

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

ORIGINAL

Form ACO-1
September 1999
Print or Type

Operator: License # 4767
Name: Ritchie Exploration, Inc.
Address: P.O. Box 783188
City/State/Zip: Wichita, KS. 67278-3188
Purchaser: Enbridge
Operator Contact Person: John Niernberger
Phone: (316) 691-9500
Contractor: Name: Ludwick Well Service
License: 8234
Wellsite Geologist: L/A **KCC WICHITA**
Designate Type of Completion:
 New Well Re-Entry Workover
 Oil SWD SLOW 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: Flanagan #1
Original Comp. Date: 12/03/80 Original Total Depth: 3339'
 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. _____
01/26/90 03/05/90 03/05/90
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

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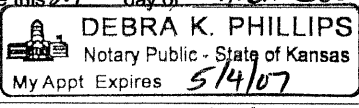
API No. 15 - 159-21056 ~~0001~~
County: Rice
 NW NW NW Sec. 20 Twp. 20 S. R. 9 East West
335' feet from S / (N) (circle one) Line of Section
4875' feet from (E) / W (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
(circle one) (NE) SE (NW) SW
Lease Name: Flanagan Well #: 1
Field Name: Chase-Silica
Producing Formation: Tarkio
Elevation: Ground: 1790' Kelly Bushing: 1794'
Total Depth: 3339' Plug Back Total Depth: 2301'
Amount of Surface Pipe Set and Cemented at 187' 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 *Wichita 3.3.04*
(Data must be collected from the Reserve Pit)
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: [Signature]
Title: Production Manager Date: 01/29/2004
Subscribed and sworn to before me this 29th day of Feb January, 2004.
Notary Public: [Signature]
Date Commission Expires: 5/4/07



KCC Office Use ONLY
 Letter of Confidentiality Attached
If Denied, Yes Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution

✓

ORIGINAL

Operator Name: Ritchie Exploration, Inc. Lease Name: Flanagan Well #: 1
 Sec. 20 Twp. 20 S. R. 9 East West County: Rice

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 <i>(Attach Additional Sheets)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name (See attached sheet)	Top Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Electric Log Run <i>(Submit Copy)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
List All E. Logs Run:			
Radiation-Guard, Sonic Cement Bond Log. <i>Sent in with original</i>			

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CASING RECORD <input checked="" 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	12.25"	8.625"	24#	187'	Common	150	2% Gel, 3% C.C.
Production	7.875"	5.50"	14#	3329'	Pozmix	125	10% Salt

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input checked="" type="checkbox"/> Perforate	3236' - 3339'	Common	5	50 gallons egg rock and sand - to plug back over perms
<input checked="" type="checkbox"/> Protect Casing				
<input checked="" type="checkbox"/> Plug Back TD	2213', 2301', 2386'	Pozmix & ASC	395	2% Gel, 1% C.C. - to protect casing for new perms
<input checked="" 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
	3329' - 3339' (Simpson Sand open-hole)	natural completion - plugged back 1/90	3236'
2	2271' - 2284' (Tarkio)	500 gals. 15%, 5000# sand	

TUBING RECORD		Size	Set At	Packer At	Liner Run
		2.375"	2292'		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumerd Production, SWD or Enhr.			Producing Method		
11/20/90			<input checked="" 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
	0	50	2		

Disposition of Gas Vented Sold Used on Lease *(If vented, Submit ACO-18.)*

METHOD OF COMPLETION Open Hole Perf. Dually Comp. Commingled

Production Interval Other (Specify) _____



RITCHIE

EXPLORATION, INC.
Wichita, Kansas

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KCC WICHITA

#1 Flanagan
75' E of NW NW NW
Section 20-20S-9W
Rice County, Kansas
Flanagan Prospect
API# 15-159-21056

Log Tops

Anhydrite	395'	+1399
B/Anhydrite	412'	+1382
Tarkio Sand	2305'	-511
Heebner	2844'	-1050
Toronto	2866'	-1072
Brn. Ls.	2978'	-1184
Lansing	3004'	-1210
Simpson Snd.	3328'	-1534
LTD	3330'	-1536

P.O. Box 783188
Wichita, Kansas 67278-3188

(316) 691-9500
Fax (316) 691-9550
rei@ritchie-exp.com

8100 E. 22nd St. N., Bldg. 700
Wichita, Kansas 67226-2328

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Phone 913-483-2627, Russell, Kansas
Phone 316-793-5861, Great Bend, Kansas

FEB 03 2004

Phone Plainville 913-434-2812

Phone Ness City 913-798-3843

KCC WICHITA

ALLIED CEMENTING CO., INC.

Home Office P. O. Box 31

Russell, Kansas 67665

ORIGINAL
10482

Date	Feb 10, 90	Sec.	20	Twp.	20	Range	9	Called Out	8 AM	On Location	9:30 AM	Job Start	11:30 AM	Finish	5:30 PM
Lease	Hanagan	Well No.	#1			Location	Phase 3/85 9 into			County	Lice	State	Ks		

Contractor	Ludwig Well/see		
Type Job	Squeeze Perts		
Hole Size	T.D.		
Csg.	5 1/2	Depth	
Tbg. Size	3 1/2	Depth	
Drill Pipe		Depth	
Tool	A500	Depth	2140
Cement Left in Csg.		Shoe Joint	
Press Max.		Minimum	
Meas Line		Displace	
Perf.	2213		

Owner	JAME
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	Rich's Exploration, Inc.
Street	125 N. Market, Suite 1000
City	Wichita
State	Ks. 67202
The above was done to satisfaction and supervision of owner agent or contractor.	

Purchase Order No.	X Bennie Pitts
--------------------	----------------

EQUIPMENT		
Pumptrk	No. 120	Cementer NND Helper Brad Worfeldt
Pumptrk	No. 4/B	Cementer Helper
Bulktrk	208	Driver Mike Henderson
Bulktrk		Driver

CEMENT			
Amount Ordered	75 Common - 1 cc		
Consisting of			
Common	75	5.00	375.00
Poz. Mix			
Gel.			
Chloride	1	20.00	20.00
Quickset			
Sales Tax			
Handling	75	.90	67.50
Mileage	25		56.25
Sub Total			
Total			518.75

DEPTH of Job	
Reference:	Pumptrk 838.00
	Mileage 25.00
Sub Total	
Tax	
Total 863.00	

Remarks:
 Ann Load analysis @ PSI 400#
 INJ rate 2 1/2 Bbls min.
 Mix 25 SKsw/30 SKcc @ 50 SKs
 Head Displaced to 20'
 below PLG.

Floating Equipment	
	1381.75
Disc.	207.27
	1174.48
	51.81
	1226.29

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Phone Plainville 913-434-2812

Phone Ness City 913-798-3843

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Phone 316-793-5861, Great Bend, Kansas

ALLIED CEMENTING CO., INC.

KCC WICHITA

Home Office P. O. Box 31

Russell, Kansas 67665

No. 6090

ORIGINAL

OLD

Date	2-3-90	Sec.	20	Twp.	20	Range	9	Called Out	8:00 AM	On Location	10:00 A.M.	Job Start	12:00 noon	Finish	
Lease	Managan	Well No.	#1	Location				Chase 3 1/8 s E into	County	Rice	State		Ks.		

Contractor	Radwick Well Service
Type Job	Squeeze "Perf"
Hole Size	T.D.
Csg.	5 1/2
Tbg. Size	2 1/2"
Drill Pipe	Depth 2216'
Tool	ASCO
Cement Left in Csg.	Depth 2216'
Press Max.	Shoe Joint
Meas Line	Minimum 1900#
Perf.	Displace 13.18 bbls

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	Ritchie Exploration Inc
Street	125 N. MARKET Suite 1000
City	Wichita
State	Ks. 67202
The above was done to satisfaction and supervision of owner agent or contractor	

Purchase Order No.	
x	Bennie Dills

EQUIPMENT		
No.	Cementer	Steve Keppen
Pumptrk #120	Helper	Beard
No.	Cementer	Allen
Pumptrk	Helper	
	Driver	Tack S.
Bulktrk #68	Driver	

CEMENT			
Amount Ordered	200 cks 60/40 2% gelsonite		
Consisting of			
Common	120	5.00	600.00
Poz. Mix	80	2.25	180.00
Gel.			
Chloride			
Quickset			
	Gilsonite 400#	.29	116.00
		Sales Tax	
Handling	200	.90	180.00
Mileage	25		150.00
		Sub Total	
		Tax	
		Total	1226.00

DEPTH of Job	
Reference:	Pump truck 838.00
	Mileage 25.00
Sub Total	
Tax	
Total 863.00	

Remarks: Load back side to 800#. Took 1 1/2 hrs. rate of 2 bbls @ min @ 1300#. Mixed cement and displaced 13.25 bbls. Staged for 3 hrs. Squeezed @ 1500#. Pulled tubing press. up casing and leave overnight.

Floating Equipment	
Thank You!	
TOTAL	\$ 2089.00
Disc.	313.35
	1775.65
TAX	62.64
	\$ 1838.29

Phone 913-483-2627, Russell, Kansas
 Phone 316-793-5861, Great Bend, Kansas

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

KCC WICHITA

ALLIED CEMENTING CO., INC.

Home Office P. O. Box 31

Russell, Kansas 67665

No. 10479

Old

ORIGINAL

Date	1-29-90	Sec.	20	Twp.	20	Range	9	Called Out	8 AM	On Location	9 AM	Job State	10 AM	Finish	4:00
Lease	Flanagan	Well No.	1	Location				CHASE 35 ft E side			County	Kice	State	Ks	

Contractor		Ludwick Well Serv	
Type Job		Squeeze	
Hole Size	4 7/8	T.D.	
Csg.	5 1/2	Depth	3326 Plug ³²⁷⁶
Tbg. Size	2 3/8 2 1/2	Depth	2320
Drill Pipe		Depth	
Tool	ASCO	Depth	2327
Cement Left in Csg.		Shoe Joint	
Press Max.	4 1000#	Minimum	
Meas Line		Displace	148815-
Perf.	2386-		

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	Ritchie Exploration INC
Street	125 N. MARKET Suite 1000
City	Wichita State Ks. 67202
The above was done to satisfaction and supervision of owner agent or contractor.	

Purchase Order No.	
X	Benne Dills

EQUIPMENT

Pumptrk	No.	Cementer	NND
	63	Helper	
Pumptrk	No.	Cementer	K. Klepree
		Helper	
Bulktrk		Driver	Jack Schenkel
	68	Driver	

CEMENT		
Amount Ordered	120 ASC -	
Consisting of		
Common	120 ASC	2.00 840.00
Poz. Mix		
Gel.		
Chloride		
Quickset		
Sales Tax		
Handling	120	.90 108.00
Mileage	25	90.00
Sub Total		
FEB 16 1990		
Total		1038.00

DEPTH of Job

Reference:	Pump trk.	938.00
	Mileage	25.00
	Head & manifold	N/C
Sub Total		
Tax		
Total		863.00

Remarks:

Run trk to 2420 test Plug @ 500-5016 Set tool @ 2327
 INI Rate 3 1/2 BBLs @ 1000#
 mix cement & Displace to 40 below trk. Staged for 2 1/2 hrs.

Thank you!

Floating Equipment	
Pull trk & Load hole & Shot IN.	
Total	\$ 1901.00
Disc -	285.15
	1615.85
TAX	55.71
	\$ 1671.56

K. T. WOODMAN
RES. PHONE 733-0418
OFF. PHONE 265-7650
WICHITA, KANSAS

D. J. IANNITTI
PHONE 792-2921
GREAT BEND, KANSAS

WOODMAN & IANNITTI DRILLING COMPANY

Rotary Drilling Contractors

1008 DOUGLAS BUILDING
104 S. BROADWAY
WICHITA, KANSAS 67202

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December 9, 1980

ORIGINAL

Company;	A. Scott Ritchie d/b/a Lance Drilling Inc.
Farm;	Father Flanagan #1
Location;	75' E of NW NW NW
Section;	20-20-9W
County;	Rice
Contractor;	Woodman & Iannitti Drilling Co.
Comm;	November 26, 1980
Compl;	December 3, 1980
Total Depth;	3329
Casing;	8 5/8 @ 187.43 w/150 sacks
Production;	5 1/2 @ 3328½ w/125 sacks

Figures Indicate Bottom Of Formations;

40	Surface soil
116	Hard sand
187	Blue shale
398	Redbed
418	Anhy
1218	Shale
2050	Shale & lime
2790	Shale & lime
3040	Line
3092	Lansing
3180	Lime
3280	Shale
3329	Lime

I certify the above to be a true and correct copy of the drillers log to the best of my knowledge and belief.

Woodman & Iannitti Drilling Co.

K. T. Woodman

K. T. Woodman