

ORIGINAL

FORM MUST BE TYPED

SIDE ONE

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

Operator: License # 31088  
Name: Colt Resources Corporation  
Address 16701 Greenspoint Dr.  
Suite 225  
City/State/Zip Houston, Texas 77060  
Purchaser: Farmland-Oil; KP&I-gas  
Operator Contact Person: Ed Childers  
Phone (210) 876-1209  
Contractor: Name: Duke Drilling Co., Inc.  
License: 5929  
Wellsite Geologist: Jerry Smith

Designate Type of Completion  
 New Well  Re-Entry  Workover  
 Oil  SWD  SIOW  Temp. Abd.  
 Gas  ENHR  SIGW  
 Dry  Other (Core, WSV, 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/SWD  
 Plug Back  PBTB  
 Commingled  Docket No. \_\_\_\_\_  
 Dual Completion  Docket No. \_\_\_\_\_  
 Other (SWD or Inj?)  Docket No. \_\_\_\_\_

10-07-97 10-12-97 10-13-97  
Spud Date Date Reached TD Completion Date

API NO. 15- 077-21341 0000  
County Harper County, Kansas  
C. SW - SE Sec. 15 Twp. 31S Rge. 9 XX E  
660 Feet from S (circle one) Line of Section  
1870 Feet from E (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:  
NE, SP, NW or SW (circle one)  
Lease Name Kennedy Well # 4  
Field Name Spivey-Grabs  
Producing Formation Mississippian Chat  
Elevation: Ground 1632' KB 1640'  
Total Depth 4500' PBTB 4500'  
Amount of Surface Pipe Set and Cemented at 221 Feet  
Multiple Stage Cementing Collar Used? Yes  No

RECEIVED  
DEC 01 1997  
If Alternate II completion, cement circulated from \_\_\_\_\_  
feet depth to \_\_\_\_\_ w/ \_\_\_\_\_ sx cat.

CONSERVATION DIVISION  
Drilling Fluid Management Plan ALT 1 JH 12-24-97  
Data collected from the Reserve Pit

Chloride content 63,000 ppm Fluid volume 600 bbls  
Dewatering method used trucked/evaporated  
Location of fluid disposal if hauled offsite: \_\_\_\_\_  
Operator Name Colt Resources Corporation  
Lease Name Dickens SWD #2 License No. 31088  
SE Quarter Sec. 8 Twp. 31 S Rng. 8 XX W  
County Kingman Docket No. 55216C

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 Ed Childers

Title Division Engineer Date 11/25/97

Subscribed and sworn to before me this 25th day of November, 19 97.

Notary Public Dianne H. Smith

Date Commission Expires \_\_\_\_\_



DIANNE H. SMITH  
NOTARY PUBLIC, STATE OF TEXAS  
MY COMMISSION EXPIRES  
OCT. 29, 2001

K.C.C. OFFICE USE ONLY  
F  Letter of Confidentiality Attached  
C  Wireline Log Received  
C  Geologist Report Received  
Distribution  
 KCC  SWD/Rep  NGPA  
 KGS  Plug  Other (Specify)

SIDE TWO

Operator Name Colt Resources Corporation Lease Name Kennedy Well # 4  
 Sec. 15 Twp. 31S Rge. 9  East County Harper County, Kansas  
 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 (Attach Additional Sheets.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input checked="" type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Heebner Shale	3480	(-1840)
Electric Log Run (Submit Copy.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Lansing	3669	(-2029)
List All E.Logs Run:		Dennis Porosity	4074	(-2434)
DIL, SSD/CN		Swope Porosity	4115	(-2475)
		Hertha Porosity	4140	(-2500)
		Base Kansas City	4190	(-2550)
		Cherokee Lime	4335	(-2695)
		Detrital Miss.	4396	(-2756)
		Mississippi "Chat"	4406	(-2766)
		Base Miss. "Chat"	4440	(-2800)

CASING RECORD							
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#	221'	60/40 Poz	165	3%cc 2%gel
Production	7-7/8"	5-1/2"	15.5#	4499'	ASC	150	5#/sk Kolsel

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	4406-4440	Acidized w/ 2500 gal 15% NE/FE. Frac w/ 5000# 100 Mesh sand, 48500# 12/20 sand, 4000# 12/20 AcFrac, 40860 gal gelled water.	

TUBING RECORD	Size <u>2-3/8"</u>	Set At <u>4458'</u>	Packer At <u>N/A</u>	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj.	<u>10/31/97</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 <u>11.67</u> Bbls.	Gas <u>25</u> Mcf	Water <u>2.14</u> Bbls.	Gas-Oil Ratio

Disposition of Gas:	<input type="checkbox"/> Vented <input checked="" type="checkbox"/> Sold <input type="checkbox"/> Used on Lease (if vented, submit ACO-18.)	METHOD OF COMPLETION	Production Interval
		<input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perforated <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled	<u>4406-4440'</u>



**JN Exploration & Production  
Colt Resources Corporation**

Gulf Coast Division

ORIGINAL

16701 Greenspoint Park Drive, Suite 225  
Houston, Texas 77060  
(281) 876-1209  
FAX (281) 876-1255  
E-mail: jnhouston@main.com

November 26, 1997

Kansas Corporation Commission  
200 Colorado Derby Building  
Wichita, Kansas 67202

RECEIVED  
STATE CORPORATION COMMISSION

DEC 01 1997

Re: Kennedy #3 Well, API 15-077-21338  
Kennedy #4 Well, API 15-077-21341  
Swingle #4 Well, API 15-095-21735  
Spivey-Grabs Field  
Harper and Kingman County, Kansas

CONSERVATION DIVISION  
Wichita, Kansas

Gentlemen:

Enclosed please find Form ACO-1 in triplicate with attachments on each of the wells listed above.  
The attachments are as follows:

Kennedy #3  
DIL, DSN/CDL COMP logs, Geological Well Report, 2 cementing reports and 1 cementing log

Kennedy #4  
DIL, SSD/CN logs, Geological Well Report, 2 cementing reports and 1 cementing log

Swingle #4  
DIL/CDL/CN logs, Geological Well Report, 2 cementing reports and 1 cementing log

Please contact the undersigned if any further information is required.

Thank you for your assistance.

Sincerely,

COLT RESOURCES CORPORATION

Dianne H. Smith  
Engineering Assistant

Enclosure

# ALLIED CEMENTING CO., INC.

6345

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

ORIGINAL

SERVICE POINT: Medicine Lodge

DATE <u>10-1-97</u>	SEC <u>15</u>	TWP. <u>21</u>	RANGE <u>7</u>	CALLED OUT <u>12:00</u>	ON LOCATION <u>1:45 am</u>	JOB START <u>4:05 pm</u>	JOB FINISH <u>4:30 pm</u>
LEASE <u>medice</u>	WELL# <u>4</u>	LOCATION <u>Keystone Church 25.5 W 1/2</u>		COUNTY <u>Hwy 1</u>	STATE <u>Kansas</u>		

OLD OR NEW (Circle one)

CONTRACTOR: Dike Rio 2  
 TYPE OF JOB Surf Cell  
 HOLE SIZE 12 1/4 T.D.  
 CASING SIZE 24 x 24 DEPTH 221  
 TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_  
 PRES. MAX 300 MINIMUM 50  
 MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_  
 CEMENT LEFT IN CSG. 15  
 PERFS. \_\_\_\_\_

OWNER CRH Resources Corp  
 CEMENT

AMOUNT ORDERED 1655 x 60-40:2+3acc

**EQUIPMENT**

PUMP TRUCK CEMENTER Carl Baldura  
 # 259-265 HELPER Stuart Winsor  
 BULK TRUCK  
 # 242 DRIVER John Kelly  
 BULK TRUCK  
 # \_\_\_\_\_ DRIVER \_\_\_\_\_

COMMON \_\_\_\_\_ @ \_\_\_\_\_  
 POZMIX \_\_\_\_\_ @ \_\_\_\_\_  
 GEL \_\_\_\_\_ @ \_\_\_\_\_  
 CHLORIDE \_\_\_\_\_ @ \_\_\_\_\_  
 STATE PAID @ \_\_\_\_\_  
 DEC @ \_\_\_\_\_  
 CONSERVAT @ \_\_\_\_\_  
 HANDLING \_\_\_\_\_  
 MILEAGE \_\_\_\_\_

TOTAL \_\_\_\_\_

**REMARKS:**

**SERVICE**

side on bottom break circulation  
with Rio pump circulate for 5 minutes  
gump 1655 x 60-40:2+3acc. stop  
switch valves + release plug  
Disagree with 13 BBLs Fresh water  
(Event did circulate) 54.1 IN

DEPTH OF JOB 221  
 PUMP TRUCK CHARGE \_\_\_\_\_  
 EXTRA FOOTAGE \_\_\_\_\_ @ \_\_\_\_\_  
 MILEAGE \_\_\_\_\_ @ \_\_\_\_\_  
 PLUG Loaden \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_

TOTAL \_\_\_\_\_

CHARGE TO: CRH Resources Corp  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

**FLOAT EQUIPMENT**

\_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_

TOTAL \_\_\_\_\_

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 is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

TAX \_\_\_\_\_  
 TOTAL CHARGE \_\_\_\_\_  
 DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

SIGNATURE John P. ...

## GENERAL TERMS AND CONDITIONS.

**DEFINITIONS:** In these terms and conditions, "Allied" shall mean Allied Cementing Co., Inc., 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., INC.

6349

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

## ORIGINAL

SERVICE POINT:

Medicine Lodge

DATE <u>10-13-97</u>	SEC. <u>15</u>	TWP. <u>21S</u>	RANGE <u>9W</u>	CALLED OUT <u>11:00 AM</u>	ON LOCATION <u>12:00 PM</u>	JOB START <u>3:45 PM</u>	JOB FINISH <u>4:25 PM</u>
LEASE <u>Kennedy</u>	WELL # <u>4</u>	LOCATION <u>Keystone Church 2.5 mi W N Harper</u>			COUNTY <u>Harper</u>	STATE <u>Kansas</u>	

OLD OR NEW (Circle one)

CONTRACTOR Duke Rig 2 OWNER Cott Resources Corp  
 TYPE OF JOB production CEMENT  
 HOLE SIZE 7 1/2 I.D. 4500  
 CASING SIZE 5 1/2 x 15.5 DEPTH 4506  
 TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_  
 PRES. MAX 1100 MINIMUM 100  
 MEAS. LINE \_\_\_\_\_ SHOE JOINT 34.00  
 CEMENT LEFT IN CSG. 34.00  
 PERFS. \_\_\_\_\_

AMOUNT ORDERED 150 sk ASC + 5<sup>th</sup> KOL seal  
25 sk 60:40:4  
500 Gal mud clean + 12 bails Claypro

COMMON A	<u>15</u>	@	<u>6.35</u>	<u>95.25</u>
POZMIX	<u>10</u>	@	<u>3.25</u>	<u>32.50</u>
GEL	<u>1</u>	@	<u>9.50</u>	<u>9.50</u>
CHLORIDE		@		
ASC	<u>150</u>	@	<u>8.20</u>	<u>1230.00</u>
KOL-SEAL	<u>750#</u>	@	<u>.38</u>	<u>285.00</u>
CLAPRO	<u>11 bails</u>	@	<u>22.90</u>	<u>251.90</u>
MUD CLEAN	<u>500 Gals</u>	@	<u>.75</u>	<u>375.00</u>
HANDLING	<u>175</u>	@	<u>1.05</u>	<u>183.75</u>
MILEAGE	<u>175 x 25</u>	@	<u>.04</u>	<u>175.00</u>

### EQUIPMENT

PUMP TRUCK CEMENTER Carl Balding  
 # 257-263 HELPER Shane Windsor  
 BULK TRUCK  
 # 301 DRIVER Kevin Bruner  
 BULK TRUCK  
 # \_\_\_\_\_ DRIVER \_\_\_\_\_

RECEIVED TOTAL \$2627.90  
STATE CORPORATION COMMISSION

### REMARKS:

### DED SERVICE

Circulate with rig for 30 minutes  
ump 12 BBLs mud clean, amp  
25 sk 60:40:4 in Rat + Mouse Hole, amp  
150 sk ASC + 5<sup>th</sup> KOL seal stop pumps wash  
out pumps + lines. Displace with 108  
21 BBLs 2% KOL water. Bump plug  
to 1100 psi, Release pressure. (Float held)

DEPTH OF JOB	<u>4506</u>	DISCOUNT		
PUMP TRUCK CHARGE				<u>1214.00</u>
EXTRA FOOTAGE		@		
MILEAGE	<u>25</u>	@	<u>2.85</u>	<u>71.25</u>
PLUG	<u>Rubber 5/2"</u>	@	<u>50.00</u>	<u>50.00</u>

CHARGE TO: Cott Resources Corp  
 STREET 16701 GREENSPRING PARK DR. # 225  
 CITY HOUSTON STATE TEXAS ZIP 77060

TOTAL \$1335.25

### FLOAT EQUIPMENT

1- Regular Guide shoe	@	<u>168.00</u>	<u>168.00</u>
1- AFU Insert	@	<u>263.00</u>	<u>263.00</u>
6- Centralizers	@	<u>56.00</u>	<u>336.00</u>

TOTAL \$767.00

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 is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

TAX \_\_\_\_\_  
 TOTAL CHARGE \$4730.13  
 DISCOUNT \$709.52 IF PAID IN 30 DAYS

NET \$4020.63

SIGNATURE

Jerold W. Raines Jerold W. Raines



# ORIGINAL CEMENTING LOG

STAGE NO.

Date 10-13-97 District Medicine Lodge Ticket No. 6349  
 Company Colt Resources Corp Rig Duke 2  
 Lease Kennedy Well No. 4  
 County Haskell State Kansas  
 Location Keystone church Field 15-315-9W  
2S, 20W 1/2

CASING DATA: PTA  Squeeze   
 Surface  Intermediate  Production  Liner   
 Size 5 1/2 Type \_\_\_\_\_ Weight 15.5 Collar \_\_\_\_\_

Casing Depths: Top K0 Bottom 4506

Drill Pipe: Size 4 1/2 Weight \_\_\_\_\_ Collars \_\_\_\_\_  
 Open Hole: Size 7 7/8 T.D. 4500 ft. P.B. to \_\_\_\_\_ ft.

CAPACITY FACTORS:  
 Casing: Bbls/Lin. ft. .0239 Lin. ft./Bbl. 42.01  
 Open Holes: Bbls/Lin. ft. .0602 Lin. ft./Bbl. 16.39  
 Drill Pipe: Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_  
 Annulus: Bbls/Lin. ft. .0309 Lin. ft./Bbl. 32.40  
 Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_  
 Perforations: From \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Amt \_\_\_\_\_

CEMENT DATA:  
 Spacer Type: Mud clean 12 Bbls  
 Amt. \_\_\_\_\_ Skys Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG

LEAD: Pump Time \_\_\_\_\_ hrs. Type 60:40:4  
 Amt. 25 Skys Yield 11.40 ft<sup>3</sup>/sk Density 14.1 PPG  
 TAIL: Pump Time \_\_\_\_\_ hrs. Type ASC-5<sup>th</sup> Kolseal

Amt. 150 Skys Yield 6.57 ft<sup>3</sup>/sk Density 14.5 PPG  
 WATER: Lead 67 gals/sk Tail 2.23 gals/sk Total 30 Bbls.

Pump Trucks Used 257-265 Shane Winsor  
 Bulk Equip. 301 Kevin Steinhardt

Float Equip. Manufacturer Camaco  
 Shoe: Type Regular Guide Shoe Depth 4506  
 Float: Type AV Insert Depth 4472  
 Centralizers: Quantity 6 Plugs Top 1 Btm. \_\_\_\_\_  
 Stage Collars \_\_\_\_\_  
 Special Equip. \_\_\_\_\_  
 Disp. Fluid Type 26 Kcb Amt. 1092 Bbls. Weight 5.34 PPG  
 Mud Type \_\_\_\_\_ Weight \_\_\_\_\_ PPG

COMPANY REPRESENTATIVE Gerald Rains CEMENTER Carl Bolding

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	
12:30pm						on location - Rig up
3:15 pm						Pipe on bottom break circulation with Rig circulate for 30 minutes
3:45pm	150		12	12	5	pump mud clean Flush
3:50			18	6	2	pump 25 ex 60:40:4 in Rat+mouse hole
3:54	300		60	42	5.5	pump 150 ex ASC-5 <sup>th</sup> Kolseal Cement in stop pumps Switch valves to wash pump+lines Switch valves + Release plug
4:04	100				6	Start Displacement
	150				6	Steady Rate
	150		112	52	6	Mud clean turn shoe
	150		124	12	6	Cement turn shoe
4:17	200		140	16	4	slow rate
	600		142	22	2.5	See lift pressure
4:25	1100		160.9	6.5		slow rate pump plug Release pressure (float held)

FINAL DISP. PRESS: 600 PSI BUMP PLUG TO 1100 PSI BLEEDBACK 4 BBLs.

THANK YOU  
P.08

JERRY A. SMITH

PETROLEUM GEOLOGIST

RECEIVED  
STATE CORPORATION COMMISSION

DEC 01 1997

CONSERVATION DIVISION  
Wichita, Kansas

ORIGINAL

GEOLOGICAL WELL REPORT

COLT RESOURCES CORP.

KENNEDY #4

660' FSL & 1870' FEL

Sec. 15-31-9W

HARPER COUNTY, KANSAS

15-077-21341



RECEIVED  
STATE CORPORATION COMMISSION

October 15, 1997

DEC 01 1997

Colt Resources Corporation  
16701 Greenspoint Park Drive  
Suite 225  
Houston, TX 77060

CONSERVATION DIVISION  
Wichita, Kansas

RE: Colt Resources Corporation

Kennedy #4  
660' FSL & 1870' FEL  
Sec. 15-31-9W  
Harper County, Kansas  
Spivey-Grabs-Basil Field  
API No. 15-077-21,341

Submitted herewith is the geological report concerning the above-captioned test. Data pertinent to the operation are tabulated below.

Spud:	10/07/97	Complete:	10/13/97
Contractor:	Duke Drlg., Rig 2	Toolpusher:	John Armbruster
Surf. Csg.:	8 5/8" @ 221'	Prod'n. Csg.:	5 1/2" @ 4499'
Drill Time:	1400' to RTD	Samples:	1400' to RTD
DST's:	None	Cores:	None
Mud:	Baroid	Open-hole Log:	Rosel --
Gas Detector:	MBC Well Logging		DIL, SSD/CN
Bit Record:	Walker-McDonald	Dev. Surveys:	3/4° @ 222'
	7 7/8" 42CF		1/2° @ 4500'
	In: 222'		
	Out: 4500'		
	Hrs: 100 1/4		

Geological formation tops as picked from rotary samples and corrected to the open-hole log follow. All measurements are from the kelly bushing elevation.

Elevations: 1632 GL 1640 KB

Heebner Shale	3480 (-1840)	Cherokee Lime	4335 (-2695)
Lansing	3669 (-2029)	Detrital Miss.	4396 (-2756)
Dennis Porosity	4074 (-2434)	Mississippi "Chat"	4406 (-2766)
Swope Porosity	4115 (-2475)	Base Miss. "Chat"	4440 (-2800)
Hertha Porosity	4140 (-2500)	RTD	4500 (-2860)
Base Kansas City	4190 (-2550)	LTD	4499 (-2859)

Geological wellsite supervision commenced at 3345' and was maintained through total depth. Rotary samples were examined in both the wet and dry states and were subjected to UV light examination. A portable gas detector/mud logging unit was also employed during the drilling operation.

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Zones of interest above the Mississippian that were encountered in the Kennedy #4 were evaluated as follows. All depth intervals are from the open-hole log.

3426-3440 Oread Limestone: Limestone. Cream and tan. Fine to medium crystalline. Fossiliferous with poor fossil mold and scattered fair vuggy and intercrystalline porosity. No shows noted. No log detail was run across this interval.

It is not felt that this zone warrants further testing.

3669-3680 Lansing-Kansas City: Limestone. Cream and light gray. Fine to medium crystalline. Fossiliferous with poor to fair fossil mold and vuggy porosity. No shows noted.

Cross-plot Porosity: 9.5%  
Resistivity: 9.5 to 10.5 ohms  
Water Saturation: 64 to 68%

It is not felt that this zone warrants further testing.

3957-3970 Lansing-Kansas City: Limestone. Light tan to light gray. Fine to medium crystalline. Fossiliferous in part with poor intercrystalline porosity and fair scattered fossil mold and vuggy porosity. The zone contained scattered white, soft, chalky limestone. No shows noted.

Cross-plot Porosity: 16.5%  
Resistivity: 2.75 ohms  
Water Saturation: 73%

It is not felt that this zone warrants further testing.

4004-4020 Lansing-Kansas City: Limestone. Cream, light tan and light gray. Fine crystalline. Fossiliferous and oolitic in part. Scattered fair fossil mold, interoolitic and vuggy porosity. The zone contained scattered white, soft, chalky limestone. No shows noted.

Cross-plot Porosity: 13.5%  
Resistivity: 2 ohms  
Water Saturation: 100%

It is not felt that this zone warrants further testing.

4050-4058 Lansing-Kansas City: Limestone. Gray, tan and brown. Fine to medium crystalline. Fossiliferous in part. Dense to poor

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scattered vuggy porosity. No shows noted.

Cross-plot Porosity: 10%  
Resistivity: 6.5 ohms  
Water Saturation: 78%

It is not felt that this zone warrants further testing.

4074-4080 Dennis Limestone: Limestone. Cream, light gray and tan. Fine to medium crystalline. Sparsely fossiliferous with very sparse, scattered vuggy porosity. No shows noted.

Cross-plot Porosity: 6%  
Resistivity: 15 ohms  
Water Saturation: 86%

It is not felt that this zone warrants further testing.

4115-4126 Swope Limestone: Limestone. Gray and tan. Fine crystalline. Dense to sparse vuggy porosity. No shows noted.

Cross-plot Porosity: 10.75%  
Resistivity: 6 ohms  
Water Saturation: 76%

It is not felt that this zone warrants further testing.

4140-4144 Hertha Limestone: Limestone. Gray and tan. Fine crystalline. Highly oolitic with fair to good interoolitic and oomoldic porosity. No shows noted.

Cross-plot Porosity: 18.5%  
Resistivity: 20 ohms  
Water Saturation: 24%

Due to the highly oomoldic ("oolicastic") nature of this zone and the lack of any hydrocarbon shows whatsoever, it is not felt that this zone warrants further testing. No adjustment was made to the cementation exponent in the Archie water saturation equation for the above calculation. Any such adjustment would undoubtedly increase the calculated water saturation.

The primary pay zone in the Kennedy #4, the Mississippian "Chat", developed from 4406' to 4440' (KB log). Rotary sample descriptions, hydrocarbon shows and open-hole log analysis of separate zones of interest within the Mississippian "Chat" follow. All depth intervals are from the open-hole log.

4406-4418: Near 100% white, opaque, highly weathered chert with good pinpoint porosity development. Good brown stain to saturation throughout. Good show of brown, free gassy oil and gas bubbles.

Samples from this interval carried a strong odor and approximately 80% tray fluorescence. Gas kicks of 61 units chromatograph and 425+ units hot wire were noted.

Cross-plot Porosity: 31 to 36.5%  
Resistivity: 0.45 to 1.8 ohms  
Water Saturation: 45 to 79%  
Bulk Volume Water: .1395 to .2781

4419-4428: 60% weathered chert as above with shows as above. 40% white to tan, opaque, vitreous, fresh, sharp, dense chert with no visual porosity.

Samples from this interval carried a good odor and approximately 60% tray fluorescence. Gas kicks of 62 units chromatograph and 425+ units hot wire persisted through this zone.

Cross-plot Porosity: 30 to 36.6%  
Resistivity: 0.7 to 1.5 ohms  
Water Saturation: 44 to 64%  
Bulk Volume Water: .1320 to .2234

4429-4434: Chert as above -- 60% weathered with good shows, 40% fresh, dense. Good odor, approx. 60% tray fluorescence and strong gas kicks persisted through this interval.

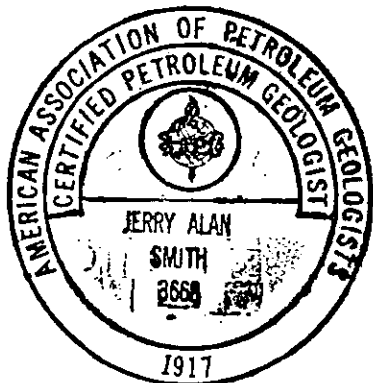
Cross-plot Porosity: 17 to 30%  
Resistivity: 1.4 to 2.0 ohms  
Water Saturation: 44 to 83%  
Bulk Volume Water: .1320 to .1577

4435-4440: 50% weathered chert as above with good shows as above, 50% fresh, dense chert as above. The samples from this interval carried a good odor, approximately 50% tray fluorescence and persistent strong gas kicks.

Cross-plot Porosity: 12.5 to 24%  
Resistivity: 1.3 to 3.0 ohms  
Water Saturation: 68 to 86%  
Bulk Volume Water: .1075 to .1632

Structurally, the Kennedy #4 ran "normal" for the local area (please refer to EXHIBIT 1).

Perforations should be considered from 4406' to 4428' (KB log) in order to further test the highest porosity portion of the Mississippian "Chat". Acid followed by fracture treatment as necessary are recommended. High fluid production appears to be a strong possibility.



Respectfully submitted,

A handwritten signature in cursive script, appearing to read "Jerry A. Smith".

Jerry A. Smith, CPG #3668  
Wellsite Geologist

STRUCTURAL COMPARISON  
 KEY HORIZONS/KEY CONTROL WELLS

	<u>COLT RESOURCES</u>	<u>COLT RESOURCES</u>	<u>MAGNOLIA</u>
	KENNEDY #4 660' FSL & 1870' FEL Sec. 15-31-9W	KENNEDY #3 774' FSL & 892' FEL Sec. 15-31-9W	KENNEDY #1 NE-NW-SE Sec. 15-31-9W
Heebner Shale	-1840	-1847	-1839
Lansing	-2029	-2034	-2028
B/Kansas City	-2550	-2554	-2540
Cherokee Lm.	-2695	-2698	-2690
Mississippian	-2766	-2768	-2768
B/Miss. Chat	-2800	-2800	-2806

All subsea data were calculated from open-hole logs.

HORIZONTAL DISPLACEMENT

DUE TO

BOREHOLE DEVIATION

Operator	Colt Resources Corp.	Contractor	Duke Drilling Co.
Well Name	Kennedy #4	Rig No.	2
Location	Sec. 15-31-9W	Spud Date	10/07/97
County	Harper	Comp. Date	10/13/97
State	Kansas	Toolpusher	John Armbruster
Field	Spivey-Grabs-Basil	Geologist	Jerry A. Smith

<u>Survey #</u>	<u>Depth</u>	<u>Course Length</u>	<u>Dev. (°)</u>	<u>Displacement Per 100'<sup>a</sup></u>	<u>Course Displacement<sup>b</sup></u>	<u>Cumulative Displacement</u>
1	222'	222'	3/4°	1.310	2.91'	2.91'
2	4500'	4278'	1/2°	0.873	37.35'	40.26'
3						
4						
5						
6						
7						
8						
9						
10						

<sup>a</sup> Sine of Angle of Dev. X 100

<sup>b</sup> (Course Length/100) X (Displacement Per 100')

DAILY DRILLING PROGRESS

- 10/07/97: MIRT. RUR. Spud @ 12:30 PM. Drill surface hole to 222' (KB). Set 8 5/8", 24# surface casing @ 221' (KB). 3/4° Dev. @ 222'. PD @ 4:30 PM. WOC 8 hrs. Drill plug @ 12:30 AM (10/08).
- 10/08/97: Drlg. @ 1000' @ 7:00 AM. Drl'd. 778' last 6½ hrs.
- 10/09/97: Drlg. @ 2230' @ 7:00 AM. Drl'd. 1230' last 24 hrs.
- 10/10/97: Drlg. @ 3118' @ 7:00 AM. Drl'd. 888' last 24 hrs. GOL @ 3345'. Mud up @ 3420'.
- 10/11/97: Drlg. @ 3830' @ 7:00 AM. Drl'd. 712' last 24 hrs.
- 10/12/97: Drlg. @ 4304' @ 7:00 AM. Drl'd. 474' last 24 hrs. Top of Miss. (4403' KB rotary) reached @ 12:00 Noon. RTD (4500') reached @ 6:15 PM. CFS 1 hr. @ RTD. Pull 20-std short trip. Circ. 2 hrs. for logs. ½° Dev. @ RTD. TOOH for logs. Commence logging @ approx. 3:00 AM (10/13).
- 10/13/97: Running open-hole logs @ 7:00 AM. Logging complete @ 7:30 AM. TIH w/bit. Prep. to LDDP & run 5½" prod'n. casing.