

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

Operator: License # 4894

Name: Horseshoe Operating, Inc.

Address 500 W. Texas, Suite 1190

City/State/Zip Midland, Tx 79701

Purchaser: KN Marketing

Operator Contact Person: S. L. Burns

Phone (915) 683-1448

Contractor: Name: Murfin Drilling

License: 30606

Wellsite Geologist: \_\_\_\_\_

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/Reentry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Comp. Date \_\_\_\_\_ Old Total Depth \_\_\_\_\_

Deepening  Re-perf.  Conv. to Inj/SWD  
 Plug Back  PBSD  
 Commingled  Docket No. \_\_\_\_\_  
 Dual Completion  Docket No. \_\_\_\_\_  
 Other (SWD or Inj?)  Docket No. \_\_\_\_\_

11-13-97 11-15-97 12-4-97  
 Spud Date Date Reached TD Completion Date

API NO. 15- 075-206520000

County Hamilton

70'NE\_C-NE/4 - Sec. 23 Twp. 21 Rge. 41 X E

1250 Feet from S/N (circle one) Line of Section

1250 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 Lesser \_\_\_\_\_ Well # 1

Field Name Bradshaw

Producing Formation Winfield

Elevation: Ground 3619 KB 3630

Total Depth 2831 PBSD 2827

Amount of Surface Pipe Set and Cemented at 6 jts 242' Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from 2831

feet depth to surface w/ 475 sx cmt.

Drilling Fluid Management Plan AH-2, 5-13-98 UC  
(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 \_\_\_\_\_ 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, 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.

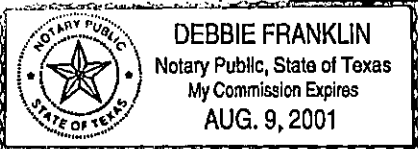
Signature Shigley & Burns

Title Vice-President Date 1/30/98

Subscribed and sworn to before me this 30 day of January, 19 98.

Notary Public Debbie Franklin

Date Commission Expires 8-9-2001



STATE CORPORATION COMMISSION 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 Lesser Well # 1

Sec. 23 Twp. 21 Rge. 41  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 (Attach Additional Sheets.)	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log Formation (Top), Depth and Datums	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No	Base Stone Corral	2346 +1248
Electric Log Run (Submit Copy.)	<input type="checkbox"/> Yes <input type="checkbox"/> No	Winfield	2773 +855
List All E.Logs Run:		<b>ORIGINAL</b>	
Compensated Density Neutron Log			
Dual Spaced Cement			

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#	242	"C"	165	3%cc 1/4floseal
Production	7-7/8	4-1/2	10.5#	2830	"C"	475	8%gel 1/3floseal

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	2774 - 2786	750 gals 7-1/2% HCL	2774-2786
		12,160 16/30 sand 25# gel	

TUBING RECORD	Size 2-3/8	Set At 2752	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj. 1/30/98	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 110 MCFPD	McF	Water 65 BWPD
				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  Other (Specify) \_\_\_\_\_

Production Interval: 2774-2786



Halliburton Energy Services

ORIGINAL

DATE:11-15-1997

TIME:12:13:46

SERVICE TICKET: 232087

HUGOTON-25535

BULK TICKET ONLY: 800746

JOB PURPOSE:LONG STRING

COMPANY TRUCK::77031 DRIVER: S.GRANT D.HAMILTON

CUSTOMER: HORSESHOE OPERATING

LEASE & WELL#:LESSER #1

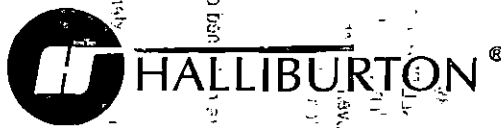
504-050	PREMIUM PLUS CEMENT	475	SKS.	14.01	6654.75
507-277	8 % ADDED GEL	27	SKS.	21.40	577.80
509-968	W/W SALT	700	LBS.	0.17	119.00
507-210	FLOCELE	88	LBS.	1.90	167.20
500-207	SERVICE CHARGES	545	CU FT	1.55	844.75
					TOTAL 8363.50
500-306	WEIGHT: 48070	MILES: 60	TON MILES: 1442.10	1.18	1701.68
					TOTAL BOOK PRICE OF BULK TICKET: \$10065.18

500-225 RETURN SERVICE CHARGES \_\_\_\_\_ 20% COST OF RET. MATERIALS 1.55

500-306 WEIGHT: \_\_\_\_\_ RETURN MILES: 60 TON MILES: \_\_\_\_\_ 1.18

RECEIVED STATE COMMISSION

FEB 2 1998



**HALLIBURTON ENERGY SERVICES**

1906-Q

CHARGE TO:  
 ADDRESS: *Horseshoe Operating*  
 CITY, STATE, ZIP CODE: *500 W Texas Suite 11-90 M.d./land TX 79701*

CUSTOMER COPY TICKET

No. **232087 - 9**

PAGE 1 OF 2

SERVICE LOCATIONS 1. <i>025546</i>	WELL/PROJECT NO. <i>#1</i>	LEASE <i>Lesser</i>	COUNTY/PARISH <i>Hamilton</i>	STATE <i>KS</i>	CITY/OFFSHORE LOCATION <i>Swacuse</i>	DATE <i>7-15-97</i>	OWNER <i>Same</i>
2. <i>025535</i>	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR <i>Cheyenne Drilling</i>	RIG NAME/NO. <i>8</i>	SHIPPED VIA <i>CT</i>	DELIVERED TO <i>Well Site</i>	ORDER NO.
3.	WELL TYPE <i>02</i>	WELL CATEGORY <i>01</i>	JOB PURPOSE <i>035</i>	WELL PERMIT NO.	WELL LOCATION	FILED	
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

JOB POSE	PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
			LOC	ACCT	DF							
	<i>000-117</i>					MILEAGE	<i>120</i>	<i>MI</i>		<i>RT</i>	<i>3.20</i>	<i>384.00</i>
	<i>000-119</i>					<i>Crew Mileage</i>	<i>120</i>	<i>MI</i>		<i>RT</i>	<i>1.95</i>	<i>234.00</i>
	<i>001-016</i>					<i>Pump Charge</i>	<i>2833</i>	<i>FL</i>		<i>G HR</i>	<i>1680.00</i>	<i>1680.00</i>
	<i>019-2148</i>					<i>5 wiper plug container</i>	<i>4 1/2</i>	<i>in</i>		<i>1 EA</i>	<i>480.00</i>	<i>480.00</i>
	<i>045-050</i>					<i>Portable Data Acquisition</i>	<i>1</i>	<i>Job</i>		<i>1 EA</i>	<i>660.00</i>	<i>660.00</i>

ORIGINAL

**LEGAL TERMS:** Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.

DATE SIGNED \_\_\_\_\_ TIME SIGNED \_\_\_\_\_  
 A.M.  P.M.  
 do  do not require IPC (Instrument Protection).  Not offered

TYPE LOCK	SUB SURFACE SAFETY VALVE WAS: <input type="checkbox"/> PULLED & RETURN <input type="checkbox"/> PULLED <input type="checkbox"/> RUN		PAGE TOTAL <i>3438.00</i>
BEAN SIZE	TYPE OF EQUALIZING SUB.	CASING PRESSURE	FROM CONTINUATION PAGE(S) <i>10065 18</i>
DEPTH	TUBING SIZE	TUBING PRESSURE	WELL DEPTH <i>13503 18</i>
SPACERS	TREE CONNECTION	TYPE VALVE	SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE

**CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES** The customer hereby acknowledges receipt of the materials and services listed on this ticket.

CUSTOMER OR CUSTOMER'S AGENT (PLEASE PRINT) <i>X Skippy &amp; Bruno</i>	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE) <i>O. McNamee</i>	HALLIBURTON OPERATOR/ENGINEER <i>63601</i>	EMP # <i>63601</i>	HALLIBURTON APPROVAL
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REGION North America	NWA/COUNTRY Canada	TICKET # 232077	TICKET DATE 11-15-97
MBU ID / EMP # 17005	EMPLOYEE NAME D. McLane	BDA / STATE KS	COUNTY Hamilton
LOCATION L. beam	COMPANY Horsehoe Operating	PSL DEPARTMENT Cement	CUSTOMER REP / PHONE
TICKET AMOUNT	WELL TYPE 02	API / UWI #	
WELL LOCATION Lead	DEPARTMENT Cement	JOB PURPOSE CODE 035	
LEASE / WELL # Lessor 1	SEC / TWP / RNG 23 215 41 W		

HES EMP NAME/EMP#(EXPOSURE HOURS)   HRS	HES EMP NAME/EMP#(EXPOSURE HOURS)   HRS	HES EMP NAME/EMP#(EXPOSURE HOURS)   HRS	HES EMP NAME/EMP#(EXPOSURE HOURS)   HRS
B. Barlasa J1832			
J. Du Toit H7616			
D. Hamilton G3090			
S. Grant H4639			

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
38242	120						
52930-7131	120						
52276-7649	60						
51904-77031	60						

ORIGINAL

Form Name \_\_\_\_\_ Type: \_\_\_\_\_  
 Form Thickness \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_  
 Packer Type \_\_\_\_\_ Set At \_\_\_\_\_  
 Bottom Hole Temp. \_\_\_\_\_ Pressure \_\_\_\_\_  
 Misc. Data \_\_\_\_\_ Total Depth \_\_\_\_\_

TYPE AND SIZE	QTY	MAKE
Float Collar		
Float Shoe		
Guide Shoe		
Centralizers		
Bottom Plug		
Top Plug 5" 4 1/2" 1		MOUCO
Head 5" 4 1/2" 1		"
Packer		
Other		

Treat Fluid	Density	Lb/Gal
Disp. Fluid	Density	Lb/Gal
Prop. Type	Size	Lb.
Prop. Type	Size	Lb.
Acid Type	Gal.	%
Acid Type	Gal.	%
Surfactant	Gal.	In
NE Agent	Gal.	In
Fluid Loss	Gal/Lb	In
Gelling Agent	Gal/Lb	In
Fric. Red.	Gal/Lb	In
Breaker	Gal/Lb	In
Blocking Agent	Gal/Lb	
Perfpac Balls	Qty.	
Other		
Other		
Other		
Other		

DATE	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
11-15-97	1030	11-15-97	11-15-97	11-15-97
			1845	1931

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing	U	10.5	4 1/2	BB	2833	
Liner						
Liner						
Tbg/D.P.						
Tbg/D.P.						
Open Hole						SHOTS/FT.
Perforations						
Perforations						
Perforations						

HOURS ON LOCATION		OPERATING HOURS		DESCRIPTION OF JOB
DATE	HOURS	DATE	HOURS	
				See Job Log
<b>TOTAL</b>		<b>TOTAL</b>		

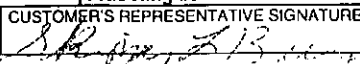
ORDERED	HYDRAULIC HORSEPOWER Avail.	Used
TREATED	AVERAGE RATES IN BPM	
	Disp.	Overall
FEET	CEMENT LEFT IN PIPE	
1	Reason	1-3/4" ID Target

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
	350	Super Plus	B	8% Gel 44% Slurry	2.14	12.6
	125	Super Plus	B	10% SIF	1.40	14.8

Circulating \_\_\_\_\_ Displacement \_\_\_\_\_ Preflush: Gal - BBI \_\_\_\_\_ Type \_\_\_\_\_  
 Breakdown \_\_\_\_\_ Maximum \_\_\_\_\_ Load & Bkdn: Gal - BBI \_\_\_\_\_ Pad: BBI - Gal \_\_\_\_\_  
 Average \_\_\_\_\_ Frac Gradient \_\_\_\_\_ Treatment Gal - BBI \_\_\_\_\_ Disp: BBI - Gal 45 \_\_\_\_\_  
 Shut In: Instant \_\_\_\_\_ 5 Min \_\_\_\_\_ 15 Min \_\_\_\_\_ Cement Slurr Gal - BBI 10 153 \_\_\_\_\_ Total Volume Gal - BBI \_\_\_\_\_

Frac Ring #1 \_\_\_\_\_ Frac Ring #2 \_\_\_\_\_ Frac Ring #3 \_\_\_\_\_ Frac Ring #4 \_\_\_\_\_

THE INFORMATION STATED HEREIN IS CORRECT

CUSTOMER'S REPRESENTATIVE SIGNATURE  


REGION North America	NWA/CC Mesa Continent	TICKET # 233297	TICKET DATE 11-18-97
MBU ID / EMP # 171005 63601	EMPLOYEE NAME D. P. Kane	BDA / STATE KS	COUNTY Hickman
LOCATION Hickman	COMPANY Hess Oil Company	PSL DEPARTMENT Cement	CUSTOMER REP / PHONE
TICKET AMOUNT	WELL TYPE OIL	API / UWI #	
WELL LOCATION Lead	DEPARTMENT Cement	JOB PURPOSE CODE 035	
LEASE / WELL # Lessor 1	SEC / TWP / RNG 13 215 41 W		

HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS
B. Tompkins J1232							
J. D. Ford H7016							
D. H. Miller G3290							
S. Cant H4139							

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	1900							Job ready
	1930							Called for job
	1945							on location logging hole set up pump truck
	1920							start running Csg & float equip.
	1920							Csg on Bottom
	1825							Hook up PIC & Circulating Iron
	1828							Start Circulating
	1838							Through Circulating
	1842							Hook up to Halliburton
								Job Procedure 4 1/2 Long string
	1845	6.5	133			7300		Start Lead Cement @ 12.6 #/gal
	1907	6.5	131			2000		Start Tail Cement @ 14.5 #/gal
	1913							through mixing cement
	1914							Shut Down & Release plug
	1915							Wash up pumps & lines
	1919	6.5	45			750		Start Displacement
	1923					80/190		Caught Cement Bbls out
	1929	3.5				680		slow Rate Down
	1931					200/150		Plug handled
	1932							Release float
								Shot held
								Circulated 10 Bbls to P.T. ✓ 4st no pit

Thank You For Calling Halliburton  
 Danny & Bryan & Jake & Crew