

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

COPY

Operator: License # 3074

Name: Robert S. Harwell, Inc.

Address 2801 nW Expressway #132

City/State/Zip Oklahoma City, OK 73112

Purchaser: Crude Marketing

Operator Contact Person: Robert S. Harwell

Phone (405) 842-4088

Contractor: Name: Central Plains

License: 3550

Wellsite Geologist: none

Designate Type of Completion

New Well  Re-Entry  Workover

Oil  SWD  SIOW  Temp. Abd.  
 Gas  EMHR  SIGW  
 Dry  Other (Core, WSW, Expl., Cathodic, etc.)  
injection well

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  PSTD  
 Commingled  Docket No. \_\_\_\_\_  
 Dual Completion  Docket No. \_\_\_\_\_  
 Other (SWD or Inj?)  Docket No. \_\_\_\_\_

10-12-92 10-14-92 10-14-92  
Spud Date Date Reached TD Completion Date

API NO. 15- 091-22,513

County Johnson

NE- NE- SW SE Sec. 19 Twp. 14 Rge. 22  E  W

880 917 Feet from  N (circle one) Line of Section

1760 167 Feet from  W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:  
NE, SE, NW or SW (circle one)

Lease Name North Gordon Well # 4A

Field Name Longanecker

Producing Formation Bartlesville

Elevation: Ground 975 KB n/a

Total Depth 923 PSTD \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at 20 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 ALF 2 12-4-92 (012)  
(Data must be collected from the Reserve Pit)

Chloride content n/a ppm Fluid volume n/a bbls

Dewatering method used \_\_\_\_\_

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 Robert S. Harwell

Title Owner-Operator Date 10-22-92

Subscribed and sworn to before me this 22 day of October, 19 92.

Notary Public Jessica A. Longstreet

Date Commission Expires July 10, 1995

K.C.C. OFFICE USE ONLY  
F  Letter of Confidentiality Attached  
C  Wireline Log Received  
C  Geologist Report Received  
Distribution  
 ICC  SWD/Rep  NGPA  
 IGS  Plug  Other (Specify) FS

Operator Name Robert S. Harwell

Lease Name North Gordon

Well # 4A

Sec. 19 Twp. 14 Rge. 22

East  
 West

County Johnson

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests. Give 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:

Gamma Ray-Neutron

Log Formation (Top), Depth and Datum  Sample  
Name Top Datum  
Bottom of Kansas City Lime 406  
Bartlesville Sand 862-871  
TD 923

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	6 5/8	6 1/4		20 ft.	portland	7 sacks	
production	5 1/4	2 7/8		902	portland	105 sacks	

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				

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

Shots Per Foot	2	863-868	spot acid on perforations and acid breakdown with 250 gallons of 15%
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TUBING RECORD

Size

Set At

Packer At

Liner Run

Yes  No

none

Date of First, Resumed Production, SWD or Inj.

Producing Method

Flowing  Pumping  Gas Lift  Other (Explain)

WAITING ON KCC APPROVAL

Estimated Production Per 24 Hours Oil Bbls. Gas Mcf Water Bbls. Gas-Oil Ratio Gr

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

863-868



# DRILLER'S LOG

Date 10/12/92			API # 15-091-22,513		
Operator Robert Harwell			Contractor Central Plains Drilling License # 3550		
Address 2801 NW Expressway, #132 Okc 73112			Address 910 N. Poplar . Ottawa, Ks. 66067		
Lease North Gordon	Well # 4A	County Johnson	State Ks	Legal 19-14-22E	

Total	Formations	from	to	Total	Formations	from	to
45	Soil & clay	0	45	27	Lime	269	296
36	Lime w/shale breaks	45	81	36	Shale	296	332
9	Shale	81	90	57	Lime w/shale breaks	332	389
8	Lime	90	98	3	Shale	389	392
8	Shale	98	106	5	Lime	392	397
17	Lime	106	123	3	Shale	397	400
21	Shale	123	144	6	Lime	400	406
13	Lime	144	157	172	Shale	406	578
13	Shale	157	170	91	Lime (Oswego limes)	578	664
12	Lime	170	182	76	Shale	669	745
18	Shale	182	200	7	Sand	745	7
23	Lime	200	223	18	Shale	752	770
19	Shale	223	242	3	Lime	770	773
3	Lime	242	245	89	Shale	773	862
24	Shale	245	269	5	Sand Good sand, good bleeding	862	867

Total Footage Drilled 923'      Total Footage Cored no

Mud Used      Spud Date: 10/12/92 22' 6 1/2" 7sx Portland

Bits Used, Size and Type 5 1/2" to 420' 5 1/8" to TD      Run pipe & cement 10/14/92

Cased—from 0 to 902'      Size 2 7/8"

Details - Remarks

NOV 5 1992

Driller	Hrs.	Helper	Hrs.
Helper	Hrs.	Helper	Hrs.