

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- 051-25,248-00-00
County Ellis
130' North & 10' West of E
- C - NW - SW Sec. 5 Twp. 13S Rge. 17 X W

Operator: License # 5135
Name: John O. Farmer, Inc.
Address P.O. Box 352
City/State/Zip Russell, KS 67665

Purchaser: NCRA

Operator Contact Person: John O. Farmer IV
Phone (785) 483-3144

Contractor: Name: Discovery Drilling Co., Inc.
License: 31548
Wellsite Geologist: Matt Dreiling

Designate Type of Completion
X New Well Re-Entry Workover
X 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.

8-26-03 9-1-03 9-15-03
Spud Date Date Reached TD Completion Date

2110 Feet from S (circle one) Line of Section
650 Feet from E (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
NE, SE NW or SW (circle one)

Lease Name Brungardt Well # 5
Field Name Reed
Producing Formation Arbuckle

Elevation: Ground 2046' KB 2054'
Total Depth 3684' PBTD 3668'

Amount of Surface Pipe Set and Cemented at 222 Feet

Multiple Stage Cementing Collar Used? X Yes No
If yes, show depth set 1297 Feet

If Alternate II completion, cement circulated from 1297
feet depth to surface w/ 270 sx cmt.

Drilling Fluid Management Plan ALT II W/ 2-14-07
(Data must be collected from the Reserve Pit)

Chloride content 17,000 ppm Fluid volume 320 bbls
Dewatering method used allow to dry by evaporation

Location of fluid disposal if hauled offsite:

Operator Name NA

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, 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 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 John O. Farmer III

John O. Farmer III

Title President Date 9-29-03

Subscribed and sworn to before me this 29th day of September, 20 03.

Notary Public Margaret A. Schulte
Margaret A. Schulte

Date Commission Expires



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

Form ACO-1 (7-91)

ORIGINAL

SIDE TWO

Operator Name John O. Farmer, Inc.Lease Name BrungardtWell # 5☐ EastCounty EllisSec. 5 Twp. 13S Rge. 17☒ 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.)☒ Yes ☐ No

Samples Sent to Geological Survey

☒ Yes ☐ No

Cores Taken

☐ Yes ☒ No

Electric Log Run

☒ Yes ☐ No

(Submit Copy.)

List All E.Logs Run:

Dual Compensated Porosity Log

Dual Induction Log

Cement Bond Log

Microresistivity Log

<input checked="" type="checkbox"/> Log Name	Formation (Top), Depth and Datums	<input type="checkbox"/> Sample Datum
Anhydrite	1296'	(+758)
Topeka	3064'	(-1010)
Heebner	3299'	(-1245)
Toronto	3319'	(-1265)
Lansing/KC	3345'	(-1291)
Stark	3534'	(-1480)
Base/KC	3574'	(-1520)
Arbuckle	3598'	(-1544)
L.T.D.	3687'	(-1633)

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"	23#	222'	Common	150	3% CC, 2% gel
Production	7-7/8"	5-1/2"	14#	3683'	ASC	150	2% gel, 500 gals. WFR-2, 3/4% CFR-2
Port Collar				1297'	Common	100	

ADDITIONAL CEMENTING/SQUEEZE RECORD 60/40 Pozmix 170 6% gel, 1/4# floreal

Purpose:	Depth	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate	Top Bottom			
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Shots Per Foot 4 SPF	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
	3600-3623' (overall)		250 gals. 15% NE & 400 gals. 15% MA		
TUBING RECORD					
Size 2-7/8"	Set At 3664'	Packer At	Liner Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Date of First, Resumed Production, SWD or Inj. September 17, 2003		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 66.59 Bbls.	Gas Mcf	Water 25.89 Bbls.	Gas-Oil Ratio	Gravity 31.0°

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

3600-3623'
(overall)



**Discovery
Drilling**

P.O. Box 763 • Hays, KS 67601 • OFFICE (785) 623-2920 • CELLULAR (785) 635-1511

CONFIDENTIAL

RECEIVED ORIGINAL

SEP 30 2003

KCC WICHITA

DRILLER'S LOG

Operator: **John O. Farmer, Inc.**
PO Box 352
Russell, KS 67665

Contractor: **Discovery Drilling Co., Inc.**
PO Box 763
Hays, KS 67601

Lease: Brungardt #5

KCC
SEP 29 2003

Location: 130' N & 10' W of C/NW/SW
Sec. 5/13S/17W
Ellis Co., KS

CONFIDENTIAL

Loggers Total Depth: 3687'

Rotary Total Depth: 3684'

Commenced: 8/26/2003

Elevation: 2046' GL / 2054' KB

Completed: 9/2/2003

Casing: 8 5/8" @ 222.27' w/150sks

Status: Oil Well

5 1/2" @ 3685' w/150sks

Port Collar @ ~~1204~~ 1297'

DEPTHS & FORMATIONS

(All from KB)

Surface, Sand & Shale	0'	Shale	1331'
Dakota Sand	518'	Shale & Lime	2084'
Shale	620'	Shale	2399'
Cedar Hill Sand	751'	Shale & Lime	2754'
Red Bed Shale	945'	Lime & Shale	3098'
Anhydrite	1295'	RTD	3684'
Base Anhydrite	1331'		

STATE OF KANSAS)
) ss
COUNTY OF ELLIS)

Thomas H. Alm of Discovery Drilling states that to the best of his knowledge the above and foregoing is a true and correct log of the above captioned well.

Thomas H. Alm
Thomas H. Alm

Subscribed and sworn to before me on

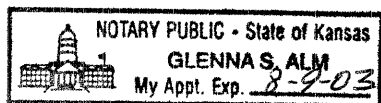
9-6-03

My Commission expires:

8-9-03

(Place stamp or seal below)

Glenna S. Alm
Notary Public



ALLIED CEMENTING CO., INC. 14969

CONFIDENTIAL

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

SERVICE POINT: Russell

ORIGINAL

DATE <u>8/24/03</u>	SEC <u>S</u>	TWP <u>13</u>	RANGE <u>17</u>	CALLED OUT <u>6:00 PM</u>	ON LOCATION <u>7:00 PM</u>	JOB STARTED <u>8:00 PM</u>	JOB FINISHED <u>8:45 PM</u>
LEASE <u>Brundage</u>		WELL # <u>5</u>	LOCATION <u>Catharine 1W 13N</u>			COUNTY <u>Ellis</u>	STATE <u>KN</u>
OLD OR NEW (Circle one) <u>NEW</u>							

CONTRACTOR Discovery Rig #2
 TYPE OF JOB Surface
 HOLE SIZE 12 1/4 T.D. 223
 CASING SIZE 8 1/2 DEPTH 222
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT
 CEMENT LEFT IN CSG. 15
 PERFS.
 DISPLACEMENT 13.18 bbls

EQUIPMENT
 PUMP TRUCK CEMENTER Bill
 # 345 HELPER Dave
 BULK TRUCK
 # 222 DRIVER Scott
 BULK TRUCK
 # DRIVER

OWNER
 CEMENT
 AMOUNT ORDERED
150 lbs Com 3-2
 COMMON 150 @ 7.15 1072.50
 POZMIX @
 GEL 3 @ 10.00 30.00
 CHLORIDE 5 @ 30.00 150.00
 @
 @
 @
 @
 @
 @
 HANDLING 150 @ 1.15 172.50
 MILEAGE 54.64 / Mile 150.00
 TOTAL 1575.00

REMARKS:

SERVICE

Ran 5 ft of 8 1/2 inch c222
Cement w/ 150 lbs 3-2
pump plug w/ 13.18 bbls of water
Cement did cure

DEPTH OF JOB
 PUMP TRUCK CHARGE 520.00
 EXTRA FOOTAGE @
 MILEAGE 89.64 @ 7.00 627.48
 PLUG 20 @ 3.50 70.00
 @
 @
 TOTAL 635.00

CHARGE TO: John O. Farmer Inc.
 STREET
 CITY STATE ZIP

FLOAT EQUIPMENT

@
 @
 @
 @
 @
 TOTAL

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 is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

SIGNATURE Thomas ALM

TAX
 TOTAL CHARGE
 DISCOUNT IF PAID IN 30 DAYS
Thomas ALM
 PRINTED NAME

RECEIVED

SEP 3 0 2 3

KCC WICHITA

KCC

SEP 29 2003

CONFIDENTIAL

ALLIED CEMENTING CO., INC.

14246

Federal Tax I.D. #

REMIT TO P.O. BOX 3
RUSSELL, KANSAS 67665

SERVICE POINT:

ORIGINAL

DATE <u>9-2-03</u>	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION <u>11:30am</u>	JOB START <u>3:00pm</u>	JOB FINISH <u>4:00pm</u>
LEASE <u>RENEWAL</u> WELL # <u>5</u>			LOCATION <u>CATHERINE 1W 1N</u>		COUNTY <u>ELLIS</u>	STATE <u>KS</u>	
<input checked="" type="radio"/> OLD <input type="radio"/> NEW (Circle one)							

CONTRACTOR DISCOVERY

TYPE OF JOB PROP STRING

HOLE SIZE 7 7/8 T.D. 3684

CASING SIZE 5 1/2 DEPTH 3683 14"

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT 15' 90

CEMENT LEFT IN CSG. 15' 90

PERFS.

DISPLACEMENT 89 1/2 BBL

EQUIPMENT

OWNER

CEMENT

AMOUNT ORDERED 175 ASC 290 GEL

340 of 170 GEL 500 GAL WFR-2

COMMON 175 ASC @ 9.00 1575.00

POZMIX @

GEL 3 @ 10.00 30.00

CHLORIDE @

CD-31 123# @ 5.50 676.50

WFR-2 500 gals @ 1.00 500.00

HANDLING 175 @ 1.15 201.25

MILEAGE 54/SY /mile 175.00

TOTAL 3157.75

PUMP TRUCK CEMENTER MARK

345 HELPER DAVE

BULK TRUCK

282 DRIVER SLON

BULK TRUCK

DRIVER

REMARKS:

QSTS 14"

15 SL C.R.H.

10 SL C.M.H.

FLOAT FIELD

THANKS

SERVICE

DEPTH OF JOB

PUMP TRUCK CHARGE 1130.00

EXTRA FOOTAGE @

MILEAGE 20 @ 3.50 70.00

PLUG 5 1/2 TRP @ 50.00

TOTAL 1250.00

CHARGE TO: J.D. FARMER

STREET

CITY STATE ZIP

FLOAT EQUIPMENT

5 1/2

GUIDE SHOE @ 150.00

INSERT @ 235.00

8 CENT @ 40.00 320.00

3-BASKETS @ 128.00 384.00

PORT COLLAR @ 150.00

30- ROTARY SCRATCHER 150.00 1350.00

TOTAL 3939.00

To Allied Cementing Co., Inc.

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TAX

TOTAL CHARGE

DISCOUNT IF PAID IN 30 DAYS

SIGNATURE Thomas Al

Thomas Al

PRINTED NAME

KCC

SEP 29 2003

CONFIDENTIAL

RECEIVED

SEP 30 2003

KCC WICHITA

ALLIED CEMENTING CO., INC.

15793

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

Federal Tax I.D. #

SERVICE POINT

CONFIDENTIAL

ORIGINAL

DATE <u>9/5/03</u>	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION <u>8:00 A.M.</u>	JOB START	JOB FINISH <u>2:45 P.M.</u>
LEASE <u>Brungart</u>	WELL # <u>5</u>	LOCATION <u>Townson 11 to Curve</u>			COUNTY <u>Ellis</u>	STATE <u>Ks</u>	
OLD OR NEW (Circle one)		<u>1 1/2 N</u>					

CONTRACTOR Express

TYPE OF JOB Squeeze/Port Collar

HOLE SIZE _____ T.D. _____

CASING SIZE 5 1/2 DEPTH _____

TUBING SIZE 2 1/2 DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL Port Collar DEPTH 1297

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS. K.C. 3525

DISPLACEMENT _____

OWNER _____

CEMENT

AMOUNT ORDERED 150 Com (used 1000)

300 60/40 10% Gel

1/4 # F/W (used 1000)

COMMON	<u>202</u>	@	<u>7.45</u>	<u>1444.30</u>
POZMIX	<u>68</u>	@	<u>3.80</u>	<u>258.40</u>
GEL	<u>9</u>	@	<u>10.00</u>	<u>90.00</u>
CHLORIDE		@		
<u>Floren</u>	<u>43#</u>	@	<u>1.40</u>	<u>60.20</u>
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>450</u>	@	<u>1.15</u>	<u>517.50</u>
MILEAGE	<u>54/SK/MILE</u>			<u>450.00</u>
TOTAL				<u>2820.40</u>

EQUIPMENT

PUMP TRUCK	CEMENTER	<u>Paul</u>
# <u>3606</u>	HELPER	<u>Shane</u>
BULK TRUCK		
# <u>282</u>	DRIVER	<u>Scott</u>
BULK TRUCK		
# <u>378</u>	DRIVER	<u>Don</u>

REMARKS:

Pkr set @ 3411'. Tool rate
of 273AM @ 400psi. Mixed 100sx.
Displaced 21 Bbl. Set for 2 hrs.
Test to 500psi. Held. Came out w/
1 bag. Ran in w/ opening took P.C. @
1272. Opened bot. Broke circ.
mixed 170sx. Displaced 6 1/2 Bbl
Reversed out. Cement did circ.

SERVICE

DEPTH OF JOB		
PUMP TRUCK CHARGE		<u>630.00</u>
EXTRA FOOTAGE	@	
MILEAGE	<u>26</u>	@ <u>3.50</u> <u>76.00</u>
PLUG	@	
	@	
	@	
TOTAL		<u>760.00</u>

CHARGE TO: J.O. Farmer

STREET _____

CITY _____ STATE _____ ZIP _____

FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	
TOTAL		

To Allied Cementing Co., Inc.

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TAX _____

TOTAL CHARGE _____

DISCOUNT _____ IF PAID IN 30 DAYS

SIGNATURE Ann Weasley

PRINTED NAME

KCC
SEP 29 2003
CONFIDENTIAL
RECEIVED
SEP 30 2003
KCC WICHITA