

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
September 1999  
Form Must Be Typed

WELL COMPLETION FORM

WELL HISTORY - DESCRIPTION OF WELL & LEASE

**CONFIDENTIAL**

Operator: License # 4058  
Name: American Warrior INC  
Address: P.O.Box 399,  
City/State/Zip: Garden City, KS 67846  
Purchaser: ANR  
Operator Contact Person: Kevin Wiles SR  
Phone: (620) 275-2963  
Contractor: Name: Duke Drilling  
License: 5929  
Wellsite Geologist: Alan Downing

**RECEIVED**  
**MAR 08 2004**  
**KCC WICHITA**

Designate Type of Completion:  
 New Well  Re-Entry  Workover  
 Oil  SWD  SIOW  Temp. Abd.  
 Gas  ENHR  SIGW  
 Dry  Other (Core, WSW, Expt., Cathodic, etc)

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_  
Well Name: \_\_\_\_\_  
Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_  
 Deepening  Re-perf.  Conv. to Enhr./SWD  
 Plug Back \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_  
 Commingled \_\_\_\_\_ Docket No. \_\_\_\_\_  
 Dual Completion \_\_\_\_\_ Docket No. \_\_\_\_\_  
 Other (SWD or Enhr.?) \_\_\_\_\_ Docket No. \_\_\_\_\_

1-30-04 2-11-04 2-26-04  
Spud Date or 2-11-04 Date Reached TD 2-26-04 Completion Date or  
Recompletion Date 2-26-04 Recompletion Date

API No. 15 - 033-21,393-00 00  
County: Comanche 80°N & 220° E of  
C E/2 NSE NW Sec. 28 Twp. 32s S. R. 19  East  West  
1900' feet from S / (N) (circle one) Line of Section  
2530' feet from E / (W) (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:  
(circle one) NE SE (NW) SW  
Lease Name: Bird Well #: 4

Field Name: Bird  
Producing Formation: Miss  
Elevation: Ground: 1926 Kelly Bushing: 1939  
Total Depth: 5920' Plug Back Total Depth: 5360

Amount of Surface Pipe Set and Cemented at 620 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 ACT I WHM 2-12-07  
(Data must be collected from the Reserve Pit)

Chloride content 12000 ppm Fluid volume 320 bbls  
Dewatering method used Hauled off-site

Location of fluid disposal if hauled offsite:  
Operator Name: KBW Oil & Gas  
Lease Name: Harmom SWD License No.: 5993  
Quarter NW Sec. 11 Twp. 33s S. R. 20  East  West  
County: Comanche Docket No.: D-98,329

**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 of 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: \_\_\_\_\_  
Title: Production Supt. Date: 3-4-04

Subscribed and sworn to before me this 3th day of March, 2004.

Notary Public: Debra J. Purcell

Date Commission Expires: 11/4/07

**DEBRA J. PURCELL**  
Notary Public - State of Kansas  
My Appt. Expires 11/4/07

**KCC Office Use ONLY**  
 Letter of Confidentiality Attached  
If Denied, Yes  Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution

X

CONFIDENTIAL

MAR 0 8 2004  
Side Two

ORIGINAL

CONFIDENTIAL

Operator Name: American Warrior INC

Lease Name: Bird

Well #: 4

Sec. 28 Twp. 32s S. R. 19  East  West

County: Comanche 80°N & 220' E of

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems 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 test, along with final chart(s). Attach extra sheet if more space is needed. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

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:

CDNL/GR Sonic, Micro, Dual IND

Log Formation (Top), Depth and Datum  Sample

Name	Top	Datum
Heebner	4198'	-2259
Lansing	4376'	-2437
Marmaton	4878'	-2939
Pawnee	4960'	-3021
Cherokee	5011'	-3072
Miss	5098'	-3159
Viola	5804'	-3865

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MAR 0 5 2004

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CASING RECORD <input checked="" type="checkbox"/> New <input 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"	23#	620	Class A	650	3%cc 2%gel
Production	7-7/8"	5-1/2"	17#	5405'	SMDC	150.	flocele Gastop

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
4	5130'-5146'	NONE	

TUBING RECORD		Size	Set At	Packer At	Liner Run
		2-3/8"	5130'	None	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumerd Production, SWD or Enhr.		Producing Method			
SI		<input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	SI	SI	SI		

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

METHOD OF COMPLETION  Open Hole  Perf.  Dually Comp.  Commingled

Production Interval  Other (Specify)

CONFIDENTIAL

# ALLIED CEMENTING CO., INC.

KCC

14033

ORIGINAL

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

MAR 05 2004

SERVICE POINT

med. lodge, ks.

CONFIDENTIAL

DATE 1-31-04	SEC. 28	TWP. 32S	RANGE 19W	CALLED OUT 3:30A.m.	ON LOCATION 6:00A.m.	JOB START 10:45a.m.	JOB FINISH 12:20a.m.
LEASE B. 1	WELL# 4	LOCATION Coldwater Car Wash		COUNTY Comanche	STATE KS		
OLD OR NEW (Circle one)		1/2w-2S-2w-4s					

CONTRACTOR Duke #7  
 TYPE OF JOB Surface csq.  
 HOLE SIZE 12/4 T.D. 625'  
 CASING SIZE 2-5/8 DEPTH 630'  
 TUBING SIZE DEPTH  
 DRILL PIPE DEPTH  
 TOOL DEPTH  
 PRES. MAX 300 MINIMUM 200  
 MEAS. LINE SHOE JOINT 28.64  
 CEMENT LEFT IN CSG.  
 PERFS.  
 DISPLACEMENT 37 Bbls Fresh H<sub>2</sub>O

OWNER American warrior

CEMENT  
 AMOUNT ORDERED 250sx ALW + 3%cc  
 1/4# Fl-Seal 100sx CLASS A + 3%cc  
 2%Gel. Topout w/100sx A 3%cc + 2%Gel  
 200sx A + 3%cc

COMMON \_\_\_\_\_ @ \_\_\_\_\_  
 POZMIX \_\_\_\_\_ @ \_\_\_\_\_  
 GEL \_\_\_\_\_ @ \_\_\_\_\_  
 CHLORIDE \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 HANDLING \_\_\_\_\_ @ \_\_\_\_\_  
 MILEAGE \_\_\_\_\_ @ \_\_\_\_\_

EQUIPMENT  
 PUMP TRUCK CEMENTER Larry Dreding  
 #365-265 HELPER B. 11  
 BULK TRUCK  
 #363 DRIVER Larry G.  
 BULK TRUCK  
 # DRIVER

RECEIVED  
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 TOTAL \_\_\_\_\_

KCC WICHITA SERVICE

REMARKS:

Pipe on Bottom - Break Circ.  
 Pump 250sx ALW + 3%cc + 1/4 #  
 Fl-Seal.  
 Pump 100sx A + 3%cc + 2%Gel  
 Release Plug. Displace 37 Bbls. H<sub>2</sub>  
 Bump Plug. loss Returns. Topcut w/  
 100sx A 3%cc + 2%Gel. + 200sx A + 3%cc

DEPTH OF JOB 620'  
 PUMP TRUCK CHARGE \_\_\_\_\_  
 EXTRA FOOTAGE \_\_\_\_\_ @ \_\_\_\_\_  
 MILEAGE \_\_\_\_\_ @ \_\_\_\_\_  
 PLUG Rubber 2-5/8 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_

CHARGE TO: American warrior  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

TOTAL \_\_\_\_\_

FLOAT EQUIPMENT

A-Baskets \_\_\_\_\_ @ \_\_\_\_\_  
 T-Baffle Plate \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_

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 Gerald Adams

X Gerald Adams  
 PRINTED NAME

# ALLIED CEMENTING CO., INC. 15053 ORIGINAL

**CONFIDENTIAL**

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

MAR 05 2004

SERVICE POINT

**CONFIDENTIAL**

DATE <u>1-1-04</u>	SEC. <u>23</u>	TWP. <u>21S</u>	RANGE <u>17W</u>	CALLED OUT <u>8:00 AM</u>	ON LOCATION <u>1/18/04</u>	JOB START <u>12:30 PM</u>	JOB FINISH <u>1:00 PM</u>
LEASE <u>Sub</u>		WELL# <u>4</u>		LOCATION <u>Wichita 1000</u>		COUNTY <u>Wichita</u>	STATE <u>KS</u>
OLD OR NEW (Circle one)							

CONTRACTOR Loake #7

TYPE OF JOB Top out surface

HOLE SIZE \_\_\_\_\_ T.D. \_\_\_\_\_

CASING SIZE 2 7/8 DEPTH \_\_\_\_\_

TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_

TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_

PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_

MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_

CEMENT LEFT IN CSG. \_\_\_\_\_

PERFS. \_\_\_\_\_

DISPLACEMENT \_\_\_\_\_

OWNER American Warrant

CEMENT AMOUNT ORDERED 250 5x class A 4 1/2" cc

COMMON <u>A 125</u>	@	<u>7.15</u>	<u>893.75</u>
POZMIX _____	@		
GEL _____	@		
CHLORIDE <u>6</u>	@	<u>30.00</u>	<u>180.00</u>
_____	@		
_____	@		
_____	@		
_____	@		
_____	@		
HANDLING <u>250</u>	@	<u>1.15</u>	<u>287.50</u>
MILEAGE <u>250 x 45</u>	@	<u>.05</u>	<u>571.00</u>

**EQUIPMENT**

PUMP TRUCK # <u>372</u>	CEMENTER <u>Justin Hart</u>
BULK TRUCK # <u>314</u>	HELPER <u>Mark Brungardt</u>
BULK TRUCK # _____	DRIVER <u>Dean Franklin</u>
BULK TRUCK # _____	DRIVER _____

RECEIVED TOTAL 1944.15

MAR 08 2004 SERVICE  
KCC WICHITA

REMARKS:  
By up 1" line + Top out  
to 75'  
250 5x class A 4 1/2" cc @ 15.6  
cement for surface  
over full

DEPTH OF JOB _____	
PUMP TRUCK CHARGE _____	<u>520.00</u>
EXTRA FOOTAGE _____	@ _____
MILEAGE <u>45</u>	@ <u>3.50</u> <u>157.50</u>
PLUG _____	@ _____
_____	@ _____
_____	@ _____

TOTAL 677.50

CHARGE TO: American Warrant

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 2621.65

DISCOUNT 263.16 IF PAID IN 30 DAYS

SIGNATURE Kenneth McGuire

KENNETH MCGUIRE  
PRINTED NAME



CHARGE TO:  
**AMERICAN WARRIOR INC.**  
 ADDRESS  
 CITY, STATE, ZIP CODE

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TICKET  
 6475

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PAGE 1 OF 2

SERVICE LOCATIONS 1. <b>NESS CITY, KS</b>	WELL/PROJECT NO. # 4	LEASE BRED	COUNTY/PARISH COMANCHE	STATE KS	CITY	DATE 2-11-04	OWNER SAME
2.	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR DUKE BRADY # 4	RIG NAME/NO.	SHIPPED VIA CT	DELIVERED TO LOCATION	ORDER NO.	
3.	WELL TYPE GAS	WELL CATEGORY DEVELOPMENT	JOB PURPOSE 5 1/2" LOGGING	WELL PERMIT NO.	WELL LOCATION PRODUCTION - 4W, 2E, 1S, 2 1/2 E, 5S		
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UM		UNIT PRICE		AMOUNT
		LOC	ACCT	DF								
575		1			MILEAGE # 104	80		ME		2.50		2000.00
578		1			PUMP SERVICE	1		JOB	5406	100		12000.00
280		1			FLOCHV - 21	850		GAL		1.50		1275.00
402		1			CONRADERS	10		CA	5 1/2"	44.00		440.00
403		1			CONCRETE BASKETS	2		CA		125.00		250.00
406		1			LATCH DOWN PLUG - BAFFLE	1		CA		200.00		200.00
405		1			PACKER SIDE	1		CA		125.00		125.00

CONFIDENTIAL  
 MAR 05 2004  
 KCC

**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.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

x *Kenneth McInnis*

DATE SIGNED: 2-11-04      TIME SIGNED: 2000       A.M.       P.M.

**REMIT PAYMENT TO:**

**SWIFT SERVICES, INC.**  
 P.O. BOX 466  
 NESS CITY, KS 67560  
 785-798-2300

SURVEY	AGREE	UN-DECIDED	DIS-AGREE
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?			
WE UNDERSTOOD AND MET YOUR NEEDS?			
OUR SERVICE WAS PERFORMED WITHOUT DELAY?			
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?			
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES <input type="checkbox"/> NO		
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND			

PAGE TOTAL # 1	4815.00
# 2	3713.82
TAX	
TOTAL	

ORIGINAL

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

SWIFT OPERATOR: *Wayne Watson*      APPROVAL: \_\_\_\_\_

Thank You!



PO Box 466  
Ness City, KS 67560  
Off: 785-798-2300

# TICKET CONTINUATION

TICKET No. 6475

CUSTOMER: AMERICAN WARRIOR ZINC  
WELL: BORD # 4  
DATE: 2-11-04  
PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF								
330		1				SWIFT MULT-DWSTY STANDARD	150	SKS			9.75	1462.50
276		1				FLOCHL	38	LBS			1.90	34.20
285		1				CFR-1	71	LBS			2.75	195.25
287		1				GASSTOP	300	LBS			4.50	350.00
581		1				SERVICE CHARGE						
583		1				MILEAGE CHARGE						
						TOTAL WEIGHT	15349					
						LOADED MILES	80					
						CUBIC FEET	150				1.00	150.00
						TON MILES	613.96				.85	521.87

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ORIGINAL

CONTINUATION TOTAL 3713.82

**JOB LOG**

**CONFIDENTIAL**

**SWIFT Services, Inc.**

**ORIGINAL**

DATE 2-11-04 PAGE NO. 1

GUSTOMER AMERICAN WARRIOR LSC

WELL NO. # 4

LEASE BIRD

JOB TYPE 5/2" LOGGING

TICKET NO. 6475

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1930							KCC ON HOUSTON
	2030							MAR 05 2004 START 5/2" CASING 2J WELL
								CONFIDENTIAL
								TD - 5920 SITE 5403
								TD - 5406 5/2 - 17" / FT
								SS - 33.80
								CJIRAZERS - 1, 2, 4, 7, 10, 12, 15, 18, 20
								CJT BSKTS - 2, 10
	2300							CIRCULATE WELL - DROP BALL - SET PACKER
	2330	6	5		✓		450	PUMP SPACER
	2331	6	20		✓		450	PUMP FLOCHIK-21
	2334	6	5		✓		450	PUMP SPACER
	2336							PLUG RH-MH
	2340	6	55		✓		350	MIX CEMENT
	2352							WASH OUT PUMP - LINES
	2352							RELEASE PLUG
	2355	6 1/2	0		✓			DISPLACE PLUG
	0015	6	124.6				2000	PLUG DOWN - PSE UP LATCH 2J PLUG
	0020						2000	RELEASE PSE - HEAD - OK
								WASH UP
	0100							JOB COMPLETE

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KCC WICHITA

THANK YOU  
LAWRE, DUSTY, BLAKE



**ORIGINAL**

Date 1-31-04 District med lodge Ticket No. 14033  
 Company American warrior Rig Duke 7  
 Lease 3 rd Well No. 4  
 County Comanche State \_\_\_\_\_  
 Location 10100 A + 11 11000 S Field \_\_\_\_\_  
11200 - 25 - 20 - 5/S

CASING DATA: PTA  Squeeze   
 Surface  Intermediate  Production  Liner   
 Size 8 5/8 Type \_\_\_\_\_ Weight 24 Collar \_\_\_\_\_

**KCC**

Casing Depths: Top \_\_\_\_\_ Bottom MAR 05 2004

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Drill Pipe: Size 4 1/2 Weight 16.60 Collars x hole  
 Open Hole: Size 12 1/4 T.D. 625 ft. P.B. to \_\_\_\_\_ ft.

CAPACITY FACTORS:

Casing: Bbls/Lin. ft. 0637 Lin. ft./Bbl. 15.70  
 Open Holes: Bbls/Lin. ft. 1458 Lin. ft./Bbl. 6.8599  
 Drill Pipe: Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_  
 Annulus: Bbls/Lin. ft. 0735 Lin. ft./Bbl. 13.6037  
 Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_  
 Perforations: From \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Amt. \_\_\_\_\_

CEMENT DATA:

Spacer Type: \_\_\_\_\_  
 Amt. \_\_\_\_\_ Sks Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG  
TOP OUT W/ 200 SX A + 3%CC

LEAD: Pump Time \_\_\_\_\_ hrs. Type ALW  
3%CC + 1/4 # Flo-Seal Excess \_\_\_\_\_

Amt. 250 Sks Yield 1.98 ft<sup>3</sup>/sk Density 12.8 PPG

TAIL: Pump Time \_\_\_\_\_ hrs. Type CLASS A  
3%CC + 2% Gel Excess \_\_\_\_\_

Amt. 200 Sks Yield 1.34 ft<sup>3</sup>/sk Density 15.2 PPG

WATER: Lead 16.9 gals/sk Tail 6.5 gals/sk Total \_\_\_\_\_ Bbls.

Pump Trucks Used 368 - B. 11  
 Bulk Equip. 363 - Larry G

Float Equip: Manufacturer \_\_\_\_\_  
 Shoe: Type \_\_\_\_\_ Depth \_\_\_\_\_  
 Float: Type Baffle Plate Depth \_\_\_\_\_  
 Centralizers: Quantity \_\_\_\_\_ Plugs Top \_\_\_\_\_ Btm. \_\_\_\_\_  
 Stage Collars \_\_\_\_\_  
 Special Equip. 2 Baskets  
 Disp. Fluid Type Fresh H<sub>2</sub>O Amt. 37 Bbls. Weight 8.3 PPG  
 Mud Type Native Weight 91 PPG

COMPANY REPRESENTATIVE Ken McGuire

CEMENTER Larry Dredling

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	
10:15	—					Pipe on Bottom - Break Circ
10:45	200		88		6	Pump 250 SX ALW + 3%CC
	250		24		5	1/4 # Flo-Seal/SX
11:15	300		37		4	Pump 100 SX A + 3%CC + 2% Gel
						Release Plug
						Displace Plug w/ 37 Bbls H <sub>2</sub> O
						Bump Plug Shut In
12:30	50		24		4	Did not Circ
						Top out w/ 100 SX A 3%CC + 2% Gel
						Cement came up 15' from surface
						Falling Back
3:15 PM	50		11		3	Pump 50 SX A + 3%CC - fell BACK 20'
4:15 PM	50		11		3	Pump 50 SX A + 3%CC - fell BACK
7:00	50		16		3	Pump 75 SX A + 3%CC - falling BACK slow
9:00	50		5		3	Pump 25 SX A + 3%CC
						Cement In Cellar

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