maroon rose tinted limestone.
- 3353-3358' Sand; tan, buff, very fine grained, quartzite, calcareous, poor visible porosity, golden brown stain, weak show of free oil and no odor in fresh samples. (Sample Depth)

**Rotary Total Depth** 3360 (-1587)  
**Log Total Depth** 3357 (-1584)

**Recommendations**

On the basis of the low structural position and negative Drill Stem Test, it was recommended by all parties involved that the Klepper CPC #1-9 be plugged and abandoned at the Rotary Total Depth 3360 (-1587).

Respectfully submitted;

  
James C. Musgrove  
Petroleum Geologist

