KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1137225

Form ACO-1
June 2009
Form Must Be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 33002
Name: Kerr-McGee Oil & Gas Onshore LP
Address 1: PO BOX 1330
Address 2: REGULATORY GROUP
City: HOUSTON State: TX Zip: 77251 + 1330
Contact Person: Kim Vincent
Phone: (832) 636-1000
CONTRACTOR: License # 30606
Name: Murfin Drilling Co., Inc.
Wellsite Geologist: Kevin Hae Hae
Purchaser:

Designate Type of Completion:

- [x] New Well
- [ ] Re-Entry
- [ ] Workover

- [x] Oil
- [ ] WSW
- [ ] SWD
- [ ] SIOW
- [ ] Gas
- [ ] D&A
- [ ] ENHR
- [ ] SIGW
- [ ] OG
- [ ] GSW
- [ ] Temp. Abd.
- [ ] CM *(Coal Bed Methane)*
- [ ] Cathodic
- [ ] Other *(Core, Expl., etc.)*:

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

Operator:
Well Name:
Original Comp. Date: Original Total Depth:

- [ ] Deepening
- [ ] Re-perf.
- [ ] Conv. to ENHR
- [ ] Conv. to SWD
- [ ] Conv. to GSW
- [ ] Plug Back: Plug Back Total Depth
- [ ] Commingled Permit #:
- [ ] Dual Completion Permit #:
- [ ] SWD Permit #:
- [ ] ENHR Permit #:
- [ ] GSW Permit #:

12/21/2012	12/30/2012	01/03/2013
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-187-21219-00-00
Spot Description:
S2 - N2 - NW - NE Sec. 28 Twp. 29 S. R. 41 [ ] East [x] West
440 Feet from [x] North / [ ] South Line of Section
1980 Feet from [x] East / [ ] West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- [x] NE
- [ ] NW
- [ ] SE
- [ ] SW

County: Stanton
Lease Name: HUME 28 Well #: 1
Field Name: Arroyo
Producing Formation: Morrow
Elevation: Ground: 3369 Kelly Bushing: 3375
Total Depth: 5625 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 1605 Feet
Multiple Stage Cementing Collar Used? [ ] Yes [x] No
If yes, show depth set: Feet
If Alternate II completion, cement circulated from:
feet depth to: w/ sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)

Chloride content: 2300 ppm Fluid volume: 300 bbls
Dewatering method used: Evaporated

Location of fluid disposal if hauled offsite:

Operator Name:
Lease Name: License #:
Quarter Sec. Twp. S. R. [ ] East [ ] West
County: Permit #:

AFFIDAVIT

I am the affiant and I hereby certify that 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.

Submitted Electronically

KCC Office Use ONLY

- [ ] **Letter of Confidentiality Received**
  Date:
- [ ] **Confidential Release Date:**
- [ ] **Wireline Log Received**
- [ ] **Geologist Report Received**
- [ ] **UIC Distribution**

ALT [x] I [ ] II [ ] III **Approved by:** Deanna Garrison **Date:** 05/08/2013

Side Two

[redacted] 1137225

Operator Name: Kerr-McGee Oil & Gas Onshore LP Lease Name: HUME 28 Well #: 1

Sec. 28 Twp. 29 S. R. 41 ☐ East ☑ West County: Stanton

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 complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken ☐ Yes ☑ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☐ Yes ☑ No

Cores Taken ☐ Yes ☑ No
Electric Log Run ☐ Yes ☑ No
Electric Log Submitted Electronically ☐ Yes ☐ No
(If no, Submit Copy)

List All E. Logs Run:

☐ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Lower Morrow A	5320	5336
Lower Morrow A	5350	5360
Lower Morrow B	5390	5416

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	12.25	8.625	24	1605	Varicem/Halcem	610	
Production	7.875	5.5	14	5620	Premium	350	

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
☐ Perforate ☐ Protect Casing ☐ Plug Back TD ☐ 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	5320 - 5336	All Perfs 54,810 gals 25# frac 4% KCL, 73,100# 16/30 brown sand.	
6	5350 - 5360		
3	5390 - 5416		

TUBING RECORD: Size: 2.375 Set At: 5460 Packer At:

Liner Run: ☐ Yes ☑ No

Date of First, Resumed Production, SWD or ENHR. 02/02/2013

Producing Method: ☐ Flowing ☑ Pumping ☐ Gas Lift ☐ Other *(Explain)*

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water 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. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*
☐ Other *(Specify)*

PRODUCTION INTERVAL:
5320
5416

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

HALLIBURTON

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 300466	**Ship To #:** UNKNOWN	**Quote #:**	**Sales Order #:** 900095805
Customer: ANADARKO PETROLEUM CORP - EBUS		**Customer Rep:** Kerr, Bradley	
Well Name: Hume	**Well #:** 28-1		**API/UWI #:** 15-187-21168
Field:	**City (SAP):** UNKNOWN	**County/Parish:** Stanton	**State:** Kansas
Legal Description: Section 28 Township 29S Range 41W			
Lat: N 37.503 deg. OR N 37 deg. 30 min. 10.04 secs.		**Long:** W 101.802 deg. OR W -102 deg. 11 min. 51.144 secs.	
Job Purpose: Cement Surface Casing			
Well Type: Development Well	**Job Type:** Cement Surface Casing		
Sales Person: KRANZ, ZACHARY	**Srvc Supervisor:** CHRISTENSEN, STUART	**MBU ID Emp #:** 476488	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
CHRISTENSEN, STUART	7.5	476488	JOHNSON, MATTHEW Warren	7.5	525955	NASH, JONATHAN Clark	7.5	524600
STELL, KEVIN Woodrow	7.5	450776						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
12/23/2012	7	3	12/24/2012	0.5	0.5			
TOTAL					*Total is the sum of each column separately*			

Job

Formation Name			
Formation Depth (MD)	**Top**		**Bottom**
Form Type		**BHST**	
Job depth MD	1620. ft	**Job Depth TVD**	1620. ft
Water Depth		**Wk Ht Above Floor**	4. ft
Perforation Depth (MD)	**From**		**To**

Job Times

	Date	Time	Time Zone
Called Out	23 - Dec - 2012	11:00	CST
On Location	23 - Dec - 2012	17:00	CST
Job Started	23 - Dec - 2012	00:00	CST
Job Completed	23 - Dec - 2012	02:00	CST
Departed Loc	23 - Dec - 2012	00:00	CST

Well Data

Description	New / Used	Max pressure psig	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
12 1/4" Surface Hole				12.25				.	1605.		
8 5/8" Surface Casing	Unknown		8.625	8.097	24.	8 RD (ST&C)	J-55	.	1605.		

Sales/Rental/3rd Party (HES)

Description	Qty	Qty uom	Depth	Supplier
PLUG,CMTG,TOP,8 5/8,HWE,7.20 MIN/8.09 MA	1	EA		
SHOE,GID,8-5/8 8RD	1	EA		
VLVASSY,INSR FLOAT,8-5/8 8RD, 24 lbs/ft	1	EA		
FILLUP ASSY - 1.500 ID - 7 IN. - 8-5/8	1	EA		
CENTRALIZER ASSY - API - 8-5/8 CSG X	5	EA		
CLAMP - LIMIT - 8-5/8 - HINGED -	1	EA		
BASKET - CEMENT - 8 5/8 CSG X 12 1/4	1	EA		
KIT,HALL WELD-A	1	EA		

Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug			
Float Shoe					Bridge Plug					Bottom Plug			

HALLIBURTON

Cementing Job Summary

Float Collar					Retainer					SSR plug set				
Insert Float										Plug Container				
Stage Tool										Centralizers				

Miscellaneous Materials

Gelling Agt		Conc		Surfactant		Conc		Acid Type		Qty		Conc	%
Treatment Fld		Conc		Inhibitor		Conc		Sand Type		Size		Qty	

Fluid Data

Stage/Plug #: 1

Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	Water Pre-Flush		10.00	bbl	8.33	.0	.0	6.0	
2	Lead Slurry	VARICEM (TM) CEMENT (452009)	410.0	sacks	11.4	2.95	18.09	6.0	18.09
	3 %	CALCIUM CHLORIDE, PELLET, 50 LB (101509387)							
	0.1 %	WG-17, 50 LB SK (100003623)							
	0.5 lbm	POLY-E-FLAKE (101216940)							
	18.09 Gal	FRESH WATER							
3	Tail Slurry	HALCEM (TM) SYSTEM (452986)	200.0	sacks	15.6	1.2	5.22	6.0	5.22
	2 %	CALCIUM CHLORIDE, PELLET, 50 LB (101509387)							
	0.25 lbm	POLY-E-FLAKE (101216940)							
	5.218 Gal	FRESH WATER							
4	Displacement		100.00	bbl	8.33	.0	.0	.0	

Calculated Values		Pressures		Volumes					
Displacement	100	Shut In: Instant		Lost Returns	0	Cement Slurry	258	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	133	Actual Displacement	100	Treatment	
Frac Gradient		15 Min		Spacers	10	Load and Breakdown		Total Job	

Rates

Circulating	5	Mixing	5	Displacement	6	Avg. Job	5

Cement Left In Pipe	Amount	46 ft	Reason	Shoe Joint									
Frac Ring # 1 @		ID		Frac ring # 2 @		ID		Frac Ring # 3 @		ID		Frac Ring # 4 @		ID	

The Information Stated Herein Is Correct	Customer Representative Signature

HALLIBURTON

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 300466	**Ship To #:** 2971271	**Quote #:**	**Sales Order #:** 900109736
Customer: ANADARKO PETROLEUM CORP - EBUS		**Customer Rep:** Bingel, Tom	
Well Name: Hume	**Well #:** 28-1		**API/UWI #:** 15-187-21168
Field:	**City (SAP):** JOHNSON	**County/Parish:** Stanton	**State:** Kansas
Legal Description: Section 28 Township 29S Range 41W			
Lat: N 37.503 deg. OR N 37 deg. 30 min. 10.04 secs.		**Long:** W 101.802 deg. OR W -102 deg. 11 min. 51.144 secs.	
Contractor: Murfin	**Rig/Platform Name/Num:** 21		
Job Purpose: Cement Production Casing			
Well Type: Development Well	**Job Type:** Cement Production Casing		
Sales Person: KRANZ, ZACHARY	**Srvc Supervisor:** AGUILERA, FABIAN	**MBU ID Emp #:** 442123	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
AGUILERA, FABIAN J	15	442123	ALMANZA, MONTE	15	105870	HEIDT, JAMES Nicholas	15	517102
SPENCE, PAT J	15	534792	TORRES, CLEMENTE	15	344233			

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
12/31/2012	9		01/01/2013	6	2			
TOTAL					*Total is the sum of each column separately*			

Job

Formation Name			
Formation Depth (MD)	**Top**		**Bottom**
Form Type		**BHST**	
Job depth MD	5625.2 ft	**Job Depth TVD**	5625.2 ft
Water Depth		**Wk Ht Above Floor**	2. ft
Perforation Depth (MD)	**From**		**To**

Job Times

	Date	Time	Time Zone
Called Out	31 - Dec - 2012	10:00	CST
On Location	31 - Dec - 2012	16:00	CST
Job Started	01 - Jan - 2013	01:44	CST
Job Completed	01 - Jan - 2013	03:44	CST
Departed Loc	01 - Jan - 2013	06:00	CST

Well Data

Description	New / Used	Max pressure psig	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
7 7/8" Production Hole				7.875				1605.	5620.		
5 1/2" Production Casing	Unknown		5.5	4.95	15.5	8 RD (ST&C)	J-55	.	5620.		
8 5/8" Surface Casing	Unknown		8.625	8.097	24.	8 RD (ST&C)	J-55	.	1605.		

Sales/Rental/3rd Party (HES)

Description	Qty	Qty uom	Depth	Supplier
SHOE,GID,5-1/2 8RD	1	EA		
PLUG ASSY,3 WIPR LTH-DWN,5 1/2 CSG	1	EA		
BAFFLE ASSY - 5-1/2 8RD - LATCH-DOWN	1	EA		
CENTRALIZER ASSY - TURBO - API -	20	EA		
CLAMP - LIMIT - 5-1/2 - HINGED -	1	EA		
KIT,HALL WELD-A	1	EA		

Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug			
Float Shoe					Bridge Plug					Bottom Plug			

HALLIBURTON

Cementing Job Summary

Float Collar					Retainer					SSR plug set				
Insert Float										Plug Container				
Stage Tool										Centralizers				

Miscellaneous Materials

Gelling Agt		Conc		Surfactant		Conc		Acid Type		Qty		Conc	%
Treatment Fld		Conc		Inhibitor		Conc		Sand Type		Size		Qty	

Fluid Data

Stage/Plug #: 1

Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	N2 Nud		75.00	bbl	.			.0	
2	Water Pre-Flush		10.00	bbl	8.33	.0	.0	6.0	
3	Scavenger Slurry	POZ PREMIUM 50/50 - SBM (12302)	25.0	sacks	10.5	4.32	26.94	6.0	26.94
	5 %	CAL-SEAL 60, 50 LB BAG (101217146)							
	5 %	POTASSIUM CHLORIDE 5% (100001585)							
	8 lbm	KOL-SEAL, 50 LB BAG (100064232)							
	0.5 %	HALAD(R)-322, 50 LB (100003646)							
	26.941 Gal	FRESH WATER							
4	Tail Slurry	POZ PREMIUM 50/50 - SBM (12302)	325.0	sacks	13.9	1.56	6.65	6.0	6.65
	5 %	CAL-SEAL 60, 50 LB BAG (101217146)							
	5 %	POTASSIUM CHLORIDE 5% (100001585)							
	8 lbm	KOL-SEAL, 50 LB BAG (100064232)							
	0.5 %	HALAD(R)-322, 50 LB (100003646)							
	6.647 Gal	FRESH WATER							
5	Displacement		133.00	bbl	8.33	.0	.0	6.0	
	0.8 gal/Mgal	CLA-WEB - TOTE (101985045)							

Calculated Values		Pressures		Volumes					
Displacement	133 BBL	Shut In: Instant		Lost Returns	0	Cement Slurry	109 BBL	Pad	
Top Of Cement	2130 FT.	5 Min		Cement Returns	0	Actual Displacement	133 BBL	Treatment	
Frac Gradient		15 Min		Spacers	85 BBL	Load and Breakdown		Total Job	

Rates

Circulating	5	Mixing	6	Displacement	5	Avg. Job	5

Cement Left In Pipe	Amount	42 ft	Reason	Shoe Joint									
Frac Ring # 1 @		ID		Frac ring # 2 @		ID		Frac Ring # 3 @		ID		Frac Ring # 4 @		ID	

The Information Stated Herein Is Correct	Customer Representative Signature

HALLIBURTON

Cementing Job Log

The Road to Excellence Starts with Safety

Sold To #: 300466	**Ship To #:** UNKNOWN	**Quote #:**	**Sales Order #:** 900095805
Customer: ANADARKO PETROLEUM CORP - EBUS		**Customer Rep:** Kerr, Bradley	
Well Name: Hume	**Well #:** 28-1		**API/UWI #:** 15-187-21168
Field:	**City (SAP):** UNKNOWN	**County/Parish:** Stanton	**State:** Kansas
Legal Description: Section 28 Township 29S Range 41W			
Lat: N 37.503 deg. OR N 37 deg. 30 min. 10.04 secs.		**Long:** W 101.802 deg. OR W -102 deg. 11 min. 51.144 secs.	
Contractor:	**Rig/Platform Name/Num:** Murfin 21		
Job Purpose: Cement Surface Casing			**Ticket Amount:**
Well Type: Development Well	**Job Type:** Cement Surface Casing		
Sales Person: KRANZ, ZACHARY	**Srvc Supervisor:** CHRISTENSEN, STUART		**MBU ID Emp #:** 476488

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	12/23/2012 11:00							CREW CALLED TO YARD FOR JOB.
Depart Yard Safety Meeting	12/23/2012 12:40							CREW DISCUSSED ROUTE, TRAFFIC, AND SAFETY CONCERNS.
Depart from Service Center or Other Site	12/23/2012 12:45							LEFT YARD FOR LOCATION. CONTACTED JOURNEY MANAGMENT.
Arrive At Loc	12/23/2012 17:00							CREW ARRIVED ON LOCATION
Assessment Of Location Safety Meeting	12/23/2012 17:05							DISCUSSED LOCATION OF RESOURCES, SPOTTING OF VEHICLES AND HAZARDS AROUND LOCATION. RIG REMOVING DRILL PIPE, STILL HAVE CASING TO RUN.
Other	12/23/2012 17:10							TALKED WITH COMPANY MAN ABOUT NUMBERS AND RESOURCES. TD: 1615', TP: 1620, PW: 24, GRADE: K-55, OH: 12 1/4, MUD: 9 PPG, ST: 46', WATER TEST: GOOD.
Wait on Customer or Customer Sub-Contractor Equip	12/23/2012 17:20							RIG CREW STILL REMOVING DRILL PIPE, ABOUT TO START CASING.

HALLIBURTON

Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Wait on Customer or Customer Sub-Contractor Equipm	12/23/2012 20:00							CASING CREW COMPLETED CASING. CASING CREW BEGAN THEIR RIG DOWN.
Pre-Rig Up Safety Meeting	12/23/2012 20:10							CREW DISCUSSED HAZARDS, PINCHPOINTS, AND LAY OUT OF RIG UP FOR JOB, INCLUDING NEARBY HAZARDS AND RESOURCES.
Rig-Up Equipment	12/23/2012 20:20							WITH CASING CREW GONE, EQUIPMENT COULD NOW BE SPOTTED. CREW BEGAN RIGGING UP.
Rig-Up Completed	12/23/2012 21:40							RIG UP COMPLETED INCLUDING STABBING HEAD AND RIGGING UP IRON ON FLOOR.
Safety Meeting	12/23/2012 21:50							HELD SAFETY MEETING WITH RIG CREW AND HES. DISCUSSED JOB PROCEEDURE, HAZARD AREAS, EMERGENCY RESPONSE INFORMATION, AND SAFETY CONCERNS.
Test Lines	12/23/2012 22:02		1	1			3000.0	TESTED LINES TO 3000 PSI. RESET KICKOUTS TO 1500 PSI.
Pump Spacer	12/23/2012 22:17		4	10			92.0	PUMPED 10 BBLS OF FRESH WATER SPACER @ 8.33 PPG.
Pump Lead Cement	12/23/2012 22:22		5	215			110.0	PUMPED 215 BBLS OF LEAD CEMENT MIXED @ 11.4 PPG, 410 SKS.
Pump Tail Cement	12/23/2012 23:04		5	43			175.0	PUMPED 43 BBLS OF TAIL CEMENT MIXED @ 15.6 PPG,200 SKS.
Other	12/23/2012 23:05		6		10		177.0	CEMENT RETURNS TO SURFACE. 133 BBLS BACK TO SURFACE.
Activity Description	**Date/Time**	**Cht #**	**Rate bbl/ min**	**Volume bbl**		**Pressure psig**		**Comments**
				Stage	**Total**	**Tubing**	**Casing**	

Sold To # : 300466 Ship To # : UNKNOWN Quote # : Sales Order # : 900095805

SUMMIT Version: 7.3.0045 Monday, December 24, 2012 12:04:00

HALLIBURTON

Cementing Job Log

Shutdown	12/23/2012 23:07							SHUTDOWN TO DROP TOP PLUG.
Drop Top Plug	12/23/2012 23:10							DROPPED TOP PLUG.
Pump Displacement	12/23/2012 23:11		6	100			100.0	PUMPED 100 BBLS OF FRESH WATER DISPLACEMENT @ 8.33
Displ Reached Cmnt	12/23/2012 23:23		6		40		215.0	DISPLACEMENT REACHED CEMENT WITH 40 BBLS GONE.
Slow Rate	12/23/2012 23:30		3		80		340.0	SLOWED RATE TO 3 BPM TO BUMP PLUG.
Bump Plug	12/23/2012 23:36		3		100		1360.0	BUMPED PLUG @ 580 PSI + 500 PSI OVER. 1360 PSI.
Check Floats	12/23/2012 23:38		0	1			.0	CHECKED FLOATS. 1 BBL BACK.
End Job	12/23/2012 23:40							ENDED JOB
Pre-Rig Down Safety Meeting	12/23/2012 23:45							DISCUSSED PINCH POINTS, SAFETY HAZARDS, AND JOB ASSIGNMENTS.
Rig-Down Equipment	12/23/2012 23:50							BEGAN RIGGING DOWN.
Rig-Down Completed	12/24/2012 00:30							FINISHED RIGGING DOWN EQUIPMENT.
Depart Location Safety Meeting	12/24/2012 00:45							DISCUSSED ROUTE, TRAFFIC, AND SAFETY CONCERNS.
Depart Location for Service Center or Other Site	12/24/2012 00:50							CONTACTED JOURNEY MANAGMENT.
Other	12/24/2012 00:51							THANK YOU FOR CHOOSING HALLIBURTON.

HALLIBURTON

Cementing Job Log

The Road to Excellence Starts with Safety

Sold To #: 300466	**Ship To #:** 2971271	**Quote #:**	**Sales Order #:** 900109736
Customer: ANADARKO PETROLEUM CORP - EBUS		**Customer Rep:** Bingel, Tom	
Well Name: Hume	**Well #:** 28-1		**API/UWI #:** 15-187-21168
Field:	**City (SAP):** JOHNSON	**County/Parish:** Stanton	**State:** Kansas
Legal Description: Section 28 Township 29S Range 41W			
Lat: N 37.503 deg. OR N 37 deg. 30 min. 10.04 secs.		**Long:** W 101.802 deg. OR W -102 deg. 11 min. 51.144 secs.	
Contractor: Murfin	**Rig/Platform Name/Num:** 21		
Job Purpose: Cement Production Casing			**Ticket Amount:**
Well Type: Development Well	**Job Type:** Cement Production Casing		
Sales Person: KRANZ, ZACHARY	**Srvc Supervisor:** AGUILERA, FABIAN		**MBU ID Emp #:** 442123

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	12/31/2012 10:00							CREW CALLED OUT FOR ANARDARKO PETROLEUM. HUME 28-1, 5 1/2 PRODUCTION
Pre-Convoy Safety Meeting	12/31/2012 11:30							DISCUSSED ALL POTENTIAL ROAD HAZARDS WITH HES CREW
Crew Leave Yard	12/31/2012 12:00							CALL IN JOURNEY MANAGEMENT, IN ROUTE TO ANADARKO, HUME 28-1
Arrive At Loc	12/31/2012 16:00							ARRIVE AT LOCATION
Assessment Of Location Safety Meeting	12/31/2012 16:10							ASSESSED THE LOCATION, SPOT IN EQUIPMENT, WATER TESTED GOOD, GOT WITH CM AND WENT OVER JOB DEPTH AND NUMBERS, AT THIS TIME RIG CREW IS TRIPPING OUT OF HOLE WITH DP, ASO HAVE SOME WHAT RETURNS
Pre-Rig Up Safety Meeting	12/31/2012 16:20							DISCUSSED ALL POTENTIAL HAZARDS AND PINCH POINTS WITH HES CREW
Rig-Up Equipment	12/31/2012 16:30							RIG UP IRON AND WATER HOSES
Rig-Up Completed	12/31/2012 17:30							RIG UP WENT WELL AND SAFELY

HALLIBURTON

Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Other	12/31/2012 19:00							AT THIS TIME CASING CREW IS RIGGING UP TP RUN CASING DOWNHOLE
Other	01/01/2013 01:00							AT THIS TIME CASING DONE RUNNING CASING DOWNHOLE, CM REQUESTED TO CIRCULATE TIL CASING CREW RIG DOWN BEFORE PUMPING JOB
Pre-Job Safety Meeting	01/01/2013 01:30							DISCUSSED ALL POTENTIAL HAZARDS WHEN PRESSURE IS PRESENT WITH HES AND RIG CREW, WENT OVER JOB SCHEDULE AND NUMBERS WITH CM, AT THIS TIME THEY HAVE GOOD RETURNS
Start Job	01/01/2013 01:44							
Test Lines	01/01/2013 01:45							TEST LINES TO 3000 PSI
Pump Spacer 1	01/01/2013 02:20		5	75			650.0	PUMP N2 MUD OF 75 BBL
Pump Spacer	01/01/2013 02:38		5	5			450.0	PUMP SPACER 10 BBL FW
Pump Lead Cement	01/01/2013 02:44		5	19			600.0	PUMP LEAD CEMENT = 25 SKS = 19 BBL @ 10.5#
Pump Tail Cement	01/01/2013 02:48		5	90			525.0	PUMP TAIL CEMENT = 325 SKS = 90 BBL @ 13.9#
Clean Lines	01/01/2013 03:06							STOP CLEAN LINES AND TUB THROUGH WASH UP LINE
Drop Top Plug	01/01/2013 03:11							DROP TOP DART PLUG
Pump Displacement	01/01/2013 03:12		6	133			125.0	PUMP DISPLACEMENT OF 133 BBL OF FW
Activity Description	**Date/Time**	**Cht #**	**Rate bbl/ min**	**Volume bbl**		**Pressure psig**		**Comments**
				Stage	**Total**	**Tubing**	**Casing**	

Sold To # : 300466 Ship To # :2971271 Quote # : Sales Order # : 900109736

SUMMIT Version: 7.3.0045 Tuesday, January 01, 2013 04:34:00

HALLIBURTON

Cementing Job Log

Displ Reached Cmnt	01/01/2013 03:28		4		85		210.0	DISPLACEMENT REACH CEMENT AT 85 BBL AT 210 PSI, CM REQUESTED TO SLOW PUMP RATE TO 4 BPM WHEN PLUG REACHES CEMENT
Slow Rate	01/01/2013 03:37		2		123		480.0	SLOW RATE TO 2 BPM TO BUMP PLUG AT 123 BBL GONE
Bump Plug	01/01/2013 03:39		2		133		600.0	BUMP PLUG AT 600 PSI
Check Floats	01/01/2013 03:41						1125.0	FLOATS HELD GOOD, RELEASE PRESSURE AND GOT BACK 1 BBL
End Job	01/01/2013 03:44							
Pre-Rig Down Safety Meeting	01/01/2013 03:50							DISCUSSED ALL POTENTIAL HAZARDS AND PINCH POINTS WITH HES CREW
Rig-Down Equipment	01/01/2013 04:00							RIG DOWN IRON AND WATER HOSES
Rig-Down Completed	01/01/2013 05:00							RIG DOWN WENT WELL AND SAFELY
Pre-Convoy Safety Meeting	01/01/2013 05:30							DISCUSSED ALL POTENTIAL ROAD HAZARDS WITH HES CREW
Crew Leave Location	01/01/2013 06:00							THANK YOU FOR CHOOSING HALLIBURTON, FABIAN AND CREW