

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

Operator: License # 5848
 Name: Herman Lang Oil & Gas Co.
 Address 70 North Farmland Road
 City/State/Zip Garden City, KS 67846
 Purchaser: n/a
 Operator Contact Person: Ron Osterbuhr
 Phone (316) 275-7888

Contractor: Name: Chief Drilling, Inc.
 License: 5886
 Wellsite Geologist: Ron Osterbuhr

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

If Workover/Re-Entry: old well info as follows
 RECEIVED
 STATE CORPORATION COMMISSION
 Operator: _____
 Well Name: _____
 Comp. Date _____ Old Total Depth _____
 _____ Deepening _____ Re-perf. _____ Conv. to Inj/SWD
 _____ Plug Back _____ PBTB
 _____ Commingled _____ Docket No. _____
 _____ Dual Completion _____ Docket No. _____
 _____ Other (SWD or Inj?) Docket No. _____
 10-20-92 10-29-92 10-29-92
 Spud Date Date Reached TD Completion Date

API NO. 15- 171-20,449-0000
 County Scott
 C N/2 SW Sec. 7 Twp. 20S Rge. 33 E/W
1980 Feet from N (circle one) Line of Section
3960 Feet from E/W (circle one) Line of Section
 Footages Calculated from Nearest Outside Section Corner:
 NE, SE, NW or SW (circle one)
 Lease Name Rothfelder Well # 3
 Field Name Rothfelder
 Producing Formation none
 Elevation: Ground 2997 KB 3004
 Total Depth 4722 PBTB _____
 Amount of Surface Pipe Set and Cemented at 1238' 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 cat.

Drilling Fluid Management Plan DFA 1-11-99
 (Data must be collected from the Reserve Pit)
 Chloride content 10,500 ppm Fluid volume 1500 bbls
 Dewatering method used 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, 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 confidentially 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 Ronald Osterbuhr
 Title Agent Date 12/28/92
 Subscribed and sworn to before me this 28th day of December, 19 92.
 Notary Public Sharon Brandenburg
 Date Commission Expires 4-11-96

K.C.C. OFFICE USE ONLY		
F	<input type="checkbox"/>	Letter of Confidentiality Attached
C	<input type="checkbox"/>	Wireline Log Received
C	<input checked="" type="checkbox"/>	Geologist Report Received
Distribution		
<input checked="" type="checkbox"/>	KCC	<input type="checkbox"/> SWD/Rep <input type="checkbox"/> NEPA
<input type="checkbox"/>	KGS	<input type="checkbox"/> Plug <input type="checkbox"/> Other (Specify)

SHARON BRANDENBURG
 Notary Public - State of Kansas
 My Appt. Expires 4-11-96

P1

Operator Name Herman Lang Oil & Gas Co.

Lease Name Rothfelder

Well # 3

Sec. 7 Twp. 20S Rge. 33

East
 West

County Scott

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:

Log Formation (Top), Depth and Datum Sample

Name	Top	Datum
B/Stone Corral	2203'	+ 801'
T/Heebner	3869'	- 865'
T/Lansing	3922'	- 918'
T/Marmaton	4393'	- 1389'
T/Cherokee	4519'	- 1515'
T/Morrow	4688'	- 1684'

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"	25#	1238'	60/40 pozmix	475	3%cc, 2% gel
					common	150	

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

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

Date of First, Resumed Production, SWD or Inj. | 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 Perf. Dually Comp. Commingled
 Other (Specify) _____

Production Interval _____



ORIGINAL WESTERN TESTING CO., INC. FORMATION TESTING TICKET

No 19243

P. O. BOX 1599 PHONE (316) 262-5861
WICHITA, KANSAS 67201

Elevation 3002 N.B. Formation Cherokee Eff. Pay. Ft.

District Coodin City Date 10-28-92 Customer Order No.

COMPANY NAME Herman Long Oil & Gas Co.

ADDRESS 70 N. Farm Road Rd. Coodin City KS 67846

LEASE AND WELL NO. Rothfeld #3 COUNTY Scott STATE KS Sec 7 Twp 25Rge. 33W

Mail Invoice To Herman Long Co. Name Address No. Copies Requested 100

Mail Charts To Herman Long Co. Name Address No. Copies Requested 100

Formation Test No. 1 Interval Tested From 4548 ft. to 4585 ft. Total Depth 4585 ft.

Packer Depth 4543 ft. Size 6 5/8 in. Packer Depth ft. Size in.

Packer Depth 4548 ft. Size 6 5/8 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 4575 ft. Recorder Number 3847 Cap. 4200

Bottom Recorder Depth (Outside) 4578 ft. Recorder Number 2604 Cap. 4150

Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Chief Rig 2 Drill Collar Length I. D. in.

Mud Type chemical Viscosity 46 Weight Pipé Length I. D. in.

Weight 9.4 Water Loss 12.0 cc. Drill Pipe Length 4526 I. D. 3.8 in.

Chlorides 5,500 P.P.M. Test Tool Length 22 ft. Tool Size 5 1/2 in.

Jars: Make Serial Number Anchor Length 37 ft. Size 5 1/2 in.

Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 x 1 1/2 in.

Blow Very weak, 1/2 in bucket, decreased slightly in 30 min. I.F.

Surface blowed in 19 min. I.F.

Recovered 10 ft. of SPoil and 4% oil 96% mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of Total Fluid Rec. 10'

Chlorides P.P.M. Sample Jars used Remarks: RECEIVED

STATE CORPORATION COMMISSION

Time On Location 4:40 A.M. Time Pick Up Tool DEC 29 9:00 A.M. Time Off Location P.M.

Time Set Packer(s) 7:20 A.M. Time Started Off Bottom 10:50 A.M. Maximum Temperature 116° F.

Initial Hydrostatic Pressure P.S.I. (A) 2205 P.S.I.

Initial Flow Period 30 Minutes (B) 31 P.S.I. to (C) 31 P.S.I.

Initial Closed In Period 60 Minutes (D) 163 P.S.I.

Final Flow Period 30 Minutes (E) 34 P.S.I. to (F) 34 P.S.I.

Final Closed In Period 90 Minutes (G) 100 P.S.I.

Final Hydrostatic Pressure P.S.I. (H) 2211 P.S.I.

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By Fern Ostubek
Signature of Customer or his authorized representative

Western Representative Henry B. Salge

FIELD INVOICE

Open Hole Test	\$	✓
Misrun	\$	
Straddle Test	\$	
Jars	\$	
Selective Zone	\$	
Safety Joint	\$	✓
Standby	\$	
Evaluation	\$	
Extra Packer	\$	
Circ. Sub.	\$	✓
Mileage	\$	
Fluid Sampler	\$	
Extra Charts	\$	
Insurance	\$	



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET

No 19244

ORIGINAL

P. O. BOX 1599 PHONE (316) 262-5861

WICHITA, KANSAS 67201

Elevation 3002 F.B. Formation Marlow Eff. Pay Ft.

District Garden City Date 10-29-92 Customer Order No.

COMPANY NAME Herman Long Oil & Gas Co.

ADDRESS 70 N. Fairland Rd. Garden City, KS. 67846

LEASE AND WELL NO. Bellfield #3 COUNTY Scott STATE KS Sec. 7 Twp. 25 Rge. 34

Mail Invoice To Herman Long Co. Name Address No. Copies Requested 100

Mail Charts To Herman Long Co. Name Address No. Copies Requested 100

Formation Test No. 2 Interval Tested From 4682 ft. to 4722 ft. Total Depth 4722 ft.

Packer Depth 4677 ft. Size 6 5/8 in. Packer Depth ft. Size in.

Packer Depth 4682 ft. Size 6 5/8 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 4710 ft. Recorder Number 3849 Cap 4200

Bottom Recorder Depth (Outside) 4713 ft. Recorder Number 2604 Cap 4150

Below Straddle Recorder Depth Recorder Number Cap

Drilling Contractor Chief Rig 2 Drill Collar Length I. D. in.

Mud Type Chemical Viscosity 44 Weight Pipe Length I. D. in.

Weight 9.2 Water Loss 11.2 cc. Drill Pipe Length 4654 I. D. 3.8 in.

Chlorides 6500 P.P.M. Test Tool Length 28 ft. Tool Size 5 1/2 in.

Jars Make W.T.C. Serial Number 408 Anchor Length 40 ft. Size 5 1/2 in.

Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 X 1 1/2 in.

Blow: Went to string "Bottom of Cuckoo" in 9 min 2 F.

Went to string in 14 min 1 F.

Recovered 90 ft. of G.P.

Recovered 70 ft. of Oil + water + mud 12% Oil 40% Water 48% Mud

Recovered 160 ft. of Mud + silt + water 3% Oil 27% Mud 60% Water

Recovered 465 ft. of silt + water + oil 2% Gas 98% Water

Recovered ft. of Total Fluid 645

Chlorides 27000 P.P.M. Sample Jars used Remarks: DEC 29 1992

Time On Location 6:45 A.M. P.M. Time Pick Up Tool 7:30 A.M. P.M. Time Off Location A.M. P.M.

Time Set Packer(s) 8:55 A.M. P.M. Time Started Off Bottom 10:55 A.M. P.M. Maximum Temperature 120 F.

Initial Hydrostatic Pressure (A) 2349 P.S.I.

Initial Flow Period Minutes 30 (B) 63 P.S.I. to (C) 148 P.S.I.

Initial Closed In Period Minutes 60 (D) 1121 P.S.I.

Final Flow Period Minutes 60 (E) 178 P.S.I. to (F) 317 P.S.I.

Final Closed In Period Minutes 90 (G) 1104 P.S.I.

Final Hydrostatic Pressure (H) 2286 P.S.I.

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made. All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By [Signature] Signature of Customer or his authorized representative

Western Representative [Signature]

FIELD INVOICE

- Open Hole Test \$ [check]
Misrun \$
Straddle Test \$
Jars \$ [check]
Selective Zone \$
Safety Joint \$ [check]
Standby \$
Evaluation \$
Extra Packer \$
Circ. Sub. \$
Mileage \$
Fluid Sampler \$
Extra Charts \$
Insurance \$

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

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

ORIGINAL

ALLIED CEMENTING CO., INC.

1468

Home Office P. O. Box 31

Russell, Kansas 67665

New

Date	10-21-92	Sec.	7	Fwp.	205	Range	33W	Called Out	08:00	On Location	11:00	Job Start	5 PM	Finish	6:05
Lease	Rothfelder	Well No.	3	Shallow Water Location 25' 6W 25' 5' E 5' into				County	Scott	State	Ks.				
Contractor	Chief #2														
Type Job	Surface														
Hole Size	12 1/4	T.D.	1240												
Csg.	8 5/8	25#	Depth	1240 38											
Tbg. Size	Depth														
Drill Pipe	Depth														
Tool	Depth														
Cement Left in Csg.	Shoe Joint 24'														
Press Max.	500	Minimum													
Meas Line	Displace 77.2661														
Perf.															

Owner Same
 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 Herman Long Oil & Gas
 Street _____
 City _____ State _____
 The above was done to satisfaction and supervision of owner agent or contractor.
 Purchase Order No. _____
 X H. F. [Signature]

CEMENT

Amount Ordered 475 65/35 6% G + 3% CC - 150 Can 3% CC
 Consisting of
 Common _____
 Poz. Mix _____
 Gel. _____
 Chloride _____
 Quickset _____

EQUIPMENT

No.	Cementer	Gary Keith
Pumptrk 158	Helper	
No.	Cementer	Bill
Pumptrk	Helper	
	Driver	Yancy
Bulktrk 199	Driver	
Bulktrk 220	Driver	

RECEIVED _____ Sales Tax _____
 Handling COMMISSION _____
 Mileage 1002
 NOV 29 1992
 Sub Total _____
 Total _____
 Floating Equipment _____

DEPTH of Job

Reference:	Pump Truck	
	Mileage	
	8 1/2" TRP	
	Sub Total	
	Tax	
	Total	

Remarks: Cement circulated as we began mixing 150 Can

1 Saw Tooth GS
 1 Baffle Plate
 2 Cents

Thank you
 Hand. [Signature]

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.

1351

Home Office P. O. Box 31

Russell, Kansas 67665

New

Date	10-29-92	Sec.	7	Fwp.	20	Range	33W	Called Out	3:30 PM	On Location	5:50	Job Start	8:00	Finish	10:00
Lease	Rathfelder	Well No.	3	Location	Shallow Water 1/2 S 6W 2 1/2 S			County	Scott	State	KS				
Contractor	Chief														
Type Job	Rotary Plug														
Hole Size	7 3/8	T.D.	4722												
Csg.	8 3/8	Depth	1238												
Tbg. Size		Depth													
Drill Pipe	4 1/2	Depth	2210												
Tool		Depth													
Cement Left in Csg.		Shoe Joint													
Press Max.		Minimum													
Meas Line		Displace													
Perf.															

Owner Same

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 Herman Long Oil & Gas

Street _____

City _____ State _____

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

Purchase Order No. _____

Herman Long Oil & Gas

CEMENT

Amount Ordered 205 6 3/4 6 1/2 Gal

Consisting of

Common	
Poz. Mix	
Gel.	
Chloride	
Quickset	

Sales Tax _____

Handling _____

STATE COMMISSION Mileage _____

DEC 29 1992

Sub Total _____

Total _____

Floating Equipment _____

EQUIPMENT

No.	Cementer	<u>Gary</u>
Pumptrk 158	Helper	<u>Keith</u>
No.	Cementer	
Pumptrk	Helper	
	Driver	<u>Yancy</u>
Bulktrk 199	Driver	

DEPTH of Job

Reference:	<u>Pump Truck</u>	STATE COMMISSION
	<u>Mileage</u>	<u>DEC 29 1992</u>
	<u>8 1/2" OHP</u>	
	Sub Total	
	Tax	
	Total	

Remarks:

50s @ 2210	
80 " " 1260	<u>Thank you!</u>
40 " " 550	
10 " " 40	<u>Hayden</u>
15 " " RH	
10 " " MH	