

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

Operator: License # 4549

Name: ANADARKO PETROLEUM CORPORATION

Address P. O. BOX 351

City/State/Zip LIBERAL, KANSAS 67905-0351

Purchaser: ANADARKO ENERGY SERVICES

Operator Contact Person: DAVID W. KAPPLF

Phone (316) 624-6253

Contractor: Name: CHEYENNE DRILLING

License: 5382

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:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

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

8-14-97 8-25-97 10-13-97
Spud Date Date Reached TD Completion Date

API NO. 15- 129-21529-00-00

County MORTON

SW - SW - NE - SE Sec. 35 Twp. 34 Rge. 42 E W

1450 Feet from (circle one) Line of Section

1250 Feet from (circle one) Line of Section

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

Lease Name WATSON "B" Well # 2

Field Name GREENWOOD

Producing Formation TOPEKA

Elevation: Ground 3510.7 KB _____

Total Depth 3675 PBDT 3160

Amount of Surface Pipe Set and Cemented at 328 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set 1263 Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan Att. 1, 4-20-98 U.C.
(Data must be collected from the Reserve Pit)

Chloride content 3500 ppm Fluid volume 400 bbls

Dewatering method used DRY, BACKFILL & RESTORE LOCATION

Location of fluid disposal if hauled offsite: 11-20-97

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 L. Marc Harvey
L. MARC HARVEY
Title DRILLING TECHNICAL ASSISTANT Date 11-19-97

Subscribed and sworn to before me this 19th day of November 1997.

Notary Public Freda L. Hinz
Date Commission Expires _____

FREDA L. HINZ
Notary Public - State of Kansas
My Appt. Expires 5-15-99

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 WATSON "B" Well # 2

Sec. 35 Twp. 34 Rge. 41 East County MORTON
 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 checked="" type="checkbox"/> No Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run (Submit Copy.) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No List All E.Logs Run: SBT-CCL-GR, GR-NEUTRON.	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datums <input type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">Name</td> <td style="width:20%;">Top</td> <td style="width:20%;">Datum</td> </tr> <tr> <td>B/CIMARRON</td> <td>1460</td> <td></td> </tr> <tr> <td>WABAUNSEE</td> <td>2738</td> <td></td> </tr> <tr> <td>TOPEKA</td> <td>2941</td> <td></td> </tr> </table>	Name	Top	Datum	B/CIMARRON	1460		WABAUNSEE	2738		TOPEKA	2941	
Name	Top	Datum											
B/CIMARRON	1460												
WABAUNSEE	2738												
TOPEKA	2941												

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"	23.0	328	CLASS C/ CLASS C.	10/100	16%GEL, 3%SALT, 1/4# SK F/ 2%CC 1/4#SK F.
PRODUCTION	7-7/8"	5-1/2"	15.5	3662	35/65 POZ/ CLASS H.	35/145	.6%GEL, 2%CC, F/ 10%GYP, 10% SALT, 5% FL-2, 1/4# SK F.
			F.O. TOOL @	1263	P+ MIDCON 2	120	3%CC, 1/4#SK F.

ADDITIONAL CEMENTING/SQUEEZE RECORD					
Purpose:	Depth		Type of Cement	#Sacks Used	Type and Percent Additives
	Top	Bottom			
<input type="checkbox"/> Perforate <input checked="" type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone		3024	PREM CLASS H	50	.6% HALAD 9.
		2900	PREM CLASS H	50	.6% HALAD 9.

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type		Acid, Fracture, Shot, Cement Squeeze Record	
	Specify Footage of Each Interval Perforated		(Amount and Kind of Material Used)	Depth
4	3504-3516, CIBP @ 3460.		ACID: 900 GAL 15% FeHCL.	3504-3516
3	3202-3210, CIBP @ 3160.		ACID: 600 GAL 15% FeHCL.	3202-3210
4	2996-3006		ACID: 600 GAL 15% FeHCL.	2996-3006
4	3020-3028, 3054-3068.		ACID: 2400 GAL 15% FeHCL. ACID FRAC: 15000 GAL FOAMED 15% FeHCL.	2996-3068 (OA) 2996-3068 (OA)
TUBING RECORD	Size 2 3/8"	Set At 3087	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj. 10-23-97		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 Mcf	Water Bbls. Gas-Oil Ratio Gravity
			121	

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: 2996-3068 (OA)



CEMENT JOB REPORT

ORIGINAL

Page of

CUSTOMER: <u>Arnold</u>	DATE: <u>8-14-97</u>	F.R.#: <u>086510</u>	SERV. SUPV.: <u>Arnold</u>
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LEASE & WELL NAME-OCSG: <u>Wgtson B 2</u>	LOCATION: <u>Src 35-345-42W</u>	COUNTY-PARISH-BLOCK: <u>Moriton KS</u>
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DISTRICT: <u>Reighton Tx</u>	DRILLING CONTRACTOR RIG #: <u>Cheyene 7</u>	TYPE OF JOB: <u>Surf</u>
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SIZE & TYPE OF PLUGS		LIST-CSG-HARDWARE	PHYSICAL SLURRY PROPERTIES					
TOP	<u>8 5/8 Rubber</u>	<u>Insert Float</u>	SLURRY WGT PPG	SLURRY YLD FT ³	WATER GPS	PUMP TIME HR:MIN	Bbl SLURRY	Bbl MIX WATER
BTM	<u>4. Cent</u>	<u>Basket</u>						

MATERIALS FURNISHED BY BJ

<u>40sx "C" + 16.86c/l + 3% salt + 1.25 1/8x</u>	11.4	3.89	20.9	24	20
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Cello Flake

<u>100sx "C" + 2% CaCl₂ + 1/4 1/8x Cello Flake</u>	14.8	1.34	6.32	24	15
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Available Mix Water: <u>250</u> Bbl.	Available Displ. Fluid: <u>200</u> Bbl.	TOTAL: <u>48</u> <u>35</u>
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HOLE			TBG-CSG-D.P.			TBG-CSG-D.P.			COLLAR DEPTHS		
SIZE	% EXCESS	DEPTH	SIZE	WGT.	DEPTH	SIZE	WGT.	DEPTH	SHOE	FLOAT	STAGE
<u>12 1/4</u>	<u>100</u>	<u>328</u>	<u>8 5/8</u>	<u>24</u>	<u>327.82</u>				<u>327.82</u>	<u>285.52</u>	

LAST CASING				PKR-CMT RET-BR PL-LINER		PERF. DEPTH		TOP CONN		WELL FLUID	
SIZE	WGT.	TYPE	DEPTH	BRAND & TYPE	DEPTH	TOP	BTM	SIZE	THREAD	TYPE	WGT.
								<u>8 5/8</u>	<u>8 Rd</u>	<u>Nativ</u>	<u>8.3</u>

CAL. DISPL. VOL-Bbl.			CAL. PSI		OP. MAX		MAX TBG PSI		MAX CSG PSI		DISPL. FLUID		WATER SOURCE
TBG.	CSG.	TOTAL	BUMP PLUG	TO REV.	SQ. PSI	RATED	OP.	RATED	OP.	TYPE	WGT.		
<u>19</u>		<u>19</u>	<u>400</u>								<u>420</u>	<u>8.3</u>	<u>KS</u>

EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING:

PRESSURE/RATE DETAIL						EXPLANATION	
TIME	PRESSURE-PSI		RATE	Bbl. FLUID	FLUID	SAFETY MEETING: BJ CREW <input type="checkbox"/> CO. REP. <input type="checkbox"/>	
HR: MIN.	PIPE	ANNULUS	BPM	PUMPED	TYPE	TEST LINES	
<u>11:10</u>	<u>0-200</u>		<u>0-5</u>	<u>5</u>	<u>H2O</u>	<u>ST H2O</u>	
<u>11:11</u>	<u>200</u>		<u>5</u>	<u>22</u>	<u>Cem</u>	<u>st load slurry</u>	
<u>11:15</u>	<u>200</u>		<u>5</u>	<u>24</u>	<u>Cem</u>	<u>st Tail slurry</u>	
<u>11:21</u>	<u>200-0</u>		<u>5-0</u>	<u>4</u>	<u>H2O</u>	<u>st Tail Displacement Plug</u>	
<u>11:26</u>	<u>0-200</u>		<u>0-4</u>	<u>19</u>	<u>H2O</u>	<u>st Displacement</u>	
<u>11:30</u>	<u>200-800</u>		<u>4-2</u>			<u>Blend</u>	
<u>11:31</u>	<u>800-0</u>					<u>Bleed Off</u>	

BUMPED PLUG (Y.N.)	PSI TO BUMP PLUG	TEST FLOAT EQUIP. (Y.N.)	Bbl. CMT RETURNS/ REVERSED	TOTAL Bbl. PUMPED	PSI LEFT ON CSG	SPOT TOP CEMENT	SERV. SUPV.
	<u>800</u>		<u>5</u>	<u>70</u>	<u>0</u>	<u>Surf</u>	<u>Arnold</u>



CEMENT JOB REPORT

ORIGINAL

CUSTOMER <i>Anadarko</i>	DATE <i>8-25-97</i>	F.R.# <i>086569</i>	SERV. SUPV. <i>Sheets</i>
LEASE & WELL NAME-OCSSG <i>Watson B-2</i>	LOCATION <i>Sec 35-34S-42W</i>	COUNTY-PARISH-BLOCK <i>Moreau, KS</i>	
DISTRICT <i>Percyton</i>	DRILLING CONTRACTOR RIG # <i>Cheyenne Pole #7</i>	TYPE OF JOB <i>Long Straine</i>	

SIZE & TYPE OF PLUGS		LIST-CSG-HARDWARE		PHYSICAL SLURRY PROPERTIES					
TOP	BTM	SLURRY WGT PPG	SLURRY YLD FT ³	WATER GPS	PUMP TIME HR:MIN	Bbl SLURRY	Bbl MIX WATER		
MATERIALS FURNISHED BY BJ									
<i>10 Bbl Sure bond</i>									
<i>35 sks 35.65 P.O.Z H + 6% bcl + 2% CALZ</i>		<i>12.8</i>	<i>1.82</i>	<i>9.7</i>		<i>11</i>	<i>8</i>		
<i>+ .25 #/sk Cello-Flake</i>									
<i>175 sks 10% b.v. + 10% sg/t</i>		<i>14.9</i>	<i>1.51</i>	<i>7.18</i>		<i>39</i>	<i>25</i>		
<i>+ .5% FL-52 + .25 #/sk Cello-Flake</i>									
Available Mix Water <u> </u> Bbl.		Available Displ. Fluid <u> </u> Bbl.		TOTAL					

HOLE			TBG-CSG-D.P.			TBG-CSG-D.P.			COLLAR DEPTHS				
SIZE	% EXCESS	DEPTH	SIZE	WGT.	TYPE	DEPTH	SIZE	WGT.	TYPE	DEPTH	SHOE	FLOAT	STAGE
<i>7 7/8"</i>		<i>3675'</i>	<i>5 1/2"</i>	<i>15.5 #</i>	<i>J-55</i>	<i>3677'</i>	<i>45'</i>	<i>3631'</i>					

LAST CASING				PKR-CMT RET-BR PL-LINER		PERF. DEPTH		TOP CONN		WELL FLUID	
SIZE	WGT	TYPE	DEPTH	BRAND & TYPE	DEPTH	TOP	BTM	SIZE	THREAD	TYPE	WGT.
<i>8 5/8"</i>	<i>24 #</i>	<i>K55</i>	<i>328'</i>					<i>5 1/2"</i>	<i>8'd</i>	<i>mid</i>	<i>9.0</i>

CAL. DISPL. VOL.-Bbl.				CAL. PSI		OP. MAX		MAX TBG PSI		MAX CSG PSI		DISPL. FLUID		WATER SOURCE
TBG.	CSG.	CSG.	TOTAL	BUMP PLUG	TO REV.	SG. PSI	RATED	OP.	RATED	OP.	TYPE	WGT.		
	<i>8604</i>			<i>600</i>							<i>H2O</i>	<i>8.24</i>	<i>Kg</i>	

EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING:

PRESSURE/RATE DETAIL					EXPLANATION	
TIME HR: MIN.	PRESSURE-PSI		RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	
	PIPE	ANNULUS				
<i>1000</i>						<i>SAFETY MEETING: BJ CREW CO. REP. TEST LINES 2000 PSI CIRCULATING WELL-RIG BJ</i>
						<i>On Location Safety Meeting Safety Equipment In Line to Rig Wait for Rig to Run Casing Casing Loaded Hook Rig to Casing</i>
<i>1545</i>	<i>2000</i>				<i>H2O</i>	<i>Hook Pump to casing Test Lines Start Water Start Sure bond</i>
<i>1550</i>	<i>700</i>		<i>4</i>		<i>H2O</i>	<i>start water</i>
<i>1607</i>	<i>900</i>		<i>4</i>	<i>10</i>	<i>H2O</i>	<i>start cement</i>
<i>1611</i>	<i>600</i>		<i>4</i>	<i>11</i>	<i>35.65</i>	<i>start Tail cement</i>
<i>1618</i>				<i>39</i>	<i>H</i>	<i>All cement shut down wash PL</i>
<i>1623</i>	<i>200</i>		<i>6</i>		<i>H2O</i>	<i>Drop Plug Start Displacement</i>
<i>1636</i>	<i>250</i>		<i>2</i>	<i>76</i>	<i>H2O</i>	<i>Stop Pump</i>
<i>1641</i>	<i>150</i>			<i>86.4</i>	<i>H2O</i>	<i>Bump Plug Check float</i>
<i>1642</i>						<i>float hold</i>

BUMPED PLUG	PSI TO BUMP PLUG	TEST FLOAT EQUIP.	Bbl. CMT RETURNS/ REVERSED	TOTAL Bbl. PUMPED	PSI LEFT ON CSG	SPOT TOP CEMENT	SERV. SUPV.
<i>Y N</i>	<i>750</i>	<i>Y N</i>					<i>Sheets</i>



JOB SUMMARY 4239-1

TICKET #	234820	TICKET DATE	9-15-97
BDA / STATE	KANSAS	COUNTY	MORTON CO.
PSL DEPARTMENT	CEMENT	CUSTOMER REP / PHONE	
API / UWI #		JOB PURPOSE CODE	205/150 PORT CALL

REGION	North America	NWA/COUNTRY	MID CONTINENT
MBU ID / EMP #		EMPLOYEE NAME	SPRING RAMES 11337
LOCATION	E. FLK HART K.S.	COMPANY	ANADARKO
TICKET AMOUNT		WELL TYPE	
WELL LOCATION	E. FLK HART K.S.	DEPARTMENT	CEMENT
LEASE / WELL #	WATSON # R-2	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
R. ELWOOD 04310			
J. ARMSTRONG 11909			
S. BARBARICK 11713			

ORIGINAL

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
37242							
53552 7/101							
3801							

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		
Float Shoe		
Guide Shoe		
Centralizers		
Bottom Plug		
Top Plug		
Head		
Packer		
Other		

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 _____ In	
Perfpac Balls _____ Qty. _____	
Other	
Other	
Other	
Other	

DATE	TIME	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
9-15-97	04:00	9-15-97	07:30	9-15-97	14:28

WELL DATA

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing						
Liner						
Liner						
Tbg/D.P.	USED	47	2 3/4	0	3500	
Tbg/D.P.						
Open Hole						SHOTS/FT.
Perforations						
Perforations						
Perforations						

HOURS ON LOCATION		OPERATING HOURS		DESCRIPTION OF JOB
DATE	HOURS	DATE	HOURS	
				PORT CALL
TOTAL		TOTAL		

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

CEMENT DATA

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
	120	P1 1120	30.00	114 # 71000	327	111

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

Frac Ring #1	Frac Ring #2	Frac Ring #3	Frac Ring #4
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THE INFORMATION STATED HEREIN IS CORRECT

CUSTOMER'S REPRESENTATIVE SIGNATURE _____



JOB LOG 4239-5

TICKET #	TICKET DATE
18911	9.11.97
REGION North America	NWA/COUNTRY
MBU ID / EMP #	EMPLOYEE NAME
LOCATION	COMPANY
TICKET AMOUNT	WELL TYPE
WELL LOCATION	DEPARTMENT
LEASE / WELL #	SEC / TWP / RNG
BDA / STATE	COUNTY
PSL DEPARTMENT	CUSTOMER REP / PHONE
API / UWI #	JOB PURPOSE CODE

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

ORIGINAL

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	07:30							ON LOCATION
	07:45							SAFETY MEETING
	08:55							RUN TUBING IN HOLE
	09:00							HOOK UP IRON
	10:05							START JOB
	10:10	1	1			30		PRESSURE TEST CASING
	10:11							SHUT DOWN CHECK FOR LEAKS
	10:35	1	1			1100		PRESSURE TEST CASING
	10:36							SHUT DOWN CHECK FOR LEAKS FIN LEAKS
	10:58	2	25			650		H ₂ O AHEAD
	11:10	2	68.82			700		PUMP SLURRY 2 3/8 CC, 1/4 FLOCCEL 3.2230, 11.17/gal
	11:34	3	4.5			350		PUMP DISPLACEMENT
	11:36							SHUT DOWN RELEASE P.S.I.
	11:37	1	1			1000		PRESSURE UP ON CASING
	11:38							SHUT DOWN RELEASE P.S.I.
	11:41							RUN 3 JOINTS INTO HOLE
	11:44							HOOK UP TO ANULUS
	11:49	2	9.5			200		REVERSE OUT TO PIT (CIRCULATED 8.5 SACKS TO PIT)
	11:55							SHUT DOWN RELEASE P.S.I.
	11:59							RUN 100 JOINTS INTO HOLE
	13:44							HOOK UP IRON
	13:46	1	5.95			100		PUMP ACID 1GAL HAJ-XIM
	13:52	1	15			50		PUMP H ₂ O BEHIND
	14:05							SHUT DOWN
	14:10	2	30			100		REVERSE ACID OUT TO PIT
	14:29							SHUT DOWN JOBS COMPLETE

THANK YOU

STALINK KAIN'S

ROBERT FLEWELL
+ CREW



JOB SUMMARY 4239-1

TICKET # 234196	TICKET DATE 9-19-97
BDA / STATE Ks	COUNTY Morton
PSL DEPARTMENT EM1	CUSTOMER REP / PHONE
API / UWI #	JOB PURPOSE CODE Squeeze (Test) 0 Perfs

REGION North America	NWA/COUNTRY
MBU ID / EMP #	EMPLOYEE NAME 59179 Dennis Lopez
LOCATION L10102	COMPANY Amherst Petroleum
TICKET AMOUNT	WELL TYPE

WELL LOCATION N/E of ELKHART	DEPARTMENT 5631 Cement
LEASE / WELL # R-7 Watson	SEC / TWP / RNG 35-24S N7W

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 Lopez	S Grant		

ORIGINAL

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
420041		5602-75415	37				
5602-70162							

Form Name _____ Type: _____
 Form Thickness _____ From _____ To _____
 Packer Type **E2SV** Set At **2990**
 Bottom Hole Temp. _____ Pressure _____
 Misc. Data _____ Total Depth _____

	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE	9-19	9-19	9-19	9-19
TIME	1400	1230	1400	1515

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		5 1/2	61		
Liner					
Liner					
Tbg/D.P.		2 3/8	KB	2990	
Tbg/D.P.					
Open Hole					
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	
				Squeeze
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
	50	Premium	1911619		185	15.8

Circulating Breakdown	Displacement	Preflush:	Gal - BBI 10	Type Test Frac
Average	Maximum	Load & Bkdn:	Gal - BBI	Pad: BBI - Gal
Shut In: Instant	Frac Gradient	Treatment	Gal - BBI	Disp: BBI - Gal 11.2
	5 Min	Cement Slurr	Gal - BBI 11.5	
	15 Min	Total Volume	Gal - BBI	

REGION	North America	NWA/COUNTRY		BDA / STATE	Ks	COUNTY	Wichita
MBU ID / EMP #	11002	EMPLOYEE NAME	5174 Dennis Lee	PSL DEPARTMENT	SPN		
LOCATION	20045 Linn Co	COMPANY	American Petroleum	CUSTOMER REP / PHONE			
TICKET AMOUNT		WELL TYPE		API / UWI #			
WELL LOCATION	131-2-111002	DEPARTMENT	SPN	JOB PURPOSE CODE	Squeeze		
LEASE / WELL	13-2-111002	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
Dennis Lee		S Grant					
				ORIGINAL			

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	now							From A Loc To A Loc.
	1330							Time barely
	1330							Time on hole
	13							Set up Squeeze. Minuted.
	1415		5 1/2			35 ^{1/2}		Load BS
	1421	2				380		Set Injection rate
	1426		10					Shut Down
	1445		2 1/2					Load BS
	1448	2 1/2	5			330		Backstroke at Broken Back
	1450							Shut Down
	1455							Start 11 1/2 Cement
	1459		10.5					Find 11 1/2 Cement
	1500							Shut Down
	1504							Start Displacement
	1506	1 1/2	8 1/2			230		Press up on line.
	1510		2 1/2			350		Shut Down
	1511							11 1/2 BBL in line
	1512							Shut off of Katiere
	1515							Break lose
								Finish w/ lbs.

Frank Forney
 Frank Forney Halliburton
 Energy
 Dan. Coover & Co.



JOB SUMMARY 4239-1

TICKET #	234697	TICKET DATE	9-20-97
BDA / STATE	Ks	COUNTRY	Mocton
PSL DEPARTMENT	5001		
CUSTOMER REP / PHONE			
API / UWI #			
JOB PURPOSE CODE	Res Test		

REGION	North America	NWA/COUNTRY	
MBUID / EMP #		EMPLOYEE NAME	59179, Danna Lee
LOCATION	L10102	COMPANY	Woodruffe P&G Comp
TICKET AMOUNT	12000	WELL TYPE	OL
WELL LOCATION	NW of F1 Phad	DEPARTMENT	
LEASE / WELL	B2, Watson	SEC / TWP / RNG	

HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	D. Brown 59179	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS		HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS		HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	
ORIGINAL							
HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
432041	1/14						
53552-75002	1/14						

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		
Float Shoe		
Guide Shoe		
Centralizers		
Bottom Plug		
Top Plug		
Head		
Packer		
Other		

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		

DATE	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
	9-20	9-20	9-20	9-20
TIME	0400	0700	0735	1100

WELL DATA

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing		153	5 1/2			
Liner						
Liner						
Tbg/D.P.			7 3/4	VR	2753	
Tbg/D.P.						
Open Hole						SHOTS/FT.
Perforations						2900
Perforations						
Perforations						

HOURS ON LOCATION		OPERATING HOURS		DESCRIPTION OF JOB
DATE	HOURS	DATE	HOURS	
				Special Test
TOTAL		TOTAL		

HYDRAULIC HORSEPOWER

ORDERED	Avail.	Used
TREATED	AVERAGE RATES IN BPM	Overall
FEET	Disp.	
	CEMENT LEFT IN PIPE	
	Reason	Lacey To BOP's

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
	50	Permin	66 Hbact		1.08	11.4

Circulating	Displacement	Preflush:	Gal - BBI	5	Type	F. H. S. H.
Breakdown	Maximum	Load & Bkdn:	Gal - BBI		Pad:	BBI - Gal
Average	Frac Gradient	Treatment	Gal - BBI		Disp:	BBI - Gal
Shut In: Instant	5 Min	Cement Slurr	Gal - BBI	9.54		11.34
	15 Min	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	

