

ORIGINAL

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

API No. 15-075-206990000

County Hamilton

C - SW - - - - Sec. 10 Twp. 22 Rge. 40 X W E

660 Feet from SYN (circle one) Line of Section

1980 Feet from EW (circle one) Line of Section

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

Lease Name Hill Well # _____

Field Name Bradshaw

Producing Formation Winfield

Elevation: Ground 3542 KB 3551

Total Depth 2777 PBDT _____

Amount of Surface Pipe Set and Cemented at 6 jts @ 252 Feet

Multiple Stage Cementing Collar Used? Yes X No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from 2776

feet depth to surface w/ 700 sx cmt.

Drilling Fluid Management Plan Aff. 2 12-22-99
(Data must be collected from the Reserve Pit) V.C.

Chloride content _____ ppm Fluid volume _____ 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. _____

Operator: License # 4894

Name: Horseshoe Operating, Inc.

Address 500 W. Texas, Suite 1190

City/State/Zip Midland, Tx 79701

Purchaser: Heritage Gas

Operator Contact Person: S. L. Burns

Phone (915) 683-1448

Contractor: Name: Murfin Drilling Co.

License: 30606

Wellsite Geologist: _____

Designate Type of Completion

X New Well _____ Re-Entry _____ Workover

Oil _____ SWD _____ SIOW _____ Temp. Abd.

X Gas _____ ENHR _____ SIGW

Dry _____ Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Reentry: 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. _____

10/09/99 _____ 10/12/99 _____ 10/27/99 _____

Spud Date _____ Date Reached TD _____ Completion Date _____

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.

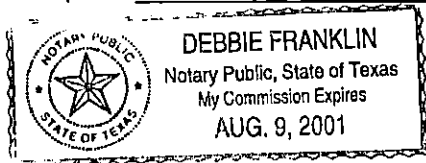
Signature S. Burns

Title Vice-President Date 11-23-99

Subscribed and sworn to before me this 23 day of November, 1999.

Notary Public Debbie Franklin

Date Commission Expires 8-9-2001



K.C.C. OFFICE USE ONLY
F No Letter of Confidentiality Attached
C X Wireline Log Received
C _____ Geologist Report Received
Distribution
X KCC _____ SWD/Rep _____ NGPA
_____ KGS _____ Plug _____ Other (Specify)

Operator Name Horseshoe Operating, Inc. Lease Name Hill Well # 1
 Sec. 10 Twp. 22S Rge. 40 East County Hamilton
 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.)
 List All E.Logs Run:
 Compensated Neutron Density Log
 Dual Spaced Cement Bond Log

Name	Top	Datum
Base Stone Corral	2286' (+1265')	
Top Winfield	2728' (+823')	
Top of Porosity	2736' (+815')	
Base Porosity	2750' (+801')	

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	12-1/4	8-5/8	24	252	c	180	3% cc 2% gel
Production	7-7/8	4-1/2	10.5	2776	c	700	10% salt 1/4# flose

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 Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
1	2736'-38'; 2740'-50'	1000 gals 7-1/2% HCL	
		8000# 20/40 sand	
		4000# ACFRAC 4000 25# gel	

TUBING RECORD	Size 2-3/8	Set At 2753	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
---------------	------------	-------------	-----------	---

Date of First, Resumed Production, SWD or Inj. Waiting on evaluation 11/20/99	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 340 Mcf	Water 110 Bbls.	Gas-Oil Ratio	Gravity
-----------------------------------	-----------	-------------	-----------------	---------------	---------

Disposition of Gas: STATE METHOD OF COMPLETION Production Interval
 Vented Sold Used on Lease (If vented, submit ACO-18.) Open Hole Perf. Dually Comp. Commingled
 Other (Specify)

ALLIED CEMENTING CO., INC.

1611

Federal Tax I.D.# 48-0727860

15-075-20699-0000

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

SERVICE POINT:

cailey

DATE <i>10-9-99</i>	SEC. <i>10</i>	TWP. <i>22S</i>	RANGE <i>40W</i>	CALLED OUT	ON LOCATION <i>1:45 PM</i>	JOB START <i>3:30 PM</i>	JOB FINISH <i>4:00 PM</i>
LEASE <i>Hill</i>	WELL# <i>1</i>	LOCATION <i>Syracuse 13N 4E 2S</i>		COUNTY <i>Hamilton</i>	STATE <i>KS</i>		
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR *Murfin Drlg Rig 24*

TYPE OF JOB *Surface*

HOLE SIZE *12 1/4* T.D. *252*

CASING SIZE *8 5/8* DEPTH *252*

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. *15'*

PERFS.

DISPLACEMENT *15 Bbls*

OWNER *same*

CEMENT

AMOUNT ORDERED *180 sks 60/40 Poz*
32H CG 27H Gel

COMMON	<i>108 sks</i>	@ <i>7.55</i>	<i>815.40</i>
POZMIX	<i>72 sks</i>	@ <i>3.25</i>	<i>234.00</i>
GEL	<i>3 sks</i>	@ <i>9.50</i>	<i>28.50</i>
CHLORIDE	<i>5 sks</i>	@ <i>28.00</i>	<i>140.00</i>

EQUIPMENT

PUMP TRUCK CEMENTER *Max*

191 HELPER *Dean*

BULK TRUCK

218 DRIVER *Lonnie*

BULK TRUCK

DRIVER

HANDLING *180 sks* @ *1.05* *189.00*

MILEAGE *4 1/2 sk/mile* *504.00*

TOTAL *1910.90*

REMARKS:

Cement did circulate

Thank You

SERVICE

DEPTH OF JOB

PUMP TRUCK CHARGE *470.00*

EXTRA FOOTAGE @

MILEAGE *70 miles* @ *2.85* *199.50*

PLUG *8 5/8 Surface* @ *45.00*

TOTAL *744.50*

CHARGE TO: *Horseshoe Oper*

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.

TAX

TOTAL CHARGE

DISCOUNT IF PAID IN 30 DAYS

SIGNATURE *Larry Pickner*

LARRY PICKNER
PRINTED NAME

RECEIVED
STATE GEOLOGICAL COMMISSION

NOV 29 1999

CONSERVATION DIVISION
Wichita, Kansas

ALLIED CEMENTING CO., INC.

1614

Federal Tax I.D.# 48-0727860

15-075-20699-0000-^{WF}
SERVICE POINT:
Oakley

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

DATE <u>10-13-99</u>	SEC <u>10</u>	TWP <u>22s</u>	RANGE <u>40w</u>	CALLED OUT	ON LOCATION <u>7:45 Am</u>	JOB START <u>11:30 Am</u>	JOB FINISH <u>11:45 PM</u>
LEASE <u>Hill</u>	WELL# <u>1</u>	LOCATION <u>Sylacuse 13N 4E 2S</u>			COUNTY <u>Hamilton</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR Murfin Drlg Rig 24
 TYPE OF JOB Long string
 HOLE SIZE 7 7/8 T.D. 2777'
 CASING SIZE 4 1/2 DEPTH 2794'
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX 1500 MINIMUM
 MEAS. LINE SHOE JOINT
 CEMENT LEFT IN CSG.
 PERFS. 42-30
 DISPLACEMENT 42-95 Bbls

OWNER Same
 CEMENT
 AMOUNT ORDERED
575 sks Lite 1/4" Flo Seal
125 sks class C 100% Salt
 COMMON 125 sks C" @ 9.35 1,168.75
 POZMIX @
 GEL @
 CHLORIDE @
Lite 575 sks @ 6.65 3,823.75
Salt 10 sks @ 7.00 70.00
Flo-Seal 144# @ 1.15 165.60
 HANDLING 700 sks @ 1.05 735.00
 MILEAGE 44 / SK / mile 1,960.00
 TOTAL 7,923.10

EQUIPMENT
 PUMP TRUCK CEMENTER Max
 # 191 HELPER Dean
 BULK TRUCK
 # 347 DRIVER
 BULK TRUCK
 # 280 DRIVER Lonnie

REMARKS:

SERVICE

Total csg Ran 2794' Cemented
 w/ 575 sks Lite 1/4" Flo Seal followed
 with 125 sks class C 100% Salt
 Cement Circulate
 Float Held

DEPTH OF JOB 2794'
 PUMP TRUCK CHARGE 1,080.00
 EXTRA FOOTAGE @
 MILEAGE 70 miles @ 2.85 199.50
 PLUG Latch Down @ 3.00 300.00
 TOTAL 1,579.50

CHARGE TO: Horseshoe operating Inc.
 STREET 500 W. Texas STE 1190
 CITY Midland STATE Tx ZIP 79701

1 1/2 csg FLOAT EQUIPMENT
1 AFU Float shoe @ 224.00
8 Centralizer @ 25.00 200.00
 TOTAL 424.00

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.

TAX _____
 TOTAL CHARGE _____
 DISCOUNT _____ IF PAID IN 30 DAYS

SIGNATURE Skipp L. Barnes

SKIPPER L. BARNES
 PRINTED NAME

RECEIVED
 STATE CORPORATION COMMISSION

NOV 29 1999

CONSERVATION DIVISION
 Wichita, Kansas