

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

API NO. 15-033-20968 0000

ORIGINAL

County Comanche County, Kansas

NE - SE - NE - Sec. 4 Twp. 33 Rge. 19 <sup>E</sup> <sub>XXV</sub>

Operator: License # 6528

Name: RJ Patrick Operating Company

Address PO Box 1157

City/State/Zip Liberal, KS 67905-1157

Purchaser: Ksas Nat. Gas & Petro Source

Operator Contact Person: RJ Patrick

Phone (316) 624-8483

Contractor: Name: Duke Drilling Co., Inc.

License: 5929

Wellsite Geologist: Bob Posey

Designate Type of Completion

New Well  Re-Entry  Workover

Oil  SWD  SLOW  Temp. Abd.  
 Gas  ENHR  SIGW  
 Dry  Other (Core, WSW, Expl., Cathodic, etc)

If Workover:

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. \_\_\_\_\_

08-15-98 08-25-98 08-26-98  
Spud Date Date Reached TD Completion Date

1580 Feet from S/N (circle one) Line of Section

330 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 Herd Well # 2B-4

Field Name Wildcat

Producing Formation Mississippi/Ft. Scott/Pawnee

Elevation: Ground 1926' KB 1939'

Total Depth 5340' PBSD 6400'

Amount of Surface Pipe Set and Cemented at 643 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 AA-1, 9-18-98 U.C.  
(Data must be collected from the Reserve Pit)

Chloride content 7500 ppm Fluid volume 420 bbls

Dewatering method used setteled water & hauling

Location of fluid disposal if hauled offsite:

Operator Name KBW Oil & Gas Company

Lease Name Harmon #1 License No. 5993

NW Quarter Sec. 11 Twp. 33 S Rng. 20 <sup>E</sup> <sub>XXV</sub>

County Comanche Docket No. 22304

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 RJ Patrick

Title Owner Date 09/16/98

Subscribed and sworn to before me this 16th day of September, 1998.

Notary Public Jayn Berry

Date Commission Expires 04-04-2000

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)

STATE NOTARY PUBLIC  
JAYN BERRY  
NOTARY PUBLIC  
STATE OF KANSAS  
My Appt. Expires: 04-04-2000

9-17-98

Operator Name RJ Patrick Operating Company

Lease Name Herd

Well # 2B-4

Sec. 4 Twp. 33 Rge. 19

East  
 West

County Comanche County, Kansas

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.)

Log Formation (Top), Depth and Datums  Sample

Name	Top	Datum
Toronto	4211	-2292
Lansing	4385	-2446
Marmaton	4920	-2981
Cherokee Shale	4992	-3053
Mississippi	5134	-3195

List All E.Logs Run: Dual Compensated porosity, Dual Induction, Micro Resistivity logs, Sonic Bond Log, Geological Report and Drilling Time.

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
Conductor	30	20"	-	150'			
Surface	12-1/4"	8-5/8"	24#	643'	MidconII	495	3%cc
Production	7-7/8"	4-1/2"	10.5#	5342'	50/50 Poz	235	18%salt

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
2 per ft.	5248' - 5252' set bridge plug @ 5238'	500 gals FE Howco	5248' to 5252'
2 per ft.	5034' to 5038'	1500 gals FE Howco	4996' to 5002'
2 per ft.	5214' to 5217' - 5203' to 5205' 5195' to 5200' 5234' to 5038'	3500 gal FE Howco	5195' to 5217'
2 per ft.	4996' to 5002'	500 gals FE Howco	4996' to 5002'

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

Date of First, Resumed Production, SWD or Inj.	Producing Method	Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
09/05/98	<input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)		2	909mcf	8		

Disposition of Gas:

METHOD OF COMPLETION

Production Interval

Vented  Sold  Used on Lease  
(If vented, submit ACO-18.)

Open Hole  Perf.  Dually Comp.  Commingled  
 Other (Specify) \_\_\_\_\_

4996' to 5002'  
5034' to 5038'  
5195' to 5217'

TRILOBITE TESTING L.L.C.

ORIGINAL

OPERATOR : R.J. Patrick Operating

DATE 8-23-98

WELL NAME: Herd #2-4

KB 1939.00 ft

TICKET NO: 10688

DST #1

LOCATION : 4-33s-19w Comanche co. KS

GR 1926.00 ft

FORMATION: Pawnee

INTERVAL : 4970.00 To 5015.00 ft

TD 5015.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30	Rec.	10333	10333	3026		PF Fr. 2138 to 2208 hr
SI 60	Range(Psi )	4075.0	4075.0	4995.0	0.0	0.0 IS Fr. 2208 to 2308 hr
SF 60	Clock(hrs)	12hr	12hr	elect		SF Fr. 2308 to 0008 hr
FS 90	Depth(ft )	5015.0	5015.0	4976.0	0.0	0.0 FS Fr. 0008 to 0138 hr

	Field	1	2	3	4	
A. Init Hydro	2386.0	2405.0	2422.0	0.0	0.0	T STARTED 1930 hr
B. First Flow	61.0	75.0	34.0	0.0	0.0	T ON BOTM 2137 hr
B1. Final Flow	91.0	87.0	106.0	0.0	0.0	T OPEN 2138 hr
C. In Shut-in	1621.0	1619.0	1672.0	0.0	0.0	T PULLED 0138 hr
D. Init Flow	91.0	97.0	65.0	0.0	0.0	T OUT 0350 hr
E. Final Flow	81.0	80.0	56.0	0.0	0.0	
F. Fl Shut-in	1611.0	1614.0	1663.0	0.0	0.0	
G. Final Hydro	2295.0	2321.0	2405.0	0.0	0.0	
Inside/Outside	0	0	I			

TOOL DATA-----

Tool Wt.	1700.00 lbs
Wt Set On Packer	24000.00 lbs
Wt Pulled Loose	104000.00 lbs
Initial Str Wt	84000.00 lbs
Unseated Str Wt	86000.00 lbs
Bot Choke	0.78 in
Hole Size	7.78 in
D Col. ID	2.25 in
D. Pipe ID	3.38 in
D.C. Length	352.00 ft
D.P. Length	4632.00 ft

RECOVERY

Tot Fluid	120.00 ft of	120.00 ft in DC and	0.00 ft in DP
120.00	ft of gas cut mud	20% Gas 80% mud	
0.00	ft of		
0.00	ft of		
0.00	ft of		
0.00	ft of		
0.00	ft of		
0.00	ft of		

SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

MUD DATA-----

Mud Type	chemical
Weight	9.10 lb/cf
Vis.	49.00 S/L
W.L.	8.80 in3
F.C.	0.00 in
Mud Drop Y	20.0 ft
Amt. of fill	0.00 ft
Btm. H. Temp.	120.00 F
Hole Condition	good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out N	
Tool Chased N	
Tester	Scott Bugbee
Co. Rep.	Bob Posey
Contr.	Duke Drilling
Rig #	7
Unit #	
Pump T.	

BLOW DESCRIPTION

Initial Flow:  
 Bottom of bucket in 1 mins. strong blow  
 Initial Shut-in:  
 Bled 2" no blow back  
 Final Flow:  
 Bottom of bucket when tool open gas to surface in 10 mins. gas will burn  
 Final Shut-in:  
 No blow back

SAMPLES: yes

SENT TO: Caraway Analytical

Test Successful 17 SEP 1998

RECEIVED  
 KANSAS CORP COMM

ORIGINAL

GAS RECOVERY  
-----

COMPANY: R.J. Patrick Operating

DATE: 8-23-98

WELL NAME: Herd #2-4

KB Elev: 1939.00 ft TICKET #10688 DST #

WELL LOCATION: 4-33s-19w Comanche co. KS

GR Elev: 1926.00 ft FORMATION: Pawnee

INTERVAL Fr.: 4970.00 To 5015.00 T.D.: 5015.00 ft TEST TYPE: CONVENTIONAL

GAS RECOVERY MEASURED WITH Merla Guage

\*\*\*\*\* GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
10	0.75	0	22	66600.0
15	0.75	0	19	61900.0
20	0.75	0	18	60200.0
25	0.75	0	16	56800.0
30	0.75	0	16	56800.0
35	0.75	0	16	56800.0
40	0.75	0	15	55200.0
45	0.75	0	17	58500.0
50	0.75	0	18	60200.0
55	0.75	0	19	61900.0
60	0.75	0	20	63500.0



ORIGINAL

Halliburton Energy Services

DATE:08-16-1998                      TIME:08:40:29                      SERVICE TICKET: 395078  
 PRATT-25555                      BULK TICKET ONLY: 100384

JOB PURPOSE: SURFACE COMPANY TRUCK::52530 DRIVER: BAKER

CUSTOMER: R J PATRICK OPERATING CO LEASE & WELL#:HERD 2-4

504-308	STANDARD CEMENT	200	SKS.	12.13	2426.00
509-406	CALCIUM CHLORIDE	6	SKS.	46.90	281.40
500-207	SERVICE CHARGES	212	CU FT	1.66	351.92
				TOTAL	3059.32
500-306	WEIGHT: 19252	MILES: 65	TON MILES: 625.69	1.25	782.11
			TOTAL BOOK PRICE OF BULK TICKET:		\$ 3841.43
<hr/>					
500-225	RETURN SERVICE CHARGES		CU FT	1.66	
500-306	WEIGHT: _____	RETURN MILES: 65	TON MILES: _____	1.25	

JOB SUMMARY 4239-1

395078

8.16.98

REGION North America	NW/COUNTRY mid Cont	BOA/STATE KS	COUNTY Coker
MBU ID / EMP # MCDR 0596 B9475	EMPLOYEE NAME D L Scott	PSL DEPARTMENT Stm	
LOCATION Pratt KS	COMPANY RT Patrick Oper Co	CUSTOMER REP / PHONE RJ Patrick	
TICKET AMOUNT 13,600.52	WELL TYPE 02	API / UWI # 15003209540000	
WELL LOCATION E Protection KS	DEPARTMENT Cmt	JOB PURPOSE CODE 010	
LEASE / WELL # Herd 1-15	SEC / TWP / RNG 15-32-19		

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
D Scott B9475	10						
C Nixon H1660	10						
B Drake H2658	5						
C Baker C9447	2						

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
421269	130						
53387	130						
5621-4673	130						
52530	130						

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

DATE	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
8.16	8.16	8.16	8.16	8.16
TIME	2:30	0200	0510	1700

TOOLS AND ACCESSORIES		
TYPE AND SIZE	QTY	MAKE
Float Collar		
Float Shoe		
Guide Shoe		
Centralizers	2	Comp
Bottom Plug		
Top Plug 5 wiper	1	Howco
Head & manifold	1	"
Packer ISV 4 1/2" I.D.	1	Comp
Other Cmt Basilar	2	Howco

WELL DATA						
	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing	u	24	8 5/8	KR	644	
Liner						
Liner						
Tbg/D.P.						
Tbg/D.P.						
Open Hole			12 1/4	644	648	SHOTS/FT.
Perforations						
Perforations						
Perforations						

MATERIALS			
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			

HOURS ON LOCATION		OPERATING HOURS		DESCRIPTION OF JOB
DATE	HOURS	DATE	HOURS	
8.16	12	8.16	3	010 8 3/8 Surface 1" Top off
TOTAL		TOTAL		

HYDRAULIC HORSEPOWER  
 ORDERED Avail. \_\_\_\_\_ Used \_\_\_\_\_  
 AVERAGE RATES IN BPM  
 TREATED Disp. \_\_\_\_\_ Overall \_\_\_\_\_  
 FEET 41.01  
 CEMENT LEFT IN PIPE Reason Insert

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
Lead	130	mid Cont	B	3% CC 1/2" Floccle	2.94	11.4
Tail	95	mid Cont	B	3% CC 1/4" Floccle	1.47	14.5
1"	50	mid Cont	B	3% CC 1/4" Floccle	1.47	14.5

Circulating \_\_\_\_\_ Displacement \_\_\_\_\_ Preflush: Gal - ~~BB~~ 2 Type H2O  
 Breakdown \_\_\_\_\_ Maximum \_\_\_\_\_ Load & Bkdn: Gal - BBI  
 Average \_\_\_\_\_ Frac Gradient \_\_\_\_\_ Treatment Gal - BBI  
 Shut In: Instant \_\_\_\_\_ 5 Min \_\_\_\_\_ 15 Min \_\_\_\_\_ Cement Slurr Gal - ~~BB~~ 78.5 + 24.8 = 103.3  
 Total Volume Gal - BBI 42.03

Frac Ring #1 \_\_\_\_\_ Frac Ring #2 \_\_\_\_\_ Frac Ring #3 \_\_\_\_\_ Frac Ring #4 \_\_\_\_\_  
 THE INFORMATION STATED HEREIN IS CORRECT CUSTOMER'S REPRESENTATIVE SIGNATURE \_\_\_\_\_

JOB LOG 4239-5

REGION North America	NW/COUNTRY	BDA / STATE	COUNTY
MBUID / EMP #	EMPLOYEE NAME	PSL DEPARTMENT	
LOCATION	COMPANY	CUSTOMER REP / PHONE	
TICKET AMOUNT	WELL TYPE	API UWI #	
WELL LOCATION	DEPARTMENT	JOB PURPOSE CODE	
LEASE / WELL #	SEC / TWP / RNG		

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

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psig)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Ctg	
# 1	2:30							Called Out
	2:00							On loc w/ Trks Cent 10' 7th St Baskets 8 + 13 JTs Drop Ball & Circ w/ Rig. No Circ mud 40' down
052	4			✓		100		Mix & Pump head Cmt @ 11.4 ppg 150 sk's
0537	4		18.5	✓		100		St mixing tail Cmt @ 14.5 ppg 95 sk's
2543	0		24.8	✓		0		Finish mixing Cmt
								Release Top Swiper Plug
3547	2			✓		0		St Disp w/ H <sub>2</sub> O
0608	0		38.3	✓		150		Plug Down no mud & Cmt Circ 40' Down
								Release PSI Float Head
								Run 100' 1" Tbg + Top @ 150 sk's
0647	2		13	✓		200		Mix & pump 50 sk's Cmt @ 14.5 ppg
								Pull 1" Tbg out
								Order 100 sk's std 3% CC
								100 sk's std 3% CC on side
								Run 100' 1" Tbg
1000	10:05	1 1/2	42.03	✓		250		Mix & pump 200 sk's std 3% CC
								Good Circ, & Circ Good Cmt
								Pull 1" Tbg Celler stay full Cmt
								Pumped Total 495 sk's Cmt
								Job Complete
								Thank you Scotty

FROM: HALLIBURTON SERVICES  
 MAKE SAFETY A CORE VALUE IN YOUR LIFE!  
 PLEASES WORK AND DRIVE SAFELY!

FAX NO.: 3166727508

09-16-98 09:41A P.08

**ORIGINAL** HALLIBURTON

COMPANY <b>R J PATRICK OPERATING CO</b>			DATE <b>8/13/98</b>		
CONTRACTOR <b>DUKE RIG #7</b>		SEC. TWN, RNG <b>4 - 33S - 19W</b>			
LEASE <b>HERD</b>	WELL NO. <b>2-4</b>	COUNTY <b>COMANCHE</b>		MILEAGE <b>130/65</b>	
DIRECTIONS <b>COLDWATER - SOUTH TO 183 JCT - 3 1/2 WEST - SOUTH INTO</b>					

**API # 1503320965000**

SURFACE <b>YES</b>	INTER.	L. STRING	LINER	PLUG BACK	PTA	
SQUEEZE		ACID	OTHER			
CASING SIZE <b>8 5/8</b>	THREAD <b>8RD</b>	TUBING SIZE	PLUG CONT <b>YES</b>	SWAGE <b>YES</b>	ROT HEAD	TOP PLUG <b>5W</b>
NUMBER AND TYPE TRUCKS WANTED <b>PUMP TRUCK AND BULK</b>					BOTTOM PLUG	
REMARKS					HOLE SIZE <b>12 1/4</b>	

# OF SACKS <b>200</b>	TYPE <b>MIDCON II</b>	ADDITIVES <b>3% CC - 1/2# FLOCELE</b>
# OF SACKS	TYPE	ADDITIVES <b>11.4 LB/GAL - 2.94 CUFT/SK - 17.99 GAL/SK</b>
# OF SACKS <b>95</b>	TYPE <b>MIDCON II</b>	ADDITIVES <b>3% CC - 1/4# FLOCELE</b>
# OF SACKS	TYPE	ADDITIVES <b>14.5 LB/GAL - 1.47 CUFT/SK - 7.01 GAL/SK</b>
# OF SACKS	TYPE	ADDITIVES
# OF SACKS	TYPE	ADDITIVES

SPACER	QUANTITY	TYPE	REMARKS
OTHER	QUANTITY	TYPE	REMARKS

*TP = 644*

REMARKS				
TYPE JOB	TOOL			
CASING SIZE	WEIGHT	GRADE	PCKR DEPTH	MUD WT
SIZE AND TYPE DRILL PIPE OR TUBING		TUBING TESTER	JARS	
WIRELINE SETTING TOOL		STINGER	MECHANICAL SETTING TOOL	
SWIVEL		SQUEEZE MANIFOLD	OTHER	
REMARKS				

CASING SIZE <b>8 5/8</b>	CASING WEIGHT <b>24</b>	THREAD <b>8RD</b>	
GUIDE SHOE	FLOAT SHOE	FLT COLLAR	IFAF <b>INSERT/FILLUP</b>
CENTRALIZE-NUMBER <b>1 EACH</b>	SIZE <b>8 5/8</b>	TYPE <b>S-4</b>	
WELL CLEANS-NUMBER	TYPE	DV TOOL	
LIMIT CLAMPS	WELD-A <b>1 EACH</b>	OTHER <b>BRING <del>THE</del> BASKET IN CASE</b>	
REMARKS			

*TWO*

ORDERED BY <b>KENNY MCGUIRE 1-316-793-0838</b>	TIME OF CALL <b>8/13/98</b>
CALL TAKEN BY <b>DON</b>	TIME READY <b>W/C</b>
OPERATOR OR DRIVER CALLED	TIME





HALLIBURTON

JOB LOG 4239-5

ORIGINAL

TICKET #	TICKET DATE
BDA / STATE	COUNTY
PSL DEPARTMENT	
CUSTOMER REP / PHONE	
API / UWI #	
DEPARTMENT	JOB PURPOSE CODE
SEC / TWP / RNG	

REGION North America	NWA/COUNTRY
MBU ID / EMP #	EMPLOYEE NAME
LOCATION	COMPANY
TICKET AMOUNT	WELL TYPE
WELL LOCATION	DEPARTMENT
LEASE / WELL #	SEC / TWP / RNG

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
			7				
			7				
			7				

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Top	Ann	
	0005					457		Called Out
	0240							On Location Running Casing
	0500							Hook up To well
	0530							Circulate & Reciprocate
	0535	3.5						Shut Down
	0540	2.5						Plug Rathole 15 SKS
	0545	0				350		Plug mouse hole 10 SKS
	0555	57.8				300		START MIXING 235 SKS at 14.3#
	0600							FINISH MIXING
	0601							Wash out Pump & Lines
	0602	6				200		Release PLUG
	0607	8	30			300		START Displacement Reciprocate
	0614	4	82.0			750		Cement on Bottom
	0615	84.7				1050		Reduce Rate
								Hard Plug
								Release PSI
	06:16							FIAT held
	0620							Wash up
	0700							Job Complete
								THANKS
								Glen - Todd - Brad

ORIGINAL



Halliburton Energy Services

DATE:08-25-1998

TIME:20:18:45

SERVICE TICKET: 459827

PRATT-25555

BULK TICKET ONLY: 100394

JOB PURPOSE:LONG STRING

COMPANY TRUCK::5621 DRIVER: B.JOHNSON

CUSTOMER: R J PATRICK OPERATING CO LEASE & WELL#:HERD 2B-4

504-130	POZMIX-A CEMENT	260	SKS.	8.23	0.00
507-153	CFR-3	158	LBS.	6.15	971.70
509-968	W/W SALT	2250	LBS.	0.18	405.00
507-210	FLOCELE	65	LBS.	2.09	135.85
500-207	SERVICE CHARGES	298	CU FT	1.66	494.68
					TOTAL 4147.03
500-306	WEIGHT: 24318	MILES: 65	TON MILES: 790.34	1.25	987.93
					TOTAL BOOK PRICE OF BULK TICKET: \$ 5134.96

500-225 RETURN SERVICE CHARGES \_\_\_\_\_ CU FT 1.66 \_\_\_\_\_

500-306 WEIGHT: \_\_\_\_\_ RETURN MILES: 65 TON MILES: \_\_\_\_\_ 1.25 \_\_\_\_\_

*split*  
*11,977*



HALLIBURTON ENERGY SERVICES

1906-Q

CHARGE TO: R J Patrick *4 1/2 casing*  
 ADDRESS: P.O. Box 1157  
 CITY, STATE, ZIP CODE: Liberal KS 67905-1157

CUSTOMER COPY

TICKET

459827-5

ORIGINAL

PAGE 1 OF 2

SERVICE LOCATIONS	WELL/PROJECT NO.	LEASE	COUNTY/PARISH	STATE	CITY/OFFSHORE LOCATION	DATE	OWNER
1 PRATT 25555	2B-4	HERD	Comanche	KS		8-26-98	Same
2	TICKET TYPE <input checked="" type="checkbox"/> SERVICE	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR Duke Drlg	RIG NAME/NO. #7	SHIPPED VIA CT	DELIVERED TO Location	ORDER NO.
3	WELL TYPE 0.1	WELL CATEGORY 01	JOB PURPOSE Dev	WELL PERMIT NO. 035	WELL LOCATION 1503320968000	Land	
4	REFERRAL LOCATION	INVOICE INSTRUCTIONS					

JOB PURPOSE	PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE		AMOUNT
			LOG	ACCT	DF		QTY.	U/M	QTY.	U/M	
	000-117		1			MILEAGE	130	m	3.65		474.50
	001-016		1			Pump Charge	4	hrs	5340	FT	2422.00
	000-138	119	1			Crew Mileage	130	m	2.15		279.50
	018-303		1			CIA FIX-IT	7	gal	33.95		237.65
	030-016		1			SW Plug	1	ea	4.50		50.00
Bulk Ticket 100394											
5134.96											

**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: *R J Patrick* 8-26-98  
 TIME SIGNED: [ ] A.M. [ ] P.M.  
 do not require IPC (Instrument Protection)  Not offered

TYPE LOCK: [ ] SUB SURFACE SAFETY VALVE WAS: [ ] PULLED & RETURN [ ] PULLED [ ] RUN

BEAN SIZE: [ ] TUBING SIZE: [ ] TUBING PRESSURE: [ ] WELL DEPTH: [ ]

FROM CONTINUATION PAGE(S): [ ]

SPACERS: [ ] TREE CONNECTION: [ ] TYPE VALVE: [ ]

SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE: [ ]

PAGE TOTAL: 8598.61

**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): [ ] CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE): *R J Patrick*

HALLIBURTON OPERATOR/ENGINEER: *Alan Byrd* EMP #: 85826

HALLIBURTON APPROVAL: [ ]

FROM: HALLIBURTON SERVICES  
SERVICE CENTER

FAX NO.: 3166727508



ORIGINAL

09-16-98 09:37A P.02  
DALLAS, TX 75395-1046  
Corporate FIN 73-0271280

INVOICE

**HALLIBURTON ENERGY SERVICES**  
A Division of Halliburton Company

INVOICE NO. 395078 DATE 08/16/1998

WELL LEASE NO./PROJECT		WELL/PROJECT LOCATION		STATE	OWNER
HERD 2-4		COMANCHE		KS	SAME
SERVICE LOCATION		CONTRACTOR	JOB PURPOSE		TICKET DATE
PRATT		DUKE DRILLING 7	SHOWN BELOW		08/16/1998
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
570572	KENNETH MCQUIRE			COMPANY TRUCK	45137

DIRECT CORRESPONDENCE TO:

R J PATRICK OPERATING CO  
P O BOX 1157  
LIBERAL, KS 67905-1157

P O BOX 963  
PRATT KS 67124  
316-672-5593

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
	DISCOUNT - (BID)				5,120.19-
	INVOICE BID AMOUNT				7,480.33
	*- KANSAS STATE SALES TAX				289.55
	*- PRATT COUNTY SALES TAX				59.10
<b>INVOICE TOTAL - PLEASE PAY THIS AMOUNT</b>					<b>\$7,828.98</b>

1998 SEP 17 A 11:16  
 RECEIVED  
 KANSAS CORP COMM

**TERMS:** If Customer does not have an approved open account with Halliburton, all sums due are payable in cash at the time of performance of services or delivery of equipment, products or materials. If customer has an approved open account, invoices are payable on the twentieth day after date of invoice. Customer agrees to pay interest of any unpaid balance from the date payable until paid at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event Halliburton employs an attorney for collection of any account, Customer agrees to pay attorney fees of 20% of the unpaid account, plus all collection and court costs.

09-16-98 09:13:08 P.03



HALLIBURTON ENERGY SERVICES

1506 0

SERVICE LOCATIONS  
1. Pratt KS

OWNER # 10  
R J Patrick Oper Co  
ADDRESS  
PO Box 1157  
CITY, STATE, ZIP CODE  
45 Liberal KS 67901-1157

ORIGINAL DUPLICATE COPY TICKET

ORIGINAL

395078 - 2

PAGE 1 OF 2

WELL PROJECT NO: 2-40  
LEASE: Herd  
COUNTRY/PARISH: Comanche  
STATE: KS  
CITY/OFFSHORE LOCATION: Same  
DATE: 8-16-98  
OWNER: Same  
TICKET TYPE: SERVICE  
NITROGEN JOB: YES  
CONTRACTOR: Duke Drly  
RIS NUMBER: #7  
SHIPPED VIA: Home  
DELIVERED TO: Loc  
ORDER NO:  
WELL TYPE: 02  
WELL CATEGORY: 01  
JOB PURPOSE: 010  
WELL PERMIT NO:  
WELL LOCATION: Land  
REFERRAL LOCATION:  
INVOICE INSTRUCTIONS: API# 15003209540000

JOB PURPOSE	PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE		AMOUNT
			LOC	ACCT	DF		UM	UM	PRICE		
010	000.117		1			MILEAGE 53387 # RD TP	130	mi		3.65	474.50
	000.119		1			Crew mileage 421269 # RD TP	130	mi		2.15	277.00
	001.016		1			Pump Charge / Trk	644	ft	4 hrs	1630	1630
	030.016		1			Top Sweeper Plug	1	ea	8 hrs	132	132
	320	806.71460	1			Cmt Basket Canvas	1	kg	" "	146	146
	001.018		1			Additional Hrs	2	hrs		376	752
	001.018		1			Additional Hrs	4	hrs		376	1504
			1			Bulk Tkt # 100384					3841.43
			1			Bulk Tkt # 100383					6624.59

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: 8-16-98  
TIME SIGNED: 0300  
A.M.  P.M.   
 do not require (PC Instrument Protection)  No needed

TYPE LOCK  
SUB SURFACE SAFETY VALVE WAS:  
 PULLED & RETURN  PULLED  RUN  
PAGE TOTAL: 13600.59  
BEAN SIZE  
TYPE OF EQUALIZING SUB  
CASING PRESSURE  
FROM CONTINUATION PAGE(S)  
DEPTH  
TUBING SIZE  
TUBING PRESSURE  
WELL DEPTH  
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): Kenneth McQuire  
CUSTOMER OR CUSTOMER'S AGENT SIGNATURE: [Signature]  
HALLIBURTON OPERATOR/ENGINEER: David L Scott  
EMP #: B9995  
HALLIBURTON APPROVAL: DL Scott

FROM: HALLIBURTON SERVICES FAX NO.: 3166727508



ORIGINAL

## Halliburton Energy Services

DATE:08-16-1998

TIME:00:02:33

SERVICE TICKET: 395078

PRATT-25555

BULK TICKET ONLY: 100383

JOB PURPOSE: SURFACE COMPANY TRUCK: :5621 DRIVER: DRAKE

CUSTOMER: R J PATRICK OPERATING CO LEASE &amp; WELL#: HERD 2-4

504-280	MIDCON CEMENT	STANDARD	295	SKS.	14.17	4180.15
507-210	FLOCELE		124	LBS.	2.09	259.16
509-406	CALCIUM CHLORIDE		9	SKS.	46.90	422.10
500-207	SERVICE CHARGES		337	CU FT	1.66	559.42
					TOTAL	5420.83
500-306	WEIGHT: 29631	MILES: 65	TON MILES: 963.01	1.25		1203.76
			TOTAL BOOK PRICE OF BULK TICKET:			\$ 6624.59

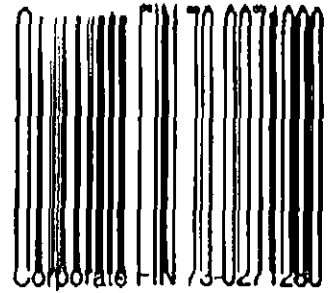
500-225 RETURN SERVICE CHARGES \_\_\_\_\_ CU FT 1.66 \_\_\_\_\_

500-306 WEIGHT: \_\_\_\_\_ RETURN MILES: 65 TON MILES: \_\_\_\_\_ 1.25 \_\_\_\_\_

SERVICE CENTER



PERMIT TO  
P.O. BOX 951046  
DALLAS, TX 75395-1046



INVOICE NO.	DATE
395078	08/16/1998

INVOICE

HALLIBURTON ENERGY SERVICES  
A Division of Halliburton Company

WELL LEASE NO./PROJECT	WELL/PROJECT LOCATION	STATE	OWNER
ERD 2-4	COMANCHE	KS	SAME
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE	TICKET DATE
PRATT	DUKE DRILLING 7	SHOWN BELOW	08/16/1998
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER
70572	KENNETH MCQUIRE		
		SHIPPED VIA	FILE NO.
		COMPANY TRUCK	45137

DIRECT CORRESPONDENCE TO:

R J PATRICK OPERATING CO  
P O BOX 1157  
LIBERAL, KS 67905-1157

P O BOX 963  
PRATT KS 67124  
316-672-5593

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
PRICING AREA - MID CONTINENT					
JOB PURPOSE - CEMENT SURFACE CASING					
000-117	MILEAGE CEMENTING ROUND TRIP	130	MI	3.65	474.50
		1	UNT		
000-119	MILEAGE FOR CREW	130	MI	2.15	N/C
		1	UNT		
001-016	CEMENTING CASING	644	FT	1,630.00	1,630.00
		1	UNT		
030-016	CEMENTING PLUG SW ALUM TOP	8	5/8 IN	132.00	132.00
		1	EA		
320	BASKET-CMT-8 5/8 CSG X 21"-SLF	1	EA	146.00	146.00
	806.71460				
001-018	CEMENTING CASING - ADD HRS	2	HR	376.00	752.00
		1	UNT		
001-018	CEMENTING CASING - ADD HRS	4	HR	376.00	N/C
		1	UNT		
504-280	MIDCON-2 STANDARD CEMENT	295	SK	14.17	4,180.15
507-210	FLOCELE	124	LB	2.09	259.16
509-406	ANHYDROUS CALCIUM CHLORIDE	9	SK	46.90	422.10
500-207	BULK SERVICE CHARGE	337	CFT	1.66	559.42
500-306	MILEAGE CMTG MAT DEL OR RETURN	963.01	TMI	1.25	1,203.76
504-308	CEMENT - STANDARD	200	SK	12.13	2,426.00
509-406	ANHYDROUS CALCIUM CHLORIDE	6	SK	46.90	281.40
500-207	BULK SERVICE CHARGE	212	CFT	1.66	351.92
500-306	MILEAGE CMTG MAT DEL OR RETURN	625.69	TMI	1.25	782.11
JOB PURPOSE SUBTOTAL					13,600.52
INVOICE SUBTOTAL					13,600.52

\*\*\*\*\* CONTINUED ON NEXT PAGE \*\*\*\*\*

TERMS: If Customer does not have an approved open account with Halliburton, all bills due are payable in cash at the time of performance of services or delivery of equipment, products or materials. If customer has an approved open account, invoices are payable on the twentieth day after date of invoice. Customer agrees to pay interest of any unpaid balance from the date payable until paid at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event Halliburton employs an attorney for collection of any account, Customer agrees to pay attorney fees of 20% of the unpaid account plus all collection and court costs.