

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

Operator: License # 4894  
Name: Horseshoe Operating Co.  
Address 500 West Texas  
Suite 1190  
City/State/Zip Midland Tx., 79701  
Purchaser: Natural Gas Clearing House  
Operator Contact Person: Jim Dixon  
Phone (915) 683-1448  
Contractor: Name: Murfin Drilling Co.  
License: 30606  
Wellsite Geologist: None

Designate Type of Completion  
 New Well  Re-Entry  Workover  
 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  PSTD  
 Commingled  Docket No. \_\_\_\_\_  
 Dual Completion  Docket No. \_\_\_\_\_  
 Other (SWD or Inj?)  Docket No. \_\_\_\_\_  
11-15-96 11-17-96 11-25-96  
Spud Date Date Reached TD Completion Date.

API NO. 15- 071-20662-0000 ORIGINAL  
County Greeley  
C NW Sec. 21 Twp. 20 Rge. 40 X E/W  
1320 Feet from S(N) (circle one) Line of Section  
1320 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 King L Well # #2  
Field Name Bradshaw  
Producing Formation Winfield  
Elevation: Ground 3589 KB 3594  
Total Depth 2830 PSTD 2814  
Amount of Surface Pipe Set and Cemented at 242 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set \_\_\_\_\_ Feet  
If Alternate II completion, cement circulated from 2828  
feet depth to surface w/ 485 sx cat.

Drilling Fluid Management Plan ALT 2 JH 11-7-97  
(Data must be collected from the Reserve Pit)  
Chloride content \_\_\_\_\_ ppm Fluid volume \_\_\_\_\_ bbls  
Dewatering method used \_\_\_\_\_  
Location of fluid disposal if hauled offsite: \_\_\_\_\_  
Operator Name \_\_\_\_\_  
Lease Name \_\_\_\_\_  
Quarter Sec. Twp. S Rge. E/W  
County \_\_\_\_\_ Docket No. \_\_\_\_\_  
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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 Terry Maxwell  
Title Consultant Date 2-12-97  
Subscribed and sworn to before me this 12 day of Feb.  
1997  
Notary Public Ronda D. Maxwell

NOTARY PUBLIC State of Kansas  
RONDA D. MAXWELL  
My Appl. Exp. 12-15-0000

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 **JANICHO** Hobbeshoe Operating Co. Lease Name King L Well # #2

Sec. 21 Twp. 20 Rge. 40  East  West  
County Greeley

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time test 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 sheets 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:  
Neutron - Density - GR - Caliper  
Cemt Bond - GR - Collar Correlation

Log Formation (Top), Depth and Datum  Sample

Name	Top	Datum
Stone Corral	2398	+1196
Winfield	2781	+ 813

**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"	24 #	242	C	175	2% CaCl 1/4#/sx ce
Production	7 7/8"	4 1/2"	11.6#	2830	C	360	3% Ext CaCl
"					"	125	2% CaCl 1/4# cell

**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	2786-89, 2793-2803	750 gal 7.5% Acid 12428 # 16/30 Sand 268 bbls gelled KCL	

**TUBING RECORD** Size 2 3/8" Set At 2805 Packer At \_\_\_\_\_ Liner Run  Yes  No

Date of First Resumed Production, SWD or Inj. 11-25-96 Producing Method  Flowing  Pumping  Gas Lift  Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
		320	2		

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

**METHOD OF COMPLETION**

Open Hole  Perf.  Dually Comp.  Commingled 2786-2803

Other (Specify)

CEMENTING SERVICE REPORT

Schlumberger  
Dowell

TREATMENT NUMBER	DATE	
2733	11-15-72	
STAGE	DS	DISTRICT
1	23	

DS-496-A PRINTED IN U.S.A.

WELL NAME AND NO.	LOCATION (LEGAL)	RIG NAME:
KING L	SRC 21-205-404	8
FIELD-POOL	FORMATION	WELL DATA:
Bradshaw	SALT	BIT SIZE
COUNTY/PARISH	STATE	CSG/Liner Size
W. MOLOY	MO	2 7/8
NAME	API. NO.	TOTAL DEPTH
W. Marshall operating		247
AND		ROT CABLE
ADDRESS		FOOTAGE
ZIP CODE		MUD TYPE
		GRADE
SPECIAL INSTRUCTIONS		GRADE
Drilling and cementing instructions		THREAD
		LESS FOOTAGE SHOE JOINT(S)
		DISP. CAPACITY
		14

ORIGINAL

IS CASING/TUBING SECURED?	YES	NO
LIFT PRESSURE	PSI	CASING WEIGHT + SURFACE AREA (3.14 x R <sup>2</sup> )
100		
PRESSURE LIMIT	PSI	BUMP PLUG TO
1000		64' above
ROTATE	RPM	RECIPROCATATE
		FT
		No. of Centralizers

TIME	PRESSURE		VOLUME PUMPED BBL		JOB SCHEDULED FOR			ARRIVE ON LOCATION		LEFT LOCATION	
	TBG OR D.P.	CASING	INCREMENT	CUM	TIME	DATE	TIME	DATE	TIME	DATE	
0001 to 2400											
2032	1290										
2033	90	10	X		3						
2036	90	36	10		3						
2048	30	17	46		3						
2054	50		63								
2055	60	14									
2056	90		8								
2100	115		140								

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REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS		SLURRY MIXED	
					BBLs	DENSITY
1.	100	126			36	12.8
2.						
3.	75	132			17	14.5
4.						
5.						
6.						

BREAKDOWN FLUID TYPE	VOLUME	DENSITY	PRESSURE
MAX. 130	MIN: 10		
<input type="checkbox"/> HESITATION SQ.	<input type="checkbox"/> RUNNING SQ.	CIRCULATION LOST	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Cement Circulated To Surf.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Bbls	
BREAKDOWN	PSI	FINAL	PSI
DISPLACEMENT VOL.	14		
Washed Thru Perfs	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	TO	FT.
MEASURED DISPLACEMENT			
PERFORATIONS	TO	TO	TO
CUSTOMER REPRESENTATIVE	DS	SUPERVISOR	

CEMENTING SERVICE REPORT

Schlumberger  
Dowell

TREATMENT NUMBER 03-12-8758 DATE 11-18-96  
STAGE DS DISTRICT Ulysses, KS

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WELL NAME AND NO. KING L	LOCATION (LEGAL) Sec. 21-20s-40w	RIG NAME MURKIN #8
FIELD POOL Bradshaw	FORMATION	WELL DATA
COUNTY/PARISH	STATE	API. NO.
NAME Horseshoe Operating Inc.	AND	ADDRESS
ADDRESS	ZIP CODE	SPECIAL INSTRUCTIONS

ORIGINAL

IS CASING/TUBING SECURED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	LIFT PRESSURE 1867 PSI	CASING WEIGHT SURFACE AREA (3.14 x R <sup>2</sup> )
PRESSURE LIMIT 1 PSI	BUMP PLUG TO 1500 PSI	IS CASING/TUBING SECURED? <input type="checkbox"/> YES <input type="checkbox"/> NO
RQJATE	RPM	RECIPROCATATE
FT	No. of Centralizers	Head & Plugs
		<input type="checkbox"/> TBG <input type="checkbox"/> D.P.
		<input type="checkbox"/> Double <input type="checkbox"/> Single <input type="checkbox"/> Swage <input type="checkbox"/> Knockoff
		SIZE WEIGHT GRADE THREAD
		TUBING VOLUME Bbls
		CASING VOL. BELOW TOOL Bbls
		TOTAL Bbls
		ANNUAL VOLUME Bbls

TIME	PRESSURE		VOLUME PUMPED BBL		JOB SCHEDULED FOR			ARRIVE ON LOCATION			LEFT LOCATION		
	TBG OR D.P.	CASING	INCREMENT	CUM	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	
0001 to 2400													
1105	1800												
1107	0	10			5'	H70							
1109	220	207			5'	cmt	11'						
1129	120		115		5'	cmt	11'						
1143	50	30			4'	cmt	14.8'						
1148	90		20		4'	cmt	14.5'						
1151	0												
1157	0	449			4'	H70							
1200	0	10			4'	H70							
1203	100	20			4'								
1205	240	50			4'								
1206	300	33			2'								
1209	400	38			2'								
1210	430	40			2'								
1211	510	43			2'								
1213	500												
1221	500				2'								
REMARKS	1540				2'								
1224													

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SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS				SLURRY MIXED	
							BBLs	DENSITY
1.	360	3.23	class C + 3% D79 + 2% cmt + .2% D46 + 4 1/2 D79				207	11'
2.								
3.	125	1.34	class C + 2% cmt + 4 1/2 D79				29.8	14.8'
4.								
5.								
6.								

BREAKDOWN FLUID TYPE	VOLUME	DENSITY	PRESSURE	MAX.
<input type="checkbox"/> HESITATION SQ.	<input type="checkbox"/> RUNNING SQ.	CIRCULATION LOST	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Cement Circulated To Surf. <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
BREAKDOWN	PSI	FINAL	PSI	DISPLACEMENT VOL.
Washed Thru Perfs	<input type="checkbox"/> YES <input type="checkbox"/> NO	TO	FT.	MEASURED DISPLACEMENT
PERFORATIONS	TO	TO	CUSTOMER REPRESENTATIVE	DS SUPERVISOR