

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- 135-23218-0001

County Ness

C - NE - SE - NW Sec. 36 Twp. 17S Rge. 26 X<sup>E</sup>

3630 Feet from S (circle one) Line of Section

2970 Feet from E (circle one) Line of Section

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

Lease Name Norton Well # 1-36

Field Name Aldrich, N.W.

Producing Formation Dry

Elevation: Ground 2420 KB 2425

Total Depth 4430 PBDT 4430

Amount of Surface Pipe Set and Cemented at 211 Feet

Multiple Stage Cementing Collar Used? Yes X No

If yes, show depth set \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from 2500

feet depth to 340 w/ 250 sx cmt.

Drilling Fluid Management Plan 12-26-92 TD own  
(Data must be collected from the Reserve Pit)

Chloride content N/A ppm Fluid volume N/A bbls

Dewatering method used N/A

Location of fluid disposal if hauled offsite: N/A

Operator Name N/A

Lease Name \_\_\_\_\_ License No. \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S Rng. \_\_\_\_\_ E/W \_\_\_\_\_

County \_\_\_\_\_ Docket No. \_\_\_\_\_

Operator: License # 3447

Name: Ranken Energy Corporation

Address 2325 S. W. 15th St.

City/State/Zip Edmond, OK 73013-2027

Purchaser: Dry Hole

Operator Contact Person: Tom Larson

Phone ( 316 ) 792-3664

Contractor: Name: Cheyenne Well Service

License: 6454

Wellsite Geologist: Tom Larson

Designate Type of Completion

\_\_\_\_\_ New Well \_\_\_\_\_ Re-Entry X Workover

\_\_\_\_\_ Oil \_\_\_\_\_ SWD \_\_\_\_\_ SLOW \_\_\_\_\_ Temp. Abd.

\_\_\_\_\_ Gas \_\_\_\_\_ ENHR \_\_\_\_\_ SIGW

X Dry \_\_\_\_\_ Other (Core, WSW, Expl., Cathodic, etc)

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

Operator: Totten Resources, Inc.

Well Name: Norton #1

Comp. Date 2/29/88 old Total Depth 4431

\_\_\_\_\_ Deepening X Re-perf. \_\_\_\_\_ Conv. to Inj/SWD

\_\_\_\_\_ Plug Back \_\_\_\_\_ PBDT

\_\_\_\_\_ Commingled \_\_\_\_\_ Docket No. \_\_\_\_\_

\_\_\_\_\_ Dual Completion \_\_\_\_\_ Docket No. \_\_\_\_\_

\_\_\_\_\_ Other (SWD or Inj?) \_\_\_\_\_ Docket No. \_\_\_\_\_

9/04/92 9/04/92 9/24/92

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 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 12/10/92

Subscribed and sworn to before me this 10th day of December, 1992.

Notary Public [Signature]  
Janet J. Vidholm

Date Commission Expires July 12, 1994

K.C.C. OFFICE USE ONLY RECEIVED  
F \_\_\_\_\_ Letter of Confidentiality Attached  
C \_\_\_\_\_ Wireline Log Received  
C \_\_\_\_\_ Geologist Report Received  
DEC 16 1992  
Distribution  
✓ KCC \_\_\_\_\_ SWD/Rep \_\_\_\_\_ NGPA  
\_\_\_\_\_ KGS \_\_\_\_\_ Plug \_\_\_\_\_ Other (specify)  
Form ACO-1 (7-91)

Operator Name Ranken Energy Corporation

Lease Name Norton

Well # 1

Sec. 36 Twp. 17S Rge. 26

East  
 West

County Ness

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: N/A

Log Formation (Top), Depth and Datum  Sample

Name	Top	Datum
N/A		
Tops from original log:		
Anhydrite	1764'	
Heebner	3704'	
Lansing	3752'	
Ft. Scott	4253'	
Mississippian	4348'	

N/A, Workover on previously CASING RECORD existing wellbore

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

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input checked="" type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing	3950' (1')		100-circ.	60-40 Poz w/2% gel, 10% salt & 3/4
<input type="checkbox"/> Plug Back TD				H-322 (25 - tail-in common) w/10%
<input type="checkbox"/> Plug Off Zone	3722' (1')		squeeze	salt.

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
4	3980-84 (5')	500 gal 15% NE w/2 gal LoSurf	3980-84'
3	3866 (1') & 3765 (1')	None	3866 & 3765

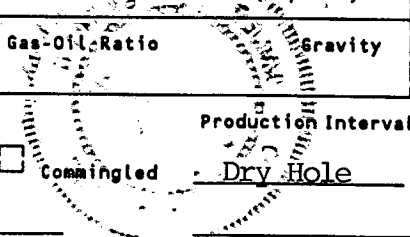
TUBING RECORD	Size	Set At	Packer At	Liner Run	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
	N/A				

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)
N/A	N/A	

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	N/A	N/A	N/A		

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

METHOD OF COMPLETION  
 Open Hole  Perf.  Dually Comp.  Commingled  Dry Hole  
 Other (Specify) \_\_\_\_\_



DISTRICT P. H. R. DATE 9-24-92

TO: HALLIBURTON SERVICES YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICEMEN TO DELIVER AND OPERATE THE SAME AS AN INDEPENDENT CONTRACTOR TO: Rinker Energy (CUSTOMER) AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING

WELL NO. 1-2-1 LEASE Norton SEC. \_\_\_\_\_ TWP. \_\_\_\_\_ RANGE \_\_\_\_\_

FIELD \_\_\_\_\_ COUNTY No STATE Pa OWNED BY Some

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION NAME _____ TYPE _____	NEW USED	WEIGHT	SIZE	FROM	TO	MAX. ALLOW. P.S.I.
FORMATION THICKNESS _____ FROM _____ TO _____			<u>4 1/2</u>			
PACKER: TYPE _____ SET AT _____						
TOTAL DEPTH _____ MUD WEIGHT _____						
BORE HOLE _____						SHOTS/FT.
INITIAL PROD: OIL _____ BPD, H <sub>2</sub> O _____ BPD, GAS _____ MCF _____						
PRESENT PROD: OIL _____ BPD, H <sub>2</sub> O _____ BPD, GAS _____ MCF _____						

PREVIOUS TREATMENT: DATE \_\_\_\_\_ TYPE \_\_\_\_\_ MATERIALS \_\_\_\_\_

TREATMENT INSTRUCTIONS: TREAT THRU TUBING  ANNULUS  CASING  TUBING/ANNULUS  HYDRAULIC HORSEPOWER ORDERED \_\_\_\_\_

Plug to Abandon with 245 wt 60/100 fluc 8% Gel 600" Halls

CUSTOMER OR HIS AGENT WARRANTS THE WELL IS IN PROPER CONDITION TO RECEIVE THE PRODUCTS, SUPPLIES, MATERIALS, AND SERVICES

- As consideration, the above-named Customer agrees: THIS CONTRACT MUST BE SIGNED BEFORE WORK IS COMMENCED
- a) To pay Halliburton in accord with the rates and terms stated in Halliburton's current price list. Invoices are payable NET by the 20th of the following month after date of invoice. Upon Customer's default in payment of Customer's account by the last day of the month following the month in which the invoice is dated, Customer agrees to pay interest thereon after default at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event it becomes necessary to employ attorneys to enforce collection of said account, Customer agrees to pay all collection costs and attorney fees in the amount of 20% of the amount of the unpaid account.
  - b) To defend, indemnify, release and hold harmless Halliburton, its divisions, subsidiaries, parent and affiliated companies and the officers, directors, employees, agents and servants of all of them from and against any claims, liability, expenses, attorneys fees, and costs of defense to the extent permitted by law for:
    1. Damage to property owned by, in the possession of, or leased by Customer, and/or the well owner (if different from Customer), including, but not limited to, surface and subsurface damage. The term "well owner" shall include working and royalty interest owners.
    2. Reservoir, formation, or well loss or damage, subsurface trespass or any action in the nature thereof.
    3. Personal injury or death or property damage (including, but not limited to, damage to the reservoir, formation or well), or any damages whatsoever, growing out of or in any way connected with or resulting from pollution, subsurface pressure, losing control of the well and/or a well blowout or the use of radioactive material.

The defense, indemnity, release and hold harmless obligations of Customer provided for in this Section b) and Section c) below shall apply to claims or liability even if caused or contributed to by Halliburton's negligence, strict liability, or the unseaworthiness of any vessel owned, operated, or furnished by Halliburton or any defect in the data, products, supplies, materials, or equipment of Halliburton whether in the preparation, design, manufacture, distribution, or marketing thereof, or from a failure to warn any person of such defect. Such defense, indemnity, release and hold harmless obligations of Customer shall not apply where the claims or liability are caused by the gross negligence or willful misconduct of Halliburton. The term "Halliburton" as used in said Sections b) and c) shall mean Halliburton, its divisions, subsidiaries, parent and affiliated companies, and the officers, directors, employees, agents and servants of all of them.
  - c) That because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, Halliburton is unable to guarantee the effectiveness of the products, supplies or materials, nor the results of any treatment or service, nor the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by Halliburton. Halliburton personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but Customer agrees that Halliburton shall not be liable for and Customer shall indemnify Halliburton against any damages arising from the use of such information.
  - d) That Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, breach of warranty or otherwise) arising out of the sale or use of any products, supplies or materials is expressly limited to the replacement of such products, supplies or materials on their return to Halliburton or, at Halliburton's option, to the allowance to the Customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, punitive or consequential damages.
  - e) That Customer shall, at its risk and expense, attempt to recover any Halliburton equipment, tools or instruments which are lost in the well and if such equipment, tools or instruments are not recovered, Customer shall pay Halliburton its replacement cost unless such loss is due to the sole negligence of Halliburton. If Halliburton equipment, tools or instruments are damaged in the well, Customer shall pay Halliburton the lesser of its replacement cost or the cost of repairs unless such damage is caused by the sole negligence of Halliburton. In the case of equipment, tools or instruments for marine operations, Customer shall, in addition to the foregoing, be fully responsible for loss of or damage to any of Halliburton's equipment, tools or instruments which occurs at any time after delivery to Customer at the landing until returned to the landing, unless such loss or damage is caused by the sole negligence of Halliburton.
  - f) To waive the provisions of the Deceptive Trade Practices - Consumer Protection Act, to the extent permitted by law.
  - g) That this contract shall be governed by the law of the state where services are performed or materials are furnished.
  - h) That Halliburton shall not be bound by any changes or modifications in this contract, except where such change or modification is made in writing by a duly authorized executive officer of Halliburton.

I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMER'S AGENT. 6 1992

SIGNED J. C. Janson CUSTOMER

DATE 9-24-92

TIME 8:30 A.M. P.M.

RECEIVED STATE CORPORATION COMMISSION

We certify that the Fair Labor Standards Act of 1938, as amended, has been complied with in the production of goods and/or with respect to services furnished under this contract.

CUSTOMER





WELL DATA **UNION**

FIELD \_\_\_\_\_ SEC \_\_\_\_\_ TWP \_\_\_\_\_ RNG \_\_\_\_\_ COUNTY *North* STATE *Pa.*

FORMATION NAME \_\_\_\_\_ TYPE \_\_\_\_\_

FORMATION THICKNESS \_\_\_\_\_ FROM \_\_\_\_\_ TO \_\_\_\_\_

INITIAL PROD: OIL \_\_\_\_\_ BPD. WATER \_\_\_\_\_ BPD. GAS \_\_\_\_\_ MCFD \_\_\_\_\_

PRESENT PROD: OIL \_\_\_\_\_ BPD. WATER \_\_\_\_\_ BPD. GAS \_\_\_\_\_ MCFD \_\_\_\_\_

COMPLETION DATE \_\_\_\_\_ MUD TYPE \_\_\_\_\_ MUD WT. \_\_\_\_\_

PACKER TYPE \_\_\_\_\_ SET AT \_\_\_\_\_

BOTTOM HOLE TEMP. \_\_\_\_\_ PRESSURE \_\_\_\_\_

MISC. DATA \_\_\_\_\_ TOTAL DEPTH \_\_\_\_\_

NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
		<i>4 1/2</i>			

**TOOLS AND ACCESSORIES**

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG		
HEAD		
PACKER		
OTHER		

**JOB DATA**

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <i>9-24-92</i>	DATE <i>9-24-92</i>	DATE <i>9-24-92</i>	DATE <i>9-24-92</i>
TIME <i>0700</i>	TIME <i>0710</i>	TIME <i>0900</i>	TIME <i>0950</i>

**MATERIALS**

TREAT. FLUID \_\_\_\_\_ DENSITY \_\_\_\_\_ LB/GAL-API \_\_\_\_\_

DISPL. FLUID \_\_\_\_\_ DENISTY \_\_\_\_\_ LB/GAL-API \_\_\_\_\_

PROP. TYPE \_\_\_\_\_ SIZE \_\_\_\_\_ LB \_\_\_\_\_

PROP. TYPE \_\_\_\_\_ SIZE \_\_\_\_\_ LB \_\_\_\_\_

ACID TYPE \_\_\_\_\_ GAL \_\_\_\_\_ % \_\_\_\_\_

ACID TYPE \_\_\_\_\_ GAL \_\_\_\_\_ % \_\_\_\_\_

ACID TYPE \_\_\_\_\_ GAL \_\_\_\_\_ % \_\_\_\_\_

SURFACTANT TYPE \_\_\_\_\_ GAL \_\_\_\_\_ IN \_\_\_\_\_

NE AGENT TYPE \_\_\_\_\_ GAL \_\_\_\_\_ IN \_\_\_\_\_

FLUID LOSS ADD. TYPE \_\_\_\_\_ GAL-LB \_\_\_\_\_ IN \_\_\_\_\_

GELLING AGENT TYPE \_\_\_\_\_ GAL-LB \_\_\_\_\_ IN \_\_\_\_\_

FRIC. RED. AGENT TYPE \_\_\_\_\_ GAL-LB \_\_\_\_\_ IN \_\_\_\_\_

BREAKER TYPE \_\_\_\_\_ GAL-LB \_\_\_\_\_ IN \_\_\_\_\_

BLOCKING AGENT TYPE \_\_\_\_\_ GAL-LB \_\_\_\_\_

PERFPAC BALLS TYPE \_\_\_\_\_ QTY. \_\_\_\_\_

OTHER \_\_\_\_\_

OTHER \_\_\_\_\_

**PERSONNEL AND SERVICE UNITS**

NAME	UNIT NO. & TYPE	LOCATION
<i>P. Fisher</i>	<i>Car 5</i>	<i>North City, Pa.</i>
<i>R. O'Neil</i>	<i>3-10</i>	<i>North City, Pa.</i>
<i>R. Decker</i>	<i>4-11</i>	<i>Hogart</i>
	<i>4-14</i>	

DEPARTMENT *Oil*

DESCRIPTION OF JOB *PIA*

JOB DONE THRU: TUBING  CASING  ANNULUS  TBG/ANN.

CUSTOMER REPRESENTATIVE *X J.C. Gannon*

HALLIBURTON OPERATOR *R. O'Neil* COPIES REQUESTED \_\_\_\_\_

**CEMENT DATA**

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<i>243</i>	<i>60140 Pz</i>		<i>1</i>	<i>Z. CC</i>	<i>1.87</i>	<i>12.7</i>
	<i>6</i>			<i>3</i>	<i>Catherwood H-4</i>		

**PRESSURES IN PSI** \_\_\_\_\_ **SUMMARY** \_\_\_\_\_ **VOLUMES** \_\_\_\_\_

CIRCULATING \_\_\_\_\_ DISPLACEMENT \_\_\_\_\_ PRESLUSH: BBL-GAL \_\_\_\_\_ TYPE \_\_\_\_\_

BREAKDOWN \_\_\_\_\_ MAXIMUM \_\_\_\_\_ LOAD & BKDN: BBL-GAL \_\_\_\_\_ PAD: BBL-GAL \_\_\_\_\_

AVERAGE \_\_\_\_\_ FRACTURE GRADIENT \_\_\_\_\_ TREATMENT: BBL-GAL \_\_\_\_\_ DISPL: BBL-GAL \_\_\_\_\_

SHUT-IN: INSTANT \_\_\_\_\_ 5-MIN \_\_\_\_\_ 15-MIN \_\_\_\_\_ CEMENT SLURRY: BBL-GAL *4.7*

HYDRAULIC HORSEPOWER \_\_\_\_\_ TOTAL VOLUME: BBL-GAL \_\_\_\_\_

ORDERED \_\_\_\_\_ AVAILABLE \_\_\_\_\_ USED \_\_\_\_\_ REMARKS *See Chart 1 Job Log*

TREATING \_\_\_\_\_ DISPL \_\_\_\_\_ CEMENT LEFT IN PIPE \_\_\_\_\_ OVERALL \_\_\_\_\_

FEET \_\_\_\_\_ REASON \_\_\_\_\_

RECEIVED  
STATE CORPORATION COMMISSION  
DEC 16 1992

# JOB LOG

WELL NO. 1-36 LEASE Porton

TICKET NO. 296052

CUSTOMER Porton Energy

PAGE NO. 1

JOB TYPE PTA

DATE 9-24-92

FORM 2013 R-2

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0900							Called
	0930							on loc. set up pump
	0940	5						START mixing 24" P. 6040 P. 24" C.C. mix 100" H.H. in. Cont. 100" at 70' per. start recording
			70					slow back to 2 RPM
	0925	3					500	Cont. mixed script slow in 7 wash up track
								back Reel 10' exp pump to 100' in. to clear wire
	0930							slow in Reel 10' exp
								JOS complete

*Handwritten signature:*  
 [Signature]

RECEIVED  
 STATE CORPORATION COMMISSION

DEC 16 1992

CUSTOMER