

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

API NO. 15- 189-22278-0000

County STEVENS RECEIVED
KANSAS CORP COM

W/2 - W/2 - E/2 - NE Sec. 29 Twp. 32 Rge. 37 X W

Operator: License # 4549

1320 Feet from WX (circle one) Line of Section

Name: ANADARKO PETROLEUM CORPORATION

1080 Feet from EX (circle one) Line of Section

Address P. O. BOX 351

Footages Calculated from Nearest Outside Section Corner:

City/State/Zip LIBERAL, KANSAS 67905-0351

NE, SE, NW or SW (circle one)

Lease Name HJV-SPRING "A" Well # 1

Purchaser: ANADARKO ENERGY SERVICES

Field Name GENIZLER NORTH

Operator Contact Person: DAVID W. KAPPLF

Producing Formation MORROW

Phone (316) 624-6253

Elevation: Ground 3140.6 KB

Total Depth 6500 PBDT 6123

Contractor: Name: NORSEMAN DRILLING

Amount of Surface Pipe Set and Cemented at 1743 Feet

License: 3779 **KCC**

Multiple Stage Cementing Collar Used? X Yes No

Wellsite Geologist: JUN 17

If yes, show depth set 3198 Feet

Designate Type of Completion

If Alternate II completion, cement circulated from

X New Well Re-Entry **CONFIDENTIAL**

feet depth to w/ sx cmt.

 Oil SWD SIOW Temp. Abd.

X Gas ENHR SIGW

 Dry Other (Core, WSW, Expl., Cathodic, etc)

Drilling Fluid Management Plan AM-1-8-11-98 UC
(Data must be collected from the Reserve Pit)

If Workover:

Operator: **CONFIDENTIAL**

Chloride content 700 ppm Fluid volume 700 bbls

Well Name: **CONFIDENTIAL**

Desalting method used DRY, BACKFILL & RESTORE LOCATION

Comp. Date Old Total Depth

Location of fluid disposal if hauled offsite:

 Deepening Re-perf. Conv. to Inj/SWD

 Plug Back PBDT

 Commingled Docket No.

 Dual Completion Docket No.

 Other (SWD or Inj?) Docket No.

Operator Name:

Lease Name License No.

 Quarter Sec. Twp. S Rng. E/W

3-5-98 3-16-98 4-23-98

County Docket No.

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.

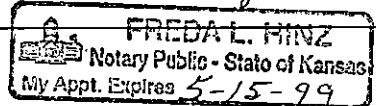
Signature L. Marc Harvey
L. MARC HARVEY

Title DRILLING TECHNICAL ASSISTANT Date 6-17-98

Subscribed and sworn to before me this 17th day of June 1998.

Notary Public Freda L. Minz

Date Commission Expires



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)

SIDE TWO

Operator Name ANADARKO PETROLEUM CORPORATION Lease Name HJV-SPRING "A" Well # 1

Sec. 29 Twp. 32 Rge. 37 East County STEVENS
 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 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: SBT-CCL-GR, DIL, ML, CNL-LDT,
 SONIC.

Log Formation (Top), Depth and Datums Sample

Name	Top	Datum
MARMATON	4892	
CHEROKEE	5090	
MORROW	5592	
CHESTER	6050	
STE. GENEVIEVE	6154	
ST. LOUIS	6340	
SPERGEN	6412	

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"	23.0	1743	P+ MIDCON 2/ P+	415/100	3%CC, 1/4#SKFLC/ 2%CC, 1/4#SKFLC.
PRODUCTION	7-7/8"	5-1/2"	15.5	6165	50/50 POZ	25/130	.75% HALAD 322, 10% SALT, 1/4#/SK FLC/ 4#SK CALSEAL, 1%CC, 10% SALT, 1/4#SK FLC.
			FO TOOL @	3198	P+ MIDCON 2	60	2%CC, 1/4#SK FLC.

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	
	4	5990-6020.		ACID: 1600 GAL 7% HCL.
3	5964-5978.		ACID: 700 GAL 7% HCL.	5964-5978
			FRAC: 42000 GAL FMD GEL & 112000# 20/40	5964-5978
			SD.	
TUBING RECORD	Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj. 5-28-98		Producing Method <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 302 Mcf	Water 0 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 Other (Specify) _____

Production Interval: 5964-6020 (OA)



JOB SUMMARY 4239-1

REGION North America	NW/COUNTRY USA	TICKET # 234055	TICKET DATE 3-6-98
MBU ID / EMP # LTC10 113115	EMPLOYEE NAME NICK KORB	BDA / STATE KANSAS	COUNTY STEVENS
LOCATION Liberal, KS	COMPANY AWARD MARK PETROLEUM CORP	PSL DEPARTMENT 5001	CUSTOMER REP / PHONE
TICKET AMOUNT \$15234.99	WELL TYPE 02	API / UWI # 15-189-222780000	JOB PURPOSE CODE 010
WELL LOCATION 3 1/2 N Hugoton	DEPARTMENT 5001	SEC / TWP / RNG 29-32S-37W	
LEASE / WELL # HIV SPRING A-1			

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
Nick Korb 113115			
Carly Humphries 11902			
Chris Hancey 11406			
Mike Dulworth 69510			

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
38212 P.U.	78						
52947-75496 P.U.	78						
51984-77031 B.T.	7						
50866-6610 B.T.	7						

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

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY	MAKE
Float Collar INSERT	1	H
Float Shoe 7 1/2 TUBE	1	O
Guide Shoe Reg 8 5/8	1	W
Centralizers S-4	4	C
Bottom Plug	0	O
Top Plug	1	
Head BASKET	1	
Packer	0	
Other	0	

MATERIALS

Treat Fluid _____	Density _____	Lb/Gal _____
Disp. Fluid _____	Density _____	Lb/Gal _____
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	TIME	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
		3-6-98	3-6-98	3-6-98	3-6-98
		1030	1300	1700	1800

WELL DATA

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing	New	23#	8 7/8	0	1754	1000psi
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	
3-6-98	5 hrs	3-6-98	1 hr	CEMENT SURFACE CID
TOTAL	5 hr	TOTAL	1 hr	

ORDERED _____	HYDRAULIC HORSEPOWER Avail. _____ Used _____
TREATED _____	AVERAGE RATES IN BPM Disp. _____ Overall _____
FEET 44	CEMENT LEFT IN PIPE Reason sbjt

CEMENT DATA

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
Lead	415	Mason Prem +	B	3% CC 1/4# 710CELE	3.23	111
Tail	100	Prem +	B	3% CC 1/4# 710CELE	1.32	148

Circulating Breakdown _____	Displacement Maximum _____	Preflush: Gal - BBI _____	Type _____
Average Shut In: Instant _____	Frac Gradient 5 Min _____ 15 Min _____	Load & Bkdn: Gal - BBI _____	Pad: BBI - Gal _____
		Treatment Gal - BBI _____	Disp: BBI - Gal 109 bb1
		Cement Slurr Gal - BBI _____	
		Total Volume Gal - BBI 262 bb1	

Frac Ring #1 _____ Frac Ring #2 _____ Frac Ring #3 **1** Frac Ring #4 _____

THE INFORMATION STATED HEREIN IS CORRECT

CUSTOMER'S REPRESENTATIVE SIGNATURE _____



JOB LOG 4239-5

TICKET #	234055	TICKET DATE	3-6-98
REGION	North America	NWA/COUNTRY	Mid Cont. USA
MBU ID / EMP #	L10110 H3115	EMPLOYEE NAME	Nick Korbe
LOCATION	Liberal	COMPANY	Anadarko Petroleum
TICKET AMOUNT	\$15234.99	WELL TYPE	02
WELL LOCATION	3 1/2 N of Hugoton	DEPARTMENT	5001
LEASE / WELL #	HJV Spring A-1	SEC / TWP / RNG	29-32S-37W
BDA / STATE	Ks	PSL DEPARTMENT	5001
COUNTY	Stevens	CUSTOMER REP / PHONE	JACK
API / UWI #	15-189-22270000	JOB PURPOSE CODE	010

HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	N. Korbe H3115	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS		HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS		HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	
	G. Humphries H9892		RELEASED		CONFIDENTIAL		JUN 17
	C. Ashley 44061						CONFIDENTIAL
	M. Longworth 69510						

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	1030							called out
	1300							on loc held safety mtg set up Trks
								rig pulling D.P.
	1530							start F.E.
	1630							Drop Ball
	1645							Break circ.
	1656	6.5	0			200		start L.cmt 415sks 11.1 gal
	1731	6.5	239/0			50		start Ti.cmt 100sks 11.8 gal
	1737		23			0		end cmt
	1739							release plug
	1740	6.5	0			0		start disp
	1800	2	108.5			39550		Bump plug release pres. FIT did not hold shut in
	1801							
								circ 180 sks cmt 103 bbl
								RELEASED
								wash up Trk rack up Trk
								SEP 28 1999
								Job complete Thank you
								FROM CONFIDENTIAL
								Nick, Gary, Clint, Mike

ORIGINAL



JOB SUMMARY

ORDER NO. 70008

TICKET # 233717

TICKET DATE
COUNTY STEVENS

REGION North America
MBU ID / EMP # LT104 62573
LOCATION LIBERAL KS

NW/COUNTRY MID-CONTINENT
EMPLOYEE NAME JOHN WOODROW
COMPANY ANADARKO PETROLEUM

BDA / STATE KS
PSL DEPARTMENT CEMENT
CUSTOMER REP / PHONE

WELL LOCATION N. HUGOTON
LEASE / WELL # HTV SPRINGS A-1

WELL TYPE 02
DEPARTMENT CEMENT
SEC / TWP / RING 29-32S-37W

API / UWI # 189-222780000
JOB PURPOSE CODE Q35-5/2 LONG STRING

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
S. RAINES H3377			KCC
M. LONGWORTH G9510			
	RELEASED	CONFIDENTIAL	JUN 17

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
53554/76900	68	SEP 28 1999					
52827/6616	6						
		FROM CONFIDENTIAL		ORIGINAL			

Form Name _____ Type: _____
 Form Thickness _____ From _____ To _____
 Packer Type PORT COLLAR Set At 3198
 Bottom Hole Temp. _____ Pressure _____
 Misc. Data _____ Total Depth 6500

DATE TIME	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
3-17-98 1200	3-17-98	3-17-98 1500	3-17-98 2327	3-18-98 0000

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY	MAKE
Float Collar TALSERT 5/2	1	
Float Shoe		
Guide Shoe REG 5/2	1	
Centralizers S-4 5/2	17	
Bottom Plug		
Top Plug S-4 5/2	1	
Head P/C		
Packer PORT COLLAR 5/2	1	
Other BASKET	1	

WELL DATA

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing	N	155	5/2	KB	6181	
Liner						
Liner						
Tbg/D.P.						
Tbg/D.P.						
Open Hole						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 _____	
Perpac Balls _____	Qty. _____	
Other _____		
Other _____		
Other _____		
Other _____		

HOURS ON LOCATION		OPERATING HOURS		DESCRIPTION OF JOB
DATE	HOURS	DATE	HOURS	
				BAKER PORT COLLAR PT# 05022654800 WC# 700668-1400 SLOT 7" LONG 3/4" SLOT
TOTAL		TOTAL		

HYDRAULIC HORSEPOWER

ORDERED _____ Avail. _____ Used _____

AVERAGE RATES IN BPM

TREATED _____ Disp. _____ Overall _____

CEMENT LEFT IN PIPE

FEET 34 Reason SLOE JOINT

CEMENT DATA

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
	25	PREM 5950 P2 B	B	10% SALT, 0.75% HNA, 0.322, 1/4 FLOCLE		10.0
	130	PREM 5950 P2 B	B	10% SALT, 4' GM-SEN, 1.8 CC, 1/4 FLOCLE	1.33	14.4

Circulating _____	Displacement _____	Preflush: Gal - BBI 12	Type SUPER FLUSH
Breakdown _____	Maximum _____	Load & Bkdn: Gal - BBI	Pad: BBI - Gal
Average _____	Frac Gradient _____	Treatment Gal - BBI	Disp: BBI - Gal 146
Shut In: Instant _____	5 Min _____ 15 Min _____	Cement Slurr Gal - BBI 10 LC 31TC	
		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 _____



JOB LOG

ORDER NO. 70006

TICKET # **233717**

TICKET DATE

REGION North America	NWA/COUNTRY MID CONTINENT	BDA / STATE KS	COUNTY STEVENS
MBU ID / EMP # LT/04 23572	EMPLOYEE NAME ROYAL WOODROW S	PSL DEPARTMENT CEMENT	ORIGINAL
LOCATION W. BROWN KE 2AIN	COMPANY ANADARKO PETROLEUM	CUSTOMER REP / PHONE WICAS COR	
TICKET AMOUNT	WELL TYPE HE2	API / UWI # 189-222780000	
WELL LOCATION N. W. 1/4 Sec 31 T. 17 N. R. 18 W.	DEPARTMENT CEMENT	JOB PURPOSE CODE 035- 5/2 LUMP STAIN	
LEASE / WELL # H-TV SPRINGS A-1	SEC / TWP / RNG 24-32S-37W		

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
S. KAINES H3377		SEP 28 1999	JUN 17
M. LOWERY H3310			

CONFIDENTIAL

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	1600							JOB READY
	1700							CALLLED OUT FOR JOB
	1815							PERIOD TRUCK + BULK CMT ON LOCATION RIG LAYING DOWN DRILL PIPE HAVE PRE JOB SITE ASSESSMENT MEETING WAIT ON CAT TO GET EQUIPMENT SPOTTED
	1915							D.P LAYED DOWN LAY DOWN R-11 + M-11
	2145							START RUNNING 5/2" CSG + FLT EQUIPMENT PLACE PORT COLLAR ON #70 BT (3198 FT)
	2230							FINISH RUNNING CASING TO BOTTOM (6165) HOOK UP 5/2" P/C + CIRCULATING IRON START CIRCULATING WITH RIG PUMP Hold SHITTY + PRE JOB MEETING
	2310							PLUG R-11 + M-11 WITH 25 SKS CMT AT 145' GAL THROUGH CIRCULATING / HOOK UP TO PUMP TRUCK JOB PROGRESS
	2321	5.0	8					0/100 pump 8 BBL FRESH WATER SPACER
	2322	5.0	12					100/130 pump 12 BBL SUPER FLUSH
	2325	5.0	8					pump 8 BBL FRESH WATER SPACER
	2327	5.0	12					165' mix 25 SKS SCAVENGER CMT AT 10' GAL
	2329	6.0	31					168' mix 130 SKS TAIL CMT AT 14.4' GAL
	2334							0 THROUGH MIXING CMT / SHUT DOWN WASH OUT PUMP + LINES / RELEASE PLUG
	2335							
	2336	6.5						0/100 START DISPLACING
	0000		148					314/2500 PLUG DOWN / PRESSURE UP ON CSG TO 2500' / psi RELEASE FLOAT FLOAT HELD

THANK YOU FOR CALLING HALLIBURTON
WOODY + CREW



JOB SUMMARY 4239-1

TICKET # 231771	TICKET DATE 4-1-98
BDA / STATE KANSAS	COUNTY STEVENS
PSL DEPARTMENT CEMENT	
CUSTOMER REP / PHONE	
API / UWI #	
JOB PURPOSE CODE 205	ORIGINAL

REGION North America	NWA/COUNTRY MID CONTINENT
MBO ID / EMP # L20105 H3377	EMPLOYEE NAME STERLING RAINES
LOCATION LIBERAL KS.	COMPANY ANADARKO
TICKET AMOUNT	WELL TYPE 02
WELL LOCATION HUGOTON	DEPARTMENT CEMENT
LEASE / WELL # HTV SPRINGS #A-1	SEC / TWP / RNG

HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS R. ELWOOD D4560	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS
--	--	--	--

CONFIDENTIAL

JUN 17

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
470041	76						
53552-78202	76						

RELEASED

SEP 28 1999

CONFIDENTIAL

FROM CONFIDENTIAL

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

	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE	4-1-98	4-1-98	4-1-98	4-1-98
TIME	05:00	08:00	10:43	11:52

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY	MAKE
Float Collar		
Float Shoe		
Guide Shoe		
Centralizers		
Bottom Plug		
Top Plug		
Head		
Packer		
Other		

WELL DATA

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing						
Liner						
Liner						
Tbg/D.P.	USED	10.6	2 3/8	0	52.00	
Tbg/D.P.						
Open Hole						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	
				PORT CALL
TOTAL		TOTAL		

HYDRAULIC HORSEPOWER

ORDERED _____ Avail. _____ Used _____

TREATED _____ **AVERAGE RATES IN BPM** _____ Overall _____

FEET _____ **CEMENT LEFT IN PIPE** _____ Reason _____

CEMENT DATA

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
	66	MICACAPAC	2 1/2	27% CC 1/4 # FLOCCULE	3.22	11.1

Circulating _____	Displacement _____	Flush: _____	Gal - BBI 20	Type _____
Breakdown _____	Maximum _____	Load & Bkdn: _____	Gal - BBI _____	Pad: BBI - Gal _____
Average _____	Frac Gradient _____	Treatment _____	Gal - BBI _____	Disp: BBI - Gal 12.39
Shut In: Instant _____	5 Min _____	Cement Slurr _____	Gal - BBI 34.41	
	15 Min _____	Total Volume _____	Gal - BBI 92.62	

Frac Ring #1 _____ Frac Ring #2 _____ Frac Ring #3 _____ Frac Ring #4 _____

THE INFORMATION STATED HEREIN IS CORRECT

CUSTOMER'S REPRESENTATIVE SIGNATURE _____

