

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**

**ORIGINAL**

Operator: License # 4549

API No. 15 - 189-22430-00-00

Name: ANADARKO PETROLEUM CORP.

County: STEVENS

Address: 701 S. TAYLOR STREET, SUITE 400

**RELEASED** NE NW Sec. 18 Twp. 31 S. R. 38  East  West

City/State/Zip: AMARILLO, TEXAS 79101

660 feet from S  (circle one) Line of Section

Purchaser: ANADARKO ENERGY SERVICES

**JAN 9 4 2005** 2169.2 feet from E  (circle one) Line of Section

Operator Contact Person: JOHN VIGIL

Footages Calculated from Nearest Outside Section Corner:

Phone: (806) 457-4600

(circle one) NE SE **NW** SW

Contractor Name: MURFIN DRILLING CO., INC.

**KCC**

Lease Name: SWALAR "B" Well #: 1

License: 30606

Field Name: WILDCAT

Wellsite Geologist: Mike Dodge

**MAR 31 2003**

Producing Formation: MORROW

Designate Type of Completion:

**CONFIDENTIAL**

New Well  Re-Entry  Workover

Elevation: Ground: 3184 Kelly Bushing: \_\_\_\_\_

Oil  SWD  SLOW  Temp. Abd.

Total Depth: 6100 Plug Back Total Depth: 6030

Gas  ENHR  SIGW

Amount of Surface Pipe Set and Cemented at 1729 Feet

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

Multiple Stage Cementing Collar Used?  Yes  No

If Workover/Re-entry: Old Well Info as follows: **APR 02 2003**

If yes, show depth set 4707 Feet

Operator: \_\_\_\_\_

If Alternate II completion, cement circulated from \_\_\_\_\_

Well Name: \_\_\_\_\_

feet depth to \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

**Drilling Fluid Management Plan** Alk 1 Gu 4-2-03  
(Data must be collected from the Reserve Pit) PIT 4-2-03

Deepening  Re-perf.  Conv. to Enhr./SWD

Chloride content 1000 ppm Fluid volume 700 bbls

Plug Back  Plug Back Total Depth \_\_\_\_\_

Dewatering method used \_\_\_\_\_

Commingled  Docket No. \_\_\_\_\_

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Dual Completion  Docket No. \_\_\_\_\_

Operator Name: \_\_\_\_\_

Other (SWD or Enhr.?)  Docket No. \_\_\_\_\_

Lease Name: \_\_\_\_\_ License No.: \_\_\_\_\_

2-24-2003 3-7-2003 3-24-2003

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_ East West

Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

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 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: L. Marie Farney

Title: Engl. Tech III Date: 3-31-03

Subscribed and sworn to before me this 31 day of March

2003  
Notary Public: Rou Pearson

Date Commission Expires: 2/26/05

**KCC Office Use ONLY**

Letter of Confidentiality Attached  
If Denied, Yes  Date: \_\_\_\_\_

Wireline Log Received  
**ROU PEARSON**  
Notary Public, State of Texas  
My Commission Expires  
**February 26, 2005**

X

Operator Name: ANADARKO PETROLEUM CORP. Lease Name: SWALAR "B" Well #: 1  
 Sec. 18 Twp. 31 S. R. 38 East  West County: STEVENS

**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 <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(Attach Additional Sheets)</i>  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 <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Submit Copy)</i>  List All E. Logs Run:  CBL, DIL, CNL-LDT, ML, SONIC.	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td><input checked="" type="checkbox"/> Log</td> <td>Formation (Top), Depth and Datum</td> <td><input type="checkbox"/> Sample</td> </tr> <tr> <td>Name</td> <td>Top</td> <td>Datum</td> </tr> <tr> <td>CHASE</td> <td>2384</td> <td>800</td> </tr> <tr> <td>COUNCIL GROVE</td> <td>2697</td> <td>487</td> </tr> <tr> <td>B/HHEEBNER</td> <td>3899</td> <td>-715</td> </tr> <tr> <td>MARMATON</td> <td>4636</td> <td>-1452</td> </tr> <tr> <td>MORROW</td> <td>5266</td> <td>-2082</td> </tr> <tr> <td>STE. GENEVIEVE</td> <td>5852</td> <td>-2668</td> </tr> <tr> <td>ST. LOUIS</td> <td>5930</td> <td>-2746</td> </tr> </table>	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample	Name	Top	Datum	CHASE	2384	800	COUNCIL GROVE	2697	487	B/HHEEBNER	3899	-715	MARMATON	4636	-1452	MORROW	5266	-2082	STE. GENEVIEVE	5852	-2668	ST. LOUIS	5930	-2746
<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample																										
Name	Top	Datum																										
CHASE	2384	800																										
COUNCIL GROVE	2697	487																										
B/HHEEBNER	3899	-715																										
MARMATON	4636	-1452																										
MORROW	5266	-2082																										
STE. GENEVIEVE	5852	-2668																										
ST. LOUIS	5930	-2746																										

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"	21.8	1729	P+MC/P+	430/100	3%CC, 1/2#/SK F/ 2%CC, 1/4#/SK F.
PRODUCTION	7-7/8"	5-1/2"	15.5	6086	50/50 POZ	25/1;70	10%SALT, 6%H322, 1/4#/SK F/SAME.
PORT COLLAR				4707	50/50 POZ	25/120	10%SALT, 6%H322, 1/4#/SK F/SAME.

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
6	5663-5674, 5698-5706.	FRAC: 31,000 GAL FOAM & 950 SKS 20/40 SAND.	5663-5706 (OA)

TUBING RECORD	Size <u>2-3/8"</u>	Set At <u>5646</u>	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Enhr. <u>3-29-2003</u>		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
		<u>1651</u>	<u>24</u>	

Disposition of Gas	METHOD OF COMPLETION	Production Interval
<input type="checkbox"/> Vented <input checked="" type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Sumit ACO-18.)</i>	<input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <input type="checkbox"/> Other (Specify) _____	<u>5663-5706 (OA)</u>

# HALLIBURTON JOB SUMMARY

REGION <b>Central Operations</b>		NWA / COUNTRY <b>Mid Continent/USA</b>		SALES ORDER NUMBER <b>2308513</b>		TICKET DATE <b>02/26/03</b>	
MBU ID / EMPL # <b>MCL10101 106322</b>		H.E.S. EMPLOYEE NAME <b>Danny McLane</b>		BDA / STATE <b>MC/Ks</b>		COUNTY <b>Stevens</b>	
LOCATION <b>Liberal, KS</b>		COMPANY <b>Anadarko Petroleum Corp.</b>		PSL DEPARTMENT <b>Cement</b>		ORIGINAL	
TICKET AMOUNT <b>\$9,866.31</b>		WELL TYPE <b>Gas - Development</b>		CUSTOMER REP / PHONE <b>Kenny Parks 806-670-0164</b>		API/LWI # <b>15-189-22430</b>	
WELL LOCATION <b>NW of Hugoton, KS</b>		DEPARTMENT <b>Cement</b>		SAP BOMB NUMBER <b>7521</b>		Cement Surface Casing	
LEASE NAME <b>Swalar</b>		Well No. <b>B-1</b>		SEC / TWP / RNG <b>18 -31S - 38W</b>		HES FACILITY (CLOSEST TO WELL SITE) <b>Liberal, KS</b>	

HES EMP NAME / EMP # / (EXPOSURE HOURS)		HRS		HRS		HRS	
<b>McLane, D 106322</b>		8.0		<b>Burrows, R 273921</b>		5.0	
<b>Tate, N 105953</b>		8.0		<b>Heston, M. 106226</b>		5.0	
<b>Archuleta, M 226383</b>		6.5					
<b>Berumen, E 267804</b>		6.5					

H.E.S. UNIT #S / (R / T MILES)		R / T MILES		R / T MILES		R / T MILES	
<b>420995</b>		<b>100</b>		<b>10012003</b>		<b>100</b>	
<b>10051401</b>		<b>100</b>					
<b>10243558 6611</b>		<b>20</b>					
<b>54225 10011276</b>		<b>20</b>					

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

Date	Called Out <b>2/26/2003</b>	On Location <b>2/26/2003</b>	Job Started <b>2/26/2003</b>	Job Completed <b>2/26/2003</b>
Time	<b>07:30</b>	<b>09:15</b>	<b>1530</b>	<b>1730</b>

Tools and Accessories

Type and Size	Qty	Make
Float Collar <b>Insert-8 5/8</b>	<b>1</b>	<b>HOWCO</b>
Float Shoe		
Centralizers <b>41-8 5/8X12 1/4</b>	<b>4</b>	<b>HOWCO</b>
Top Plug <b>5W - 8 5/8</b>	<b>1</b>	<b>HOWCO</b>
HEAD		
Limit clamp		
Weld-A	<b>1</b>	<b>HOWCO</b>
Guide Shoe <b>Reg-8 5/8"</b>	<b>1</b>	<b>HOWCO</b>
BTM PLUG		

Well Data

	New/Used	Weight	Size	Grade	From	To	Max. Allow
Casing	<b>U</b>	<b>23 #/ft</b>	<b>8 5/8"</b>		<b>G.L.+</b>	<b>1,827</b>	<b>2,000</b>
Liner							
Liner							
Tubing							
Drill Pipe							
Open Hole			<b>12 1/4"</b>		<b>G.L.</b>		<b>Shots/Ft.</b>
Perforations							
Perforations							
Perforations							

Materials

Mud Type	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	In
Perfpac Balls	Qty.	
Other		
Other		
Other		
Other		
Other		

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
<b>2/26</b>	<b>8.0</b>	<b>2/26</b>	<b>1.5</b>	<b>Cement Surface Casing</b>
<b>Total</b>	<b>8.0</b>	<b>Total</b>	<b>1.5</b>	

Ordered	Hydraulic Horsepower Avail.	Used
Treating	Average Rates in BPM Disp.	Overall
Feet <b>44.80'</b>	Cement Left in Pipe Reason	<b>SHOE JOINT</b>

Cement Data

Stage	Sacks	Cement	Bulk/Sks	Additives	W/Rq.	Yield	Lbs/Gal
<b>1</b>	<b>430</b>	<b>Midcon Prem Plu</b>	<b>Bulk</b>	<b>3% CC, 1/2 #/sk Flocele, 0.1% FWCA</b>	<b>17.98</b>	<b>2.94</b>	<b>11.40</b>
<b>2</b>	<b>125</b>	<b>Premium Plus</b>	<b>Bulk</b>	<b>2% CC, 1/4#/sk Flocele</b>	<b>6.30</b>	<b>1.34</b>	<b>14.80</b>
<b>3</b>							
<b>4</b>							

Summary

Circulating Breakdown	Displacement	Preflush: BBI	<b>5.00</b>	Type: Water
Lost Returns	MAXIMUM	Load & Bkdn: Gal - BBI		Pad:Bbl -Gal
Cmt Rtrn#Bbl	Actual TOC	Excess /Return BBI		Calc. Disp Bbl
Average	Frac. Gradient	Calc. TOC:	<b>Surface</b>	Actual Disp.
Shut In: Instant	5 Min.	Treatment: Gal - BBI		Disp:Bbl
	15 Min.	Cement Slurry BBI	<b>255.0</b>	
		Total Volume BBI	<b>259.98</b>	

Frac Ring #1 \_\_\_\_\_ Frac Ring #2 \_\_\_\_\_ Frac Ring #3 \_\_\_\_\_ Frac Ring #4 \_\_\_\_\_

**THE INFORMATION STATED HEREIN IS CORRECT**  
 CUSTOMER REPRESENTATIVE \_\_\_\_\_ SIGNATURE \_\_\_\_\_

CONFIDENTIAL

KCC

ORIGINAL

MAR 31 2003

<b>HALLIBURTON JOB LOG</b>		TICKET # <b>2308513</b>	TICKET DATE <b>02/26/03</b>
REGION <b>Central Operations</b>	NWA / COUNTRY <b>Mid Contitnent/USA</b>	BBA / STATE <b>MC/Ks</b>	COUNTY <b>Stevens</b>
MBU ID / EMPL # <b>MCLI0101 106322</b>	H.E.S EMPLOYEE NAME <b>Danny McLane</b>	PSL DEPARTMENT <b>Cement</b>	
LOCATION <b>Liberal, KS</b>	COMPANY <b>Anadarko Petroleum Corp.</b>	CUSTOMER REP / PHONE <b>Kenny Parks 806-670-0164</b>	
TICKET AMOUNT <b>\$9,866.31</b>	WELL TYPE <b>Gas - Development</b>	API/UWI # <b>15-189-22430</b>	
WELL LOCATION <b>NW of Hugoton, KS</b>	DEPARTMENT <b>Cement</b>	JOB PURPOSE CODE <b>Cement Surface Casing</b>	
LEASE NAME <b>Swalar</b>	Well No. <b>B-1</b>	SEC / TWP / RNG <b>18 -31S - 38W</b>	HES FACILITY (CLOSEST TO WELL S) <b>Liberal, KS</b>

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
<b>McLane, D 106322</b>	<b>8</b>	<b>Burrows, R 273921</b>	<b>6.5</b>	<b>Heston, M. 106226</b>	<b>5</b>		
<b>Tate, N 105953</b>	<b>8</b>						
<b>Archuleta, M 226383</b>	<b>6.5</b>						
<b>Berumen, E 267804</b>	<b>6.5</b>						

Chart No.	Time	Rate (BPM)	Volume (BBL)(GAL)	Rate		Press. (PSI)		Job Description / Remarks
				N2	CSG	Tbg		
<b>02-26-03</b>	<b>07:30</b>							<b>Called Out. Job ready 10:30</b>
	<b>09:45</b>							<b>On location with Float Equipment &amp; Cement Head</b>
	<b>10:30</b>							<b>Rig drilling @ 1744'</b>
	<b>11:15</b>							<b>Cement pump truck &amp; crew on location.</b>
	<b>11:20</b>							<b>Conduct Rig Up Safety Huddle</b>
	<b>11:50</b>							<b>Bulk trucks on location</b>
	<b>1300</b>							<b>Hole @ TD of 1829'. Circulate on bottom</b>
	<b>1320</b>							<b>Start out of hole with Drill Pipe</b>
	<b>1330</b>							<b>Lay down 8 inch collars</b>
	<b>1345</b>							<b>Drill pipe out of hole</b>
	<b>1309</b>							<b>Hold safety meeting and rig up casing crew</b>
	<b>1512</b>							<b>Start running 8 5/8 casing and float equipment</b>
	<b>1520</b>							<b>Casing on bottom and hook up plug container</b>
	<b>1527</b>							<b>Hook up to rig pump to circulate hole and break out</b>
	<b>1528</b>							<b>fill tube in insert float</b>
	<b>1529</b>							<b>Got mud returns and rig down casing crew</b>
	<b>1530</b>	<b>2.0</b>	<b>5.0</b>					<b>Through circulating with rig pump</b>
	<b>1532</b>	<b>5.5</b>	<b>225.2</b>					<b>Hook up to Halliburton</b>
	<b>1613</b>	<b>5.5</b>	<b>29.8</b>					<b>Job procedure for 8 5/8 surface pipe</b>
	<b>1618</b>							<b>Pressure test lines</b>
	<b>1619</b>							<b>Start fresh water spacer</b>
	<b>1621</b>	<b>5.5</b>	<b>114.2</b>					<b>Start lead cement @ 11.4 #/gal</b>
	<b>1629</b>							<b>Start tail cement @ 14.8 #/gal</b>
	<b>1640</b>	<b>2.5</b>						<b>Through mixing cement</b>
	<b>1646</b>							<b>Shut down and release top plug</b>
	<b>1647</b>							<b>Start fresh water displacement</b>
	<b>1700</b>							<b>Displacement caught cement</b>
								<b>Slow down rate</b>
								<b>Plug landed and pressure up casing</b>
								<b>Release pressure</b>
								<b>Float held and release trucks</b>
								<b>Circulated 80 Bbls to pit</b> ✓
								<b>Thank you for calling Halliburton</b>
								<b>Danny and Crew</b>

RELEASED

JAN 04 2005

FROM CONFIDENTIAL

RECEIVED

KANSAS CORPORATION COMMISSION

APR 02 2003

CONSERVATION DIVISION WICHITA, KS

# HALLIBURTON JOB SUMMARY

REGION <b>Central Operations</b>		NWA / COUNTRY <b>Mid Continent/USA</b>		SALES ORDER NUMBER <b>2326703</b>		TICKET DATE <b>03/06/03</b>	
MBU ID / EMPL # <b>MCL10103 212723</b>		H.E.S. EMPLOYEE NAME <b>JERRAKO EVANS</b>		BDA / STATE <b>MC/Ks</b>		COUNTY <b>STEVENS</b>	
LOCATION <b>LIBERAL</b>		COMPANY <b>ANADARKO PETROLEUM CORPORA</b>		PSL DEPARTMENT <b>Cement</b>		<b>ORIGINAL</b>	
TICKET AMOUNT <b>\$6,903.23</b>		WELL TYPE <b>01 Oil</b>		CUSTOMER REP / PHONE <b>KENNY PARKS</b>			
WELL LOCATION <b>DERMONT, KS</b>		DEPARTMENT <b>CEMENT</b>		SAP BOMB NUMBER <b>7523</b>		Cement Production Casing	
LEASE NAME <b>SWALAR</b>		Well No. <b>B-1</b>		SEC / TWP / RNG <b>18 - 31s - 38w</b>		HES FACILITY (CLOSEST TO WELL SITE) <b>LIBERAL, KS</b>	

HES EMP NAME / EMP # / (EXPOSURE HOURS)	HR	HR	HR	HR
Evans, J 212723	7.0			
King, K 105942	7.0			
Ferguson, R 106154	7.0			

H.E.S. UNIT #S / (R / T MILES)	R / T MILES	R / T MILES	R / T MILES	R / T MILES
10415642	100			
10219237	100			
10240236-10240245	20			

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

Date	Called Out	On Location	Job Started	Job Completed
	3/6/2003	3/6/2003	3/7/2003	3/7/2003
Time	2000	2400	0545	0700

**Tools and Accessories**

Type and Size	Qty	Make
Float Collar SS	1	HOWCO
Float Shoe SS	1	HOWCO
Centralizers S-4	26	HOWCO
Top Plug ALUM	1	HOWCO
HEAD 5 1/2	1	HOWCO
Limit clamp PORT COLL	1	BAKER
Weld-A	1	
Guide Shoe CAN BASK	1	HOWCO
BTM PLUG		

**Well Data**

	New/Used	Weight	Size	Grade	From	To	Max. Allow
Casing	NEW	15.5	5 1/2		0	6,096	
Liner							
Liner							
Tubing							
Drill Pipe							
Open Hole				7 7/8		6,100	Shots/Ft.
Perforations							
Perforations							
Perforations							

**Materials**

Mud Type	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		
Other		

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
3/6	1.0	3/7	1.5	Cement Production Casing PORT COLLAR @ 4718 FT TOP OF JOINT #30 RECEIVED KAWGAS CORPORATION COMMISSION
3/7	7.0			
Total 8.0		Total 1.5		APR 02 2003

Ordered	Hydraulic Horsepower Avail.	Used	WICHITA, KS
Treating	Average Rates in BPM Disp.	Overall	
Feet 45	Cement Left in Pipe Reason	SHOE JOINT	

**Cement Data**

Stage	Sacks	Cement	Bulk/Sks	Additives	W/Rq.	Yield	Lbs/Gal
1	25	50/50 POZ H		2% TOTAL GEL - 10% SALT - 6/10% HALAD-322 - 1/4# FLOCELE	40.45	6.07	10.00
2	170	50/50 POZ H		2% TOTAL GEL - 10% SALT - 6/10% HALAD-322 - 1/4# FLOCELE	5.58	1.26	14.40
3	25	50/50 POZ H		2% TOTAL GEL - 10% SALT - 6/10% HALAD-322 - 1/4# FLOCELE	5.58	1.26	14.40
4							

**Summary**

Circulating	Displacement	Preflush: BBI	Type:
Breakdown	MAXIMUM	Load & Bkdn: Gal - BBI	Pad:Bbl - Gal
Lost Returns	Lost Returns	Excess /Return BBI	Calc. Disp Bbl
Cmt Rtrn#Bbl	Actual TOC	Calc. TOC:	Actual Disp.
Average	Frac. Gradient	Treatment: Gal - BBI	Disp:Bbl
Shut In: Instant	5 Min.	Cement Slurry BBI	
	15 Min.	Total Volume BBI	
			70.7
			214.70

Frac Ring #1 \_\_\_\_\_ Frac Ring #2 \_\_\_\_\_ Frac Ring #3 \_\_\_\_\_ Frac Ring #4 \_\_\_\_\_

**THE INFORMATION STATED HEREIN IS CORRECT**  
 CUSTOMER REPRESENTATIVE \_\_\_\_\_ SIGNATURE \_\_\_\_\_

CONFIDENTIAL

KCC  
MAR 31 2003

ORIGINAL

<b>HALLIBURTON JOB LOG</b>		CONFIDENTIAL		TICKET #	2326703	TICKET DATE	03/06/03
REGION <b>Central Operations</b>		NWA / COUNTRY <b>Mid Contitnent/USA</b>		BDA / STATE <b>MC/Ks</b>		COUNTY <b>STEVENS</b>	
MBU ID / EMPL # <b>MCL10103 212723</b>		H.E.S EMPLOYEE NAME <b>JERRAKO EVANS</b>		PSL DEPARTMENT <b>Cement</b>			
LOCATION <b>LIBERAL</b>		COMPANY <b>ANADARKO PETROLEUM CORPO</b>		CUSTOMER REP / PHONE <b>KENNY PARKS</b>		<b>806-679-0164</b>	
TICKET AMOUNT <b>\$6,903.23</b>		WELL TYPE <b>01 Oil</b>		API/UVI #			
WELL LOCATION <b>DERMONT, KS</b>		DEPARTMENT <b>CEMENT</b>		JOB PURPOSE CODE <b>Cement Production Casing</b>			
LEASE NAME <b>SWALAR</b>		Well No. <b>B-1</b>	SEC / TWP / RNG <b>18 - 31s - 38w</b>	HES FACILITY (CLOSEST TO WELL S) <b>LIBERAL, KS</b>			

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
Evans, J 212723	7						
King, K 105942	7						
Ferguson, R 106154	7						

Chart No.	Time	Rate (BPM)	Volume (BBL)(GAL)	Rate			Press. (PSI)			Job Description / Remarks
				N2	CSG	Tbg				
	2400									JOB READY
	2000									CALLED OUT FOR JOB
	2200									PRE-TRIP SAFETY MEETING
	2300									PUMP TRUCK ON LOCATION/ JOB SITE ASSESMENT
	2315									RIG UP TRUCKS
										RIG PULLING DP
										RIG PULL RAT & MOUSE HOLES
	0030									RIG UP CASING CREW
	0045									PRE-JOB SAFETY MEETING
	0100									START RUNNING CASING & FE (5 1/2)
										FILL CASING HALFWAY IN HOLE
	0425									CASING ON BOTTOM (6096 FT)
	0435									HOOK UP PLUG CONT & CIRC IRON
	0445									CIRC WITH RIG PUMP
										THROUGH CIRC/ HOOK UP TO PUMP TRUCK
	0545	2.0	5.6							PLUG RAT & MOUSE HOLES
	0552						4000			TEST LINES
	0555	6.0	27.0				0-200			START MIXING LEAD CMT @ 10#
	0602	6.0	38.0				200			START MIXING TAIL CMT @14.4#
										THROUGH MIXING CMT / WASH PUMP & LINES
	0610									DROP PLUG
	0612	6.0					0-525			START DISP WITH FRESH WATER
	0632	6.0	112.0							DISP CAUGHT CMT
	0636	2.0	134.0				525			SLOW RATE
	0640	2.0	144.0				2050			BUMP PLUG
	0641									RELEASE FLOAT HELD
										PORT COLLAR @4718 FT / TOP OF JOINT # 30 ✓
										THANKS FOR CALLING HALLIBURTON
										JERRAKO & CREW

RELEASED

JAN 04 2005

FROM CONFIDENTIAL

RECEIVED

KANSAS CORPORATION COMMISSION

APR 02 2003

CONSERVATION DIVISION  
WICHITA, KS



# HALLIBURTON JOB SUMMARY

REGION <b>Central Operations</b>	NWA / COUNTRY <b>Mid Continent/USA</b>	SALES ORDER NUMBER <b>2328551</b>	TICKET DATE <b>03/10/03</b>
MBU ID / EEMPL # <b>MCLI0101 106322</b>	H.E.S. EMPLOYEE NAME <b>Danny McLane</b>	BDA / STATE <b>MC/Ks</b>	COUNTY <b>STEVENS</b>
LOCATION <b>LIBERAL CONFIDENTIAL</b>	COMPANY <b>ANADARKO PETROLEUM CORPORATION</b>	PSL DEPARTMENT <b>Cement</b>	CUSTOMER REP PHONE <b>806-679-0164</b>
TICKET AMOUNT <b>\$7,230.19</b>	WELL TYPE <b>01 Oil</b>	API/LMI # <b>15-189-22430</b>	SAP BOMB NUMBER <b>14099</b>
WELL LOCATION <b>Dermont,Ks</b>	DEPARTMENT <b>Cement</b>	HES FACILITY (CLOSEST TO WELL SITE) <b>Liberal Ks</b>	Recement
LEASE NAME <b>SWALAR</b>	Well No. <b>B-1</b>	SEC / TWP / RNG <b>18 - 31s - 38w</b>	<b>MAR 31 2003</b>

HES EMP NAME / EMP # / (EXPOSURE HOURS)	HRS	HRS	HRS	HRS
<b>McLane, D 106322</b>	5.5			
<b>Tate, N 105953</b>	5.5			
<b>Heskett, T 271073</b>	5.5			

H.E.S. UNIT #S / (R / T MILES)	R / T MILES	R / T MILES	R / T MILES	R / T MILES
<b>420995</b>	<b>100</b>			
<b>10251401</b>	<b>100</b>			
<b>10011748 10011278</b>	<b>20</b>			

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

Date	Called Out	On Location	Job Started	Job Completed
	<b>3/10/2003</b>	<b>3/10/2003</b>	<b>3/10/2003</b>	<b>3/10/2003</b>
Time	<b>0500</b>	<b>0830</b>	<b>0930</b>	<b>1400</b>

**Tools and Accessories**

Type and Size	Qty	Make
Float Collar		
Float Shoe		
Centralizers		
Top Plug		
HEAD		
Limit clamp		
Weld-A		
Guide Shoe		
BTM PLUG		

**Well Data**

	New/Used	Weight	Size	Grade	From	To	Max. Allow
Casing		<b>15.5</b>	<b>5 1/2</b>		<b>0</b>		
Liner							
Liner							
Tubing			<b>2 3/8</b>		<b>0</b>	<b>4,707</b>	
Drill Pipe							
Open Hole			<b>7 7/8</b>				
Perforations							Shots/Ft.
Perforations							
Perforations							

**Materials**

Mud Type	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	In
Perfpac Balls	Qty.	
Other		
Other		
Other		
Other		

**Hours On Location**

Date	Location	Hours	Date	Hours	Description of Job
<b>3/10</b>			<b>3/10</b>		<b>Recement</b>
					<b>RECEIVED</b>
					<b>KANSAS CORPORATION COMMISSION</b>
					<b>APR 02 2003</b>
					<b>CONSERVATION DIVISION</b>
					<b>WICHITA KS</b>
Total			Total		

Ordered	Hydraulic Horsepower Avail.	Used
Treating	Average Rates in BPM Disp.	Overall
Feet	Cement Left in Pipe Reason	<b>SHOE JOINT</b>

**Cement Data**

Stage	Sacks	Cement	Bulk/Sks	Additives	W/Rq.	Yield	Lbs/Gal
<b>1</b>	<b>25</b>	<b>50/50 POZ H</b>	<b>Bulk</b>	<b>2% TOTAL GEL - 10% SALT - 6/10% HALAD-322 - 1/4# FLOCELE</b>	<b>40.45</b>	<b>6.07</b>	<b>10.00</b>
<b>2</b>	<b>120</b>	<b>50/50 POZ H</b>	<b>Bulk</b>	<b>2% TOTAL GEL - 10% SALT - 6/10% HALAD-322 - 1/4# FLOCELE</b>	<b>5.58</b>	<b>1.26</b>	<b>14.40</b>
<b>3</b>				<b>AFTER CEMENT JOB - WILL RUN TUBING TO BOTTOM AND CIRCULATE</b>			
<b>4</b>							

**Summary**

Circulating Breakdown	Displacement	Preflush: BBI	<b>5.00</b>	Type: fresh water
Lost Returns	MAXIMUM	Load & Bkdn: Gal - BBI		Pad:Bbl - Gal
Cmt Rtrn#Bbl	Lost Returns	Excess /Return BBI		Calc. Disp Bbl
Average	Actual TOC	Calc. TOC:		Actual Disp.
Shut In: Instant	Frac. Gradient	Treatment: Gal - BBI		Disp:Bbl
	5 Min.	Cement Slurry BBI	<b>27, 27</b>	
	15 Min.	Total Volume BBI	<b>#VALUE!</b>	

Frac Ring #1 \_\_\_\_\_ Frac Ring #2 \_\_\_\_\_ Frac Ring #3 \_\_\_\_\_ Frac Ring #4 \_\_\_\_\_

**THE INFORMATION STATED HEREIN IS CORRECT**

CUSTOMER REPRESENTATIVE \_\_\_\_\_ SIGNATURE \_\_\_\_\_

CONFIDENTIAL

KCC  
MAR 31 2003

ORIGINAL

<b>HALLIBURTON JOB LOG</b> <b>CONFIDENTIAL</b>				TICKET # <b>2328551</b>	TICKET DATE <b>03/10/03</b>
REGION <b>Central Operations</b>		NWA / COUNTRY <b>Mid Contitnent/USA</b>		BDA / STATE <b>MC/Ks</b>	COUNTY <b>STEVENS</b>
MBU ID / EMPL # <b>MCLI0101 106322</b>		H.E.S EMPLOYEE NAME <b>Danny McLane</b>		PSL DEPARTMENT <b>Cement</b>	
LOCATION <b>LIBERAL</b>		COMPANY <b>ANADARKO PETROLEUM CORPO</b>		CUSTOMER REP / PHONE <b>KENNY PARKS 806-679-0164</b>	
TICKET AMOUNT <b>\$7,230.19</b>		WELL TYPE <b>01 Oil</b>		API/JWI # <b>15-189-22430</b>	
WELL LOCATION <b>Dermount, Ks</b>		DEPARTMENT <b>Cement</b>		JOB PURPOSE CODE <b>Recement</b>	
LEASE NAME <b>SWALAR</b>		Well No. <b>B-1</b>	SEC / TWP / RNG <b>18 - 31s - 38w</b>	HES FACILITY (CLOSEST TO WELL #) <b>Liberal Ks</b>	

RECEIVED  
KANSAS CORPORATION COMMISSION  
APR 02 2003  
CONSERVATION DIVISION  
WICHITA, KS

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
<b>McLane, D 106322</b>	5.5						
<b>Tate, N 105953</b>	5.5						
<b>Heskett, T 271073</b>	5.5						

JAN 9 7 2005  
FROM CONFIDENTIAL

Chart No.	Time	Rate (BPM)	Volume (BBL)(GAL)	Rate		Press. (PSI)		Job Description / Remarks
				N2	CSG	Tbg		
	0500							Called for job
	0830							On location do job site assessment. Bring Halliburton trucks on location. Hold safety meeting and set up Halliburton trucks
								Job procedure for port collar
	0951	1.5	4.0			0/2500		Pressure test lines and port collar
	0955					2500/0		Release pressure and open port collar
	0956							Tool man to open tool
	0959	1.0	1.0			0/1200		Try for injection rate
	1001							Tool man to open tool
	1004	1.0	1.0			0/1200		Try for injection rate
	1006							Tool man to open tool
	1008	1.0				0/1200		Try for injection rate
	1010							Tool man to open tool
	1011					0/1200		Try for injection rate
	1012							Tool man to open tool
	1014					0/1200		Try for injection rate
	1016							Tool man to open tool
	1018		30.0			500/1000		Got an injection rate
	1039							Shut down and check valve on back side
	1043							Get go ahead to mix cement
	1049	2.5	27.0			0/500		Start lead cement @ 10 #/gal
	1100	2.5	27.0			290		Start tail cement @ 14.4 #/gal
	1107							Through mixing cement
	1111		17.5			400/1000		Start fresh water displacement
	1119					1150/500		Shut down and close port collar
	1122					0/1200		Pressure test to make sure port collar closed
	1124							Knock losse and run in 2 joints of tbg
	1136	3.0	24.0			0/900		Reverse out tbg
	1144							Shut down and rig to run tbg down to 6030'
	1222	3.0	150.0			0/750		Circulate well with treated water
	1330							Shut down and release trucks
Thank you for calling Halliburton Danny and Crew								