

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- 167-23,000 - 004001 01-13-92

County Russell **CONFIDENTIAL**
200' North of
NE SE NW Sec. 31 Twp. 12 Rge. 14 X^E

Operator: License # 30676
Name: Pioneer Oil and Gas
Address 6925 Union Park Center,
Suite 145
City/State/Zip Midvale, UT 84047

1450 Feet from S (N) (circle one) Line of Section
2310 Feet from E (W) (circle one) Line of Section

Purchaser: N/A
Operator Contact Person: Jason G. Blake
Phone (801) 566-3000
Contractor: Name: Duke Drilling Co., Inc.
License: 5929
Wellsite Geologist: Roger Haag

Footages Calculated from Nearest Outside Section Corner:
NE, SE, (NW) or SW (circle one)
Lease Name Krug Well # 31-43

Designate Type of Completion
 New Well Re-Entry Workover
 Oil SWD S10W Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc)

Field Name Kingsley (aband.)
Producing Formation N/A
Elevation: Ground 1800 KB 1805
Total Depth 3380 PBDT
Amount of Surface Pipe Set and Cemented at 263 Feet
Multiple Stage Cementing Collar Used? Yes XX No
If yes, show depth set _____ Feet
If Alternate II completion, cement circulated from N/A
feet depth to _____ w/ _____ sx cat.

If Workover/Re-Entry: old well info as follows:
Operator: N/A
Well Name: _____
Comp. Date _____ Old Total Depth _____
 Deepening Re-perf. Conv. to Inj/SWD
 Plug Back PBDT
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj?) Docket No. _____
12-14-91 12-21-91
Spud Date Date Reached TD Completion Date

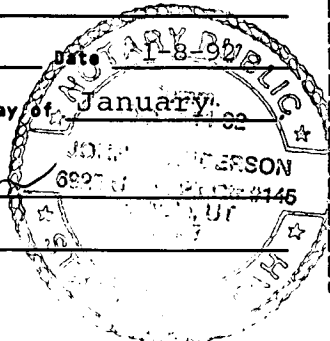
Drilling Fluid Management Plan As It Is Done
(Data must be collected from the Reserve Pit)
Chloride content 64,000 ppm Fluid volume 1400 bbls
Dewatering method used Natural Evaporation
Location of fluid disposal if hauled offsite:
Operator Name _____
Lease Name _____ License No. _____
Quarter Sec. Twp. S Rng. E/W
County _____ Docket No. _____

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, re-perf, 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 82-3-106). A success 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.

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KANSAS CORPORATION COMMISSION
JAN 16 1992
01-16-92

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 Jason G. Blake
Title Field Operations Manager
Subscribed and sworn to before me this 8th day of January,
19 92.
Notary Public John D. Anderson
Date Commission Expires _____



K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
G Geologist Report Received
Distribution
 KCC SWD/Rep NGPA
 KGS Plug Other
(Specify)

Operator Name Pioneer Oil & Gas

Lease Name Krug Well # 31-43

Sec. 31 Twp. 12 Rge. 14 East

County Russell

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:

Neutron Density Porosity

Radiation Guard Log

Log Sample

Formation (Top), Depth and Datum	Name	Top	Datum
	Anyhydrite	860	(945)
	Base Anh.	904	(903)
	Tarkio	2455	(-649)
	Topeka	2721	(-915)
	Heebner	2946	(-1141)
	Lansing	2998	(-1193)
	Base KC	3254	(-1449)
	Conglomerate	3286	(-1481)
	Chert	3305	(-1500)

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 1/4"	8-5/8"	24#	263'	60/40poz	150	2% gel 3% cc.

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 Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
	N/A	N/A	

TUBING RECORD Size Set At Packer At Liner Run Yes No

Date of First, Resumed Production, SVD or Inj. Producing Method Flowing Pumping Gas Lift Other (Explain)

D&A

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

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

15-167-23000-00-00

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

ORIGINAL

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Drill-Stem Test Data

Well Name KRUG #31-43 Test No. 1 Date 12/18/91
 Company PIONEER OIL & GAS Zone Tested TOPEKA
 Address 6925 UNION PARK CNTR #145 MIDVALE VT. 84 Elevation 1798 G.L.
 Co. Rep./Geo. ROGER HAAG Cont. DUKE #1 Est. Ft. of Pay _____
 Location: Sec. 31 Twp. 12S Rge. 14W Co. RUSSELL State KS

Interval Tested 2798-2860 Drill Pipe Size 4.5 FH
 Anchor Length 62 Wt. Pipe I.D. - 2.7 Ft. Run 630
 Top Packer Depth 2793 Drill Collar - 2.25 Ft. Run _____
 Bottom Packer Depth 2798
 Total Depth 2860

Mud Wt. 9.8 lb / gal. Viscosity 39 Filtrate 15.4

Tool Open @ 9:15 AM Initial Blow VERY WEAK FOR 15 MINUTES

Final Blow NO BLOW-TOOL SLID 8 ft. TO BOTTOM

Recovery - Total Feet 65 Flush Tool? NO

Rec. 65 Feet of MUD

Rec. _____ Feet of _____

Rec. _____ Feet of _____

Rec. _____ Feet of _____

Rec. _____ Feet of _____

BHT 86 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 4000 ppm System

(A) Initial Hydrostatic Mud 1590.3 PSI Ak1 Recorder No. 13851 Range 4425

(B) First Initial Flow Pressure 61.2 PSI @ (depth) 2830 w/Clock No. 25814

(C) First Final Flow Pressure 61.2 PSI Ak1 Recorder No. 13850 Range 4325

(D) Initial Shut-In Pressure 752.1 PSI @ (depth) 2860 w/Clock No. 27585

(E) Second Initial Flow Pressure 61.2 PSI Ak1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 61.2 PSI @ (depth) _____ w/Clock No. _____

(G) Final Shut-In Pressure 665.2 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 1581.2 PSI Initial Shut-In 30 Final Shut-In 30

Our Representative HARRY SCHMIDT TOTAL PRICE \$ 550

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 KANSAS CORPORATION COMMISSION
 JAN 16 1992
 CONSERVATION DIVISION
 WICHITA, KS

ORIGINAL 15-167-23000-65-00
TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

RELEASED
22 1003

CONFIDENTIAL

Drill-Stem Test Data

Well Name KODG #31-43 Test No. 2 Date 12/19/91
Company PIONEER OIL & GAS Zone Tested LKC-"B"
Address 6925 UNION PARK CNTR #145 MIDVALE VT. Elevation 1798 G.L.
Co. Rep./Geo. ROGER HAAG Cont. DUKE #1 Est. Ft. of Pay _____
Location: Sec. 31 Twp. 12S Rge. 14W Co. RUSSELL State KS

Interval Tested 3007-3040 Drill Pipe Size 4.5 PH
Anchor Length 33 Wt. Pipe I.D. - 2.7 Ft. Run 630
Top Packer Depth 3002 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 3007
Total Depth 3040

Mud Wt. 9.9 lb / gal. Viscosity 47 Filtrate 14

Tool Open @ 11:00 AM Initial Blow FAIR THROUGHOUT-ROTATING HEAD WAS LEAKING

Final Blow SAME AS INITIAL

Recovery — Total Feet 5 Flush Tool? NO

Rec. 5 Feet of OIL SPOTTED MUD

Rec. _____ Feet of _____

Rec. _____ Feet of _____

Rec. _____ Feet of _____

Rec. _____ Feet of _____

BHT 86 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 64000 ppm System

(A) Initial Hydrostatic Mud 1711.2 PSI AK1 Recorder No. 13851 Range 4425

(B) First Initial Flow Pressure 22.1 PSI @ (depth) 3013 w/Clock No. 25814

(C) First Final Flow Pressure 22.1 PSI AK1 Recorder No. 13850 Range 4325

(D) Initial Shut-In Pressure 125.1 PSI @ (depth) 3040 w/Clock No. 27813

(E) Second Initial Flow Pressure 33.2 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 33.2 PSI @ (depth) _____ w/Clock No. _____

(G) Final Shut-In Pressure 104.1 PSI Initial Opening 60 Final Flow 60

(H) Final Hydrostatic Mud 1711.2 PSI Initial Shut-In 60 Final Shut-In 60

Our Representative HARRY SCHMIDT TOTAL PRICE \$ 550

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CONSERVATION DIVISION
WICHITA, KS

15-167-23000-00-00

TRILOBITE TESTING COMPANY

ORIGINAL P.O. Box 362 • Hays, Kansas 67601

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FROM CONFIDENTIAL

Drill-Stem Test Data

Well Name KRUG #31-43 Test No. 3 Date 12/20/91
 Company PIONEER OIL & GAS Zone Tested LKC-"J"
 Address 6925 UNION PARK CNTR #145 MIDVALE VT. 84067 Elevation 1798 G.L.
 Co. Rep./Geo. ROGER HAAG Cont. DUKE #1 Est. Ft. of Pay _____
 Location: Sec. 31 Twp. 12S Rge. 14W Co. RUSSELL State KS

Interval Tested 3170-3205
 Anchor Length 35
 Top Packer Depth 3165
 Bottom Packer Depth 3170
 Total Depth 3205

Drill Pipe Size 4.5 PH
 Wt. Pipe I.D. - 2.7 Ft. Run 630
 Drill Collar — 2.25 Ft. Run _____

Mud Wt. 10.1 lb / gal. Viscosity 49 Filtrate 13.2

Tool Open @ 1:30 PM Initial Blow VERY WEAK FOR 10 MINUTES
BRIDGE 105' OFF BOTTOM - OPENED TOOL TO GET THROUGH
 Final Blow NO BLOW

Recovery — Total Feet 120 Flush Tool? YES

Rec. 120 Feet of MUD
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 Rec. 88 Feet of _____
 BHT _____ °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

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 CONSERVATION DIVISION
 WICHITA, KS

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides _____ ppm System

(A) Initial Hydrostatic Mud 1802.3 PSI Ak1 Recorder No. 13851 Range 4425
 (B) First Initial Flow Pressure 81.2 PSI @ (depth) 3175 w/Clock No. 25814
 (C) First Final Flow Pressure 90.1 PSI Ak1 Recorder No. 13850 Range 4325
 (D) Initial Shut-in Pressure 535.1 PSI @ (depth) 3205 w/Clock No. 27813
 (E) Second Initial Flow Pressure 90.1 PSI Ak1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 90.1 PSI @ (depth) _____ w/Clock No. _____
 (G) Final Shut-in Pressure 535.1 PSI Initial Opening 30 Final Flow 30
 (H) Final Hydrostatic Mud 1799.1 PSI Initial Shut-in 30 Final Shut-in 30

Our Representative HARRY SCHMIDT TOTAL PRICE \$ 550

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.

Home Office P. O. Box 31

Russell, Kansas 67665

New

RELEASED

2263
 22

Date	12-21-91	Sec.	31	Twp.	12 S	Range	14 W	Called Out	6:00PM	On Location	7:00 PM	Job Start	8:30	Finish	12:20
Lease	KRUG	Well No.	31-43	Location	CANYON RD 6N 1E4S			County	Russell	State	KANSAS				

Contractor	DUKE DRUG, Rig #1	
Type Job	ROTARY Plug	
Hole Size	7 7/8	T.D. 3380
Csg.	Depth	
Tbg. Size	Depth	
Drill Pipe	4 1/2 F*H	Depth 870
Tool	Depth	
Cement Left in Csg.	Shoe Joint	
Press Max.	Minimum <input checked="" type="checkbox"/>	
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
 PIONEER OIL & GAS
 Street 6925 Union Park Center #145
 City Midvale State Utah 84047
 The above was done to satisfaction and supervision of owner agent or contractor.

Purchase Order No.
 X Leonard W. [Signature]

CEMENT

Amount Ordered 145 SK @ 67/40 67/90 1/4" # F10 Seal

Consisting of	Common	87	SKs @ 5 25	456 75
	Poz. Mix	58	SKs @ 2 25	130 50
	Gel.	5	SKs @ 6 75	33 75

Chloride
 Quickset
 Flo-Seal 36 lbs @ 1.00 36 00

Handling 100 Per SK 145 00

Mileage 04 Per Ton Mile 45 00
 6 miles

Sub Total
 Total 847 00

EQUIPMENT

Pumptrk #177	No.	Cementor	[Signature]
		Helper	[Signature]
Pumptrk #213	No.	Cementor	
		Helper	
Bulktrk		Driver	[Signature]
Bulktrk		Driver	

DEPTH of Job

Reference:	Pump Truck chrg	380 00
	20¢ Per Mile	12 00
	Sub Total	
	Tax	
	Total	392 00

Remarks:
 20 SK @ 870'
 100 SK @ 500'
 10 SK @ 40'
 15 SK @ RAT Hole

[Signature]

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 KANSAS CORPORATION COMMISSION

JAN 16 1992

CONSERVATION DIVISION
 WICHITA, KS

15-167-23000-00-00

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

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

ALLIED CEMENTING CO., INC.

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

Date	Sec.	Twp.	Range	Called Out	On Location	Job Start	Finish
12-14-91	31	12	14	8:30 PM	9:45 PM	10:15 PM	10:45 PM
Lease <i>KRU9</i>	Well No. <i>#31-43</i>	Location <i>Russell 7NW 1/4 E</i>			County <i>Russell</i>	State <i>Kansas</i>	
Contractor <i>Duke Drlg R191</i>				Owner <i>SAMP</i>			
Type Job <i>SURFACE</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>12 1/4</i>	T.D. <i>264'</i>			Charge To <i>Pioneer oil & gas</i>			
Csg. <i>8 5/8</i>	Depth <i>263</i>			Street			
Tbg. Size	Depth			City			
Drill Pipe	Depth			State			
Tool	Depth			The above was done to satisfaction and supervision of owner agent or contractor.			
Cement Left in Csg. <i>15'</i>	Shoe Joint			Purchase Order No.			
Press Max.	Minimum			<i>X Leonard Williams</i>			
Meas Line <i>yes</i>	Displace			CEMENT			
Perf.							

EQUIPMENT

#177	No.	Cementer	<i>M KAUFMAN</i>
Pumptrk		Helper	<i>GLENN G.</i>
	No.	Cementer	
Pumptrk		Helper	
#		Driver	<i>Paul D.</i>
Bulktrk		Driver	

DEPTH of Job

Reference:	<i>PUMP TRK</i>	
	<i>1-8 5/8" PLUG</i>	
		Sub Total
		Tax
		Total

Remarks: *CEMENT Circulated*

Amount Ordered	<i>150 SKS 60/40 P2 3% LL 2 1/2 60 1</i>
Consisting of	
Common	
Poz. Mix	
Gel.	
Chloride	
Quickset	RECEIVED
	KANSAS CORPORATION COMMISSION
Handling	<i>JAN 16 1992</i>
Mileage	<i>CONSERVATION DIVISION WICHITA, KS</i>
	Sub Total
	Total

Floating Equipment
[Signature]