

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

API NO. 15- 109-20526 - 0000

County Logan

C - SE - SE - Sec. 4 Twp. 11S Rge. 33 X E

660 Feet from SN (circle one) Line of Section

660 Feet from EW (circle one) Line of Section

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

Lease Name Nollette Well # P-4

Field Name _____

Producing Formation Lansing and Johnson

Elevation: Ground 3129' KB 3134'

Total Depth 4726' PBTD 4669'

Amount of Surface Pipe Set and Cemented at 345 Feet

Multiple Stage Cementing Collar Used? X Yes _____ No _____

If yes, show depth set 2615 Feet

If Alternate II completion, cement circulated from 2615
feet depth to surface w/ 400 ex cat.

Drilling Fluid Management Plan 2-24-92
(Data must be collected from the Reserve Pit)

Chloride content _____ STATE _____ ppm Fluid volume _____ bbls
COMMISSION

Dewatering method used _____

Location of fluid disposal if hauled offsite: 2-18-92

Operator Name _____
GCRD DIVISION
Wichita, Kansas

Lease Name _____ License No. _____

Quarter _____ Sec. _____ Twp. _____ S Rng. _____ E/W

County _____ Docket No. _____

Operator: License # 7158

Name: Luff Exploration Company

Address 1580 Lincoln St., Suite 850

City/State/Zip Denver, Colorado 80203

Purchaser: Koch Oil

Operator Contact Person: Rich Ferris

Phone (303) 861-2468

Contractor: Name: White & Ellis

License: 5420

Wellsite Geologist: Gregory Magruder

Designate Type of Completion
 New Well _____ Re-Entry _____ Workover _____

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

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

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

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

12/28/91 1/10/92 1/21/92
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.

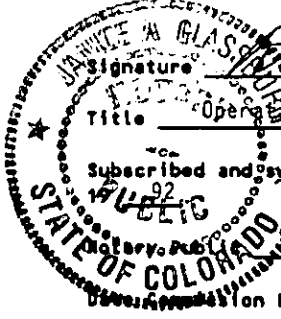
All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature Richard A. Ferris
Title Operations Engr. Supv. Date 2/14/92

Subscribed and sworn to before me this 14th day of February, 1992

James A. Glasburn
Notary Public
1580 Lincoln St., # 850
Denver, Colorado 80203

Commission Expires 11/16/93



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)

PI

SIDE TWO

Operator Name Luff Exploration Company Lease Name Nollette Well # P-4
 Sec. 4 Twp. 11S Rge. 33 East County Logan
 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 (Attach Additional Sheets.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Anhydrite	2615'	+ .519'
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Heebner Shale	4036'	- 902'
List All E.Logs Run: CBL-VOL-GR-Collar Log		Toronto	4063'	- 929'
Drill stem tests and driller's log have previously been sent		Lansing	4076'	- 942'
		Stark Shale	4301'	-1167'
		BKC	4364'	-1230'
		Marmaton	4391'	-1257'
		Pawnee	4496'	-1362'
		Fort Scott	4550'	-1416'
		Cherokee	4578'	-1444'
		Johnson Zone	4624'	-1490'
		Mississippian	4682'	-1548'

CASING RECORD <input checked="" 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"	23#	345'	60-40 Poz	215	2% gel 3% CaCl ₂
Production	7-7/8"	5-1/2"	14#	4716'	EA-2	150	10% salt, 5% Halad 322, 1% d-air 6# gilsonite/sack

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
	1	4624' to 4630' - Johnson		2500 gals 15% NE-HCL	
1	4289' to 4293' - Lansing "J"		1000 gals 15% NE-HCL		4289'

TUBING RECORD	Size 2-7/8"	Set At 4644'	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
Date of First, Resumed Production, SWD or Inj.	Producing Method <input checked="" type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)							
Estimated Production Per 24 Hours	Oil 90	Bbls.	Gas TSTM	Mcf 0	Water 0	Bbls.	Gas-Oil Ratio NA	Gravity 35° API

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: Lansing "J"
Johnson

Drill-Stem Test Data

Well Name NOLLETTE #P-4 Test No. 1 Date 1/6/92
 Company LUFF EXPLORATION CO Zone Tested LKC-"H-I"
 Address 1580 LINCOLN ST DENVER CO 80203 Elevation 3134 K.B.
 Co. Rep./Geo. GREG MAGRUDER Cont. WHITE & ELLIS #8 Est. Ft. of Pay 4
 Location: Sec. 4 Twp. 11S Rge. 33W Co. LOGAN State KS

Interval Tested 4218-4280 Drill Pipe Size 4.5 XH
 Anchor Length 62 Wt. Pipe I.D. - 2.7 Ft. Run _____
 Top Packer Depth 4213 Drill Collar - 2.25 Ft. Run _____
 Bottom Packer Depth 4218
 Total Depth 4280

Mud Wt. 9.3 lb / gal. Viscosity 45 Filtrate 11.2

Tool Open @ 8:15 AM Initial Blow STRONG-OFF BOTTOM OF BUCKET IN 4 MINUTES'

Final Blow STRONG-OFF BOTTOM OF BUCKET IN 4 MINUTES

Recovery - Total Feet 992 Flush Tool? NO

Rec. 930 Feet of GAS IN PIPE

Rec. 682 Feet of CLEAN GASSY OIL-20%GAS/80%OIL

Rec. 124 Feet of OIL CUT GSY MUD-20%GAS/20%OIL/60%MUD

Rec. 124 Feet of OIL CUT GSY MUD-20%GAS/10%OIL/70%MUD

Rec. 62 Feet of SLTLY OIL CUT GSY MUD-10%GAS/5%OIL/85%MUD

BHT 116 °F Gravity _____ °API @ _____ °F Corrected Gravity 36 °API

RW _____ @ _____ °F Chlorides _____ ppm-Recovery Chlorides 8000 ppm System

(A) Initial Hydrostatic Mud 2210.2 PSI AK1 Recorder No. 13754 Range 4000

(B) First Initial Flow Pressure 71.2 PSI @ (depth) _____ w/Clock No. 8179

(C) First Final Flow Pressure 201.3 PSI AK1 Recorder No. 13849 Range 4375

(D) Initial Shut-In Pressure 810.2 PSI @ (depth) _____ w/Clock No. 26199

(E) Second Initial Flow Pressure 220.2 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 385.2 PSI @ (depth) _____ w/Clock No. _____

(G) Final Shut-In Pressure 810.2 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 2110.2 PSI Initial Shut-In 45 Final Shut-In 90

Our Representative DAN BANGLE TOTAL PRICE \$ 1000



POINT

This is an actual photograph of recorder chart PRESSURE

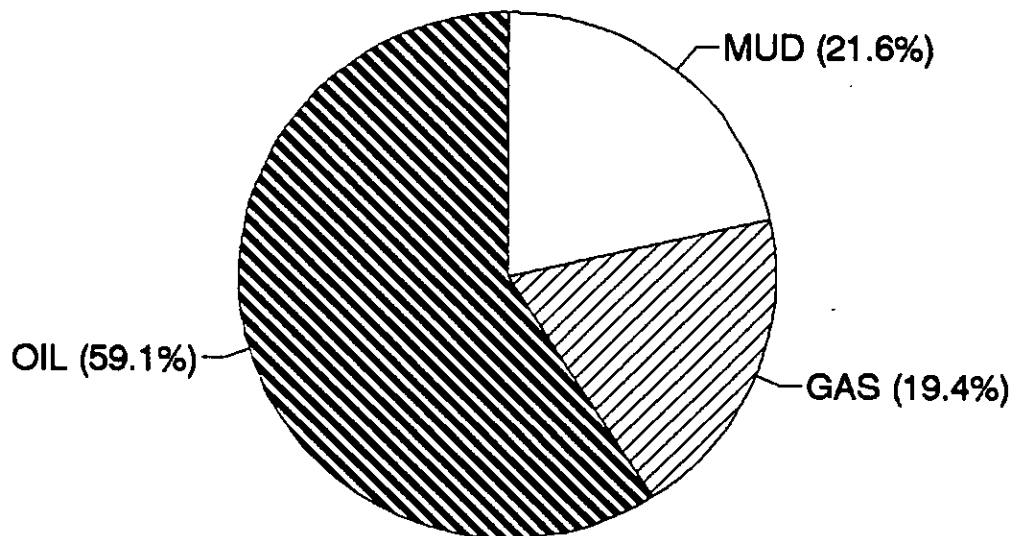
	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2208	2210.2
(B) FIRST INITIAL FLOW PRESSURE	68	71.2
(C) FIRST FINAL FLOW PRESSURE	196	201.3
(D) INITIAL CLOSED-IN PRESSURE	808	810.2
(E) SECOND INITIAL FLOW PRESSURE	216	220.2
(F) SECOND FINAL FLOW PRESSURE	383	385.2
(G) FINAL CLOSED-IN PRESSURE	808	810.2
(H) FINAL HYDROSTATIC MUD	2107	2110.2

15-109-205 26-0000

ORIGINAL

DST #	1	CALCULATED RECOVERY ANALYSIS				DRILL	PIPE		
		TICKET # 4691							
SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
1	682	20	136.4	80	545.6	0	0	0	0
2	124	20	24.8	20	24.8	0	0	60	74.4
3	124	20	24.8	10	12.4	0	0	70	86.8
4	62	10	6.2	5	3.1	0	0	85	52.7
5			0		0		0		0
TOTAL	992	19.4	192.2	59.0625	585.9	0	0	21.5625	213.9

BBL OIL= 8.331498 * HRS OPEN BBL/DAY 1.5 133.304
BBL WATER 0 * 0
BBL MUD= 3.041658
BBL GAS 2.733084



TRILOBITE TESTING COMPANY

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 4691 Date 1/6/92
Company Name LUFF EXPLORATION CO
Lease NOLLETTE #P-4 Test No. 1
County LOGAN Sec. 4 Twp. 11S Rng. 33W

SAMPLER RECOVERY

Gas 100 ML
Oil 2900 ML
Mud 0 ML
Water 0 ML
Other 0 ML
Pressure 200 PSI
Total 3000 ML

PIT MUD ANALYSIS

Chlorides _____ ppm.
Resistivity 0.68 ohms @ 82 F
Viscosity 45
Mud Weight 9.3
Filtrate 11.2
Other _____

SAMPLER ANALYSIS

Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
Gravity _____ corrected @ 60 F

PIPE RECOVERY

TOP
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
MIDDLE
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
BOTTOM
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

15-109-205 26-0000

TRILOBITE TESTING COMPANY

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 4691 Date 1-6-92

Company Name Luff Exploration Co.

Lease Nollette # P-4 Test No. 1

County Logan Sec. 4 Twp. 11 Rng. 33

SAMPLER RECOVERY

Gas 100 ML
Oil 2900 ML
Mud 0 ML
Water 0 ML
Other 0 ML
Pressure 200 PSI
Total 3000 ML

PIT MUD ANALYSIS

Chlorides 8,000 ppm.
Resistivity 1.68 ohms @ 82 F
Viscosity 45
Mud Weight 9.3
Filtrate 11.2
Other

SAMPLER ANALYSIS

Resistivity ohms @ F
Chlorides ppm.
Gravity 38 corrected @ 60 F

PIPE RECOVERY

TOP
Resistivity ohms @ F
Chlorides ppm.
MIDDLE
Resistivity ohms @ F
Chlorides ppm.
BOTTOM
Resistivity ohms @ F
Chlorides ppm.

TRILOBITE TESTING COMPANY TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 4691

TRUCK
(GOT STUCK)

Well Name & No. <u>NOLLETTE # P-4</u>	Test No. <u>1</u>	Date <u>1-6-92</u>
Company <u>LUFF Exploration Co.</u>	Zone Tested <u>H-I</u>	<u>h.KC</u>
Address <u>1580 Lincoln St. Denver, Colo. 80203</u>	Elevation <u>3134</u>	<u>K.B.</u>
Co. Rep./Geo. <u>Greg Magruder</u>	Cont. <u>White & Ellis #8</u>	Est. Ft. of Pay <u>4</u>
Location: Sec. <u>4</u>	Twp. <u>11</u>	Rge. <u>33</u>
	Co. <u>Logan</u>	State <u>Ks.</u>
No. of Copies <u>5</u>	Distribution Sheet <u>Yes</u>	Yes <u>X</u> No Turnkey <u>Yes</u> Yes <u>X</u> No <u>No</u> Evaluation

Interval Tested <u>4218 - 4280</u>	Drill Pipe Size <u>4.5 XH</u>
Anchor Length <u>62</u>	Top Choke — 1" _____ Bottom Choke — 3/4" _____
Top Packer Depth <u>4213</u>	Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
Bottom Packer Depth <u>4218</u>	Wt. Pipe I.D. — 2.7 Ft. Run _____
Total Depth <u>4280</u>	Drill Collar — 2.25 Ft. Run _____
Mud Wt. <u>9.3</u> lb/gal.	Viscosity <u>45</u> Filtrate <u>11.2</u>
Tool Open @ <u>8:15 A.M.</u> Initial Blow <u>Strong - off bottom of bucket in 4 min.</u>	
Final Blow <u>Strong - off bottom of bucket in 4 min.</u>	

Recovery — Total Feet <u>992</u>	Feet of Gas In Pipe <u>920</u>	Flush Tool? _____
Rec. <u>682</u> Feet Of <u>C Gsy O</u>	<u>20%</u> gas	%oil _____ %water _____ %mud _____
Rec. <u>124</u> Feet Of <u>O.C. Gsy M</u>	<u>20%</u> gas	<u>20%</u> oil %water <u>60</u> %mud
Rec. <u>124</u> Feet Of <u>O.C. Gsy M</u>	<u>20%</u> gas	<u>10%</u> oil %water <u>70</u> %mud
Rec. <u>62</u> Feet Of <u>517/4 O.C Gsy M</u>	<u>10%</u> gas	<u>5%</u> oil %water <u>85</u> %mud
Rec. _____ Feet Of _____	%gas _____	%oil _____ %water _____ %mud _____

BHT 116 °F Gravity _____ °API @ _____ °F Corrected Gravity 36 °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 8,000 ppm System

(A) Initial Hydrostatic Mud <u>2208</u>	PSI	Ak1 Recorder No. <u>13754</u>	Range <u>4000</u>
(B) First Initial Flow Pressure <u>68</u>	PSI	@ (depth) <u>4222</u>	w/Clock No. <u>8179</u>
(C) First Final Flow Pressure <u>196</u>	PSI	Ak1 Recorder No. <u>13849</u>	Range <u>4375</u>
(D) Initial Shut-In Pressure <u>808</u>	PSI	@ (depth) <u>4276</u>	w/Clock No. <u>26199</u>
(E) Second Initial Flow Pressure <u>216</u>	PSI	Ak1 Recorder No. _____	Range _____
(F) Second Final Flow Pressure <u>383</u>	PSI	@ (depth) _____	w/Clock No. _____
(G) Final Shut-In Pressure <u>808</u>	PSI	Initial Opening <u>30</u>	Test _____
(H) Final Hydrostatic Mud <u>2107</u>	PSI	Initial Shut-In <u>45</u>	Jars <u>X</u>

TRILOBITE TESTING COMPANY SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUBSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Final Flow <u>60</u>	Safety Joint <u>X</u>
Final Shut-In <u>90</u>	Straddle _____
	Circ. Sub _____
	Sampler <u>X</u>
	Extra Packer _____
	Other <u>2nd</u>
	TOTAL PRICE \$ _____

Approved By Greg Magruder

Our Representative Dan Bruner

Printcraft Printers - Hays, KS

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

15-109-20526-0000

ORIGINAL

Drill-Stem Test Data

Well Name NOLLETTE #P-4 Test No. 2 Date 1/7/92
Company LUFF EXPLORATION CO Zone Tested LKC-"J"
Address 1580 LINCOLN ST DENVER CO 80203 Elevation 3134 K.B.
Co. Rep./Geo. GREG MAGRUDER Cont. WHITE & ELLIS #8 Est. Ft. of Pay 4
Location: Sec. 4 Twp. 11S Rge. 33W Co. LOGAN State KS

Interval Tested 4282-4308
Anchor Length 26
Top Packer Depth 4277
Bottom Packer Depth 4282
Total Depth 4308

Drill Pipe Size 4.5 XH
Wt. Pipe I.D. - 2.7 Ft. Run _____
Drill Collar - 2.25 Ft. Run _____

Mud Wt. 9.1 lb / gal. Viscosity 49 Filtrate 12.8

Tool Open @ 12:10 AM Initial Blow STRONG-OFF BOTTOM OF BUCKET IN 5 MINUTES

Final Blow STRONG-OFF BOTTOM OF BUCKET IN 6 MINUTES

Recovery - Total Feet 697 Flush Tool? NO

Rec. 806 Feet of GAS IN PIPE

Rec. 573 Feet of CLEAN GASSY OIL-25%GAS/75%OIL

Rec. 124 Feet of OIL CUT GSY MUD-20%GAS/15%OIL/65%MUD

Rec. _____ Feet of _____

Rec. _____ Feet of _____
BHT 116 °F Gravity _____ °API @ _____ °F Corrected Gravity 38 °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 9000 ppm System

(A) Initial Hydrostatic Mud 2190.2 PSI AK1 Recorder No. 13754 Range 4000

(B) First Initial Flow Pressure 51.2 PSI @ (depth) 4286 w/Clock No. 8179

(C) First Final Flow Pressure 90.2 PSI AK1 Recorder No. 13849 Range 4375

(D) Initial Shut-In Pressure 534.2 PSI @ (depth) 4304 w/Clock No. 26199

(E) Second Initial Flow Pressure 131.2 PSI AK1 Recorder No. _____ Range _____

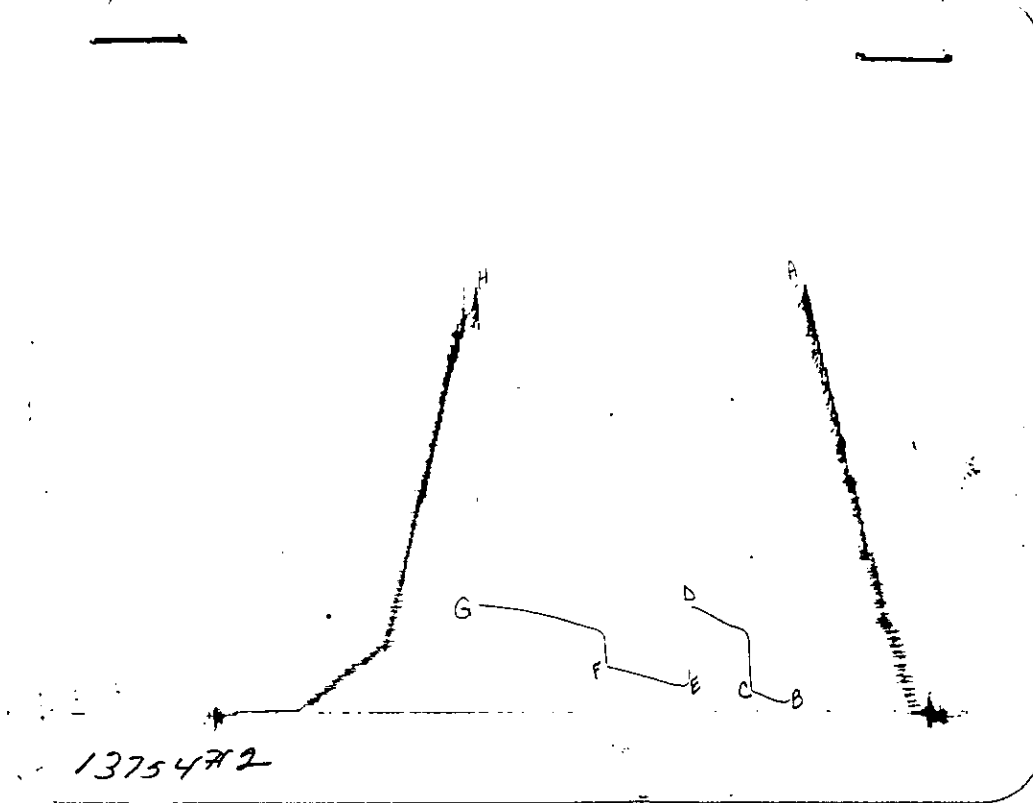
(F) Second Final Flow Pressure 230.2 PSI @ (depth) _____ w/Clock No. _____

(G) Final Shut-In Pressure 543.2 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 2090.2 PSI Initial Shut-in 45 Final Shut-in 90

Our Representative DAN BANGLE

TOTAL PRICE \$ 1000

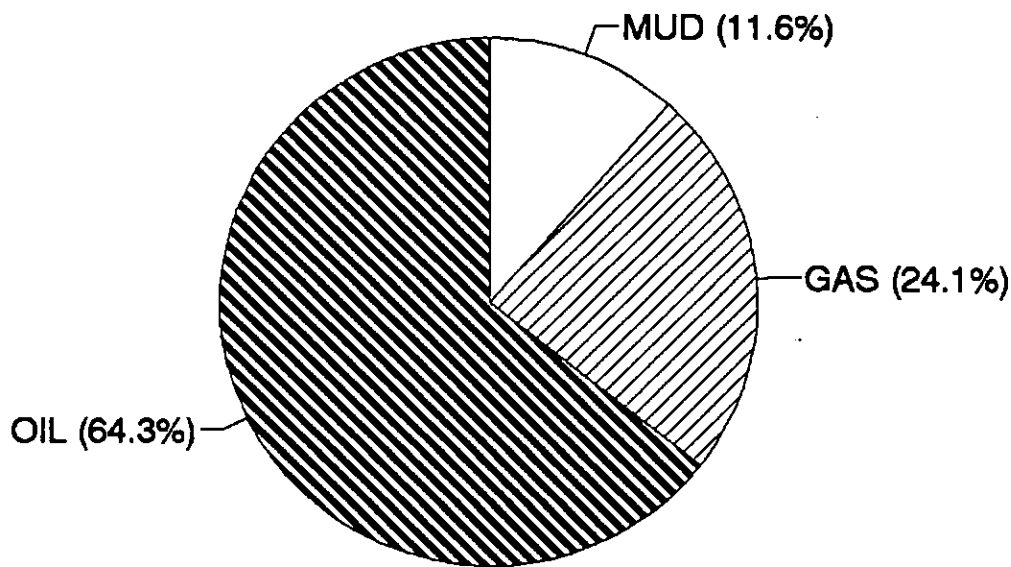


POINT This is an actual photograph of recorder chart PRESSURE

POINT	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2188	2190.2
(B) FIRST INITIAL FLOW PRESSURE	49	51.2
(C) FIRST FINAL FLOW PRESSURE	88	90.2
(D) INITIAL CLOSED-IN PRESSURE	531	534.2
(E) SECOND INITIAL FLOW PRESSURE	127	131.2
(F) SECOND FINAL FLOW PRESSURE	226	230.2
(G) FINAL CLOSED-IN PRESSURE	541	543.2
(H) FINAL HYDROSTATIC MUD	2087	2090.2

DST #		CALCULATED RECOVERY ANALYSIS					DRILL		PIPE	
2		TICKET # 4692								
SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD		
		%	FEET	%	FEET	%	FEET	%	FEET	
1	573	25	143.25	75	429.75	0	0	0	0	
2	124	20	24.8	15	18.6	0	0	65	80.6	
3			0		0		0		0	
4			0		0		0		0	
5			0		0		0		0	
TOTAL	697	24.1	168.05	64.3257	448.35	0	0	11.5638	80.6	

HRS OPEN BBL/DAY
 BBL OIL= 6.375537 * 1.5 102.009
 BBL WATER 0 * 0
 BBL MUD= 1.146132
 BBL GAS 2.389671



TRILOBITE TESTING COMPANY

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 4692 Date 1/7/92
Company Name LUFF EXPLORATION CO
Lease NOLLETTE #P-4 Test No. 2
County LOGAN Sec. 4 Twp. 11S Rng. 33W

SAMPLER RECOVERY

Gas 100 ML
Oil 2500 ML
Mud 0 ML
Water 0 ML
Other 0 ML
Pressure 150 PSI
Total 2600 ML

PIT MUD ANALYSIS

Chlorides _____ ppm.
Resistivity 0.7 ohms @ 81 F
Viscosity 49
Mud Weight 9.1
Filtrate 12.8
Other _____

SAMPLER ANALYSIS

Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
Gravity _____ corrected @ 60 F

PIPE RECOVERY

TOP
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
MIDDLE
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
BOTTOM
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

TRILOBITE TESTING COMPANY

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 4692 Date 1-7-92
 Company Name Luff Exploration Co.
 Lease Nollette # P-4 Test No. 2
 County Logan Sec. 4 Twp. 11 Rng. 33

SAMPLER RECOVERY

Gas 100 ML
 Oil 2500 ML
 Mud 0 ML
 Water 0 ML
 Other 0 ML
 Pressure 150 PSI
 Total 2600 ML

PIT MUD ANALYSIS

Chlorides 2000 ppm.
 Resistivity .70 ohms @ 81 F
 Viscosity 49
 Mud Weight 9.1
 Filtrate 12.8
 Other _____

SAMPLER ANALYSIS

Resistivity _____ ohms @ _____ F
 Chlorides _____ ppm.
 Gravity _____ corrected @ 60 F

PIPE RECOVERY

TOP
 Resistivity _____ ohms @ _____ F
 Chlorides _____ ppm.
 MIDDLE
 Resistivity _____ ohms @ _____ F
 Chlorides _____ ppm.
 BOTTOM
 Resistivity _____ ohms @ _____ F
 Chlorides _____ ppm.

TRILOBITE TESTING COMPANY
TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 4692

Fax 303-861-2481

Well Name & No. <u>Nellette # P-4</u>	Test No. <u>2</u>	Date <u>1-7-92</u>
Company <u>Luff Exploration Co.</u>	Zone Tested <u>'I'</u>	<u>L.K.C.</u>
Address _____	Elevation <u>3134 K.B.</u>	
Co. Rep./Geo. <u>Greg Magruder cont. White + Ellis # 8</u>	Est. Ft. of Pay <u>4</u>	
Location: Sec. <u>4</u>	Twp. <u>11</u>	Rge. <u>33</u>
	Co. <u>Logan</u>	State <u>Ks.</u>
No. of Copies <u>5</u>	Distribution Sheet _____	Yes <u>X</u> No _____
	Turnkey _____	Yes <u>X</u> No <u>No</u> Evaluation _____

Interval Tested <u>4282 - 4308</u>	Drill Pipe Size <u>4.5 x 11</u>
Anchor Length <u>26</u>	Top Choke — 1" _____ Bottom Choke — 3/4" _____
Top Packer Depth <u>4277</u>	Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
Bottom Packer Depth <u>4282</u>	Wt. Pipe I.D. — 2.7 Ft. Run _____
Total Depth <u>4308</u>	Drill Collar — 2.25 Ft. Run _____
Mud Wt. <u>9.1</u> lb/gal.	Viscosity <u>49</u> Filtrate <u>12.8</u>
Tool Open @ <u>12:10 A.M.</u>	Initial Blow <u>Strong - off bottom of bucket in 5 min.</u>
Final Blow <u>Strong - off bottom of bucket in 6 min.</u>	

Recovery — Total Feet <u>697</u>	Feet of Gas in Pipe <u>806</u>	Flush Tool? _____
Rec. <u>573</u> Feet Of <u>C. Gsy 0</u>	<u>25%</u> gas %oil _____ %water _____ %mud _____	
Rec. <u>124</u> Feet Of <u>O.C. Gsy M</u>	<u>20%</u> gas <u>15%</u> oil %water _____ %mud <u>65%</u>	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	

BHT 116 °F Gravity _____ °API @ _____ °F Corrected Gravity 38 °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 9,000 ppm System

(A) Initial Hydrostatic Mud 2188 PSI Ak1 Recorder No. 13754 Range 4000

(B) First Initial Flow Pressure 49 PSI @ (depth) 4286 w/Clock No. 8179

(C) First Final Flow Pressure 88 PSI AK1 Recorder No. 13849 Range 4375

(D) Initial Shut-in Pressure 531 PSI @ (depth) 4304 w/Clock No. 26199

(E) Second Initial Flow Pressure 127 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 226 PSI @ (depth) _____ w/Clock No. _____

(G) Final Shut-in Pressure 541 PSI Initial Opening 30 Test _____

(H) Final Hydrostatic Mud 2087 PSI Initial Shut-in 45 Jars X

TRILOBITE TESTING COMPANY SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUBSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Final Flow 60 Safety Joint X

Final Shut-in 90 Straddle _____

Circ. Sub _____

Sampler X

Extra Packer _____

Other See _____

Approved By Greg Magruder

Our Representative Dan Rangle

TOTAL PRICE \$ _____

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

ORIGINAL

Drill-Stem Test Data

Well Name NOLLETTE #P-4 Test No. 3 Date 1/8/92
 Company LUFF EXPLORATION CO Zone Tested JOHNSON
 Address 1580 LINCOLN ST DENVER CO 80203 Elevation 3134 K.B.
 Co. Rep./Geo. GREG MAGRUDER Cont. WHITE & ELLIS #8 Est. Ft. of Pay _____
 Location: Sec. 4 Twp. 11S Rge. 33W Co. LOGAN State KS

Interval Tested 4602-4645 Drill Pipe Size 4.5 XH
 Anchor Length 43 Wt. Pipe I.D. - 2.7 Ft. Run _____
 Top Packer Depth 4597 Drill Collar - 2.25 Ft. Run _____
 Bottom Packer Depth 4602
 Total Depth 4645

Mud Wt. 9.3 lb / gal. Viscosity 56 Filtrate 15.6

Tool Open @ 4:45 PM Initial Blow WEAK-BUILDING TO 2"
 Final Blow WEAK-BUILDING TO 2"

Recovery — Total Feet 80 Flush Tool? NO

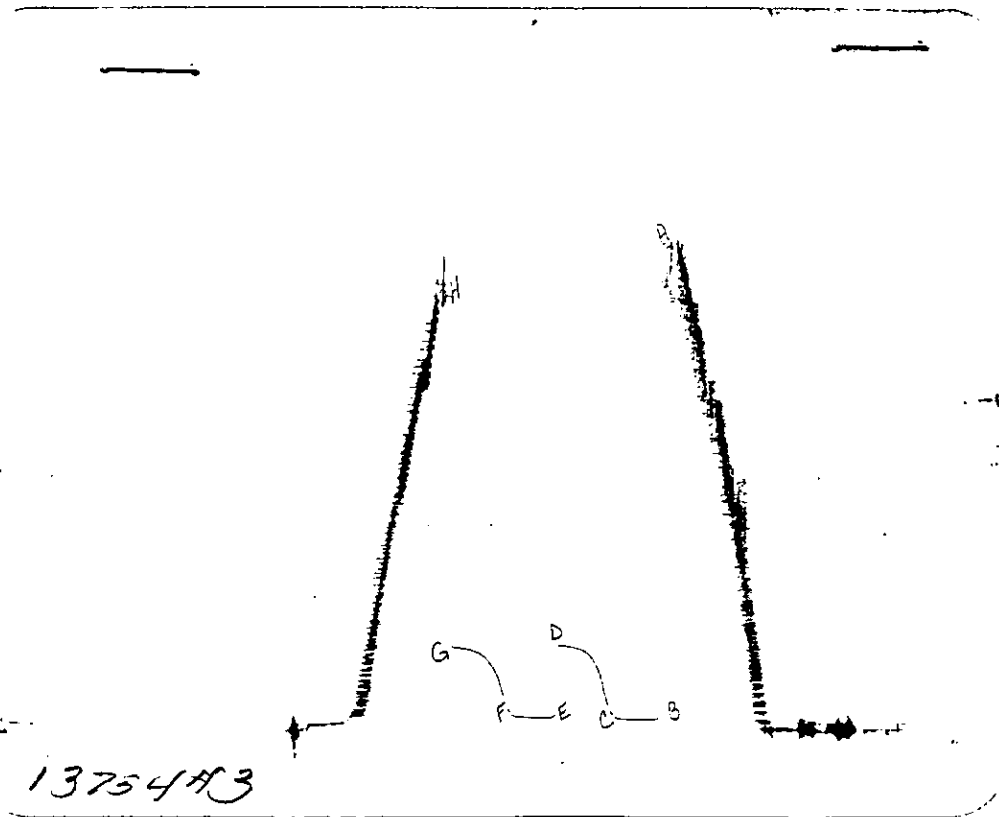
Rec. 80 Feet of OIL CUT MUD-10%OIL/90%MUD
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____

Rec. _____ Feet of _____
 BHT 124 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 14000 ppm System

(A) Initial Hydrostatic Mud 2510.3 PSI Ak1 Recorder No. 13754 Range 4000
 (B) First Initial Flow Pressure 47.2 PSI @ (depth) 4606 w/Clock No. 8179
 (C) First Final Flow Pressure 47.2 PSI Ak1 Recorder No. 13849 Range 4375
 (D) Initial Shut-in Pressure 426.2 PSI @ (depth) 4641 w/Clock No. 26199
 (E) Second Initial Flow Pressure 58.3 PSI Ak1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 58.3 PSI @ (depth) _____ w/Clock No. _____
 (G) Final Shut-in Pressure 403.2 PSI Initial Opening 30 Final Flow 30
 (H) Final Hydrostatic Mud 2391.2 PSI Initial Shut-in 45 Final Shut-in 45

Our Representative DAN BANGLE TOTAL PRICE \$ 1000



POINT This is an actual photograph of recorder chart
PRESSURE

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2500	2510.3
(B) FIRST INITIAL FLOW PRESSURE	44	47.2
(C) FIRST FINAL FLOW PRESSURE	44	47.2
(D) INITIAL CLOSED-IN PRESSURE	422	426.2
(E) SECOND INITIAL FLOW PRESSURE	55	58.3
(F) SECOND FINAL FLOW PRESSURE	55	58.3
(G) FINAL CLOSED-IN PRESSURE	400	403.2
(H) FINAL HYDROSTATIC MUD	2389	2391.2

TRILOBITE TESTING COMPANY

P.O. Box 362 - Hays, Kansas 67601

ORIGINAL

FLUID SAMPLER DATA

Ticket No. 4693 Date 1/8/92

Company Name LUFF EXPLORATION CO

Lease NOLLETTE #P-4 Test No. 3

County LOGAN Sec. 4 Twp. 11S Rng. 33W

SAMPLER RECOVERY

Gas 0 ML
 Oil 500 ML
 Mud 0.9 ML
 Water 0 ML
 Other 0 ML
 Pressure 100 PSI
 Total ML

PIT MUD ANALYSIS

Chlorides ppm.
 Resistivity 0.86 ohms @ 80 F
 Viscosity 56
 Mud Weight 9.3
 Filtrate 15.6
 Other

SAMPLER ANALYSIS

Resistivity ohms @ F
 Chlorides ppm.
 Gravlty corrected @ 80 F

PIPE RECOVERY

TOP
 Resistivity ohms @ F
 Chlorides ppm.
 MIDDLE
 Resistivity ohms @ F
 Chlorides ppm.
 BOTTOM
 Resistivity ohms @ F
 Chlorides ppm.

TRILOBITE TESTING COMPANY

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 4693 Date 1-8-92
Company Name LUFF Exploration Co.
Lease NOLLETTE # P-4 Test No. 3
County Logan Sec. 4 Twp. 11 Rng. 33

SAMPLER RECOVERY

Gas 0 ML
Oil 1090 500 ML
Mud 9090 ML
Water 0 ML
Other 0 ML
Pressure 100 PSI
Total _____ ML

PIT MUD ANALYSIS

Chlorides 14,000 ppm.
Resistivity 186 ohms @ 80 F
Viscosity 5-6
Mud Weight 9.3
Filtrate 15.6
Other _____

SAMPLER ANALYSIS

Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
Gravity _____ corrected @ 60 F

PIPE RECOVERY

TOP
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

MIDDLE
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

BOTTOM
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

15-109-20526-0000

ORIGINAL

Test Ticket

No 4693

Well Name & No. Nollette # P-4 Test No. 3 Date 1-8-92
 Company Buff Exploration Co. Zone Tested Johson
 Address _____ Elevation 3134 K.B
 Co. Rep./Geo. Greg Magruder Cont. White & Ellis # 8 Est. Ft. of Pay _____
 Location: Sec. 4 Twp. 11 Rge. 33 Co. Logan State Ks.
 No. of Copes 5 Distribution Sheet _____ Yes X No Turnkey _____ Yes X No No Evaluation

Interval Tested 4602-4645 Drill Pipe Size 4.5 XH
 Anchor Length 43 Top Choke — 1" _____ Bottom Choke — 3/4" _____
 Top Packer Depth 45-97 Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
 Bottom Packer Depth 4602 Wt. Pipe I.D. — 2.7 Ft. Run _____
 Total Depth 4645 Drill Collar — 2.25 Ft. Run _____
 Mud Wt. 9.3 lb/gal. Viscosity 56 Filtrate 15.6
 Tool Open @ 4:45 P.M. Initial Blow Weak-building to 2"

Final Blow Weak-building to 2"

Recovery — Total Feet	Feet of Gas In Pipe	Flush Tool?
Rec. <u>80</u> Feet Of <u>O.C.M.</u>	% gas <u>10%</u> oil _____	% water <u>90%</u> mud _____
Rec. _____ Feet Of _____	% gas _____ oil _____	% water _____ mud _____
Rec. _____ Feet Of _____	% gas _____ oil _____	% water _____ mud _____
Rec. _____ Feet Of _____	% gas _____ oil _____	% water _____ mud _____
Rec. _____ Feet Of _____	% gas _____ oil _____	% water _____ mud _____

BHT 124 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 14,000 ppm System

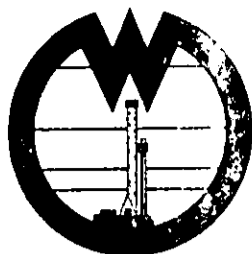
- (A) Initial Hydrostatic Mud 2500 PSI AK1 Recorder No. 13754 Range 4000
- (B) First Initial Flow Pressure 44 PSI @ (depth) 4606 w/Clock No. 8179
- (C) First Final Flow Pressure 44 PSI AK1 Recorder No. 13849 Range 4375
- (D) Initial Shut-In Pressure 422 PSI @ (depth) 4641 w/Clock No. 26199
- (E) Second Initial Flow Pressure 55 PSI AK1 Recorder No. _____ Range _____
- (F) Second Final Flow Pressure 55 PSI @ (depth) _____ w/Clock No. _____
- (G) Final Shut-In Pressure 400 PSI Initial Opening 30 Test _____
- (H) Final Hydrostatic Mud 2389 PSI Initial Shut-In 45 Jars X

TRILOBITE TESTING COMPANY SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUBSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Final Flow 350 Safety Joint X
 Final Shut-In 45 Straddle _____
 Circ. Sub _____
 Sampler X

Approved By Greg Magruder
 Our Representative Dan Benge

Extra Packer _____
 Other 2
 TOTAL PRICE \$ _____



ORIGINAL

WHITE

AND ELLIS DRILLING, Inc.

DRILLERS LOG

OPERATOR: Luff Exploration Company, 1580 Lincoln St. - #850,
Denver, CO 80203
CONTRACTOR: White & Ellis Drilling, Inc. 401 E. Douglas - Suite 500
Wichita, Kansas 67202

Lease Name Nollette Well No. P-4
Sec. 4 T. 11S R. 33W Spot SE SE
County Logan State Kansas Elev. _____

Casing Record:

Surface: 8 5/8" @ 345' with 215 sx.

Production: 5 1/2" @ 4718' with 150 sx.

Type Well: Oil Well Total Depth 4726'

Drilling Commenced 12-27-91 Drilling Completed 1-10-92

Formation	From	To	Tops	
Cellar	0	5	Anhydrite	2623
Clay & Sand	5	348	Lansing "J"	4280
Shale & Shells	348	565		
Sand & Clay	565	1460		
Shale & Shells	1460	2320		
Shale	2320	2720		
Shale w/ Lime Streaks	2720	3115		
Shale & Shells	3115	3445		
Shale & Lime	3445	3550		
Lime & Shale	3550	4635		
Lime	4635	4726		

RECEIVED
KANSAS CORPORATION COMMISSION

JAN 15 1992

CONSERVATION DIVISION
WICHITA, KS

ORIGINAL



HALLIBURTON SERVICES

REMIT TO: 15-109-20526-0000
P.O. BOX 951046
DALLAS, TX 75395-1046

INVOICE

A Halliburton Company

INVOICE NO.	DATE
163724	01/09/1992

WELL LEASE NO./PLANT NAME		WELL/PLANT LOCATION		STATE	WELL/PLANT OWNER	
OLLETTE P-4		LOGAN		KS	LUFF EXPLORATION	
SERVICE LOCATION		CONTRACTOR		JOB PURPOSE		TICKET DATE
BERLIN		WHITE & ELLIS DRIG.		CEMENT PRODUCTION CASING		01/09/1992
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.	
26735	GREG MAGRUDER			COMPANY TRUCK	28328	

DIRECT CORRESPONDENCE TO:

LUFF EXPLORATION CO
1580 LINCOLN STREET
SUITE 850
DENVER, CO 80203

FIRST OKLAHOMA TOWER
210 WEST PARK AVENUE
SUITE 2050
OKLAHOMA CITY, OK 73102-5601

PRICE REF. NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
000-117	TRICING AREA - EASTERN AREA1 MILEAGE	10	MI	2.60	26.00
001-016	CEMENTING CASING	4715	FT	1,365.00	1,365.00
030-016	CEMENTING PLUG 5W ALUM TOP	5 1/2	IN	50.00	50.00 *
12A 825.205	GUIDE SHOE - 5 1/2" 8RD THD.	1	EA	105.00	105.00 *
24A 815.19251	INSERT FLOAT VALVE - 5 1/2" 8RD	1	EA	83.00	83.00 *
27 815.19311	FILL-UP UNIT 5 1/2"-6 5/8"	1	EA	30.00	30.00 *
40 807.93022	CENTRALIZER 5-1/2" X 7 7/8"	10	EA	44.00	440.00 *
320 800.8883	CEMENT BASKET 5 1/2"	3	EA	90.00	270.00 *
73 813.0151	F.O. MULT STAGE CMTR 5 1/2" 8RD	1	EA	1,610.00	1,610.00 *
018-317	SUPER FLUSH	12	SK	96.00	1,152.00
504-308	STANDARD CEMENT	150	SK	6.75	1,012.50 *
508-127	CAL SEAL	7	SK	19.70	137.90 *
509-968	SALT	650	LB	.10	65.00
507-775	HALAD-322	71	LB	6.15	436.65 *
507-970	D-AIR 1, POWDER	38	LB	2.95	112.10 *
508-291	GILSONITE BULK	900	LB	.35	315.00 *
509-968	SALT	200	LB	.10	20.00
509-554	HALLIBURTON GEL - 100 LB.	2	SK	14.75	29.50 *
500-207	BULK SERVICE CHARGE	186	CFT	1.15	213.90 *
500-306	MILEAGE CMTG MAT DEL OR RETURN	82.30	TMI	.80	65.84 *
INVOICE SUBTOTAL					7,539.39

RECEIVED
STATE CORPORATION COMMISSION
06 1992
CONSERVATION DIVISION
WICHITA, KANSAS

***** CONTINUED ON NEXT PAGE *****

TERMS INVOICES 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 AN ATTORNEY TO ENFORCE COLLECTION OF SAID ACCOUNT, CUSTOMER AGREES TO PAY ALL COLLECTION COSTS AND

ORIGINAL



REMIT TO:

P.O. BOX 951046
DALLAS, TX 75395-1046

HALLIBURTON SERVICES

15-109-20526-0000

INVOICE

A Halliburton Company

INVOICE NO.	DATE
163724	01/09/1992

WELL LEASE NO./PLANT NAME	WELL/PLANT LOCATION	STATE	WELL/PLANT OWNER		
COLLETTE P-4	LOGAN	KS	LUFF EXPLORATION		
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE	TICKET DATE		
BERLIN	WHITE & ELLIS DRLG.	CEMENT PRODUCTION CASING	01/09/1992		
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
26235	GREG MAGRUDER			COMPANY TRUCK	28328

LUFF EXPLORATION CO
1580 LINCOLN STREET
SUITE 850
DENVER, CO 80203

DIRECT CORRESPONDENCE TO:
FIRST OKLAHOMA TOWER
210 WEST PARK AVENUE
SUITE 2050
OKLAHOMA CITY, OK 73102-5601

PRICE REF. NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
	DISCOUNT-(BID)				1,357.07-
	INVOICE BID AMOUNT				6,182.32
	*-KANSAS STATE SALES TAX				171.17
	*-DECATUR COUNTY SALES TAX				40.26

	INVOICE TOTAL - PLEASE PAY THIS AMOUNT				\$6,393.75

RECEIVED
JAN 13 1992

IDC-DRLG	
IDC-COMP	✓
EQUIP.	
LOE	
Approved:	RAC
Remarks:	Cement 1st stage 5 1/2" casing

RECEIVED
STATE CORPORATION COMMISSION
FEB 06 1992
CONSERVATION DIVISION
WICHITA, KANSAS

TERMS INVOICES 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 AN ATTORNEY TO ENFORCE COLLECTION OF SAID ACCOUNT, CUSTOMER AGREES TO PAY ALL COLLECTION COSTS AND

ORIGINAL



REMIT TO:

P.O. BOX 951046
DALLAS, TX 75395-1046

HALLIBURTON SERVICES

INVOICE

A Halliburton Company 15-109-20526-0000

INVOICE NO.	DATE
163738	01/14/1992

WELL LEASE NO./PLANT NAME	WELL/PLANT LOCATION	STATE	WELL/PLANT OWNER
IOLETTE P-4	LOGAN	KS	LUFF EXPLORATION
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE	TICKET DATE
BERLIN	POE WELL	TOP OUTSIDE PRODUCTION CASING	01/14/1992
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER
26735	RICHARD A. FERRIS		
			SHIPPED VIA
			COMPANY TRUCK
			FILE NO.
			28515

DIRECT CORRESPONDENCE TO:

LUFF EXPLORATION CO
1580 LINCOLN STREET
SUITE 850
DENVER, CO 80203

FIRST OKLAHOMA TOWER
210 WEST PARK AVENUE
SUITE 2050
OKLAHOMA CITY, OK 73102-5601

PRICE REF. NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
000-117	MILEAGE	10	MI	2.60	26.00
		1	UNT		
009-019	PLUGGING BK SPOT CEMENT OR MUD	2615	FT	1,125.00	1,125.00
		1	UNT		
504-316	HALLIBURTON LIGHT W/STANDARD	400	SK	6.28	2,512.00 *
507-277	HALLIBURTON-GEL ADDED 4%	14	SK	14.75	206.50 *
507-210	FLOCELE	100	LB	1.30	130.00 *
509-968	SALT	200	LB	.10	20.00
500-207	BULK SERVICE CHARGE	463	CFT	1.15	532.45 *
500-306	MILEAGE CMTG MAT DEL OR RETURN	192.5	TMI	.80	154.00 *
INVOICE SUBTOTAL					4,705.95
DISCOUNT-(BID)					847.07-
INVOICE BID AMOUNT					3,858.88
*-KANSAS STATE SALES TAX					123.20
*-DECATUR COUNTY SALES TAX					28.99
INVOICE TOTAL - PLEASE PAY THIS AMOUNT					\$4,011.07

RECEV'D

JAN 21 1992

IDC-DRLG	
IDC-COMP	✓
EQUIP	
L.O.E.	
Approved:	RAF
Remarks:	2nd Stage cement

RECEIVED
STATE CORPORATION COMMISSION
FEB 06 1992
CONSERVATION DIVISION
WICHITA, KANSAS

TERMS INVOICES 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 AN ATTORNEY TO ENFORCE COLLECTION OF SAID ACCOUNT, CUSTOMER AGREES TO PAY ALL COLLECTION COSTS AND

TELEPHONE:

AREA CODE 913 483-2627

ALLIED CEMENTING COMPANY, INC.

P. O. BOX 31

RUSSELL, KANSAS 67665

ORIGINAL

15-109-20526-0000

TO: Luff Exploration Company

1580 Lincoln St. #850

Denver, CO 80203

INVOICE NO. 61021

PURCHASE ORDER NO. _____

LEASE NAME Nollette P-4

DATE Dec. 27, 1991

SERVICE AND MATERIALS AS FOLLOWS:

Common 129 sks @ \$6.10	\$786.90	
Pozmix 86 sks @ \$2.40	206.40	
Chloride 7 sks @ \$21.00	<u>147.00</u>	\$1,140.30
Handling 215 sks @ \$1.00	215.00	
Mileage (9) @ \$.04¢ per sk per mi	77.40	
Surface	380.00	
Mi @ \$2.00 pmp trk chg	13.00	
1 plug	<u>42.00</u>	<u>732.40</u>
	Total	\$1,872.70

✓
Cement circulated

Thank you!

All Prices Are Net, Payable 30 Days Following Date of Invoice. 1½% Charged Thereafter.

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

15-109-20526-0000
 Phone Plainville 913-434-2812
 Phone Ness City 913-798-3843

ALLIED CEMENTING CO., INC.

Home Office P. O. Box 31

Russell, Kansas 67665

2457

New

Date	12-27-91	Sec.	4	fwp.	11s	Range	33w	Called Out	4:00PM	On Location	7:30PM	Job Start	9:15PM	Finish	9:45PM
Lease	NOLLETTE	Well No.	#P-4	Location	MONUMENT	1/2 E	3/4 N	County	LOGAN	State	KANSAS				

Contractor **WHITE & ELLIS DATA RIG # 9**

Type Job **SURFACE**

Hole Size **12 1/4** T.D. **348'**

Csg. **8 5/8** **23#** Depth **345'**

Tbg. Size _____ Depth _____

Drill Pipe _____ Depth _____

Tool _____ Depth _____

Cement Left in Csg. **15'** Shoe Joint _____

Press Max. _____ Minimum _____

Meas Line _____ Displace **21** **BBH**

Perf. _____

Owner **314 E**

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 **LUFF EXPLORATION COMPANY**

Street **1580 Lincoln ST # 850**

City **Denver** State **Co. 80203**

The above was done to satisfaction and supervision of owner agent or contractor.

Purchase Order No. _____

X **Danny D...**

EQUIPMENT

Pumptrk #177	No.	Cementer	<i>[Signature]</i>
		Helper	<i>Will</i>
Pumptrk #218	No.	Cementer	
		Helper	
Bulktrk #218		Driver	<i>[Signature]</i>
		Driver	

CEMENT

Amount Ordered	215 SK 6940 22gel 32 cc		
Consisting of			
Common	129	6.10	786.90
Poz. Mix	86	2.40	206.40
Gel.	4	6.75	N/C
Chloride	7	21.00	147.00
Quickset			

DEPTH of Job

Reference:	Pump Truck CHRG	380.00
	2.00 Per mile 9m	18.00
	1-8 5/8 Wood Plug	42.00
	Sub Total:	440.00
	Tax	
	Total	

Handling	100	215.00
Mileage 9m	04	77.40
	Sub Total	1432.70
	Total	

Remarks:

Cement Circulated

[Signature]

Floating Equipment _____

RECEIVED
 STATE CORPORATION COMMISSION
 08 1992
 CONSERVATION DIVISION
 WICHITA, KANSAS