

ORIGINAL

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

API NO. 15-163-23,129-0000

County Rooks

C S/2 NE Sec. 20 Twp. 10S Rge. 19  East  West

3300 Ft. North from Southeast Corner of Section

1320 Ft. West from Southeast Corner of Section  
(NOTE: Locate well in section plat below.)

Lease Name Esther Berland Well # 1

Field Name \_\_\_\_\_

Producing Formation Arbuckle

Elevation: Ground 2187' KB 2192'

Total Depth 3841' PBDT \_\_\_\_\_

Operator: License # 6931

Name: Bowman Oil Company

Address P. O. Box 17

City/State/Zip Codell, KS 67630

Purchaser: Farmland Ind.

Operator Contact Person: Don Bowman

Phone ( 913 ) -434-2304

Contractor: Name: Emphasis Oil Operations

License: 8241

Wellsite Geologist: Mike Davignon

Designate Type of Completion

New Well  Re-Entry  Workover

Oil  SWD  Temp. Abd.

Gas  Inj  Delayed Comp.

Dry  Other (Core, Water Supply, etc.)

If OMO: old well info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

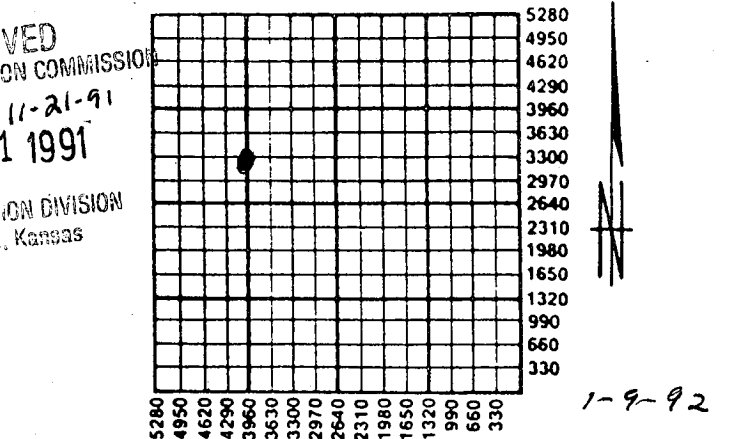
Comp. Date \_\_\_\_\_ Old Total Depth \_\_\_\_\_

Drilling Method:

Mud Rotary  Air Rotary  Cable

11/17/90 11/22/90 12-31-90

Spud Date Date Reached TD Completion Date



Amount of Surface Pipe Set and Cemented at 212' Feet:

Multiple Stage Cementing Collar Used?  Yes  No

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

If Alternate II completion, cement circulated from surface

feet depth to 1587 w/ 285 sacks sx. mt.

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 4 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 Donna D. Bowman

Title Partner Date 11/18/91

Subscribed and sworn to before me this 20<sup>th</sup> day of November, 19 91.

Notary Public Vesta J. Russell

Date Commission Expires 7-17-92

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)

NOTARY PUBLIC - State of Kansas  
VESTA J. RUSSELL  
My Appt. Exp. 7-17-92

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STATE CORPORATION COMMISSION

DEC 23 1991

Form ACO-1 (7-89)

CONSERVATION DIVISION  
Wichita, Kansas

**SIDE TWO**

Operator Name Bowman Oil Company Lease Name Esther Berland Well # 1  
 Sec. 20 Twp. 10S Rge. 19  East County Rooks  
 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.)

Formation Description		
Name	Top	Bottom
Shaly Sandstone	1590	
Top shale	2177	
Harder	3393	
Flintstone	3417	
Landing - KC	3436	
Shale - KC	3756	
Arbuckle	3756	

**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		8 5/8		212	Portland	150	2% SO
Production		7 1/2	14	3752	8/10 Poz	300	

PERFORATION RECORD		Acid, Fracture, Shot, Cement Squeeze Record	
Shots Per Foot	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used)	Depth
2	3792-93 - water		
	Plug set at 3788		
2	3767-68 -		

**TUBING RECORD** Size 2 7/8" Set At 3750 Packer At \_\_\_\_\_ Liner Run  Yes  No

Date of First Production 1/2/91 Producing Method  Flowing  Pumping  Gas Lift  Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	6		400	no gas	22

Disposition of Gas:  Vented  Sold  Used on Lease (If vented, submit ACO-18.)  
 METHOD OF COMPLETION:  Open Hole  Perforation  Dually Completed  Commingled  
 Other (Specify) Completed 12/31/90 Production Interval \_\_\_\_\_

Purchaser: Farmland Industries

15-163-23129-0000

TELEPHONE:  
AREA CODE 913 483-2422

ALLIED CEMENTING COMPANY, INC.  
P. O. BOX 31  
RUSSELL, KANSAS 67665

ORIGINAL

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TO: Bowman Oil Company  
P. O. Box 17  
Codell, Ks. 67630

INVOICE NO. 58337  
PURCHASE ORDER NO. \_\_\_\_\_  
LEASE NAME Ester Berland  
DATE Dec. 15, 1990

SERVICE AND MATERIALS AS FOLLOWS:

Common 191 sks @\$5.25	\$ 1,002.75	
Pozmix 94 sks @\$2.25	211.50	
Gel 8 sks @\$6.75	54.00	
Chloride 2 sks @\$21.00	42.00	
Sand 2 sks @\$4.75	9.50	
		\$ 1,319.75
Handling 285 sks @\$1.00	285.00	
Mileage (14) @\$0.04¢ per sk per mi	171.00	
Squeeze	475.00	
Mi @\$2.00 pmp. trk.	30.00	
		<u>961.00</u>
		\$ 2,280.75

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NOV 21 1991  
DIVISION

Total  
If account CURRENT 20% discount will  
be allowed ONLY if paid within 30 days  
from date of invoice.

Squeezed to 750

THANK YOU

PL

456.15  
1824.60

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

DEPTH of Job	Handling @ 1.00/sk. (285 sks)	285.00
Reference: #4 Pumptruck-squeeze	Mileage @ 04¢/sk./mi. (15 mi.)	171.00
#13 mileage @ 2.00/mi		
	Sub Total	1775.75
	Tax	
	Total	
	Floating Equipment	
	Thanks	

Remarks: Set bridge plug and tested tools at 1500#  
Spotted sand on plug. Came up above ports and took  
injection rate of 4 bds./min. @ 300#. Mixed cement  
and squeezed to 750#. Cleared plug. Put 300#  
on squeeze and shut in. Cement circulated.

ORIGINAL

Oil, Kansas  
661, Great Bend, Kansas

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

New

# ALLIED CEMENTING CO., INC. N<sup>o</sup> 8972

Home Office P. O. Box 31

Russell, Kansas 67665

Date	Sec.	Twp.	Range	Called Out	On Location	Job Start	Finish
12-15-90	20	10 <sup>S</sup>	19 <sup>W</sup>	6:15 A.M.	9:00 A.M.	9:30 A.M.	4:45 P.M.
Lease Ester Berland Well No. 1			Location Zurich S 5 1/2 W 1/2 N 1/8 E			County Rooks	State Ks.

Contractor	Bill's Well Service	
Type Job	Circulate Cement & Squeeze	
Hole Size	7 7/8"	T.D.
Csg.	5 1/2"	Depth
Tubg. Size	2 1/2"	Depth
Surface Drill Pipe	8 7/8"	Depth 212' Bridge plug 2440'
Tool	Diamond Back	
Cement Left in Csg.	15'	Shoe Joint RATE 00'
Press Max.	1500 #	Minimum NOV 21 1991
Meas Line		Displace X
Perfs.	1590'	

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	Bowman Oil Company	
Street	P.O. Box 17	
City	Codell,	State Ks. 67630
The above was done to satisfaction and supervision of owner agent or contractor.		
Purchase Order No.	x Paul Bowman	

### EQUIPMENT

No.	Cementer	Helper
Pumptrk 191	Gary H.	
Pumptrk No.		
Pumptrk #146		Ed K.
Bulktrk #212		Glen C.

### CEMENT

Amount Ordered	235 sks 60/40 6 bag, 150 sks com 3 1/2 c.	
Consisting of	2 sks sand	
Common	191 sks @ 5.25/sk	\$1002.75
Poz. Mix	94 sks @ 2.25/sk	211.50
Gel.	8 sks @ 6.75/sk (used 12 sks)	54.00
Chloride	2 sks @ 21.00/sk	42.00
Quickset		
Sand	2 sks @ 4.75/sk	9.50
Sales Tax		
Handling	@ 1.00/sk (285 sks)	285.00
Mileage	@ 0.44/sk/mi (15 mi)	171.00
Sub Total		\$1775.75
Total		

### DEPTH of Job

Reference: #4 Pumptruck-squeeze	\$475.00
#13 mileage @ 2.00/mi	30.00
Sub Total	\$505.00
Tax	
Total	

Remarks: Set bridge plug and tested tools at 1500 #  
Spotted sand on plug. Came up above perfs and took injection rate of 4 bbls./min. @ 300 #. Mixed cement and squeezed to 750 #. Cleared plug. Put 300 # on squeeze and shut in. Cement circulated.

Floating Equipment Thanks

ORIGINAL

J



HALLIBURTON SERVICES

REMIT TO:  
P.O. BOX 951046  
DALLAS, TX 75395-1046

INVOICE

A Halliburton Company

ORIGINAL

INVOICE NO.	DATE
028572	11/22/1991

WELL LEASE NO./PLANT NAME		WELL/PLANT LOCATION		STATE	WELL/PLANT OWNER	
WATER BERLAND 1		ROOKS		KS	SAME	
SERVICE LOCATION		CONTRACTOR		JOB PURPOSE		TICKET DATE
WYS		EMPHASIS		CEMENT PRODUCTION CASING		11/22/1991
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER		SHIPPED VIA	FILE NO.
12500	JACK E. FOX				COMPANY TRUCK	0569

BOWMAN OIL CO  
P.O. BOX 42  
CODELL, KS 67630

RECEIVED  
STATE CORPORATION COMMISSION

NOV 21 1991

CONSERVATION DIVISION  
Wichita, Kansas

DIRECT CORRESPONDENCE TO:  
SUITE 1300  
LIBERTY TOWER  
100 BROADWAY AVENUE  
OKLAHOMA CITY, OK 73102-0000

PRICE REF. NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
000-117	PRICING AREA - MID CONTINENT MILEAGE	16	MI	2.35	37.60
		1	UNT		
000-118	MILEAGE SURCHARGE--CEMENT--LAND	16	MI	.40	6.40
		1	UNT		
001-016	CEMENTING CASING	3837	FT	1,145.00	1,145.00
		1	UNT		
030-016	CEMENTING PLUG 5W ALUM TOP	5 1/2	IN	47.00	47.00
		1	EA		
12A	GUIDE SHOE - 5 1/2" 8RD THD.	1	EA	104.00	104.00
825.205					
24A	INSERT FLOAT VALVE - 5 1/2"8RD	1	EA	83.00	83.00
815.19251					
27	FILL-UP UNIT 5 1/2"-6 5/8"	1	EA	30.00	30.00
815.19311					
40	CENTRALIZER 5-1/2" MODEL S-4	6	EA	44.00	264.00
807.93022					
320	CEMENT BASKET 5 1/2"	1	EA	90.00	90.00
800.8883					
318-317	SUPER FLUSH	12	SK	74.00	888.00
504-316	HALLIBURTON LIGHT W/STANDARD	100	SK	5.21	521.00
504-308	STANDARD CEMENT	120	SK	5.45	654.00
506-105	POZMIX A	80	SK	2.88	230.40
509-406	ANHYDROUS CALCIUM CHLORIDE	3	SK	25.75	77.25
507-210	FLOCELE	75	LB	1.30	97.50
500-207	BULK SERVICE CHARGE	311	CFT	1.10	342.10
500-306	MILEAGE CNTG MAT DEL OR RETURN	213.880	TMI	.75	160.41
500-307	MILEAGE SURCHARGE--CEMENT MAT.	213.880	TMI	.10	21.39
INVOICE SUBTOTAL					4,799.05

\*\*\*\*\* 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 ATTORNEY FEES IN THE AMOUNT OF 20% OF THE AMOUNT OF THE UNPAID ACCOUNT.

ORIGINAL

TELEPHONE:  
AREA CODE 913 483-2627

ALLIED CEMENTING COMPANY, INC.

P. O. BOX 31  
RUSSELL, KANSAS 67665

TO: Bowamn Oil Company  
Box 17  
Codell, Kansas 67630

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STATE CORPORATION COMMISSION

NOV 21 1991

COMPLETION DIVISION  
MICHIGAN KANSAS

INVOICE NO. 58005

PURCHASE ORDER NO. \_\_\_\_\_

LEASE NAME Esther Berland #1

DATE Nov. 17, 1990

SERVICE AND MATERIALS AS FOLLOWS:

Common 90 sks @\$5.25	\$ 472.50	
Pozmix 60 sks @\$2.25	135.00	
Chloride 5 sks @\$21.00	<u>105.00</u>	\$ 712.50
Handling 150 sks @\$1.00	150.00	
Mileage (15) @\$0.04c per sk per mi	90.00	
Surface	380.00	
Mi @\$2.00 pmp. trk.	30.00	
1 plug	<u>42.00</u>	
		<u>692.00</u>
	<b>Total</b>	\$ 1,404.50

Cement circ.

THANK YOU

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