

RECEIVED

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1
September 1999
Form Must Be Typed

FEB 11 2002

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

ORIGINAL

KCC WICHITA

4767

Operator: License # _____

Name: Ritchie Exploration, Inc.

Address: P.O. Box 783188

City/State/Zip: Wichita, KS 67278-3188

Purchaser: NCRA

Operator Contact Person: Karen Hopper

Phone: (316) 691-9500

Contractor: Name: _____

License: _____

Wellsite Geologist: _____

Designate Type of Completion:

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

If Workover/Re-entry: Old Well Info as follows:

Operator: Ritchie Exploration, Inc.

Well Name: Hillman

Original Comp. Date: 8/25/81 Original Total Depth: 4030'

- Deepening
- Re-perf.
- Conv. to Enhr./SWD
- Plug Back
- Plug Back Total Depth
- Commingled
- Docket No. _____
- Dual Completion
- Docket No. _____
- Other (SWD or Enhr.?)
- Docket No. _____

10/3/01 1/17/02
 Spud Date or Date Reached TD Completion Date or
 Recompletion Date Recompletion Date

API No. 15 - 195-20846-0001

County: Trego

App. C W2 W2NE4, Sec. 35 Twp. R22 East West

4060 feet from S / (circle one) Line of Section

4950 feet from (E) / W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:

(circle one) (NE) SE NW SW

Lease Name: Hillman Well #: 2

Field Name: Shaw Creek East

Producing Formation: Lansing

Elevation: Ground: 2325' Kelly Bushing: 2330'

Total Depth: 4030' Plug Back Total Depth: 3831'

Amount of Surface Pipe Set and Cemented at 169 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

(Data must be collected from the Reserve Pit)

OWWO KGR 1/16/08

Chloride content _____ ppm Fluid volume _____ bbls

Dewatering method used _____

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: Production Manager Date: 2/7/02

Subscribed and sworn to before me this 7th day of February

19 2002

Notary Public: Karen Hopper

Date Commission Expires: _____

KAREN HOPPER
 Notary Public - State of Kansas
 My Appt. Expires 10/27/03

KCC Office Use ONLY

- Letter of Confidentiality Attached
- If Denied, Yes Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution

Operator Name: Ritchie Exploration, Inc. Lease Name: Hillman Well #: 2
 Sec. 35 115 s. 8 T. 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 copy of all Electric Wireline 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
 (Submit Copy)

List All E. Logs Run:

R A Guard Log

Log Formation (Top), Depth and Datum Sample
 XX

Name	Top	Datum
Anhydrite	1762'	+56
B/Anhy	1806'	+52
Topeka	3330'	-100
Heebner	3534'	-120
Toronto	3555'	-122
Lansing	3572'	-124
B/KC	3817'	-148
Marmaton	3888'	-155
LTD	4025'	-169

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	# Sacs Used	Type and Percent Additives
surface	12 1/4"	8 5/8"	24#	169'	common	165	
production		4 1/2"	10.5#	3856'	60/40 poz	175	10% salt

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input checked="" type="checkbox"/> Perforate <input checked="" type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	1126-1214	common	250	3% calcium chloride

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
	Size	Set At	Amount	Kind	
1	SSB	3737' - 3741'	800 gals	28% acid	
1	3/8"	3674', 3662', 3653'	2800 gals	28% acid	
2	SSB	3672' - 3677'			
2	SSB"	3658' - 3664'			
2	SSB	3648' - 3654'			

TUBING RECORD	Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
	2.375"	3790'	3335'	

Date of First, Resumed Production, SWD or Enhr. 1/17/02 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	1	0	110		40.3

Disposition of Gas Vented Sold Used on Lease (If vented, Sumit ACO-18.) Open Hole Perf. Dually Comp. Commingled Other (Specify)

ORIGINAL

Well No. 2	Lease Name Hillman	Oil
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S 35 T 11 S R 22 EX
W

WELL LOG

Show all important zones of porosity and contents thereof; cored intervals, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

SHOW GEOLOGICAL MARKERS, LOGS RUN, OR OTHER DESCRIPTIVE INFORMATION.

FORMATION DESCRIPTION, CONTENTS, ETC.	TOP	BOTTOM	NAME	DEPTH
ELECTRIC LOG TOPS				
DST #1 from 3567'-3604' (Top zone). Gas to surface in 20". Too small to measure. Recovered 2755' of clean oil and 120' of slightly muddy oil, 5% water. IFP:197-753#/30"; ISIP:1175#/30"; FFP:418-1012#/30"; FSIP:1175#/30".			Anhydrite	1762' (+ 56)
			B/Anhy	1806' (+ 52)
			Topeka	3330' (-100)
			Heebner	3534' (-120)
			Toronto	3555' (-122)
			Lansing	3572' (-124)
			B/KC	3817' (-148)
			Marmaton	3888' (-155)
			LTD	4025' (-169)
DST #2 from 3602'-3642' (35' & 50' zones). Recovered 12' mud. IFP:32-32#/30"; ISIP:43#/30"; FFP:32-32#/30"; FSIP:43#/30".				
DST #3 from 3642'-3660' (70' zone). Recovered 225' of gas in pipe and 495' of slightly mud cut oil. IFP: 65-142#/30"; ISIP:471#/30"; FFP:175-197#/30"; FSIP:471#/30".				
DST #4 from 3664'-3704' (90' & 100' zones). Recovered 1605' of clean oil and 120' of slightly mud cut oil. IFP:142-427#/30"; ISIP:1056#/30"; FFP:482-655#/30"; FSIP:1045#/30".				
DST #5 from 3700'-3778' (140', 160', & 180' zones) Recovered 580' gas in pipe, 80' slightly oil cut mud, 486' oil cut mud to muddy oil. IFP:120-219#/30"; ISIP:991#/30"; FFP:252-274#/30"; FSIP:948#/30".				
DST #6 from 3775'-3830' (200' & 225' zones) Recovered 8' of drilling mud. IFP:54-65#/30"; ISIP:109#/30"; FFP:54-65#/30"; FSIP: 76#/30".				
DST #7 3894'-3935' (Marmaton). Recovered 5' mud. IFP:65-76#/30"; ISIP:131#/45"; FFP:65-76#/30"; FSIP: 76#/45".				

REC'D
 FEB. 1
 KCC WICHITA

USE ADDITIONAL SHEETS, IF NECESSARY, TO COMPLETE WELL RECORD.

ALLIED CEMENTING CO., INC. ORIGINAL 10335

Federal Tax I.D.#

P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT: Russell

DATE <u>10-8-01</u>	SEC.	TWP.	RANGE	CALLED OUT <u>5:00 AM</u>	ON LOCATION <u>9:30 AM</u>	JOB START	JOB FINISH <u>5:15 PM</u>
LEASE <u>Hillman</u>	WELL # <u>2</u>		LOCATION <u>Galloh UN 1 E 1 N</u>	COUNTY <u>Jeffco</u>	STATE <u>K</u>		
<input checked="" type="radio"/> OLD <input type="radio"/> NEW (Circle one)							

CONTRACTOR Express
 TYPE OF JOB Squear
 HOLE SIZE _____ T.D. _____
 CASING SIZE 4 1/2 DEPTH _____
 TUBING SIZE 2 3/8 DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. _____
 PERFS. _____
 DISPLACEMENT _____

OWNER _____
 CEMENT AMOUNT ORDERED
200 bbl Cem 3% cc
2 bbl Sand
 COMMON 200 @ 6.65 1330.00
 POZMIX _____ @ _____
 GEL _____ @ _____
 CHLORIDE 6 @ 30.00 180.00
 SAND 2 @ 56.00 112.00
 HANDLING 208 @ 1.10 228.80
 MILEAGE 4 1/2 / sk / mile 25.75
 TOTAL 2007.92

EQUIPMENT

PUMP/TRUCK CEMENTER Bill
 # 153 HELPER Jason
 BULK TRUCK DRIVER Shane
 # 460
 BULK TRUCK DRIVER _____
 # _____

REMARKS:

BPC 3260 - Test 1000 #8K
Spot 2 bbl sand
Hole c 1126-1214
Packer PRC 1004 Inj Rate 4 1/2 bbl/min
200 # Cement w/ 200 # 3% cc
Squeeze to 1680 # - wash down
2 bbl pull tubing, press to 500 #
shut in

DEPTH OF JOB _____
 PUMP TRUCK CHARGE _____ 630.00
 EXTRA FOOTAGE _____ @ _____
 MILEAGE 31 @ 3.00 93.00
 PLUG _____ @ _____
 TOTAL 723.00

CHARGE TO: Ritchie Exploration
 STREET _____
 CITY _____ STATE _____ ZIP _____

FLOAT EQUIPMENT

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.

SIGNATURE _____
 PRINTED NAME _____

TOTAL CHARGE _____
 DISCOUNT _____ IF PAID IN 30 DAYS

ALLIED CEMENTING CO., INC.

ORIGINAL
09894

Federal Tax I.D.#

P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:

R

10-17-01	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION 8:30am	JOB START 8:00am	JOB FINISH
WELL # <i>2</i>	LOCATION <i>Ogallah 3 1E 1N</i>			COUNTY <i>Shogo</i>	STATE <i>Ks</i>		

CONTRACTOR *Express Well Service*
 TYPE OF JOB *Squeeze*
 HOLE SIZE _____ T.D. _____
 CASING SIZE *4 1/2* DEPTH _____
 TUBING SIZE *2"* DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. _____
 PERFS. _____
 DISPLACEMENT _____

EQUIPMENT

PUMP TRUCK CEMENTER *Mank*
 # *345* HELPER *Dave*
 BULK TRUCK
 # *282* DRIVER *Colen*
 BULK TRUCK
 # _____ DRIVER _____

OWNER _____
 CEMENT
 AMOUNT ORDERED *100 Com 390cc*
1 Sand
lined 50sf
 COMMON *50* @ *6.65* *332.50*
 POZMIX @ _____
 GEL @ _____
 CHLORIDE *2* @ *30.00* *60.00*
Sand 1 @ *5.60* *5.60*
 HANDLING *104* @ *1.10* *114.40*
 MILEAGE *4 1/2 SK / Mile* *124.00*
 TOTAL *637.30*

REMARKS:

Spotted 1 Sand - Hole @ 1126 Plus @ 1000'
Rate of 2 bbl/min @ 900' - Mixed 50sf
Squeezed to 1000' - Washed 2 1/2 out
Pulled 2 1/2 Reperamed - Pulled tubing
Pass. Log to 500' - Shut in

[Signature]

SERVICE

DEPTH OF JOB _____
 PUMP TRUCK CHARGE _____ *630.00*
 EXTRA FOOTAGE @ _____
 MILEAGE *30* @ *3.00* *90.00*
 PLUG @ _____
 TOTAL *720.00*

CHARGE TO: *Ritchie*
 STREET _____
 CITY _____ STATE _____ ZIP _____

FLOAT EQUIPMENT

TAX _____
 TOTAL CHARGE _____
 DISCOUNT _____ IF PAID IN 30 DAYS

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.

SIGNATURE _____

PRINTED NAME _____