

HALLIBURTON

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 300466		Ship To #: 2841618		Quote #:		Sales Order #: 8021971					
Customer: ANADARKO PETROLEUM CORP - EBUS				Customer Rep: Almanza, Abraham							
Well Name: Bird			Well #: 21-2		API/UWI #: 15-187-21192						
Field: ARROYO		City (SAP): JOHNSON		County/Parish: Stanton		State: Kansas					
Legal Description: Section 21 Township 29S Range 41W											
Lat: N 37.514 deg. OR N 37 deg. 30 min. 49.392 secs.				Long: E 101.811 deg. OR E 101 deg. 48 min. 38.808 secs.							
Contractor: Murfin			Rig/Platform Name/Num: #22								
Job Purpose: Cement Surface Casing											
Well Type: Development Well				Job Type: Cement Surface Casing							
Sales Person: HESTON, MYRON			Srvc Supervisor: LISH, DEREK		MBU ID Emp #: 295022						
Job Personnel											
HES Emp Name		Exp Hrs	Emp #	HES Emp Name		Exp Hrs	Emp #				
CHRISTENSEN, STUART		6.5	476488	GOMEZ, OSCAR		6.5	490448				
TORRES, CLEMENTE		6.5	344233								
LISH, DEREK D		6.5	295022								
Equipment											
HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way				
10244148	85 mile	10286731	85 mile	10897843	85 mile	10924982	85 mile				
11019295	85 mile	11074742	85 mile	11212168	85 mile						
Job Hours											
Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours				
3-11-2011	6.5	3.0									
TOTAL			Total is the sum of each column separately								
Job				Job Times							
Formation Name				Date		Time					
Formation Depth (MD) Top				Bottom		Time Zone					
Form Type				Called Out		11 - Mar - 2011 06:00 CST					
Job depth MD				On Location		11 - Mar - 2011 12:30 CST					
Water Depth				Job Started		11 - Mar - 2011 14:48 CST					
Perforation Depth (MD) From				Job Completed		11 - Mar - 2011 17:36 CST					
To				Departed Loc		11 - Mar - 2011 19:00 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					1665.		
8 5/8" Surface Casing	Unknown		8.625	8.097	24.	8 RD (ST&C)	J-55		1674	1660	
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						
CLR, FLT, TROPHY SEAL, 8-5/8 8RD				1	EA						
AUTOFILL KIT, TROPHY SEAL				1	EA						
CENTRALIZER ASSY - API - 8-5/8 CSG X				5	EA						
CLP, LIM, 8 5/8, FRICT, WTH DOGS				1	EA						
BASKET - CEMENT - 8 5/8 CSG X 12 1/4				1	EA						
KIT, HALL WELD-A				1	EA						
FILLUP ASSY - 1.500 ID - 7 IN. - 8-5/8				1	EA						

HALLIBURTON

Cementing Job Summary

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				
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 Fid			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 ft ³ /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk			
1	Water Pre-Flush				0.00	bbl	8.33	.0	.0	6.0				
2	Lead Slurry	VARICEM (TM) CEMENT (452009)			540.0	sacks	11.1	3.39	20.4	6.0	20.4			
	3 %	CALCIUM CHLORIDE - HI TEST PELLET (100005053)												
	0.1 %	WG-17, 50 LB SK (100003623)												
	0.5 lbm	POLY-E-FLAKE (101216940)												
	10 lbm	KOL-SEAL, BULK (100064233)												
	20.395 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 - HI TEST PELLET (100005053)												
	0.25 lbm	POLY-E-FLAKE (101216940)												
	5.218 Gal	FRESH WATER												
4	Displacement				102.00	bbl	8.33	.0	.0	.0				
Calculated Values				Pressures				Volumes						
Displacement	103	Shut In: Instant				Lost Returns	NO	Cement Slurry		369	Pad			
Top Of Cement	SURFACE	5 Min				Cement Returns	45	Actual Displacement		103	Treatment 4			
Frac Gradient		15 Min				Spacers	0	Load and Breakdown			Total Job			
Rates														
Circulating	4	Mixing		4	Displacement		4	Avg. Job		4				
Cement Left In Pipe	Amount	46.87 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 #: 2841618	Quote #:	Sales Order #: 8021971
Customer: ANADARKO PETROLEUM CORP - EBUS		Customer Rep: Almanza, Abraham	
Well Name: Bird	Well #: 21-2	API/UWI #: 15-187-21192	
Field: ARROYO	City (SAP): JOHNSON	County/Parish: Stanton	State: Kansas
Legal Description: Section 21 Township 29S Range 41W			
Lat: N 37.514 deg. OR N 37 deg. 30 min. 49.392 secs.		Long: E 101.811 deg. OR E 101 deg. 48 min. 38.808 secs.	
Contractor: Murfin		Rig/Platform Name/Num: #22	
Job Purpose: Cement Surface Casing			Ticket Amount:
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: HESTON, MYRON		Srvc Supervisor: LISH, DEREK	MBU ID Emp #: 295022

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	03/11/2011 06:00							ANADARKO BIRD 21-2 8 5/8" SURFACE
Depart Yard Safety Meeting	03/11/2011 08:00							JOURNEY MANAGEMENT MEETING WITH CREW
Crew Leave Yard	03/11/2011 08:10							REQUESTED ON LOCATION @ 12:00
Other	03/11/2011 11:00							MET WITH BULK CREW IN HUGATON
Arrive At Loc	03/11/2011 12:30							RIG RUNNING CASING
Assessment Of Location Safety Meeting	03/11/2011 12:35							MEET WITH CUSTOMER, ASSESS LOCATION WITH CREW, SPOTTING EQUIPMENT, RIG UP PROCEDURES, HAZARDS ON LOCATION.
Rig-Up Equipment	03/11/2011 12:45							SPOT TRUCKS, RIG UP HES LINES TO THE RIG
Casing on Bottom	03/11/2011 14:00							8 5/8 24# J-55 CSG 1671 FT (TP) SJ-46.87, HOLE SIZE 12 1/4 1665 FT..(TD)
Rig-Up Equipment	03/11/2011 14:05							STAB HEAD, RIG UP FLOOR
Circulate Well	03/11/2011 14:15							RIG CIRCULATE THROUGH CEMENT HEAD, CASING CREW RIGGING DOWN
Pre-Job Safety Meeting	03/11/2011 14:30							WITH RIG AND HES CREWS, JOB OPERATIONS AND HAZARDS

Sold To #: 300466

Ship To #: 2841618

Quote #:

Sales Order #: 8021971

SUMMIT Version: 7.20.130

Friday, March 11, 2011 06:00:00

HALLIBURTON

Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Start Job	03/11/2011 14:48							
Test Lines	03/11/2011 14:49							PRESSURE TEST HES PUMPS AND LINES TO 2000 PSI
Pump Lead Cement	03/11/2011 15:00		4	326			125.0	540 SKS MIXED @ 11.1 PPG. (HOL-1121 FT) (TOL-SURFACE)
Pump Tail Cement	03/11/2011 16:55		4	43			210.0	200 SKS MIXED @ 15.6 PPG. (HOT-544 FT.) (TOT-1121 FT)
Drop Top Plug	03/11/2011 17:08							8 5/8" HWE
Pump Displacement	03/11/2011 17:09		4	103			456.0	FRESH WATER DISPLACEMENT (103 BBLs TOTAL)
Displ Reached Cmnt	03/11/2011 17:18		4	45			180.0	CAUGHT CMT AT 45 BBLs DISPLACEMENT AWAY
Cement Returns to Surface	03/11/2011 17:21		4	58			175.0	45 BBLs, 75 SKS OF CMT TO SURFACE
Slow Rate	03/11/2011 17:30		3	90			430.0	SLOW RATE TO BUMP PLUG
Bump Plug	03/11/2011 17:33		3	103			500.0	BUMPED PLUG W/500 PSI OVER
Check Floats	03/11/2011 17:35						1300.0	FLOATS HELD, 1 BBL BACK
End Job	03/11/2011 17:36							HAD GOOD RETURNS AND LIFT PRESSURE THROUGH JOB
Pre-Rig Down Safety Meeting	03/11/2011 17:40							RIG DOWN PROCEDURE, HAZARDS ON LOCATION
Rig-Down Equipment	03/11/2011 17:45							RIG DOWN HES
Depart Location Safety Meeting	03/11/2011 18:50							JOURNEY MANAGEMENT MEETING WITH CREW
Crew Leave Location	03/11/2011 19:00							THANK YOU FROM HALLIBURTON CREW

Sold To #: 300466

Ship To #: 2841618

Quote #:

Sales Order #: 8021971

SUMMIT Version: 7.20.130

Friday, March 11, 2011 06:00:00

HALLIBURTON

Work Order Contract

Order Number

8021971

TO: HALLIBURTON ENERGY SERVICES, INC. - YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICE PERSONNEL TO DELIVER AND OPERATE THE SAME AS AN INDEPENDENT CONTRACTOR TO CUSTOMER LISTED BELOW AND DELIVER AND SELL PRODUCTS, SUPPLIES AND MATERIALS FOR THE PURPOSE OF SERVICING:

Well No. 21-2	Farm or Lease Bird	County Stanton	State Kansas	Well Permit Number 15-187-21192
Customer ANADARKO PETROLEUM CORP - EBUS		Well Owner	Job Purpose Cement Surface Casing	

THIS WORK ORDER MUST BE SIGNED BEFORE WORK IS COMMENCED

A. **CUSTOMER REPRESENTATION** - Customer warrants that the well is in proper condition to receive the services, equipment, products, and materials to be supplied by Halliburton Energy Services, Inc. (hereinafter "Halliburton").

B. **PRICE AND PAYMENT** - The services, equipment, products, and/or materials to be supplied hereunder are priced in accordance with Halliburton's current price list. All prices of Halliburton are exclusive of any federal, state or municipal taxes which may be imposed on the sale or use of any materials, products or supplies furnished or services performed. Customer agrees to pay such taxes in addition to the prices in Halliburton's price list. If Customer does not have an approved open account with Halliburton, all sums due are payable in cash at the time of performance of services or delivery of equipment, products or materials. If Customer has an approved open account, invoices are payable on the twentieth day after the date of invoice. Customer agrees to pay interest on any unpaid balance from the date payable until paid at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event Halliburton employs an attorney for collection of any account, Customer agrees to pay attorney fees of 20% of the unpaid account, or Halliburton's actual attorney fees, whichever is greater, plus all collection and court costs. Customer agrees that the amount of attorney fees set out herein are reasonable and necessary.

C. **RELEASE AND INDEMNITY** - Customer agrees to RELEASE Halliburton Group from any and all liability for any and all damages whatsoever to property of any kind owned by, in the possession of, or leased by Customer and those persons and entities Customer has the ability to bind by contract or which are co-interest owners or joint venturers with Customer. Customer also agrees to DEFEND, INDEMNIFY, AND HOLD Halliburton Group HARMLESS from and against any and all liability, claims, costs, expenses, attorney fees and damages whatsoever for personal injury, illness, death, property damage and loss resulting from loss of well control; services to control a wild well whether underground or above the surface; reservoir or underground damage, including loss of oil, gas, other mineral substances or water; surface damage arising from underground damage; damage to or loss of the well bore; subsurface trespass or any action in the nature thereof; fire, explosion; subsurface pressure, radioactivity, and pollution and contamination and its cleanup and control.

CUSTOMER'S RELEASE, DEFENSE, INDEMNITY AND HOLD HARMLESS obligations will apply even if the liability and claims are caused by the sole, concurrent, active or passive negligence, fault, or strict liability of one or more members of the Halliburton Group, the unseaworthiness of any vessel or any defect in the data, products, supplies, materials or equipment furnished by any member or members of the Halliburton Group whether in the design, manufacture, maintenance or marketing thereof or from a failure to warn of such defect. "Halliburton Group" is defined as Halliburton Energy Services, Inc., its parent, subsidiary, and affiliated companies, insurers and subcontractors and all its/their officers, directors, employees, consultants and agents. Customer's RELEASE, DEFENSE, INDEMNITY AND HOLD HARMLESS obligations apply whether the personal injury, illness, death, property damage or loss is suffered by one or more members of the Halliburton Group, Customer, or any other person or entity. Customer agrees to support such obligations assumed herein with liability insurance with limits of not less than \$500,000. Customer agrees to name Halliburton Group as named additional insured on all of its general liability policy(s). Customer agrees that its liability under this Contract is not limited by the amounts of its insurance coverage, except where and as may be required by applicable local law for the provisions of this Contract to be enforceable.

D. **EQUIPMENT LIABILITY** - Customer shall at its risk and expense attempt to recover any Halliburton Group equipment lost or lodged in the well. If the equipment is recovered and repairable, Customer shall pay the repair costs, unless caused by Halliburton's sole negligence. If the equipment is not recovered or is irreparable, Customer shall pay the current published replacement rate, unless caused by Halliburton's sole negligence. If a radioactive source becomes lost or lodged in the well, Customer shall meet all requirements of Section 39.15(a) of the Nuclear Regulatory Commission regulations and any other applicable laws or regulations concerning retrieval or abandonment and shall permit Halliburton to monitor the recovery or abandonment efforts all at no risk or liability to Halliburton Group. Customer shall be responsible for damage to or loss of Halliburton group equipment, products, and materials while in transit aboard Customer-supplied transportation, even if such is arranged by Halliburton at Customer's request, and during loading and unloading from such transport. Customer will also pay for the repair or replacement of Halliburton group equipment damaged by corrosion or abrasion due to well effluents.

E. **LIMITED WARRANTY** - Halliburton warrants only title to the equipment, products, and materials supplied under this Contract and that same are free from defects in workmanship and materials for thirty (30) days from the date of delivery. **THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE.** Halliburton's sole liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, breach of warranty or otherwise) arising out of the sale, lease or use of any equipment, products, or materials is expressly limited to the replacement of such on their return to Halliburton or, at Halliburton's option, to the allowance to Customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, consequential, or punitive damages. Because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, **HALLIBURTON IS UNABLE TO GUARANTEE THE EFFECTIVENESS OF THE EQUIPMENT, MATERIALS, OR SERVICE, NOR THE ACCURACY OF ANY CHART INTERPRETATION, RESEARCH ANALYSIS, JOB RECOMMENDATION OR OTHER DATA FURNISHED BY HALLIBURTON GROUP.** Halliburton personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but Customer agrees that Halliburton Group shall not be liable for and **CUSTOMER SHALL INDEMNIFY HALLIBURTON GROUP AGAINST ANY DAMAGES ARISING FROM THE USE OF SUCH INFORMATION**, even if such is contributed to or caused by the active or passive negligence, fault or strict liability of any member or members of Halliburton Group. Halliburton also does not warrant the accuracy of data transmitted by electronic process, and Halliburton will not be responsible for accidental or intentional interception of such data by third parties.

F. **GOVERNING LAW** - The validity, interpretation and construction of this Contract shall be determined by the laws of the jurisdiction where the services are performed or the equipment or materials are delivered.

G. **DISPUTE RESOLUTION** Except for Halliburton's statutory rights with regard to collection of past due invoices for services or materials, including the Contractor's statutory rights for perfection and enforcement of mechanics' and materialmen's liens, Customer and Halliburton agree that any dispute that may arise out of the performance of this Contract shall be resolved by binding arbitration by a panel of three arbitrators under the rules of the American Arbitration Association. The arbitration will take place in Houston, TX.

H. **SEVERABILITY** - If any provision or part thereof of this Contract shall be held to be invalid, void, or of no effect for any reason, such holding shall not be deemed to affect the validity of the remaining provisions of this Contract which can be given effect, without the invalid provision or part thereof, and to this end, the provisions of this Contract are declared to be severable. Customer and Halliburton agree that any provision of this Contract that is unenforceable or void under applicable law will be modified to achieve the intent of the parties hereunder to the greatest extent allowed by applicable law.

I. **MODIFICATIONS** - Customer agrees that Halliburton shall not be bound by any modifications to this Contract, except where such modification is made in writing by a duly authorized executive officer of Halliburton. Requests for modifications should be directed to the Vice President - Legal, 10200 Belleire Blvd, Houston, TX 77072-6299.

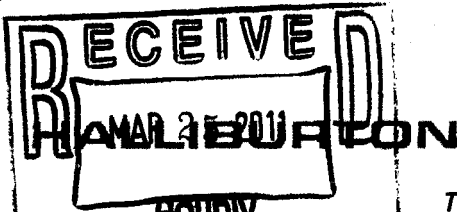
I HAVE READ AND UNDERSTAND THIS WORK ORDER CONTRACT WHICH CONTAINS RELEASE AND INDEMNITY LANGUAGE WHICH CUSTOMER ACKNOWLEDGES IS CONSPICUOUS AND AFFORDS FAIR AND ADEQUATE NOTICE AND I REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMER'S AGENT. I AM SIGNING THIS WORK ORDER CONTRACT WITH THE UNDERSTANDING THAT ITS TERMS AND CONDITIONS WILL NOT APPLY TO THE EXTENT THEY CONFLICT WITH TERMS AND CONDITIONS OF A SIGNED MASTER SERVICE CONTRACT BETWEEN THE PARTIES.

Customer Acceptance of Terms and Conditions, Materials and Services



CUSTOMER Authorized Signatory

Date



Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: REGGATORY	Ship To #: 2841618	Quote #:	Sales Order #: 8034443
Customer: ANADARKO PETROLEUM CORP - EBUS		Customer Rep: Almanza, Abraham	
Well Name: Bird	Well #: 21-2	API/UWI #: 15-187-21192	
Field: ARROYO	City (SAP): JOHNSON	County/Parish: Stanton	State: Kansas
Legal Description: Section 21 Township 29S Range 41W			
Lat: N 37.514 deg. OR N 37 deg. 30 min. 49.392 secs.		Long: E 101.811 deg. OR E 101 deg. 48 min. 38.808 secs.	
Contractor: MURFIN DRILLING		Rig/Platform Name/Num: 22	
Job Purpose: Cement Production Casing			
Well Type: Development Well		Job Type: Cement Production Casing	
Sales Person: HESTON, MYRON		Srvc Supervisor: CARRILLO, EDUARDO	MBU ID Emp #: 371263

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
CARRILLO, EDUARDO Carrillo	5.5	371263	LOPEZ, JUAN R	5.5	198514	RODRIGUEZ, EDGAR Alejandro	5.5	442125

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10240236	85 mile	10744298C	85 mile	10866807	85 mile	10988832	85 mile
11133699	85 mile						

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
03-15-2011	5.5	3.5						

TOTAL Total is the sum of each column separately

Job				Job Times			
Formation Name	Formation Depth (MD)	Top	Bottom	Date	Time	Time Zone	
				Called Out	15 - Mar - 2011	11:30	CST
				On Location	15 - Mar - 2011	15:00	CST
Form Type	BHST		135 degF	Job Started	15 - Mar - 2011	19:17	CST
Job depth MD	5654	5655	ft	Job Depth TVD	5654	5655	ft
Water Depth			5. ft	Job Completed	15 - Mar - 2011	20:31	CST
Perforation Depth (MD)	From	To		Departed Loc	15 - Mar - 2011	21:55	CST

Well Data

Description	New / Used	Max pressure psig	Size in	ID in	Weight lbf/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
7 7/8" Production Hole				7.875				1650.	5900.	5654	
5 1/2" Production Casing	Unknown		5.5	4.95	15.5	8 RD (ST&C)	J-55	.	5900.	5654	
8 5/8" Surface Casing	Unknown		8.625	8.097	24.	8 RD (ST&C)	J-55	1650.			

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	5 1/2	1	h
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container	5 1/2	1	h
Stage Tool										Centralizers	5 1/2	20	h


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

Fluid Data

Stage/Plug #: 1										
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft ³ /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk	
1	Water Pre-Flush		10.00	bbf	8.33	.0	.0	6.0		
2	Scavenger Slurry	POZ PREMIUM 50/50 - SBM (12302)	25.0	sacks	10.5	4.22	25.99	6.0	25.99	
	5 %	CAL-SEAL 60, 50 LB BAG (101217146)								
	5 %	POTASSIUM CHLORIDE 5% (100001585)								
	8 lbm	GILSONITE, BULK (100003700)								
	0.5 %	HALAD(R)-322, 50 LB (100003646)								
	25.992 Gal	FRESH WATER								
3	Tail Slurry	POZ PREMIUM 50/50 - SBM (12302)	230.0	sacks	13.9	1.52	6.16	6.0	6.16	
	5 %	CAL-SEAL 60, 50 LB BAG (101217146)								
	5 %	POTASSIUM CHLORIDE 5% (100001585)								
	8 lbm	GILSONITE, BULK (100003700)								
	0.5 %	HALAD(R)-322, 50 LB (100003646)								
	6.162 Gal	FRESH WATER								
4	4% CLAFIX 3 Water Displacement		139.00	bbf	8.33	.0	.0	6.0		
	0.125 gal/bbl	CLAYFIX 3, 5 GAL PAIL (101810105)								

Calculated Values		Pressures		Volumes					
Displacement	134	Shut In: Instant		Lost Returns	0	Cement Slurry	81	Pad	
Top Of Cement	2590	5 Min		Cement Returns	0	Actual Displacement	134	Treatment	
Frac Gradient		15 Min		Spacers	10	Load and Breakdown		Total Job	225

Rates									
Circulating	3	Mixing	3	Displacement	3	Avg. Job	3		
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

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Customer: ANADARKO PETROLEUM CORP - EBUS		Customer Rep: Almanza, Abraham	
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Field: ARROYO	City (SAP): JOHNSON	County/Parish: Stanton	State: Kansas
Legal Description: Section 21 Township 29S Range 41W			
Lat: N 37.514 deg. OR N 37 deg. 30 min. 49.392 secs.		Long: E 101.811 deg. OR E 101 deg. 48 min. 38.808 secs.	
Contractor: MURFIN DRILLING		Rig/Platform Name/Num: 22	
Job Purpose: Cement Production Casing			Ticket Amount:
Well Type: Development Well		Job Type: Cement Production Casing	
Sales Person: HESTON, MYRON		Srvc Supervisor: CARRILLO, EDUARDO	MBU ID Emp #: 371263

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	03/15/2011 11:30							Dispach call out cement crew for Anadarko Job Bird # 21-2 5 1/2 Production
Pre-Convoy Safety Meeting	03/15/2011 12:30							Discuss Route to take and Hazards on the road and all stops pland
Arrive At Loc	03/15/2011 15:00							
Assessment Of Location Safety Meeting	03/15/2011 15:01							Rig was ready to run casing waithng on float equipment waithng on halliburton. I was not informed to come deliver cirulating iron or float equipment last night or by e-mail at all.Customer was upset.
Other	03/15/2011 15:10							Casing runing casing in hole
Wait on Customer or Customer Sub-Contractor Equip	03/15/2011 15:11							Waiting on casing crew to get dune
Pre-Rig Up Safety Meeting	03/15/2011 15:20							Discused all red zones and spoting in equipment have spoter at all times were to run iron and get water from.
Rig-Up Completed	03/15/2011 16:20							

Sold To # : 300466

Ship To # :2841618

Quote # :

Sales Order # :

8034443

SUMMIT Version: 7.20.130

XXX, XXX 00, 0000 00:00:00

HALLIBURTON

Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Other	03/15/2011 16:25							Got numbers from customer rep Abraham Almanza Have Coustomer Sing Work Order Contract // TD=5655//TP=5655//SJ=46.20//Disp = 134 bbls. CAP 51/2 = .0238 // V&H OF 7 7/8 OH = 32.4066// 5655 - 46.20 = 5608.9 = 134 BBLS DISP
Pre-Job Safety Meeting	03/15/2011 18:50							Discused job steps with all have rig crew sing safte sheet discused volums and pressers and how fast to pump job with company rep.
Start Job	03/15/2011 19:17							
Test Lines	03/15/2011 19:18						4000.0	Test Lines @ 4000 psi heald relased prusser on the truck
Pump Spacer 1	03/15/2011 19:20		4	10	10		250.0	Pumped 10 bbls fresh water spacer
Pump Lead Cement	03/15/2011 19:21		4	19	29		300.0	Pumped 25 sks Scavenger cmt @ 10.5 ppg = 19 bbls cmt = 105.5 CU/FT
Pump Tail Cement	03/15/2011 19:26		3	62	91		200.0	Pumped 230 sks cmt @ 13.9 ppg = 62 bbls cmt = 349.6 CU/FT
Shutdown	03/15/2011 19:47							
Drop Top Plug	03/15/2011 19:47							Drop Top Plug
Pump Displacement	03/15/2011 19:53		6	134	225		100.0	Pumped Fresh water 134 bbls pumped at 6 bpm till we reach cmt and then slow down to 3 BPM Per coustomer rep.
Displ Reached Cmnt	03/15/2011 20:11		3	134	225		300.0	Displacment Reach cmt @ 85 bbls pumped slowd down to 3 bpm
Slow Rate	03/15/2011 20:26		2	134	225		850.0	Slowd down last 20 bbls to 2 bpm presser at 850
Bump Plug	03/15/2011 20:31						1200.0	Went 500 Over Bumped at 1200 took to 1715 psi

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HALLIBURTON

Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Check Floats	03/15/2011 20:34							Floats held 2 bbl Back
End Job	03/15/2011 20:35							
Pre-Rig Down Safety Meeting	03/15/2011 20:40							Discuss Pinchpoint and Tripping Hazards
Rig-Down Completed	03/15/2011 21:40							
Other	03/15/2011 21:54							THANK YOU FOR CHOOSING HALLIBURTON
Crew Leave Location	03/15/2011 21:55							

Sold To # : 300466

Ship To # :2841618

Quote # :

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