

ORIGINAL

SIDE ONE

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

API NO. 15- 163-23-091-00-00

County Rooks

Sec. 33 Twp. 10 Rge. 19 East West

2310' Ft. North from Southeast Corner of Section

2970' Ft. West from Southeast Corner of Section
(NOTE: Locate well in section plat below.)

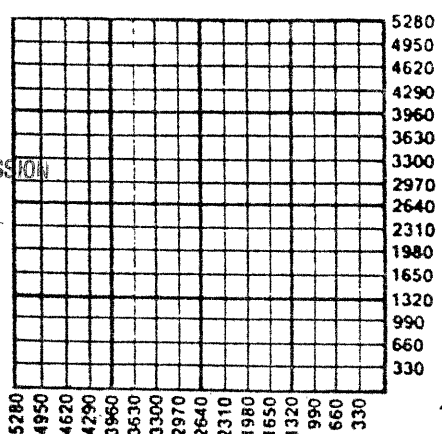
Lease Name Palmborg Well # 1

Field Name Cooper

Producing Formation NA

Elevation: Ground 2118' KB 2123'

Total Depth 3701' PBDT NA



Amount of Surface Pipe Set and Cemented at 242' 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 cmf.

Operator: License # 03091

Name: Co-Kan Resources

Address P. O. Box 854

City/State/Zip Hays, KS 67601

Purchaser: _____

Operator Contact Person: Joel Maska

Phone (913) -625-6388

Contractor: Name: Emphasis Drilling

License: 8241

Wellsite Geologist: Jim Harden

Designate Type of Completion

New Well Re-Entry Workover

Oil SWD Temp. Abd.

Gas Inj Delayed Comp.

Dry Other (Core, Water Supply, etc.)

If OWWO: old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Drilling Method:

Mud Rotary Air Rotary Cable

4-18-90 4-25-90 4-25-90

Spud Date Date Reached TD Completion Date

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-111 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.

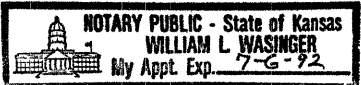
Signature Joel Maska

Title Operator Date 11-11-91

Subscribed and sworn to before me this 11th day of November, 1991.

Notary Public William L. Wasinger

Date Commission Expires 7-6-92



K.C.C. OFFICE USE ONLY

F Letter of Confidentiality Attached

C Wireline Log Received

C Drillers Timelog Received

Distribution

KCC SWD/Rep NGPA

KGS Plug Other (Specify)

PI

SIDE TWO

Operator Name Co-Kan Resources Lease Name Palmberg Well # 1
 Sec. 33 Twp. 10 Rge. 19 East West
 County Rooks

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.)

Formation Description

Log Sample

Name _____ Top _____ Bottom _____

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	20#	242'	60/40 poz	150	3% cc 2% gel

Shots Per Foot	PERFORATION RECORD Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth

TUBING RECORD Size _____ Set At _____ Packer At _____ Liner Run Yes No

Date of First Production _____ Producing Method Flowing Pumping Gas Lift Other (Explain) _____

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 Perforation Dually Completed Commingled Other (Specify) _____

Production Interval _____

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

ORIGINAL

15-163-23091-00-00
Drill-Stem Test Data

Well Name & No.	PALMBERG #1	Test No.	1	Date	4/23/90				
Company	COKAN RESOURCES	Zone Tested	LANSING-KS CITY						
Address	P.O. BOX 854 HAYS KANSAS 67601		Elevation	2123 KB					
Co. Rep./Geo.	MR JIM HARDEN	Cont.	EMPHASIS #6	Est. Ft. of Pay	0				
Location: Sec.	33	Twp.	10S	Rge.	19W	Co.	ROOKS	State	KANSAS

Interval Tested	3380-3428	Drill Pipe Size	4.5" XH			
Anchor Length	38	Top Choke — 1"	Bottom Choke — 3/4"			
Top Packer Depth	3375	Hole Size — 7 7/8"	Rubber Size — 6 3/4"			
Bottom Packer Depth	3380	Wt. Pipe I.D. — 2.7 Ft. Run	0			
Total Depth	3428	Drill Collar — 2.25 Ft. Run	0			
Mud Wt.	9.7	lb/gal.	Viscosity	47	Filtrate	14.8
Tool Open @	1:25 PM	Initial Blow	SLID TOOL 6' TO BOTTOM- 3" BLOW			
	DECREASING TO NO BLOW IN 28 MINUTES					
Final Blow	NO BLOW					

Recovery — Total Feet	20	Flush Tool?	1st OPEN
Rec.	20	Feet of	DRILLING MUD-NO SHOW
Rec.	0	Feet of	
Rec.	0	Feet of	
Rec.	0	Feet of	
Rec.	0	Feet of	

BHT	111	°F Gravity		°API @	0	°F Corrected Gravity	0	°API
RW		@	°F Chlorides		ppm Recovery	Chlorides	24000	ppm System
(A) Initial Hydrostatic Mud	1841.5	PSI	AK1 Recorder No.	13754	Range	4000		
(B) First Initial Flow Pressure	30.9	PSI	@ (depth)	3384	w/Clock No.	26191		
(C) First Final Flow Pressure	31.5	PSI	AK1 Recorder No.	13849	Range	4375		
(D) Initial Shut-In Pressure	120.2	PSI	@ (depth)	3424	w/Clock No.	3942		
(E) Second Initial Flow Pressure	28.7	PSI	AK1 Recorder No.	0	Range	0		
(F) Second Final Flow Pressure	31.5	PSI	@ (depth)	0	w/Clock No.	0		
(G) Final Shut-In Pressure	0	PSI	Initial Opening	30				
(H) Final Hydrostatic Mud	1741.5	PSI	Initial Shut-In	30				
			Final Flow	10				
			Final Shut-In	0				

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STATE CORPORATION COMMISSION

NOV 12 1991

MR DAN BANGLE

Our Representative _____

CONSERVATION DIVISION
Wichita, Kansas 450

TOTAL PRICE \$ _____

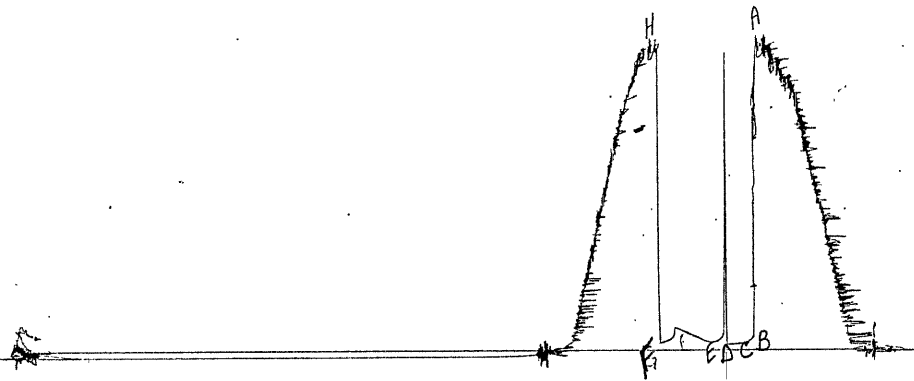
15-163-23091-00-00

ORIGINAL

DST# 1

RECORDER# 13849

71



This is an actual photograph of recorder chart.

PRESSURE

POINT	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud.....	1836	1841.5	PSI
(B) First Initial Flow Pressure.....	29	30.9	PSI
(C) First Final Flow Pressure.....	29	31.5	PSI
(D) Initial Closed-In Pressure.....	118	120.2	PSI
(E) Second Initial Flow Pressure.....	29	28.7	PSI
(F) Second Final Flow Pressure.....	29	31.5	PSI
(G) Final Closed-In Pressure.....	0	0	PSI
(H) Final Hydrostatic Mud.....	1736	1741.5	PSI

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CONSERVATION DIVISION
Wichita, Kansas

15-163-23091-00-00
TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

TEST TICKET

ORIGINAL

No. 2754

Well Name & No. Palmberg #1 Test No. 1 Date 4-23-90
Company Cokan Re's. Zone Tested 'D' L.K.C.
Address P.O. Box 854, Hays, Ks. 67601 Elevation 2123 K.B.
Co. Rep. / Geo. Jim Harden cont. Emphasis #6 Est. Ft. of Pay _____
Location: Sec. 33 Twp. 10S Rge. 19W Co. Rocks State Ks.
No. of Copies 4 Distribution Sheet _____ Yes X No Turnkey X Yes _____ No

Interval Tested 3380-3428 Drill Pipe Size 4.5 XH
Anchor Length 38 Top Choke — 1" _____ Bottom Choke — 3/4" _____
Top Packer Depth 3375 Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
Bottom Packer Depth 3380 Wt. Pipe I.D. — 2.7 Ft. Run _____
Total Depth 3428 Drill Collar — 2.25 Ft. Run _____
Mud Wt. 9.7 lb/gal. Viscosity 47 Filtrate 14.8
Tool Open @ 1:25 P.M. Initial Blow Slid tool 6' to bottom - 3" blow decreasing to no blow in 28 min.
Final Blow No blow.

Recovery — Total Feet 20 Flush Tool? 1st open
Rec. 20 Feet of D.M. N.S.
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 111 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 24,000 ppm System
(A) Initial Hydrostatic Mud 1836 PSI AK1 Recorder No. 13754 Range 4000
(B) First Initial Flow Pressure 29 PSI @ (depth) 3384 w/Clock No. 26191
(C) First Final Flow Pressure 29 PSI AK1 Recorder No. 13849 Range 4375
(D) Initial Shut-In Pressure 118 PSI @ (depth) 3424 w/Clock No. 3942
(E) Second Initial Flow Pressure 29 PSI AK1 Recorder No. _____ Range _____
(F) Second Final Flow Pressure 29 PSI @ (depth) _____ w/Clock No. _____
(G) Final Shut-In Pressure _____ PSI Initial Opening 30 Test 400^{oe}
(H) Final Hydrostatic Mud 1736 PSI Initial Shut-In 30 Jars _____
Final Flow 10 Safety Joint _____
Final Shut-In _____ Straddle _____

Approved By Jim Harden
Our Representative Dave Ranoffe

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CONSERVATION DIVISION
KANSAS

Circ. Sub X
Sampler _____
Extra Packer _____
Other 2nd. 50^{oe}
TOTAL PRICE \$ 450^{oe}

15-163-23091-00-00
TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

ORIGINAL

Drill-Stem Test Data

Well Name & No. <u>PALMBERG #1</u>	Test No. <u>2</u>	Date <u>4/24/90</u>
Company <u>COKAN RESOURCES</u>	Zone Tested <u>LOWER KS CITY</u>	
Address <u>P.O. BOX 854 HAYS KANSAS 67601</u>	Elevation <u>2123 KB</u>	
Co. Rep./Geo. <u>MR JIM HARDEN</u>	Cont. <u>EMPHASIS #6</u>	Est. Ft. of Pay <u>0</u>
Location: Sec. <u>33</u>	Twp. <u>10S</u>	Rge. <u>19W</u> Co. <u>ROOKS</u> State <u>KANSAS</u>

Interval Tested <u>3479-3577</u>	Drill Pipe Size <u>4.5" XH</u>
Anchor Length <u>98</u>	Top Choke — 1" <u> </u> Bottom Choke — 3/4" <u> </u>
Top Packer Depth <u>3474</u>	Hole Size — 7 7/8" <u> </u> Rubber Size — 6 3/4" <u> </u>
Bottom Packer Depth <u>3479</u>	Wt. Pipe I.D. — 2.7 Ft. Run <u>0</u>
Total Depth <u>3577</u>	Drill Collar — 2.25 Ft. Run <u>0</u>
Mud Wt. <u>9.5</u> lb/gal.	Viscosity <u>46</u> Filtrate <u>10</u>
Tool Open @ <u>7:00 PM</u> Initial Blow <u>WEAK-DIED IN 13 MINUTES</u>	

Final Blow NO BLOW

Recovery — Total Feet <u>10</u>	Flush Tool? <u>2nd OPEN</u>
Rec. <u>10</u> Feet of <u>DRILLING MUD - NO SHOW</u>	
Rec. <u>0</u> Feet of <u> </u>	
Rec. <u>0</u> Feet of <u> </u>	
Rec. <u>0</u> Feet of <u> </u>	
Rec. <u>0</u> Feet of <u> </u>	

BHT <u>113</u> °F	Gravity <u> </u> °API @ <u>0</u>	°F Corrected Gravity <u>0</u> °API
RW <u> </u> @ <u> </u> °F	Chlorides <u> </u> ppm	Recovery Chlorides <u>24000</u> ppm System
(A) Initial Hydrostatic Mud <u>1841.2</u> PSI	AK1 Recorder No. <u>13754</u>	Range <u>4000</u>
(B) First Initial Flow Pressure <u>51.2</u> PSI	@ (depth) <u>3483</u>	w/Clock No. <u>26191</u>
(C) First Final Flow Pressure <u>50.9</u> PSI	AK1 Recorder No. <u>13849</u>	Range <u>4375</u>
(D) Initial Shut-In Pressure <u>288.7</u> PSI	@ (depth) <u>3573</u>	w/Clock No. <u>3942</u>
(E) Second Initial Flow Pressure <u>50.9</u> PSI	AK1 Recorder No. <u>0</u>	Range <u>0</u>
(F) Second Final Flow Pressure <u>48.7</u> PSI	@ (depth) <u>0</u>	w/Clock No. <u>0</u>
(G) Final Shut-In Pressure <u>0</u> PSI	Initial Opening <u>15</u>	
(H) Final Hydrostatic Mud <u>1730.9</u> PSI	Initial Shut-In <u>30</u>	
	Final Flow <u>15</u>	
	Final Shut-In <u>0</u>	

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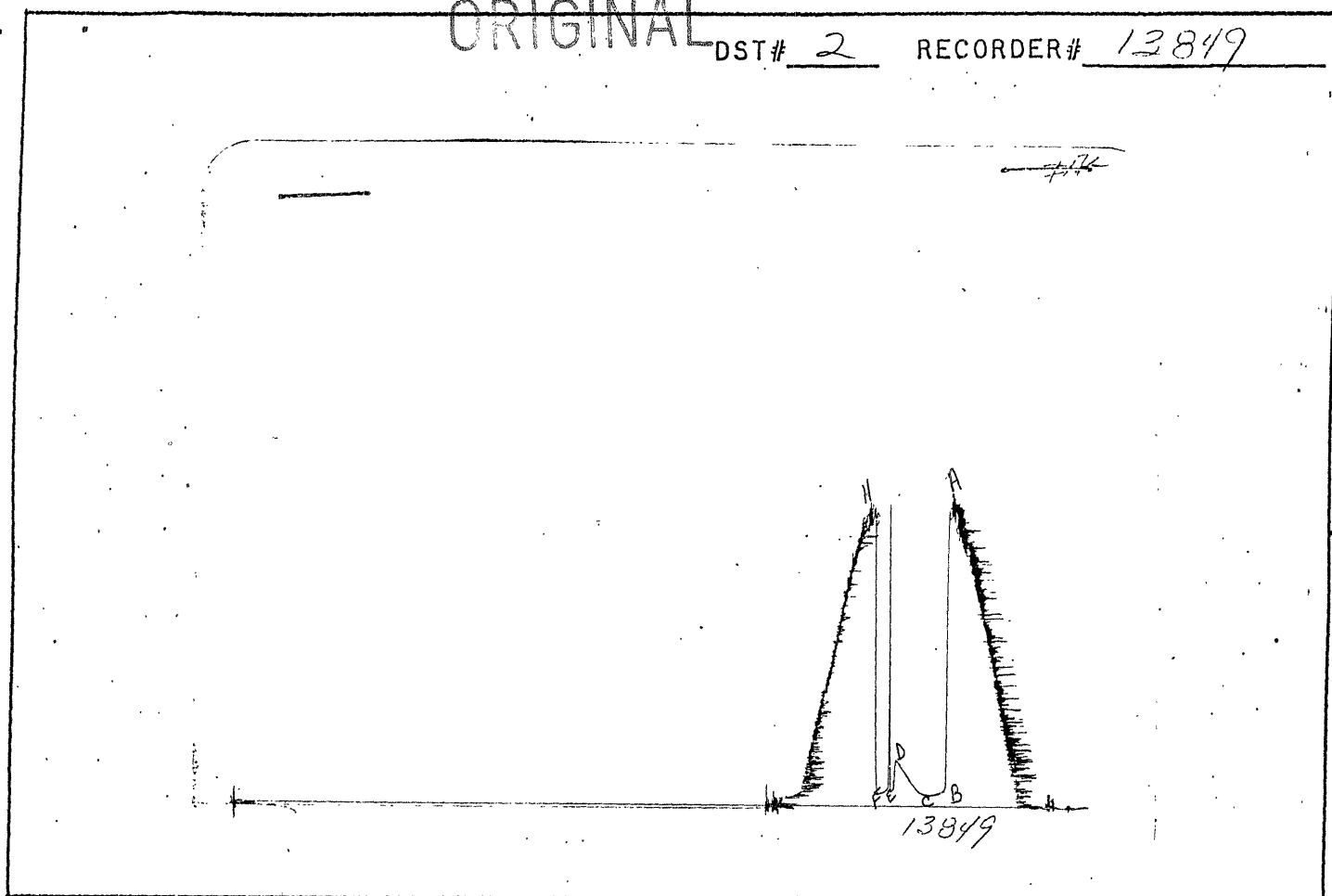
Our Representative MR DAN BANGLE NOV 12 1991 450

15-163 - 23091 - 00-00

ORIGINAL

DST# 2

RECORDER# 12849



This is an actual photograph of recorder chart.

PRESSURE

POINT	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud.....	1836	1841.2	PSI
(B) First Initial Flow Pressure.....	49	51.2	PSI
(C) First Final Flow Pressure.....	49	50.9	PSI
(D) Initial Closed-In Pressure.....	285	288.7	PSI
(E) Second Initial Flow Pressure.....	49	50.9	PSI
(F) Second Final Flow Pressure.....	49	48.7	PSI
(G) Final Closed-In Pressure.....	0	0	PSI
(H) Final Hydrostatic Mud.....	1736	1730.9	PSI

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CONSERVATION DIVISION
Wichita, Kansas

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

TEST TICKET

ORIGINAL

15-163-2309100-00 No. 2755

Well Name & No. Palmberg #1 Test No. 2 Date 4-24-90
 Company Co-Kan Res. Zone Tested Lower K.C.
 Address P.O. Box 854, Hays, Ks. 67601 Elevation 2123 K.B.
 Co. Rep. / Geo. Jim Harden Cont. Emphasis #6 Est. Ft. of Pay _____
 Location: Sec. 33 Twp. 10S Rge. 19W Co. Rocks State Ks.
 No. of Copies 4 Distribution Sheet _____ Yes X No Turnkey X Yes _____ No

Interval Tested 3479 - 3577 Drill Pipe Size 4.5 XH
 Anchor Length 98 Top Choke — 1" _____ Bottom Choke — 3/4" _____
 Top Packer Depth 3474 Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
 Bottom Packer Depth 3479 Wt. Pipe I.D. — 2.7 Ft. Run _____
 Total Depth 3577 Drill Collar — 2.25 Ft. Run _____
 Mud Wt. 9.5 lb/gal. Viscosity 46 Filtrate 10
 Tool Open @ 2:00 P.M. Initial Blow Weak - Died in 13 min

Final Blow No blow

Recovery — Total Feet 10 Flush Tool? 2nd open
 Rec. 10 Feet of D.M. (N.S.)
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____

BHT 11.3 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 24,000 ppm System

(A) Initial Hydrostatic Mud 1836 PSI AK1 Recorder No. 13754 Range 4000
 (B) First Initial Flow Pressure 49 PSI @ (depth) 3483 w/Clock No. 26191
 (C) First Final Flow Pressure 49 PSI AK1 Recorder No. 13849 Range 4375
 (D) Initial Shut-In Pressure 285 PSI @ (depth) 3573 w/Clock No. 3942
 (E) Second Initial Flow Pressure 49 PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 49 PSI @ (depth) _____ w/Clock No. _____
 (G) Final Shut-In Pressure — PSI Initial Opening 15 Test 400⁰⁰
 (H) Final Hydrostatic Mud 1736 PSI Initial Shut-In 30 Jars _____
 Final Flow 15 Safety Joint _____
 Final Shut-In — Straddle _____

Approved By Paul M. [Signature] Circ. Sub X
 Our Representative Dan [Signature] Sampler _____
 Extra Packer _____
 Other 2 hrs. 50⁰⁰
 TOTAL PRICE \$ 450⁰⁰

Printcraft Printers - Hays, KS

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