

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

ORIGINAL

API NO. 15- 063-21,399
County Gove
70' S OF
NW- NE- SE Sec. CONFIDENTIAL 31W X W

FEB 0 2

Operator: License # 4767

Name: Ritchie Exploration, Inc.

Address 125 N. Market, Suite 1000

City/State/Zip Wichita, KS 67202

Purchaser: n/a

Operator Contact Person: Rocky Milford

Phone (316) 267-4375

Contractor: Name: White & Ellis Drilling Co.

License: 5420

Wellsite Geologist: Kitt Noah

Designate Type of Completion
 New Well Re-Entry Workover

Oil SWD S10W Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, MSW, Expl., Cathodic, etc)

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

Operator: KANSAS CORPORATION

Well Name: 2-4-1992

Comp. Date 1/04/92 Old Total Depth 1/16/92

Deepening Re-perf. Conv. to Conservation Division
 Plug Back PBTB WICHITA, KS
 Commingled Docket No. 1/17/92
 Dual Completion Docket No. 1/16/92
 Other (SWD or Inj?) Docket No. 1/04/92

Spud Date 1/04/92 Date Reached TD 1/16/92 Completion Date 1/17/92

2240' Feet (S) (circle one) of Section Line
990' Feet (E) (circle one) of Section Line

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

Lease Name Engel Well # 3

Field Name unnamed

Producing Formation n/a

Elevation: Ground 2992' KB 2997'

Total Depth 4675' PBTB n/a

Amount of Surface Pipe Set and Cemented at: 211' Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set n/a Feet

If Alternate II completion, cement circulated from 211'

feet depth to surface w/ 140 sx cmt.

Drilling Fluid Management Plan Alt II DFB
(Data must be collected from the Reserve Pit)

Chloride content 1,200 ppm Fluid volume 300 bbls

Disastering method used evaporation

Location of fluid disposal if hauled offsite: n/a

Operator Name White & Ellis Drilling Co.

Lease Name 3-11-1994 License No. 1994

Quarter 1 Sec. 1 S Rng. 1 E/W

County Gove Docket No. 1994

FROM CONFIDENTIAL

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 [Signature]
Title President Date 2/03/92

Subscribed and sworn to before me this 3rd day of February, 19 92.

Notary Public Linda K. Rice
LINDA K. RICE
NOTARY PUBLIC
STATE OF KANSAS
My Appl. Exp. 6/7/92

Date Commission Expires 6/7/92

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

PI

Sec. 17, Twp. 11S, Rge. 131W

East
 West

County Gove

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.) Yes No
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No
 Electric Log Run (Submit Copy.) Yes No
 List All E.Logs Run:
 No log.

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

See attached page.

PLEASE KEEP THIS INFORMATION CONFIDENTIAL

CASING RECORD <input type="checkbox"/> New <input checked="" 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"	28#	211'	60/40 poz	140	2%gel, 3%CC

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

TUBING RECORD		Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj.		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: Vented Sold Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION: Open Hole Perf. Dually Comp. Commingled Other (Specify) _____

Production Interval _____

ORIGINAL

15-063-21399-00-00
KCC
Z-2
FEB 0 2

RITCHIE EXPLORATION, INC.

125 N. Market - Suite 1000

Wichita, Kansas 67202-1775

316-267-4375 FAX 316-267-3026

CONFIDENTIAL

#3 Engel
70' S of NW NE SE
Section 17-11S-31W
Gove County, Kansas
API# 15-063-21,399
ACO-1 Form
Page 2

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DRILL STEM TESTS

SAMPLE TOPS

DST #1 from 4101' to 4118'
(L/KC "D" & "E" zones).
Misrun. Hit bridge at 2650'.

DST #2 from 4101' to 4118'
(L/KC "D" & "E" zones).
Recovered 10' of watery mud.
IFP:20-20#/30"; ISIP:1085#/30";
FFP:30-30#/30"; FSIP:1063#/30".

DST #3 from 4173' to 4330'
(L/KC "H-L" zones). Recovered
240' of slightly watery cut
mud, no show of oil.
IFP:133-188#/30"; ISIP:1713#/30";
FFP:188-211#/30"; FSIP:1548#/30".
(Lost circulation at 4234'
resulted in supercharged SIPs)

Anhydrite	2517' (+ 480)
B/Anhydrite	2545' (+ 452)
Heebner	3994' (- 997)
Lansing	4037' (-1040)
Stark	4262' (-1265)
B/KC	4324' (-1327)
Marmaton	4354' (-1357)
Pawnee	4444' (-1447)
My. Station	4491' (-1494)
Ft. Scott	4513' (-1516)
Cherokee	4541' (-1544)
Johnson zn.	4586' (-1589)
Miss.	4618' (-1621)
RTD	4675' (-1678)

RELEASED
3-11-1994
MAR 1 1994

FROM CONFIDENTIAL

DST #4 from 4537' to 4600' (Johnson zone). Recovered 30'
of mud, few spots of oil.
IFP:33-33#/30"; ISIP:721#/30";
FFP:33-33#/30"; FSIP:88#/30".

RECEIVED
KANSAS CORPORATION COMMISSION

2-4-1992
FEB 4 1992

CONSERVATION DIVISION
WICHITA, KS

15-063-21399-00-00

Phone 913-483-2627, Russell, Kansas

Phone 316-755-5861, Great Bend, Kansas

ORIGINAL

KCC

Phone Plainville 913-434-2812

2-2
FEB 02

Phone Ness City 913-798-3843

No 2434

ALLIED CEMENTING CO., INC.

Home Office P. O. Box 31

Russell, Kansas 67665

Date	1-4-92	Sec.	17	Twp.	11	Range	31	Called Out		On Location		Job Start	12:45 PM	Finish	
Lease	Engel	Well No.	3	Location	Campus Exit 1/2 SW			County	Love	State	Kan				
Contractor	White & Ellis			Owner	15 1/2 W 1/2 N										
Type Job	Surface														
Hole Size	12 1/4	T.D.	212												
Csg.	8 7/8	Depth	211												
Tbg. Size		Depth													
Drill Pipe		Depth	PLEASE KEEP THIS INFORMATION CONFIDENTIAL												
Tool		Depth													
Cement Left in Csg.		Shoe Joint													
Press Max.		Minimum													
Meas Line		Displace	✓												
Perf.															

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 Ritchie Exp
Street 125 N. Market #1000
City Wichita State Kan 67202

The above was done to satisfaction and supervision of owner agent or contractor.

Purchase Order No. x Donald a. Donald rig #9

CEMENT

Amount Ordered	140 ⁶⁰ 40	3%	CC	2%	Label
Consisting of					
Common	84	SKs	2	6 ²⁰	512 ⁴⁰
Poz. Mix	56	SKs	2	2 ⁴⁰	134 ⁴⁰
Gel.	2	SKs	2	6 ²⁵	NIC
Chloride	4	SKs	2	21 ⁰⁰	84 ⁰⁰
Quickset					

Handling	1.00 per SK	140 ⁰⁰
Mileage	4¢ per SK/mile	45 ⁰⁰
5 mile		
JAN 92	1005479	Sub Total
		Total
		915 ⁸⁰

Floating Equipment RECEIVED
RELEASED 3-11-1994
KANSAS CORPORATION COMMISSION
2-4-1992
FEB 4 1992

FROM CONFIDENTIAL CONSERVATION DIVISION
2005334 WICHITA, KS

EQUIPMENT		
No.	Cementer	McAdoo
Pumptrk 153	Helper	
No.	Cementer	Dave F
Pumptrk	Helper	
	Driver	Mark D
Bulktrk 213		
Bulktrk	Driver	

DEPTH of Job		
Reference:	Pump Truck	380 ⁰⁰
	Plug	42 ⁰⁰
	2.00 per mile	10 ⁰⁰
	Sub Total	
	Tax	
	Total	432 ⁰⁰

Remarks: Cement Did C.C.
1892 SKS

JAN 08 1992

7, Russell, Kansas
 861, Great Bend, Kansas

ORIGINAL

KCC
 2-2
 FEB 0 2

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

ALLIED CEMENTING CO., INC.

1844

Home Office P. O. Box 31

Russell, Kansas 67665

15-063-21399-00-00

1-16-92	Sec. 17	Twp. 11	Range 31	Called Out 10:00 PM	On Location 1:45 AM	Job Start 2:15 AM	Finish 4:15 AM
Engel	Well No. #3	Location Campus 70 1/2 S 21st St & 5th Ave			County	State KANSAS	
Contractor White & Ellis Drlg Rig 9				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.							
Type Job Plug	Charge To Ritchie Exploration						
Hole Size 7 7/8"	T.D. 4675'	Street 125 N Market #1000					
Csg 8 5/8"	Depth 211'	City Wichita State Kan 67202					
Tbg Size	Depth	The above was done to satisfaction and supervision of owner agent or contractor.					
Drill Pipe	Depth	Purchase Order No. IS George Adelhardt					
Tool	Depth	CEMENT 2 SKS Flo-Seal					
Cement Left in Csg.	Shoe Joint	Amount Ordered 190 SKS 60/40 Poz 6% bel					
Press Max.	Minimum	Consisting of					
Meas Line	Displace	Common 114 6.10 695.40					
Perf.		Poz Mix 76 2.40 182.40					

EQUIPMENT

#177 No.	Cementor	M Kaufman
Pumptrk	Helper	Glenn G.
No.	Cementor	
Pumptrk	Helper	
#213	Driver	Lawrence H.
Bulktrk	Driver	

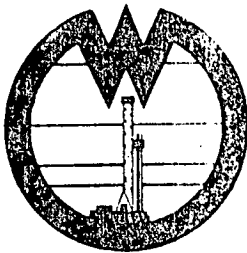
DEPTH of Job		
Reference #	PUMP TRK	3.80,00
	1-8 3/4" Plug	21.00
	200 Per mile	10.00
	Sub Total	411.00
	Tax	
	Total	

Remarks: 25 SKS @ 2520'
 100 SKS @ 1690'
 40 SKS @ 260'
 10 SKS @ 40' w/wiper plug
 15 SKS in RAT Hole

Handling	1.00	190.00
Mileage 5m	.04	45.00
Sub Total		1210.05
Total		

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 KANSAS CORPORATION CO.
 FEB 4 1992
 2-4-1992
 CONSERVATION DIVISION
 WICHITA, KS
 JAN 22 1992

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MAR 1 1 1994
3-11-1994
FROM CONFIDENTIAL

WHITE

AND ELLIS DRILLING, Inc.

DRILLERS LOG

OPERATOR: Ritchie Exploration, Inc., 125 N. Market - #1000,
Wichita, KS 67202

CONTRACTOR: White & Ellis Drilling, Inc. 401 E. Douglas - Suite 500
Wichita, Kansas 67202

Lease Name Engel Well No. 3

Sec. 17 T. 11S R. 31W Spot 70' S of
NW NE SE

County Gove State Kansas Elev. _____

Casing Record:

Surface: 211' @ 8 5/8" with 140 sx.

Production: _____ @ _____ with _____ sx.

Type Well: D & A Total Depth 4675'

Drilling Commenced 1-4-92 Drilling Completed 1-17-92

Formation	From	To	Tops	
Cellar	0	7	Anhydrite	2517
Shale	7	680	B/Anhydrite	2545
Shale & Sand	1560	2240	Topeka-Heebner	3815
Shale	2240	2570	Heebner-Lansing	4000
Shale & Lime	2570	2865	Lansing	4105
Shale	2865	2975	Kansas City	4118
Shales & Lime	2975	3420	KC/Marmaton	4260
Lime & Shale	3420	4675	Marmaton	4330
			Pawnee-Ft. Scott	4390
			Ft. Scott-	
			Cherokee	4480
			Johnson	4580
			Johnson-Cong.	
			Sand-Miss	4600
			Miss	4630

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KANSAS CORPORATION COMMISSION

2-4-1992
FEB 4 1992

CONSERVATION DIVISION
WICHITA, KS