

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

1/05/11

Form ACO-1
September 1999
Form Must Be Typed

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

Operator: License # 5135
Name: John O. Farmer, Inc.
Address: P.O. Box 352
City/State/Zip: Russell, KS 67665
Purchaser: NCRA
Operator Contact Person: Marge Schulte
Phone: (785) 483-3145, Ext. 214
Contractor: Name: Discovery Drilling Company, Inc.
License: 31548
Wellsite Geologist: Steven P. Murphy & Daniel Bernasconi

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Designate Type of Completion:

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

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If Workover/Re-entry: Old Well Info as follows:

Operator: _____
Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____
_____ Deepening _____ Re-perf. _____ Conv. to Enhr./SWD
_____ Plug Back _____ Plug Back Total Depth
_____ Commingled Docket No. _____
_____ Dual Completion Docket No. _____
_____ Other (SWD or Enhr.?) Docket No. _____

9-10-08 9-16-08 11-5-08
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 167-23,536-00-00
County: Russell
N/2 NW SW NW Sec. 31 Twp. 13 S. R. 12 East West
1510 feet from S (circle one) Line of Section
330 feet from E (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE NW SW
Lease Name: Small Well #: 1
Field Name: (wildcat)

Producing Formation: Lansing "C"
Elevation: Ground: 1852' Kelly Bushing: 1860'
Total Depth: 3425' Plug Back Total Depth: 3408'
Amount of Surface Pipe Set and Cemented at 434 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 cmt.

Drilling Fluid Management Plan AMINO 228509
(Data must be collected from the Reserve Pit)

Chloride content 16,000 ppm Fluid volume 240 bbls
Dewatering method used evaporation
Location of fluid disposal if hauled offsite: _____
Operator Name: _____
Lease Name: _____ License No.: _____
Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
County: _____ Docket No.: _____

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, 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 of 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: John O. Farmer III
Title: President Date: 1-5-09
Subscribed and sworn to before me this 5th day of January,
20 09.
Notary Public: Margaret A. Schulte
Date Commission Expires: _____

1-27-09

KCC Office Use ONLY
 Letter of Confidentiality Received
 If Denied, Yes Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution

Operator Name: John O. Farmer, Inc. Lease Name: Small Well #: 1
 Sec. 31 Twp. 13 S. R. 12 East West County: Russell

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems 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 test, along with final chart(s). Attach extra sheet if more space is needed. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

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:

Microresistivity Log, Dual Induction Log, Dual Compensated Porosity Log

<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Name	Top	Datum
Anhydrite	796'	(+1064)
Topeka	2714'	(-854)
Heebner	2948'	(-1088)
Toronto	2966'	(-1106)
Lansing	3016'	(-1156)
Base/KC	3297'	(-1437)
Base/KC	3297'	(-1437)
Arbuckle	3370'	(-1510)

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#	434'	Common	200	3% C.C., 2% Gel
Production	7-7/8"	5-1/2"	14#	3428'	Common	150	10% salt

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 checked="" type="checkbox"/> Plug Off Zone	3114-17'	Common	50	

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
4 SPF	3048-52' (Lansing "C")	500 gals. 15% NE acid	
4 SPF	3102-05' (Lansing "F") - set CIBP @ 3090'	500 gals. 15% NE acid	
4 SPF	3114-17' (Lansing "G") - squeezed w/50 sks. cement	500 gals. 15% NE acid	

TUBING RECORD		Size	Set At	Packer At	Liner Run
		2-7/8"	3403'		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumerd Production, SWD or Enhr. November 21, 2008			Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)		
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	2.50		18.00		35.1°

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 3048-52' (Lansing "C")

QUALITY OILWELL CEMENTING, INC.

Fer

Phone 785-483-2025

Home Office P.O. Box 32 Russell, KS 67665

COPY No. 2198

Cell 785-324-1041

Date	7-10-08	Sec.	31	Twp.	13	Range	10	Called Out		On Location		Job Start		Finish	11:00 PM
Lease	Small	Well No.	41			Location	Bunker Hill K1			County	Russell	State	KS		
Contractor	DISCOVER					Delay	FZ		Owner	1/4 N E 1/4					
Type Job	Surface					To Quality Oilwell Cementing, 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	12 1/4		T.D.	436											
Csg.	5 3/8 23"		Depth	434											
Tbg. Size			Depth												
Drill Pipe			Depth												
Tool			Depth												
Cement Left in Csg.	15		Shoe Joint												
Press Max.	200		Minimum												
Meas Line			Displace	26.3											
Perf.	CEMENT														
EQUIPMENT								Amount Ordered	200 SX Common						
Pumptrk	No.	Cementer	Helper	Drew				Consisting of	2 1/2 GEL 3 1/2 CC						
Bulktrk	No.	Driver	Steve		Mick		Common	200							
Bulktrk	No.	Driver	Drew				Poz. Mix								
JOB SERVICES & REMARKS								Gel.	4 d						
Pumptrk Charge								Chloride	6 d						
Mileage								Hulls							
Footage								Salt							
Total								Flowseal							
Remarks:	K1 10 1/2 23 1/4 23" csg out 4 3/4														
								Sales Tax							
MAX = P.O. 200 SX Common 2 1/2 GEL 3 1/2 CC 15" GEL 150 lbs								Handling	210						
								Mileage	509 PER SX PER MILE						
								Sub Total							
								Total							
NOT DISCOVER LEASE 2 1/2 PLUGS								Floating Equipment & Plugs	1 3/4 DISCOVER						
Plug down (disc valve) csg disc valve TO PIT PLUGS								Squeeze Manifold	RECEIVED						
								Rotating Head	KANSAS CORPORATION COMMISSION						
								JAN 06 2009							
								CONFIDENTIAL WICHITA, KS							
								JAN 05 2009							
Signature								Tax							
								Discount							
								Total Charge							

ALLIED CEMENTING CO. LLC. 34600

COPY

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
Russell

DATE <u>9-16-08</u>	SEC. <u>31</u>	TWP. <u>13 S</u>	RANGE <u>12 W</u>	CALLED OUT	ON LOCATION	JOB START <u>7:00 PM</u>	JOB FINISH <u>5:00 PM</u>
LEASE <u>SMALL</u>	WELL # <u>1</u>	LOCATION <u>BUNKER HILL 1/2 N E INTO</u>			COUNTY <u>Russell</u>	STATE <u>Kansas</u>	
OLD OR NEW (Circle one)							

CONTRACTOR Discovery Drilling Rig #2

TYPE OF JOB Cement Production String

HOLE SIZE 7 7/8 T.D. 3429

CASING SIZE 5 1/2 New DEPTH 3428

TUBING SIZE 1 1/4 # DEPTH

DRILL PIPE 858 Surface DEPTH 434'

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT 19

CEMENT LEFT IN CSG. 19

PERFS.

DISPLACEMENT 83 1/4 BBL

OWNER used 150 sks,

CEMENT AMOUNT ORDERED 200 sk Com 10% Sol 500 Gal WFR-2 mud fluid

2 GAL KCL

COMMON _____ @ _____

POZMIX _____ @ _____

GEL _____ @ _____

CHLORIDE _____ @ _____

ASC _____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

HANDLING _____ @ _____

MILEAGE _____ @ _____

EQUIPMENT

PUMP TRUCK CEMENTER Glen

398 HELPER Bob

BULK TRUCK

378 DRIVER Neale

BULK TRUCK

DRIVER

REMARKS:

R2N

LAND LATCH DOWN Plug @ 1500# (Held)

30 SK @ Pot hole

20 SK @ Mouse hole

THANK'S

SERVICE

DEPTH OF JOB _____

PUMP TRUCK CHARGE _____

EXTRA FOOTAGE _____ @ _____

MILEAGE _____ @ _____

MANIFOLD _____ @ _____

Rotating Head @ _____

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TOTAL WICHITA, KS

CHARGE TO: JOHN O. FARMER, Inc.

STREET _____

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

Float Shoe _____

LATCH DOWN Plug ASSY @ _____

7-CENTRALIZERS @ _____

2-BASKETS @ _____

(100') 20 ROTATING SCRATCHERS @ _____

TOTAL _____

To Allied Cementing Co., LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME _____

SIGNATURE John O. Farmer

SALES TAX (If Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS

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QUALITY OILWELL CEMENTING, INC.

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. _____

Date	Sec.	Twp.	Range	Called Out	On Location	Job Start	Finish
Lease	Well No.		Location		County	State	

Contractor	Owner
Type Job	To Quality Oilwell Cementing, 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	T.D.
Csg.	Depth
Tbg. Size	Depth
Drill Pipe	Depth
Tool	Depth
Cement Left in Csg.	Shoe Joint
Press Max.	Minimum
Meas Line	Displace
Perf.	

EQUIPMENT			Amount Ordered
Pumptrk	No.	Cementer	Consisting of
		Helper	
Bulktrk	No.	Driver	Common
		Driver	
Bulktrk	No.	Driver	Poz. Mix
		Driver	

JOB SERVICES & REMARKS			Gel.
Pumptrk Charge		1025 ⁰⁰	Chloride
Mileage		63.00	Hulls
Footage			Salt
	Total	1088.00	Flowsal

Remarks:	Flowsal	24.00
	Sales Tax	214.20
	Shipping	102.00
	Mileage	300.00
	Sub Total	1058.00
	Total	

Quality Oilwell

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X Signature _____

Tax _____
Discount _____
Total Charge _____

Small # 1

Completion report

8-26-08 Rig up Mercury Wireline portable mast, run Dual Receiver, Cement Bond Log. Found TD at 3408', top of cement at 2355'.

10-10-08 Move in and rig up J & M Well Service double drum unit. Swab down to 2700', let set 30 minutes, no fluid entry. Shut down. MAI Excavating unloaded 108 jts 2 7/8" new LS tubing from Midwestern Pipe.

10-20-08 Rig up Mercury Wireline, perforate Lansing G Zone 3114-17' (3') (4 SPF) with expendable charges. Run 2 7/8" tubing with Reinhardt's Services plug and packer. Set plug at 3208', packer at 3079'. Swab down. Let set 30 minutes, dry. Lower packer to 3122', hookup Allied Acidizing pump truck, spot 500 gallons 15% NE acid on perforations, pull 19 jts tubing, load hole with KCL water. Total load pumped 62 bbls, total volume 69 bbls. Shut in. Shut down.

10-21-08 Fluid 575' from surface. Lower packer to 3079', swab water from well bore. Recovered 62 bbls water. Set packer, swab down. 1 hour swabbed 2.5 bbls water. Hookup Quality Oilwell Cementing, pressure plug and packer to 2000#, held. Spot 2 sxs sand on plug. Raise packer to 2984', take injection rate, 1.5 BPM at 1300#. Squeeze Lansing G 3114-17' perforations with 50 sxs common cement. Squeezed to 1500#, circulate clean, pull 5 jts, pressure to 500#. Shut in. Rig down move off.

10-27-08 move in and rig up J & M Well Service double drum unit. Pull tubing and packer. Rerun tubing with 4 7/8" rock bit. Drill cement from 2985-3117'. Circulate clean, hookup Shanes Tank Service, high pressure pump and pressure casing to 500#, held. Run bit to top of sand, circulate sand from plug. Circulate hole with clean saltwater. Shut down.

12-28-08 Swab down to 2600', pull tubing and bit. Rerun tubing to retrieve plug, pull plug. Rig up Mercury Wireline, perforate Lansing F Zone 3102-05' (3') (4 SPF) with expendable charges. Shut down.

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1-29-08 While pulling tubing, found 30 bad jts, throw out, replace with used tubing from Russell yard. Run tubing with Reinhardt's Services plug and packer. Set plug at 3109', packer at 3090'. Swab down, let set 30 minutes, dry. Waited 1 hour for acid truck, run swab, no fluid entry. Hookup Allied Acidizing pump truck, spot 500 gallons 15% NE acid over perforations, pull 19 jts tubing, fill casing and tubing to 1600' from surface. Tag fluid, wait 30 minutes, tag fluid, 1600'. Finish filling hole to surface with saltwater. Total load pumped 62 bbls. Volume 69 bbls. Shut in. Shut down.

10-30-08 Fluid 700' from surface, lower packer to 3090', swab down, recovered 56.7 bbls fluid. Swab test:

Time	Fluid	Oil	Total swabbed
1st hour	10 bbls	20%	66.7 bbls
2nd hour	6.68 bbls	20%	73.4 bbls
3rd hour	6.68 bbls	21%	80.14 bbls
4th hour	5.01 bbls	20%	85.15 bbls
5th hour	6.68 bbls	20%	91.83 bbls
6th hour	5.01 bbls	25%	96.84 bbls
7th hour	1.15 bbls	75%	97.99 bbls

Shut in. shut down.

10-31-08 ONFU 1400' fluid with a trace of oil. Pull tubing, packer and plug. Rig up Mercury Wireline, set CIBP at 3090'. Perforate Lansing C Zone 3048-52' (4') (4 SPF) with expendable charges. Run tubing with packer, set packer at 3027'. Swab down, let set 30 minutes, dry. Shut in. Shut down.

11-3-08 OWFU 200' fluid with trace of oil. While waiting on acid, run swab after 1 hour, no fluid entry. Hookup Allied Acidizing Pump truck, spot 500 gallons 15% NE acid over Lansing C perforations, pull 19 jts tubing, load hole with saltwater. Total load pumped 52.7 bbls, total volume 67.8 bbls. Shut in. Shut down.

11-4-08 Fluid 650' from surface, Lower packer to 3058' swab down to 400', pull 1 jt tubing, set packer. Swabbed 66.68 bbls fluid on swab down. Swab test:

Time	Fluid	Oil	Total swabbed
------	-------	-----	---------------

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1st hour	13.36 bbls	32%	80.04 bbls
2nd hour	11.69 bbls	35%	91.73 bbls
3rd hour	6.68 bbls	48%	98.73 bbls
4th hour	5.01 bbls	65%	103.45 bbls

Pull tubing and packer. Shut down.

11-5-08 Run tubing:

15.00' 2 7/8" Perforated mud anchor
 1.10' 2 7/8" Seating nipple
 3043.59' 95 jts 2 7/8" 8rd EUE tubing (78 jts new LS, 17 jts used)
 16.00' 2 7/8" x 4', 4', 8' Tubing subs

Tubing is landed 5' off bottom.

Run pump and rods:

2 1/2" x 1 1/2" x 12' RWTC DV Insert pump with 6' gas anchor
 7/8" x 2' Pony rod with spiral guide
 80 3/4" Sucker rods (Yellow # 2 TRC Inspected rods)
 41 7/8" Sucker rods (New Norris 78)
 7/8" x 4', 8' Pony rods
 1 1/4" x 16' Polished rod with 6' liner

Longstroke, good blow, rig down and move off.


 Val Dreher Production foreman

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