

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

API NO. 15- 189-22337-0000

County STEVENS
70' N & 80' W OF:
C - NE - SW Sec. 30 Twp. 32S Rge. 38 X W

CONFIDENTIAL

Operator: License # 4549

2050 Feet from X (5) (circle one) Line of Section

Name: ANADARKO PETROLEUM CORPORATION

1900 Feet from X (4) (circle one) Line of Section

Address P. O. BOX 351

Footages Calculated from Nearest Outside Section Corner:
NE, SE, NW or (SW) (circle one)

City/State/Zip LIBERAL, KANSAS 67905-0351

Lease Name SHAFFER "D" Well # 2

Purchaser: NATIONAL COOPERATIVE REFINING ASSOCIATION

Field Name WILDCAT

Operator Contact Person: SHAWN YOUNG

Producing Formation MORROW

Phone (316) 624-6253

Elevation: Ground 3202 KB

Contractor: Name: BIG "A" DRILLING

Total Depth 6400 PBDT 6000

License: 31572

Amount of Surface Pipe Set and Cemented at 1670 Feet

Wellsite Geologist: 8-9-00

Multiple Stage Cementing Collar Used? X Yes No

Designate Type of Completion
X New Well Re-Entry Workover

If yes, show depth set 3075 Feet

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

If Alternate II completion, cement circulated from

feet depth to w/ sx cmt.

If Workover:

Drilling Fluid Management Plan ALT 1 5/19/01 KB
(Data must be collected from the Reserve Pit)

Operator: AUG 07 2000

Chloride content 4200 ppm Fluid volume 700 bbls

Well Name: CONFIDENTIAL

Dewatering 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
 Comingled Docket No.
 Dual Completion Docket No.
 Other (SWD or Inj?) Docket No.

Operator Name

Lease Name License No.

5/9/2000 5/31/2000 7/10/2000

Quarter Sec. Twp. S Rng. E/W

Spud Date Date Reached TD Completion Date

County Docket No.

RECEIVED
STATE CORPORATION COMMISSION

AUG - 9 2000

KCC

AUG 07 2000

CONFIDENTIAL

RELEASED

AUG 07 2001

FROM CONFIDENTIAL

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 8-7-2000

Subscribed and sworn to before me this 7th day of August
20 00.

Notary Public Shirley Childers

Date Commission Expires

NOTARY PUBLIC - State of Kansas
SHIRLEY J. CHILDERS
My Appt. Exp. 11/4/02

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 Name ANADARKO PETROLEUM CORPORATION Lease Name SHAFFER "D" Well # 2

Sec. 30 Twp. 32S Rge. 38 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: CBL-CCL-GR, DIL, CNL-LDT, ML, LS SONIC.

<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datums <input type="checkbox"/> Sample		
Name	Top	Datum
CHASE	2434	
COUNCIL GROVE	2761	
B/HEEBNER	3988	
MARMATON	4756	
MORROW	5524	
CHESTER	6028	
STE. GENEVIEVE	6144	
ST. LOUIS	6226	

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
CONDUCTOR	17-1/2"	13-3/8"	40.0	547	CLASS C/C.	190/100	3D29, 2D46, .5D29/2S1, .25D29.
SURFACE	12-1/4"	8-5/8"	23.0	1670	CLASS C/C.	420/100	3D29, 2D46, .5D29/2S1, .25D29.
PRODUCTION	7-7/8"	5-1/2"	15.5 DV TOOL @	385 5308	50/50 POZ/ P+ MIDCON/ P+ MIDCON	275/ 290/ 50	1) 10% SALT, 4% CALSEAL .75% H322, 1/4#/SK CF/ 2) 2CC, 1/2#/SK CF/ 2CC, 1/4#/SK CF.

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	1670-1852	CLASS C	100/50	3D29, .25D46/3% S1.
<input type="checkbox"/> Plug Back TD				
<input checked="" type="checkbox"/> Plug Off Zone	1670-2088	CLASS C	100/50	NEAT/3% CC.

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	6250-60, CIBP @ 6240.		
4	6005-12, CMT RET @ 6000.			
6	5886-96.		ACID: 1000 GAL 7-1/5% HCL.	5886-96.
			FRAC: 25000 GAL GEL & 72000# 16/30 SD.	5886-96.
TUBING RECORD	Size 2 7/8"	Set At 5896	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj. 7/13/2000		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 50 Bbls.	Gas 59 Mcf	Water 93 Bbls.	Gas-Oil Ratio 1180 Gravity 42.5

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: 5886-96.

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Service Order

12-May-00

Customer ANADARKO PETROLEUM CORPORATI		Person Taking Call Stephen Cole		Dowell Location Ulysses, KS		Order Date 5/2/00		Job Number 20156694	
Well Name and Number SHAFFER D-2		Legal Location 30-32S-38W		Field WILDCAT		County STEVENS		State/Province KS	
Rig Name BIG A DRILLING 2		Well Age New		Sales Engineer Stephen Cole		Job Type Cem Conductor Casing			
Time Well Ready:		Deviation 0 °		Bit Size 17 in		Well MD 1,700 ft		Well TVD 1,700 ft	
BHP psi		BHST 80 °F		BHCT 80 °F					
Treat Down Casing		Packer Type None		Packer Depth ft		WellHead Connction 13 3/8 HS &M		HHP on Location 0	
Max Allowed Pressure		Max Allowed Ann Pressure							
Casing					Services Instructions:				
Depth, ft	Size, in	Weight, lb/ft	Grade	Thread	12 1/4" hole to 1600 ft.				
650	13.38	48		8RD	17" hole to approx 650' (reamed out)				
					Set 13 3/8" casing @ 650' inside 17" hole				
					190 sk lead @ 11.4 ppg				
					100 sk tail @ 14.8 ppg				
Tubing					Extra Equipment:				
Depth,	Size, in	Weight, lb/ft	Grade	Thread	13 3/8" FLOAT EQUIPMENT:				
					Orifice fill insert float				
					Tx pattern guide shoe				
					4 centralizers, 1 cement basket				
					Top plastic plug, 1 threadlock kit				
Perforated Intervals					RELEASED				
Top, ft	Bottom, ft	spf	No. of Shots	Total Interval	AUG 07 2001				
				ft					
				Diameter					
				in					

FROM CONFIDENTIAL

Contact	Voice	Mobile	FAX	Notes
Phil Mitchell	316-544-6210	281-543-2334	316-544-6230	Anadarko Foreman
Duane Bell	RIG-482-2257	316-626-9205	316-355-7484	Big A Tool Pusher
Tom Miller	316-629-4502		316-629-4321	Anadarko Engineer

Notes:
 Use pressurized mud scale, as soon as start mixing
 Report any service incidents on RIGS
 catch wet and dry samples

Directions:
 Hugoton, KS - Approx 7 1/2 W on hwy 51 to Feterita - 6 N - 1 W - 3/4 S - E into.

Other Notes:
 Use 50 miles
 charge 200 total mile, for call out yesterday

DATE: 11-11-2010

Comments:

Fluid Systems:

LEAD			
190 Sk C + 3% D79 + 0.2% D46 + 1/2 pps D29			
Density:	11.4 lb/gal	Thickening Time:	
Yield:	2.87 ft ³ /sk	Viscosity:	cp
H2O Mix:	17.7 gal/sk	Break Time:	
H2O:	3363 gal	Eq. Sack Weight:	94 lb
Dowell Code	Concl Amount	Total Quantity	
D029	0.5 lbs/sk	95	
D046	0.2 % BWOB	35.72	
D079	3.0 % BWOB	535.8	
D903 'C'	94 lbs/sk	17860	

TAIL			
100 sk C + 2% S1 + 1/4 pps D29			
Density:	14.8 lb/gal	Thickening Time:	
Yield:	1.32 ft ³ /sk	Viscosity:	cp
H2O Mix:	6.36 gal/sk	Break Time:	
H2O:	636 gal	Eq. Sack Weight:	94 lb
Dowell Code	Concl Amount	Total Quantity	
D029	0.25 lbs/sk	25	
S001	2 % BWOB	188	
D8903 'C'	94 lbs/sk	9400	

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This well to Spud ± 19:00 5-9-00
Should be up wed Afternoon
Service Order 06-May-00

Dowell
Dowell

LOAD wed Morning 5-10-00

Customer ANADARKO PETROLEUM CORPORATI		Person Taking Call Stephen Cole		Dowell Location Ulysses, KS		Order Date 5/2/00		Job Number 20156694											
Well Name and Number SHAHER-D-2			Legal Location 30-32S-38W		Field WILDCAT		County STEVENS		State/Province KS										
Rig Name BIG A DRILLING 2		Well Age New	Sales Engineer Stephen Cole			Job Type Cem Surface Casing													
Time Well Ready:		Deviation 0	BH Size 12.3 in	Well MD 1,700 ft	Well TVD 1,700 ft	BHP pal	BHST 80 °F	BHCT 80 °F											
Treat Down Casing		Packer Type None	Packer Depth ft	Wellhead Connection 8 5/8 HS&M		MHP on Location 0	Max Allowed Pressure		Max Allowed Ann Pressure										
<table border="1"> <thead> <tr> <th>Depth, ft</th> <th>Size, in</th> <th>Weight, lbm</th> <th>Grade</th> <th>Thread</th> </tr> </thead> <tbody> <tr> <td>1700</td> <td>8.63</td> <td>23</td> <td>WC-50</td> <td>8RD</td> </tr> </tbody> </table>					Depth, ft	Size, in	Weight, lbm	Grade	Thread	1700	8.63	23	WC-50	8RD	Services Instructions: 8 5/8" surface casing set @ approx 1,700 ft. 420 sk lead @ 11.4 ppg 100 sk tail @ 14.8 ppg Displace w/ rig water				
Depth, ft	Size, in	Weight, lbm	Grade	Thread															
1700	8.63	23	WC-50	8RD															
<table border="1"> <thead> <tr> <th>Depth, ft</th> <th>Size, in</th> <th>Weight, lbm</th> <th>Grade</th> <th>Thread</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>					Depth, ft	Size, in	Weight, lbm	Grade	Thread						Extra Equipment: 8 5/8 FLOAT EQUIPMENT: Orifice fill insert float Tx pattern guide shoe 4 centralizers, 1 cement basket Top plastic plug, 1 threadlock kit				
Depth, ft	Size, in	Weight, lbm	Grade	Thread															
<table border="1"> <thead> <tr> <th>Top, ft</th> <th>Bottom, ft</th> <th>spf</th> <th>No. of Shots</th> <th>Total Interval ft</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>					Top, ft	Bottom, ft	spf	No. of Shots	Total Interval ft						CONFIDENTIAL RELEASED AUG 07 2000 AUG 07 2001				
Top, ft	Bottom, ft	spf	No. of Shots	Total Interval ft															

Phil Mitchell	316-544-6210	281-543-2334	316-544-6230	
Stephen Cole	316-624-8432	405-880-3386	316-624-8432	
Duane Bell	RIG-482-2257	316-628-9205	316-355-7484	tool pusher

Notes:
 Make notification of any process that fails to meet expectations of customer or SLB.
 Use pressurized mud scale, as soon as start mixing
 catch wet and dry samples

Directions:
 FETERITA - 6N - 1W - 3/4 S - E into

Other Notes:
 Report any service incidents on RIGS like we are supposed to,
 Call and discuss the job w/ Steve Cole after it is completed

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ORIGINAL

Schlumberger
Dowell

Service Order

17-May-00

Customer ANADARKO PETROLEUM CORPORATI		Person Taking Call Stephen Cole		Dowell Location Ulysses, KS		Order Date 5/17/00		Job Number 20159001	
Well Name and Number SHAHER D-2		Legal Location 30-32S-38W		Field WILDCAT		County STEVENS		State/Province KS	
Rig Name big a DRILLING 2		Well Age New		Sales Engineer Stephen Cole		Job Type Open Surface Casing		<i>Sqz Last Casing</i>	
Time Well Ready:		Deviation		Blt Size 7.79 in		Well MD 1,852 ft		Well TVD 1,852 ft	
BHP		BHST		BHCT		psi		80 °F	
Trout Down Casing		Packer Type None		Packer Depth ft		Wellhead Connection 8 5/8 HS&M		HHP on Location 0	
Max Allowed Pressure		Max Allowed Ann Pressure							
Casing					Services Instructions:				
Depth, ft		Size, in		Weight, lb/ft		Grade		Thread	
1665		8.63		24				BRD	
Tubing					100 sk C + 3% D79 + 1/2 pps D29 @ 11.4 ppg 50 sk C + 2% S1 @ 15 ppg				
Depth		Size, in		Weight, lb/ft		Grade		Thread	
0		0		0					
0		0		0					
Perforated Intervals					1670 - 1852' 1st Sqz				
Top, ft		Bottom, ft		spf		No. of Shots		Total Interval	
								ft	
								Diameter	
								in	
Extra Equipment:					8 5/8 HEAD, SWAGE, MAINFOLD TOP WOOD PLUG				

KCC
AUG 07 2000
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Contact	Voice	Mobile	FAX	Notes
Phil Mitchell	316-544-6210	281-543-2334	316-544-6230	
Tom Miller	316-629-4502		316-629-4321	pg 626-0077

Notes:
TAG PLUG W/ SLICK LINE

Directions:

Other Notes:

RELEASED
AUG 07 2001
FROM CONFIDENTIAL

Comments:

Fluid Systems:

LEAD			
100 SK C + 3% D79 + 0.2% D46 + 1/2 PPS D29			
Density:	11.4 lb/gal	Thickening Time:	
Yield:	1.87 ft ³ /sk	Viscosity:	cp
H2O Mix:	17.7 gal/sk	Break Time:	
H2O:	1770 gal	Eq. Sack Weight:	94 lb
Dowell Code	Conc/Amount	Total Quantity	
D029	0.5 lbs/sk	50	
D46	0.2 % BWOB	18.8	
D79	3 % BWOB	282	
D903 'C'	94 lbs/sk	9400	

TAIL			
50 SK C + 2% S1			
Density:	14.8 lb/gal	Thickening Time:	
Yield:	1.32 ft ³ /sk	Viscosity:	cp
H2O Mix:	6.36 gal/sk	Break Time:	
H2O:	318 gal	Eq. Sack Weight:	94 lb
Dowell Code	Conc/Amount	Total Quantity	
S001	2 % BWOB	94	
D903 'C'	94 lbs/sk	4700	

CONFIDENTIAL
 AUG 6 2 50AM
 FROM CONFIDENTIAL

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ORIGINAL

17-May-00



Service Order

Customer ANADARKO PETROLEUM CORPORATI		Person Taking Call Stephen Cole		Dowell Location Ulysses, KS		OrderDate 5/17/00		Job Number 20159001	
Well Name and Number SHAER-D-2		Legal Location 30-32S-38W		Field WILDCAT		County STEVENS		State/Province KS	
Rig Name big a DRILLING 2		Well Age New		Sales Engineer Stephen Cole		Job Type <i>505 Slick Com Surface Gasing - PINE</i>			
Time Well Ready:		Deviation		Bit Size 7.79 in		Well MD 1,852 ft		Well TVD 1,852 ft	
BHP psi		BHST 80 °F		BHCT 80 °F					
Treat Down Casing		Packer Type None		Packer Depth ft		WellHead Connection 8 5/8 HS&M		HHP on Location 0	
Max Allowed Pressure		Max Allowed AnnPressure							
Casing					Services Instructions:				
Depth, ft		Size, in		Weight, lb/ft		Grade		Thread	
1665		8.63		24				BRD	
Tubing					100 sk C + 3% D79 + 1/2 pps D29 @ 11.4 ppg 50 sk C + 2% S1 @ 15 ppg				
Depth,		Size, in		Weight, lb/ft		Grade		Thread	
0		0		0					
0		0		0					
Perforated Intervals					<p><i>1670 - 2008'</i></p> <p><i>2nd Sep</i></p> <p>KCC</p> <p>AUG 07 2000</p> <p>CONFIDENTIAL</p>				
Top, ft		Bottom, ft		spf		No. of Shots		Total Interval	
								ft	
								Diameter	
								in	

Contact	Voice	Mobile	FAX	Notes
Phil Mitchell	316-544-6210	281-543-2334	316-544-6230	
Tom Miller	316-629-4502		316-629-4321	pgr 626-0077

Notes:
TAG PLUG W/ SLICK LINE

Directions:

RELEASED

AUG 07 2001

FROM CONFIDENTIAL

Other Notes:

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ORIGINAL

Comments:

KCC

AUG 07 2000

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Fluid Systems:

LEAD			
190 Sk C + 3% D79 + 0.2% D46 + 1/2 pps D29			
Density:	11.4 lb/gal	Thickening Time:	
Yield:	2.87 ft ³ /sk	Viscosity:	cp
H2O Mix:	17.7 gal/sk	Break Time:	
H2O:	3363 gal	Eq. Sack Weight:	94 lb
Dowell Code	Conc/ Amount	Total Quantity	
D029	0.5 lbs/sk	95	
D046	0.2 % BWOB	35.72	
D079	3 % BWOB	535.8	
D903 'C'	94 lbs/sk	17860	

RELEASED

AUG 07 2001

FROM CONFIDENTIAL

TAIL			
100 sk C + 2% S1 + 1/4 pps D29			
Density:	14.8 lb/gal	Thickening Time:	
Yield:	1.32 ft ³ /sk	Viscosity:	cp
H2O Mix:	6.36 gal/sk	Break Time:	
H2O:	636 gal	Eq. Sack Weight:	94 lb
Dowell Code	Conc/ Amount	Total Quantity	
D029	0.25 lbs/sk	25	
S001	2 % BWOB	188	
D8903 'C'	94 lbs/sk	9400	

TICKET #	660934	TICKET DATE	6-1-00
BDA / STATE	KS	COUNTY	STEVENSON
PSL DEPARTMENT	ZI	ORIGINAL	
CUSTOMER REP / PHONE	JIM BARLOW		
API / UWI #	15-189-22337-	KCC	
JOB PURPOSE CODE	035		

REGION	North America	NWA/COUNTRY	USA
MBU ID / EMP #	MYCL10103 106304	EMPLOYEE NAME	T. DAVIS
LOCATION	Liberal KS	COMPANY	HALLIBURTON MEX CORP.
TICKET AMOUNT	18,664.90	WELL TYPE	OZ
WELL LOCATION	Land: N.W. Houston	DEPARTMENT	ZI
LEASE / WELL #	Shater O-2	SEC / TWP / RNG	30-32-30

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
T. DAVIS 106304 8			
H. Zimmerman 17			
J. Steinkamp 17			
K. ELWOOD 9			

RELEASED

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
54219-70299	80						
52938-75821	10						

FROM CONFIDENTIAL

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		M
Float Shoe		
Guide Shoe Part 001148	1	O
Centralizers 54 5 1/2	9	
Bottom Plug		W
Top Plug Set Av.	1	
Head P.C.	1	C
Packer D.U. TOOL	1	
Other BQSKPF	2	O

MATERIALS

Treat Fluid	Density	Lb/Gal
Disp. Fluid	Density	Lb/Gal
Prop. Type	Size	Lb.
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.	

DATE	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
6-1-00	1430	6-1-00	6-2-2000	6-2-2000
			4:40	11:17

WELL DATA

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing	N	15.5	5 1/2	K.B.	6380	
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	
				CMT
				5 1/2 L.S.
TOTAL		TOTAL		

HYDRAULIC HORSEPOWER

ORDERED	Avail.	Used
TREATED	AVERAGE RATES IN BPM	
FEET 42	Disp.	Overall
	CEMENT LEFT IN PIPE	
	Reason	J.J

CEMENT DATA

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
1	275	Premium	B	10% salt, 4% Laseal, .75% Halad 322, 1/4" Flocel.	1.33	14.4
2	285	Ptmc	B	2% CC, 1/2" Flocel.	3.22	11.1
2	50	Ptmc	B	" " " "	1.22	13.1
2	25	"	"	" " Plug run in module hole.	1.22	13.1

Circulating _____	Displacement _____	Preflush: Gal (BB) 70	Type mud fluid 11/20
Breakdown _____	Maximum _____	Load & Bkdn: Gal - BB	Pad: BB - Gal
Average _____	Frac Gradient _____	Treatment Gal - BB	Disp (BB) Gal
Shut In: Instant _____	5 Min _____ 15 Min _____	Cement Slurr Gal (BB)	
		Total Volume Gal - BB	

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



HALLIBURTON CONFIDENTIAL

ORDER NO. 70006

TICKET #

6609311

TICKET DATE

6-1-00

REGION North America	NWA/COUNTRY USA	BOA / STATE TX	COUNTY DALLAS
NBU ID / EMP # 116007 16704	EMPLOYEE NAME T. J. G. U. S.	PSL DEPARTMENT 7E	ORIGINAL
LOCATION 116007 16704	COMPANY Halliburton	CUSTOMER REP / PHONE 116007 16704	
TICKET AMOUNT	WELL TYPE	API / UWI #	KCC
WELL LOCATION	DEPARTMENT 7E	JOB PURPOSE CODE 1735	AUG 07 2000
LEASE / WELL #	SEC / TWP / RNG		CONFIDENTIAL

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
116007 16704 8			
116007 16704 17			
116007 16704 17			
116007 16704 9			

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	1430							Called out for job
	1800							on loc. with L.P. R.P.
	2145							Out of hole w/ L.P. R.P. up covers.
	2230							Start 5/2 C.S. & E.
6-2-2000	01:30							AUG 07 2001 Put D.V. Tool on JT #79194 30744
	02:30							Put port collar on JT #11394
	4:13							FROM CONFIDENTIAL Casing on bottom
	4:23							Circulate w/ Rq
	4:40							Hook to Halliburton
	4:45					3000		Press Test Pumps & Lines
	4:47		8			500		Start H ₂ O Preflush
	4:51		10			500		Start H ₂ O Mud Flush
	5:00		8			500		Start H ₂ O Preflush
	5:04		65			500		Start Cmt @ 14.4 #/gal
	5:13					100		Shut Down
	5:14					UNC		Drop shot off Plug
	5:14		80			UNC		Start H ₂ O Displacement
	5:37		71			100		Start Mud Displacement
	5:50					2000		Plug Down
	5:51					2000		Press Test Casing
	5:52					0		Release Back
	5:56					0		Drop Bomb
	6:25					100		Open D.V. Tool
	6:25							Circulate w/ Rq
								2 nd Stage
	8:30							Hook to Halliburton
	8:32					2000		Press Test
	8:35		163			2000		Start Lead Cmt @ 11.1 #/gal
	8:55		17			100		Start Tail Cmt @ 13.1 #/gal
	8:59					UNC		Drop Closing Plug / Wash To Bit
	9:03		73.16			UNC		Start H ₂ O Displacement
	9:20					500		Plug Down Close D.V. Tool
	9:30					2000		Release Back
	9:30					0		
	9:30		3.5					Plug Rat Hole
	9:45		4					Plug Mouse Hole
	9:50							Job Complete

THANK You For Calling
HALLIBURTON

Comments:

[Empty rectangular box for comments]

Fluid Systems:

LEAD			
420 Sk C + 3% D79 + 0.2% D46 + 1/2 pps D29			
Density:	11.4 lb/gal	Thickening Time:	
Yield:	2.87 ft ³ /sk	Viscosity:	cp
H2O Mix:	17.7 gal/sk	Break Time:	
H2O:	7434 gal	Eq. Sack Weight:	94 lb
Dowell Code	Concl/ Amount	Total Quantity	
D029	0.5 lbs/sk	210	
D046	0.2 % BWOB	78.96	
D079	3 % BWOB	1184.4	
D903 'C'	94 lbs/sk	39480	

TAIL			
100 sk C + 2% S1 + 1/4 pps D29			
Density:	14.8 lb/gal	Thickening Time:	
Yield:	1.32 ft ³ /sk	Viscosity:	cp
H2O Mix:	6.36 gal/sk	Break Time:	
H2O:	636 gal	Eq. Sack Weight:	94 lb
Dowell Code	Concl/ Amount	Total Quantity	
D029	0.25 lbs/sk	25	
S001	2 % BWOB	188	
D8903 'C'	94 lbs/sk	9400	

KCC
AUG 07 2000
CONFIDENTIAL

RELEASED

AUG 07 2001

FROM CONFIDENTIAL

CONFIDENTIAL

ORIGINAL

Comments:

KCC

AUG 07 2000

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Fluid Systems:

LEAD			
100 SK C + 3% D79 + 0.2% D46 + 1/2 PPS D29			
Density:	11.4 lb/gal	Thickening Time:	
Yield:	1.87 ft ³ /sk	Viscosity:	cp
H2O Mix:	17.7 gal/sk	Break Time:	
H2O:	1770 gal	Eq. Sack Weight:	94 lb
Dowell Code	Conc/ Amount	Total Quantity	
D029	0.5 lbs/sk	50	
D046	0.2 % BWOB	18.8	
D079	3 % BWOB	282	
D903 'C'	94 lbs/sk	9400	

TAIL			
50 SK C + 2% S1			
Density:	14.8 lb/gal	Thickening Time:	
Yield:	1.32 ft ³ /sk	Viscosity:	cp
H2O Mix:	6.36 gal/sk	Break Time:	
H2O:	318 gal	Eq. Sack Weight:	94 lb
Dowell Code	Conc/ Amount	Total Quantity	
S001	2 % BWOB	94	
D903 'C'	94 lbs/sk	4700	

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AUG 07 2001
FROM CONFIDENTIAL