

ORIGINAL

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 # 4767
Name: Ritchie Exploration, Inc.
Address 125 N. Market, Suite 1000
Wichita, KS 67202

City/State/Zip _____
Purchaser: Koch Oil Co.

Operator Contact Person: Rocky Milford
Phone (316) 267-4375

Contractor: Name: Murfin Drilling Co.
License: 6033

Wellsite Geologist: Jeff Christian

Designate Type of Completion
 New Well Re-Entry Workover
 Oil SWD Temp. Abd.
 Gas Inj Delayed Comp.
 Dry Other (Core, Water Supply, etc.)

If OWMO: old well info as follows:
Operator: _____
Well Name: _____
Comp. Date _____ Old Total Depth _____

Drilling Method:
 Mud Rotary Air Rotary Cable
2/08/90 2/18/90 3/09/90
Spud Date Date Reached TD Completion Date

API NO. 15- 063-21,314-00-00
County Gove FROM CONFIDENTIAL

NE NE NE Sec. 15 Twp. 11 Rge. 31 East West
4950 Ft. North from Southeast Corner of Section
330 Ft. West from Southeast Corner of Section
(NOTE: Locate well in section plat below.)

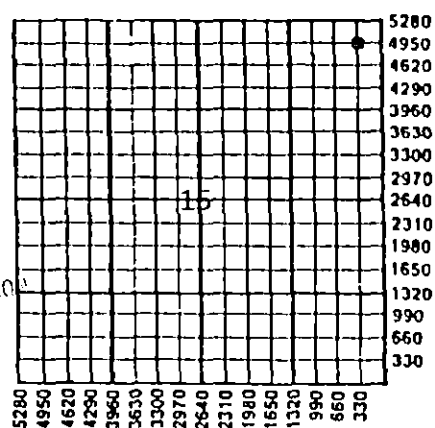
Lease Name Tatum Well # 2

Field Name Unknown

Producing Formation Lansing-Kansas City

Elevation: Ground 2983' KB 2988'

Total Depth 4650' PBTD n/a



RECEIVED
CORPORATION COMMISSION OF KANSAS
MAY 31 1990
CONSERVATION DIVISION
Wichita, Kansas

Amount of Surface Pipe Set and Cemented at 312' Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set 2511' Feet

If Alternate II completion, cement circulated from 2511'

feet depth to surface w/ 175 sx cmt.

INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 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 drillers time log 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. Any recompletion, workover or conversion of a well requires filing of ACO-2 within 120 days from commencement date of such work.

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 5/11/90

Subscribed and sworn to before me this 11th day of May, 19 90.

Notary Public Linda K. Rice

Date Commission Expires 6/07/92



K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Drillers Time Log Received

Distribution
 KCC SWD/Rep NGPA
 KGS Plug Other (Specify)

ORIGINAL

SIDE TWO

Operator Name Ritchie Exploration, Inc. Lease Name Tatum Well # 2
Sec. 15 Twp. 11S Rge. 31 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 Yes No
(Attach Additional Sheets.)
Samples Sent to Geological Survey Yes No
Cores Taken Yes No
Electric Log Run Yes No
(Submit Copy.)
(See attached page).

Formation Description
 Log Sample
Name _____ Top _____ Bottom _____
(See attached page).

CASING RECORD New 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 1/2"	8-5/8"	23#	312'	60/40 poz	175	2%gel;3%CC
Production	7-7/8"	4 1/2"	10.5#	4647'	60/40 poz	150	3%gilsonite & 10% salt

PERFORATION RECORD

Shots Per Foot	Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
2 Shots	4302'-4306'; 4241'-4244'	Acidized w/500 gal 15% acid	4302'-06'
		Acidized w/500 gal. 15% acid	4241'-44'

TUBING RECORD

Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No

Date of First Production 3/09/90 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours: Oil 50 Bbls. Gas McF Water 25 Bbls. Gas-Oil Ratio _____ Gravity _____

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

METHOD OF COMPLETION: Open Hole Perforation Dually Completed Commingled Other (Specify) _____

Production Interval: 4302'-06' & 4241'-44'

ORIGINAL

Ritchie Exploration, Inc.
#4767
#2 Tatum
NE NE NE
Section 15-11S-31W
Gove County, KS
ACO-1
Page 2

FROM CONFIDENTIAL

DRILL STEM TESTS

DST #1 from 4106' to 4122' (L/KC "E" zone).
Recovered 100' of muddy water, scum of
oil on top.

IFP:33-44#/30"; ISIP:1035#/30";
FFP:44-55#/30"; FSIP:783#/30".

DST #2 from 4171' to 4262' (L/KC "H",
"I", & "J" zones). Recovered 160' gas
in pipe; 200' oil cut watery mud (20%
oil, 40% mud, 40% water); 180' slightly
oil cut watery mud (14% gas, 6% oil, 40%
mud, 40% water); and 740' muddy gas cut
water. 1,120' total fluid.

IFP:100-333#/45"; ISIP:652#/45";
FFP:366-488#/45"; FSIP:641#/45".

DST #3 from 4256' to 4320' (L/KC "K" & "L" zones). Recovered 680' gas
in pipe; 30' slightly oil and gas cut mud; 120' gas and oil cut mud; and
60' gas and mud cut oil. 210' of total fluid.

IFP:66-88#/30"; ISIP:762#/45";
FFP:100-122#/30"; FSIP:729#/45".

DST #4 from 4414' to 4496' (Pawnee-Myrick Station). Recovered 15' of mud,
no show of oil.

IFP:55-66#/45"; ISIP:166#/45";
FFP:66-66#/45"; FSIP:100#/45".

DST #5 from 4496' to 4597' (Ft. Scott, Cherokee, & Johnson zone). Recovered
90' gas in pipe and 300' of muddy water with slight scum of oil on top.

IFP:66-122#/45"; ISIP:958#/60";
FFP:155-188#/45"; FSIP:849#/60".

ELECTRIC LOG TOPS

Anhydrite	2518' (+ 470)
B/Anhydrite	2546' (+ 442)
Topeka	3776' (- 788)
Heebner	3995' (-1007)
Toronto	4019' (-1031)
Lansing	4037' (-1049)
Muncie Creek	4175' (-1187)
Stark	4257' (-1269)
B/KC	4317' (-1329)
Marmaton	4342' (-1354)
Pawnee	4441' (-1453)
Myrick Station	4482' (-1494)
Ft. Scott	4505' (-1517)
Cherokee	4534' (-1546)
Johnson zn.	4578' (-1590)
Miss. Ln.	4598' (-1610)
Miss. Dolo.	4618' (-1630)
LTD	4649' (-1661)

RECEIVED
MAY 31 1990
CONSERVATION DIVISION
Wichita, Kansas

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

ORIGINAL

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

ALLIED CEMENTING CO., INC. No. 8648

Home Office P. O. Box 31 Russell, Kansas 67665

New

Date	2-8-90	Sec.	15	Twp.	11	Range	31	Called Out	2:00 PM	On Location	5:30 PM	Job Start	11:15 PM	Finish	11:45 PM
Lease	TATUM	Well No.	#2	Location	Campus 1/2 S. W.S.			County	Gove	State	Kansas				

Contractor	MURFIN DRbg. Rig #8	
Type Job	Surface	
Hole Size	12 1/4	T.D.
Csg.	8 5/8	Depth
Tbg. Size		Depth
Drill Pipe		Depth
Tool		Depth
Cement Left in Csg.	15'	Shoe Joint
Press Max.		Minimum
Meas Line	✓	Displace
Perf.		

Owner	To Allied Cementing Co., Inc. You are hereby requested to rent cementing equipment and furnish cement and helper to assist owner or contractor to do work as listed.
Charge To	RITCHIE EXPLORATION INC
Street	125 N. MARKET #1000
City	Wichita
State	Kansas
The above was done to satisfaction and supervision of owner agent or contractor.	

Purchase Order No.	
X	<i>[Signature]</i>
CEMENT	

Amount Ordered	175 SK 60/40 2% gel 3% cc
Consisting of	
Common	105 SK @ 6.00 = 630.00
Poz. Mix	7 @ SK @ 2.40 = 168.00
Gel	3 @ SK @ 6.75 = 20.25
Chloride	5 SK @ 20.00 = 100.00
Quickset	

Handling	2.90 \$	157.50
Mileage	3¢/SK/MILE	40.00
Sub Total		1115.75
Total		1115.75

EQUIPMENT

Pumptrk	No. #177	Cementer	<i>[Signature]</i>
		Helper	<i>[Signature]</i>
Pumptrk	No.	Cementer	
		Helper	
Bulktrk	#156	Driver	<i>[Signature]</i>
Bulktrk		Driver	

DEPTH of Job		
Reference:	Pump TRUCK Chrg.	360.00
	1.00 PER MILE	6.00
	1-8 5/8 Plug	40.00
	Sub Total	
	Tax	
	Total	406.00

Remarks:

Cement Circulated

[Signature]

CONSERVATION
Wichita, Kan

Floating Equipment 1

1990

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

ORIGINAL

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

ALLIED CEMENTING CO., INC. No. 8557

Home Office P. O. Box 31 Russell, Kansas 67665

New

Date	2-19-90	Sec.	15	Twp.	11	Range	31	Called Out		On Location		Job Start	12:10 PM	Finish	12:45 PM
Lease	Tatum	Well No.	2	Location	Campus 3/4 S W.S.			County	Gove	State	Ks				

Contractor	Murfin Ddg #8		
Type Job	Production String		
Hole Size	7 7/8	T.D.	4650
Csg.	4 1/2	Depth	4647
Tbg. Size		Depth	
Drill Pipe		Depth	
Tool	Baker	Depth	2518
Cement Left in Csg.		Shoe Joint	34'
Press Max.	/	Minimum	
Meas Line		Displace	
Perf.			

Owner	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
Street	125 N Market #1000
City	Washington State Kan 67202
The above was done to satisfaction and supervision of owner agent or contractor.	
Purchase Order No.	
X	Tom Port
10 salt flush CEMENT	
Amount Ordered	150 40 10% salt 3% gilsante

EQUIPMENT

No.	Cementer	Dave
Pumptrk 153	Helper	Gerald
No.	Cementer	
Pumptrk	Helper	
	Driver	Joel
Bulktrk 22	Driver	

Consisting of			
Common	90	6.00	540.00
Poz. Mix	60	2.40	144.00
Gel.			
Chloride			
Sp. G. 1	392 #	29	11368
Salt	23	475	10925
Sales Tax			
Handling		90	135.00
Mileage	Min	03	40.00
Sub Total			1081.93
Total			

DEPTH of Job	
Reference:	
Pump trk chg	838.00
100 Per mile	6.00
4 1/2 Rubber Plug	31.00
Sub Total	875.00
Tax	
Total	

Floating Equipment	4 1/2
1 Baker Port Collar	# 1328.00
1 Guide Shoe	104.00
1 AFU Insert	161.00
2 Baskets	216.00
6 Centilizers	246.00
	# 2055.00

Remarks: plug rat hole w/ 15 sk
 part collar on 52nd Jt. 52nd
 Centilizers on 135 8 11 51
 Baskets on 52nd + 89
 Float held

ORIGINAL

Phone 913-483-2627, Russell, Kansas

Phone 316-793-5861, Great Bend, Kansas

Phone Plainville 913-434-2812

Phone Ness City 913-798-3843

ALLIED CEMENTING CO., INC. No. 10166

Home Office P. O. Box 31

Russell, Kansas 67665

New

Date	3-3-90	Sec.	Twp.	Range	Called Out	On Location	Job Start	Finish
Lease	Tatum	Well No.	#2	Location	Campus 3/4 S W Side	Gove	Kansas	

Contractor	Cheyenne well service	
Type Job	Open Port Collar (CIRC)	
Hole Size	T.D.	
Csg.	4 1/2	Depth
Tbg. Size	2 1/2	Depth
Drill Pipe	BAKER (NORMAN)	Depth
Tool	Port Collar	Depth 2511'
Cement Left in Csg.	Shoe Joint	
Press Max.	1,000#	Minimum
Meas Line	Displace	
Perf.		

Owner
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
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 Tom Port

EQUIPMENT		
Pumptrk #177	Cementer	Shane
	Helper	Will
Pumptrk #156	Cementer	Mark
	Helper	Ed
Bulktrk #146	Driver	
Bulktrk #146	Driver	

CEMENT			
Amount Ordered	450 SK	59/50 6% pl 3% gilson	
Consisting of	2 SKs 6el		
Common	225 SKs	26.00	1,350.00
Poz. Mix	225 SKs	2.40	540.00
Gel.	25	SKS 26.75	168.75
Sludge	61.1146	IBS @ 294	332.31
Quickset			

DEPTH of Job	
Reference:	Pump Truck Chg. 450.00
Sub Total	450.00
Tax	
Total	450.00

Handling	90¢	405.00
Mileage	3¢	81.00
6 miles		
Sub Total		
Total		2,877.09

Remarks: Bridge Plug @ 4100' Ran Tubing to 2511' Loaded Hole, shut Backside in & Pressured B. Plug to 1000# & Held. Opened Port Collar, put 300# on Backside & mixed cement had good return. Cement circulated, displaced 968' & closed port collar, pressured up to 1,000# & held. Washed down w/tes tubing, came above P. Collar & rechecked @ 1,000# & held.

MAR 06 1990