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ORIGINAL

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

JUL 24

CONFIDENTIAL

API NO. 15- 137-20,382
County Norton
S/2-SW - SW Sec. 21 Twp. 5S Rge. 22 X W

Operator: License # 4767
Name: Ritchie Exploration, Inc.
Address 125 N. Market, Ste. 1000
City/State/Zip Wichita, KS 67202

330 Feet from S/N (circle one) Line of Section
4620 Feet from E/W (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
NE, SE, NW or SW (circle one)

Purchaser: Texaco Trading & Transportation
Operator Contact Person: Jeff Christian
Phone (316) 267-4375

Lease Name White 21A Well # 1
Field Name
Producing Formation L/KC

Contractor: Name: Murfin Drilling Company, Inc.
License: 30606

Elevation: Ground 2267' KB 2272'
Total Depth 3765' PBDT 3740'
Amount of Surface Pipe Set and Cemented at 263 Feet

Wellsite Geologist: K. Kessler
Designate Type of Completion
X New Well Re-Entry Workover

Multiple Stage Cementing Collar Used? X Yes No
If yes, show depth set 1857' Feet
If Alternate II completion, cement circulated from 1857'
feet depth to surface w/ 275 sx cmt.

X Oil SWD SLOW Temp. Abd.
Gas ENHR SIGW
Dry Other (Core, WSW, Expl., Cathodic, etc)

Drilling Fluid Management Plan ALT 2 9/21/92 JAH
(Data must be collected from the Reserve Pit)

If Workover/Re-Entry: old well info as follows:
Operator:
Well Name:
Comp. Date Old Total Depth

Chloride content 1500 ppm Fluid volume 600 bbls
Dewatering method used evaporation
Location of fluid disposal if hauled offsite:

Deepening Re-perf. Conv. to Inj/SWD
Plug Back PBDT
Commingled Docket No.
Dual Completion Docket No.
Other (SWD or Inj?) Docket No.

Operator Name
Lease Name
Quarter Sec. Twp. S Rng. E/W
County SEP 6 1994 Docket No.

04-16-92 04-22-92 5-7-92
Spud Date Date Reached TD Completion Date

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 confidential information). One copy of all wireline logs and geologist well report shall be attached to 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 7-24-92
Subscribed and sworn to before me this 24 day of JULY 19 92
Notary Public Lisa Thimmesch
Date Commission Expires

RECEIVED
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)

LISA THIMMESCH
NOTARY PUBLIC
STATE OF KANSAS
My Appt. Exp. 8-27-95

Operator Name Ritchie Exploration, Inc. Lease Name White 21A Well # 1
 Sec. 21 Twp. 5S Rge. 22 East County Norton
 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 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
 Name Top Datum

SEE ATTACHED SHEET

PLEASE KEEP THIS INFORMATION CONFIDENTIAL

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"	28#	263'	60/40	170	2%gel 3%CC
production	7-7/8"	4 1/2"	10.5#	3763'	60/40poz	150 165 KCC	10% salt 3% gilsonite

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	Acid, Fracture, Shot, Cement Squeeze Record
	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used) Depth
3	3632'-3636' 180' zone	500 gallons 28% & 500 gallons 15% 3632'- 3636'

TUBING RECORD		Size	Set At	Packer At	Liner Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Date of First, Resumed Production, SWD or Inj.					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 Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity		
	57.54	0.00	0.06				

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

RITCHIE EXPLORATION, INC.

125 N. Market - Suite 1000
Wichita, Kansas 67202-1775
316-267-4375 FAX 316-267-3026

KJC ORIGINAL

JUL 24

CONFIDENTIAL

#1 White 21A
Approx. S/2 SW SW
Section 21-5S-22W
Norton County, Kansas
API# 15-137-20,382
Murfin Drilling Rig #8

LOG TOPS

Anhydrite	1888' (+ 384)
B/Anhydrite	1918' (+ 354)
Topeka	3240' (-968)
Heebner	3440' (-1168)
Toronto	3467' (-1195)
Lansing	3484' (-1212)
B/KC	3671' (-1399)
LTD	3765' (-1493)

RELEASED

SEP 6 1994

FROM CONFIDENTIAL

DST #1 from 3438' to 3478' (Toronto). Recovered 35' mud, no show of oil.
IFP:67-67#/30"; ISIP:1066#/30";
FFP:76-76#/30"; FSIP:1028#/30".

DST #2 from 3525' to 3542' (L/KC 50' zone). Recovered 5' free oil; 40' watery oil cut mud (30% oil, 50% mud, 20% water).
IFP:67-67#/30"; ISIP:1314#/45";
FFP:76-76#/30"; FSIP:1295#/45".

DST #3 from 3541' to 3556' (L/KC 70' - 90' zones). Recovered 1' free oil, 29' muddy saltwater.
IFP:57-57#/30"; ISIP:1286#/45";
FFP:67-67#/30"; FSIP:1248#/45".

DST #4 from 3612' to 3642' (L/KC 180' zone). Recovered 720' gas in pipe, 300' clean gassy oil, 60' muddy oil (50% oil, 50% mud). 360' total fluid.
IFP:86-105#/30"; ISIP:1190#/45";
FFP:134-163#/30"; FSIP:1162#/45".

RECEIVED
KANSAS CORPORATION COMMISSION

JUL 24 1992

CONSERVATION DIVISION
WICHITA, KS

PLEASE KEEP THIS
INFORMATION
CONFIDENTIAL

Russell, Kansas
 73-5861, Great Bend, Kansas

JUL 24
 CONFIDENTIAL

ORIGINAL

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

ALLIED CEMENTING CO., INC.

2195

Home Office P. O. Box 31

Russell, Kansas 67665

Date	4-16-92	Sec.	21	Twp.	5 ^S	Range	22 ^W	Called Out	4:00 P.M.	On Location	6:40 P.M.	Job Start	7:00 P.M.	Finish	7:30 P.M.
Lease	White-21A Well No. 1			Location				Hill City 14N2E 3/4 N 1/2 E 1N		County	Norton	State	Ks.		
Contractor	Munfin Dng. Co.			Rig #				8		Owner	Sear				
Type Job	Set Surface Pipe														
Hole Size	12 1/4"		T.D.	264'											
Csg.	8 3/8"		Depth	263'											
Tbg. Size			Depth												
Drill Pipe			Depth												
Tool			Depth	RELEASED											
Cement Left in Csg.	15'		Shoe Joint												
Press Max.			Minimum	SEP 6 1994											
Meas Line	X		Displace	X											
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 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 *Phil Dilled*

FROM CONFIDENTIAL

CEMENT

EQUIPMENT

Pumptrk	No.	Cementor	Gary H. Wayne Me.
	191	Helper	
Pumptrk	No.	Cementor	Joe S.
	#212	Helper	
Bulktrk		Driver	
Bulktrk		Driver	

Amount Ordered	170 sks @ 40 pps @ 26 gal, 3% C.C.		
Consisting of			
Common	102 sks @ 5.25/sk.	\$ 535.50	
Poz. Mix	68 sks @ 2.25/sk.	153.00	
Gel.	3 sks	N/C	
Chloride	5 sks @ 21.00/sk	105.00	
Quickset			

DEPTH of Job		
Reference #1	Pumptruck-surface	\$ 380.00
#13	mileage @ 2.00/mi	104.00
	1-8 3/8" rubber plug	73.00
	Sub Total	557.00
	Tax	
	Total	

Handling	21.00/sk. (170 sks)	170.00
Mileage	@ 0.44/sk./mi. (52 mi.)	353.60
Sub Total		\$ 1317.10
Total		

RECEIVED
 KANSAS CORPORATION COMMISSION

JUL 24 1992

CONSERVATION DIVISION
 WICHITA, KS

APR 22 1992

Remarks: Cement Circulated.

*Copy to Lisa
 4-22-92*

2627, Russell, Kansas
 316-793-5861, Great Bend, Kansas

JUL 24
 CONFIDENTIAL

ORIGINAL
 New

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

ALLIED CEMENTING CO., INC.
 Home Office P. O. Box 31
 Russell, Kansas 67665

2028

4-22-92
 4-23-92

Date	4-23-92	Sec.	21	Fwp.	5 ^S	Range	22 ^W	Called Out	6:00 P.M.	On Location	10:30 P.M.	Job Start	2:00 A.M.	Finish	3:15 A.M.	
Lease	White - 21 "A"	Well No.	1	Location				Hill City 14N 2E 1/4 1/2 E IN	County	Norton	State	Ks.				
Contractor	Murkin Dng. Co.	Rig # 8				Owner										SAMS
Type Job	Production String															
Hole Size	7 7/8"	T.D.		3765'												
Csg.	4 1/2"	Depth		3763'												
Csg. Size	8 7/8"	Depth		263'												
Drill Pipe	Depth															
Tool	Baker Port Collar	Depth		1857'												
Cement Left in Csg.	22'	Shoe Joint		22'												
Press Max.	800 #	Minimum Displace														
Meas Line	X	KANSAS CORPORATION COMMISSION														
Perf.	JUL 24 1992															

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. [Signature]
 X [Signature]

CEMENT

EQUIPMENT CONSERVATION DIVISION
 WICHITA, KS

No.	Cementer	Gary H. Wayne, Mo.
Pumptrk 191	Helper	
No.	Cementer	Joe S.
Pumptrk	Helper	
Bulktrk #212	Driver	
Bulktrk	Driver	

RELEASED
 SEP 6 1994

FROM CONFIDENTIAL

DEPTH of Job	1-4 1/2" rubber plug	# 33.00
Reference: #1	Pumptruck-long string	880.00
#12	Rotating Swivel (4 1/2")	60.00
#13	mileage @ 2.00/mi.	104.00
Sub Total		1077.00
Tax		
Total		

Remarks: Float Held.
 Plugged rat hole w/15 sks.

Thanks

Amount Ordered	165 sks 6 1/4 40 gal. 10% salt,
Consisting of	3% gilsonite, 1/2 500 gal WFR II Plusk
Common	99 sks @ 5.25/sk. # 519.75
Poz. Mix	66 sks @ 2.25/sk. 148.50
Gel.	
Chloride Salt	16 sks @ 4.75/sk. 76.00
Quikset	Gilsonite - 428 # @ 33#/lb. 141.24
WFR II	500 gal. @ 50¢/gal. 250.00

Handling	@ 1.00/sk. (165 sks)	165.00
Mileage	@ 0.4¢/sk./mi. (52 mi.)	343.20
Sub Total		# 1643.69
Total		

Floating Equipment		
1-regular guide shoe		# 109.00
1-AFU insert (Flapper type)		- 169.00
1-centralizer		- 43.00
5-turbo centralizers	@ 55.00 ea	- 275.00
1-cementing basket		- 113.00
1-port collar (Baker)		- 1680.00
		# 2389.00

MAY 1 1992
 MAY 6 1992

Russell, Kansas
 5861, Great Bend, Kansas JUL 24

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

ALLIED CEMENTING CO., INC.
 Home Office P. O. Box 31
 Russell, Kansas 67665

2039

Date	Sec.	Twp.	Range	Called Out	On Location	Job Start	Finish	
5-5-92	21	5 ^s	22 ^w	8:00 A.M.	1:00 P.M.	2:00 P.M.	4:00 P.M.	
Lease White 21"A"	Well No. 1	Location Hill City 14N 2E 3/4N 1/2E 1N			County Norton	State Ks.		
Contractor <i>Murfin Drilling Co.</i>				Owner <i>Same</i>				
Type Job <i>Port Collar</i>				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.				
Hole Size <i>7 7/8"</i>	T.D.	<i>3765'</i>		Charge To <i>Ritchie Exploration, Inc.</i>				
Csg. <i>4 1/2"</i>	Depth	<i>3762'</i>		Street <i>125 N. Market, Suite 1000</i>				
Tbg. Size <i>2"</i>	Depth			City <i>Wichita</i> State <i>Ks. 67202</i>				
Surface Drill Pipe <i>8 7/8"</i>	Depth	<i>263'</i>		The above was done to satisfaction and supervision of owner agent or contractor.				
Tool <i>X-Port Bridge Plug</i>	Depth	<i>3330'</i>		Purchase Order No. <i>[Signature]</i>				
Cement Left in Csg.	Shoe Joint			X <i>[Signature]</i>				
Press Max. <i>1000 #</i>	Minimum			CEMENT				
Meas Line	Displace	<i>X</i>		Amount Ordered <i>275 sks 50/30 poz 620 gal</i>				
Perf. <i>Port collar at 1857'</i>					Consisting of <i>with 1/4 # of Floseal 1 sk.</i>			

EQUIPMENT

No.	Cementor	Helper
Pumptrk <i>191</i>	<i>Gary H.</i>	<i>Wayne Mc.</i>
Pumptrk <i>No.</i>	RELEASED	
Pumptrk <i>#</i>	Driver <i>SEP 6 1991</i>	<i>Joe S.</i>
Bulktrk <i>212</i>		
Bulktrk <i># 218</i>	FROM CONFIDENTIAL	<i>Paul D.</i>

Reference	DEPTH of Job	Amount
<i>#5 Pumptruck - Port Collar</i>		<i>475.00</i>
<i>#13 mileage 2.00/mi.</i>		<i>104.00</i>
	Sub Total	<i>579.00</i>
	Tax	
	Total	

Remarks: *Port collar opened & closed okay & held. Cement circulated.*
copy to Hec 5-15-92 SKS

Common	<i>138 sks @ 5.25/sk.</i>	<i>724.50</i>
Poz. Mix	<i>137 sks @ 2.25/sk.</i>	<i>308.25</i>
Gel.	<i>9 sks @ 6.75/sk. (Used 14 sks)</i>	<i>60.75</i>
Chloride		
Quikset	<i>Floceal - 69 # @ 1.00/16.</i>	<i>69.00</i>
Sand	<i>1 sk @ 4.75/sk.</i>	<i>4.75</i>
Sales Tax		
Handling	<i>1.00/sk. (275 sks)</i>	<i>275.00</i>
Mileage	<i>2.04 1/sk./mi. (52 mi.)</i>	<i>572.00</i>
Sub Total		<i>2014.25</i>
Total		

Floating Equipment *Thanks*
RECEIVED
 KANSAS CORPORATION COMMISSION
 MAY 14 1992
 JUL 24 1992
 CONSERVATION DIVISION
 WICHITA, KS
 MAY 11 1992