

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

API NO. 15- 071-206740000

County Greeley

C -SW/4 -NE/4 - Sec. 10 Twp. 20 Rge. 40 X W

1980 Feet from S(N) (circle one) Line of Section

1980 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 Harding Well # 2

Field Name Bradshaw

Producing Formation Winfield

Elevation: Ground 3571 KB 3580

Total Depth 2870 PBDT 2859

Amount of Surface Pipe Set and Cemented at 270 Feet

Multiple Stage Cementing Collar Used? Yes X No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from 2867

feet depth to surface w/ 550 sx cmt.

Drilling Fluid Management Plan ALT 2 87 11-18-97
(Data must be collected from the Reserve Pit)

Chloride content _____ ppm Fluid volume _____ bbls

Dewatering method used _____

Location of fluid disposal if hauled offsite: 8-18-97

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: Natural Gas Clearinghouse

Operator Contact Person: S. L. Burns

Phone (915) 683-1448

Contractor: Name: Murfin Drilling Company, Inc.

License: 30606

Wellsite Geologist: _____

Designate Type of Completion

X New Well _____ Re-Entry _____ Workover

_____ Oil _____ SWD _____ SLOW _____ Temp. Abd.

_____ Gas _____ ENHR XXX 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. _____

7-12-97 7-14-97 _____

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.

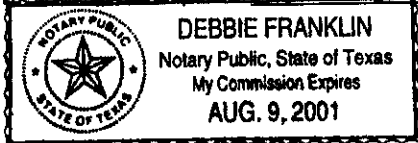
Signature S.L. Burns

Title Vice-President Date 9-4-97

Subscribed and sworn to before me this 4 day of September, 19 97.

Notary Public Debbie Franklin

Date Commission Expires 8-9-2001



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 (Specify)

Operator Name Horseshoe Operating, Inc. Lease Name Harding Well # 2
 Sec. 10 Twp. 20 Rge. 40 East County Greeley 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.) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run (Submit Copy.) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No List All E.Logs Run: Neutron Density Cement Bond	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;"><input checked="" type="checkbox"/></td> <td style="width: 65%;">Log Formation (Top), Depth and Datums</td> <td style="width: 10%;"><input type="checkbox"/></td> <td style="width: 20%;">Sample</td> </tr> <tr> <td></td> <td>Name</td> <td>Top</td> <td>Datum</td> </tr> <tr> <td></td> <td>Stone Corral</td> <td>2450</td> <td>(+1130)</td> </tr> <tr> <td></td> <td>Winfield</td> <td>2810</td> <td>(+770)</td> </tr> </table>	<input checked="" type="checkbox"/>	Log Formation (Top), Depth and Datums	<input type="checkbox"/>	Sample		Name	Top	Datum		Stone Corral	2450	(+1130)		Winfield	2810	(+770)
<input checked="" type="checkbox"/>	Log Formation (Top), Depth and Datums	<input type="checkbox"/>	Sample														
	Name	Top	Datum														
	Stone Corral	2450	(+1130)														
	Winfield	2810	(+770)														

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#	270	CLASS A + LITE	175	3% CC 1/4# Floseal
Production	7-7/8	4-1/4	10-1/2#	2867	CLASS C	425	8% Gel 1/4# floseal
Production	7-7/8	4-1/2	10-1/2#	2867	CLASS C	125	10% Salt

ADDITIONAL CEMENTING/SQUEEZE RECORD					
Purpose:	Depth		Type of Cement	#Sacks Used	Type and Percent Additives
	Top	Bottom			
<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	2839'-2846'
		12,000# 16/30 sand	
		275 bbls gelled KCL	

TUBING RECORD	Size 2-3/8"	Set At 2849	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj. <u>Waiting on pipeline</u>			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 140	McF	Water 65
				Bbls. Gas-Oil Ratio Gravity

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION

Open Hole Perf. Dually Comp. Commingled 2839'-2846'

Other (Specify) _____

ORIGINAL

ALLIED CEMENTING CO., INC. ^{W.F.} 8238

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

SERVICE POINT:

OAKLEY

DATE <u>7-12-97</u>	SEC. <u>10</u>	TWP. <u>20S</u>	RANGE <u>40W</u>	CALLED OUT	ON LOCATION <u>4:15 PM</u>	JOB START <u>5:30 PM</u>	JOB FINISH <u>6:00 PM</u>
<u>HARDING</u> LEASE	WELL # <u>2</u>	LOCATION <u>TRIBUNE 1/5-2E-1/4N</u>			COUNTY <u>GREELY</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR MURFIN DRILL RIG #24 OWNER SAME

TYPE OF JOB SURFACE

HOLE SIZE 12 1/4" T.D. 271'

CASING SIZE 8 7/8" DEPTH 270'

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. 15'

PERFS. _____

DISPLACEMENT 16 1/4 OBL

EQUIPMENT

PUMP TRUCK CEMENTER TERRY

300 HELPER WAYNE

BULK TRUCK

218 DRIVER KONNIE

BULK TRUCK

315 DRIVER JEFF

CEMENT

AMOUNT ORDERED 100 SKS LITE 3% CC 1/4" FLO-SEAL

75 SKS COM 3% CC

COMMON	<u>75 SKS</u>	@	<u>7.20</u>	<u>540.00</u>
POZMIX		@		
GEL		@		
CHLORIDE	<u>5 SKS</u>	@	<u>28.00</u>	<u>140.00</u>
<u>Lite</u>	<u>100 SKS</u>	@	<u>6.65</u>	<u>665.00</u>
		@		
		@		
		@		
		@		
HANDLING	<u>175 SKS</u>	@	<u>1.05</u>	<u>183.75</u>
MILEAGE	<u>44 per SKL mil</u>			<u>546.00</u>

TOTAL 2,074.75

REMARKS:

RAN 7 JTS 8 7/8 CASING 270'

MIX 100 SKS LITE 3% CC 1/4" FLO-SEAL

75 SKS COM 3% CC + DISPLACEMENT

Cement + OBL CIRC.

THANK YOU

SERVICE

DEPTH OF JOB	<u>270'</u>		
PUMP TRUCK CHARGE			<u>445.00</u>
EXTRA FOOTAGE		@	
MILEAGE	<u>78 miles</u>	@	<u>2.85</u>
PLUG	<u>8 7/8 SURFACE</u>	@	<u>45.00</u>
		@	
		@	

TOTAL 712.30

CHARGE TO: HORSESHOE OPERATING

STREET 500 W Texas #1190

CITY Midland STATE Tex ZIP 79701

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 Louis McRena

PRINTED NAME _____

