

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

Operator: License # 31560

Name: Maxwell Operating Co., Inc.

Address P.O. Box 1213

City/State/Zip Hays, Kansas 67601

Purchaser: Farmland Industries

Operator Contact Person: Brian Karlin

Phone (913) 628-6783

Contractor: Name: Discovery Drilling, Inc.

License: 31548

Wellsite Geologist: Ron Nelson

Designate Type of Completion

New Well  Re-Entry  Workover

Oil  SWD  SION  Temp. Abd.  
 Gas  ENHR  SIGW  
 Dry  Other (Core, MSW, 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  PBDT  
 Commingled  Docket No. \_\_\_\_\_  
 Dual Completion  Docket No. \_\_\_\_\_  
 Other (SWD or Inj?)  Docket No. \_\_\_\_\_

4/17/97 4/24/97 4/24/97  
Spud Date Date Reached TD Completion Date

API NO. 15- 009-24629 0000

County Barton

100' W SE - NW - SE Sec. 4 Twp. 16s Rge. 12w W

1650 Feet from (S)N (circle one) Line of Section

1750 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 Miller Well # 2

Field Name Beaver

Producing Formation Lansing KC

Elevation: Ground 1867 KB 1875

Total Depth 3350 PBDT \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at 411.07 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/ \_\_\_\_\_ ex cmt

Drilling Fluid Management Plan ALT 1 JH 2-25-98  
(Data must be collected from the Reserve Pit)

Chloride content 17,000 ppm Fluid volume 2500 bbl

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 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 Brian Karlin

Title Production Manager Date 12-29-97

Subscribed and sworn to before me this 29<sup>th</sup> day of December, 19 97.

Notary Public Rischel Betts

Date Commission Expires 4-13-99

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  
STATE CORPORATION COMMISSION

 **RISCHEL BETTS**  
Notary Public - State of Kansas  
My Appt. Expires 4-13-99

Operator Name Maxwell Operating Co., Inc.

Lease Name Mill Miller Well # 2

Sec. 4 Twp. 16S Rge. 12W  
 East  
 West

County: Barton

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:  
 ELI Wireline Services: RA Guard Log  
 LK Wireline: GR Neutron Bond Log

Name	Top	Datum
Heebner Sh.	2944-1069	
Toronto Lm.	2963-1088	
Douglas Sand	2991-1116	
Brown Lm.	3034-1159	
Lans./K.C.	3044-1169	
Base K.C.	3290-1415	
RTD	3322-1447	

CASING RECORD <input type="checkbox"/> New <input checked="" 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 Pipe	12 1/4	8 5/8	23	411.07	60/40Poz	225	2%Gel&3%CC
Production St.	7 7/8	5 1/2	14	3346.55	ASC	175	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 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
4	3310-13		200--15% mud	
2	3217-21		750--15% NE (Communicated)	
2	3183-85			
2	3120-23		500--15% NE	
2	3077-80		500--15% NE	
2	2994-3000		500--15% INS	
2	2965-68		250--15% NE	
2	2889-91, 2911-15		500--15% NE	

TUBING RECORD Size 2-7/8 Set At 3300 Packer At \_\_\_\_\_ Liner Run  Yes  No

Date of First, Resumed Production, SWD or Inj. 05-25-97 Producing Method  Flowing  Pumping  Gas Lift  Other (Explain)

Estimated Production Per 24 Hours Oil 10 Bbls. Gas 425 Mcf Water 425 BWPD Gas-Oil Ratio \_\_\_\_\_ Gravity 35

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 2889-3313'

# ORIGINAL

MAXWELL OPERATING CO., INC.  
P.O. BOX 1213  
HAYS, KANSAS 67601

15-009-24629

Miller #2  
100' West of SE-NW-SE  
04-16S-12W Barton County, Kansas

DST #1: 2887-2920'  
30-30-30-30  
IFP: 17-38#, FFP: 40-51#  
SIP: 699-667#, IHH: 1390#, FHH: 1370#, BHT: 97  
Rec: 15' slightly oil cut mud  
(5% oil, 95% mud),  
60' muddy water  
(60% water, 40% mud).

DST #2: 2974-3010'  
45-45-45-45  
IFP: 23-46#, FFP: 49-63#  
SIP: 745-689#, IHH: 1462#, FHH: 1432#, BHT: 101  
Rec: 30' gas in pipe  
30' slightly oil and water cut mud  
(5% oil, 10% water, 85% mud)  
60' muddy water  
(60% water, 40% mud).

DST #3: 3063-3143'  
45-45-45-45  
IFP: 25-32#, FFP: 33-38#  
SIP: 134-235#, IHH: 1540#, FHH: 1524#, BHT: 100  
Rec: 30' gas in pipe  
40' oil specked mud  
(3% oil, 97% mud).

DST #4: 3288-3322'  
30-45-30-45  
IFP: 420-814#, FFP: 859-990#  
SIP: 1024-1043#, IHH: 1667#, FHH: 1631#, BHT: 115  
Rec: 2300' salt water with oil specks on top

RECEIVED  
STATE CONSERVATION COMMISSION

JAN 12 1998

CONSERVATION DIVISION



**Discovery  
Drilling**

ORIGINAL

P.O. Box 763 • Hays, KS 67601 • OFFICE (913) 623-2920 • CELLULAR (913) 635-1511

15-009-24629

**DRILLER'S LOG**

Operator: **MAXWELL OPERATING CO., INC.**  
P.O. Box 1213  
HAYS, KS 67601

Contractor: **DISCOVERY DRILLING, INC.**  
P.O. Box 763  
Hays, KS 67601

Lease: Miller #2

Location: 100' Wof SE/NW/SE  
Sec. 4/16S/12W  
Barton Co., KS

Loggers Total Depth: 3319' @ 3322 'RTD  
Rotary Total Depth: 3350'  
Commenced: 04/17/97  
Casing: 8 5/8" @ 411.07' w/225sks  
5 1/2" @ 3346..w/175sks

Elevation: 1867 Gr/1875 KB  
Completed: 04/24/97  
Status: Oil well

**DEPTHS & FORMATIONS**

(All measurements from K.B.)

Surface, Sand & Shale	0'	Shales	818'
Dakota Sand	232'	Shales & Lime	1391'
Shales	306'	Shales	1714'
Cedar Hill Sand	382'	Shales & Lime	2074'
Red Bed Shale	681'	Lime & Shales	2912'
Anhydrite	795'	RTD	3350'
Base Anhydrite	818'		

STATE OF KANSAS )  
                              ) ss  
COUNTY OF ELLIS )

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

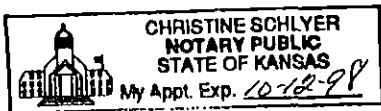
Thomas H. Alm

Subscribed and sworn to before me on 4-29-97

My Commission Expires: 10-12-98

(Place stamp or seal above.)

STATE OF KANSAS  
Notary Public



JAN 12 1998

CO. OF DISCOVERY

# ALLIED CEMENTING CO., INC.

8359

Federal Tax I.D.# 48-0727860

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

SERVICE POINT: K

ORIGINAL

DATE <u>4-24-97</u>	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <u>Miller</u>	WELL # <u>2</u>	LOCATION <u>Brown 3N 7/4E 1/2 NE 1/4</u>			COUNTY <u>Butler</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)							

CONTRACTOR <u>Discovering Drilling</u>	OWNER
TYPE OF JOB <u>Production String</u>	CEMENT
HOLE SIZE <u>7 7/8</u> T.D. <u>3350</u>	AMOUNT ORDERED <u>175 ASC 10% salt</u>
CASING SIZE <u>5 1/2</u> DEPTH <u>3346</u>	<u>500 gal WFR-2</u>
TUBING SIZE DEPTH	
DRILL PIPE DEPTH	
TOOL DEPTH	
PRES. MAX MINIMUM	COMMON @
MEAS. LINE SHOE JOINT <u>20 9/16</u>	POZMIX @
CEMENT LEFT IN CSG.	GEL @
PERFS.	CHLORIDE @
DISPLACEMENT <u>81 1/4 gal</u>	@
EQUIPMENT	@
PUMP TRUCK CEMENTER <u>Mike</u>	@
# <u>153</u> HELPER <u>Paul</u>	@
BULK TRUCK	HANDLING @
# <u>282</u> DRIVER <u>Matt</u>	MILEAGE @
BULK TRUCK	
# DRIVER	TOTAL

REMARKS:

SERVICE

DEPTH OF JOB	
PUMP TRUCK CHARGE	
EXTRA FOOTAGE	@
MILEAGE	@
PLUG <u>5 1/2 Rubber</u>	@
	@
	@

TOTAL

CHARGE TO: Myshell Operating  
STREET \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

RECEIVED  
STATE OF KANSAS COMMISSION  
FLOAT EQUIPMENT

5 1/2  
Guile Shoe JAN 2 1998  
4 Centralizers  
@  
@  
@  
@

To Allied Cementing Co., Inc.  
You are hereby requested to rent cementing equipment  
and furnish cementer and helper to assist owner or

TOTAL

# ALLIED CEMENTING CO., INC. 8351

Federal Tax I.D.# 48-0727860

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

ORIGINAL

SERVICE POINT: R

DATE <u>4-18-97</u>	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION <u>9:45 am</u>	JOB START <u>11:00 am</u>	JOB FINISH <u>11:15 am</u>
LEASEE <u>Miller</u>	WELL # <u>2</u>	LOCATION <u>Beaver 3N 34E 1/2N</u>			COUNTY <u>Buton</u>	STATE <u>Mo</u>	
OLD OR <input checked="" type="radio"/> NEW (Circle one)							

CONTRACTOR Discovery Drilling #1

OWNER

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 413

CASING SIZE 8 3/8 DEPTH 411 2316

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS.

DISPLACEMENT 25 1/4 Hbl

EQUIPMENT

PUMP TRUCK CEMENTER Mark

# 153 HELPER Paul

BULK TRUCK

# 110D DRIVER Darin

BULK TRUCK

# DRIVER

CEMENT AMOUNT ORDERED 225 60/40 30/0cc 2% gel

COMMON @

POZMIX @

GEL @

CHLORIDE @

@

@

@

@

@

HANDLING @

MILEAGE

TOTAL

REMARKS:

SERVICE

Cement Circ.

DEPTH OF JOB

PUMP TRUCK CHARGE

EXTRA FOOTAGE @

MILEAGE @

PLUG @

@

@

TOTAL

CHARGE TO: Wywell Operating Co

STREET

CITY STATE ZIP

FLOAT EQUIPMENT

STATE REGISTRATION

JAN 12 1998

@

@

To Allied Cementing Co., Inc.

You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or

TOTAL