



KANSAS CORPORATION COMMISSION 1055940
OIL & GAS CONSERVATION DIVISION

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: Joyce Martens
Phone: (832) 636-7978
CONTRACTOR: License # 30606
Name: Murfin Drilling Co., Inc.
Wellsite Geologist: Ed Bucher
Purchaser: NCRA

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SLOW
- 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 #: _____

<u>02/24/2011</u>	<u>03/03/2011</u>	<u>03/19/2011</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-187-21191-00-00

Spot Description: _____

N2 SW SW NW Sec. 21 Twp. 29 S. R. 41 East West
2,180 Feet from North / South Line of Section
330 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: Stanton

Lease Name: Bird Well #: 21-1

Field Name: Arroyo

Producing Formation: Morrow

Elevation: Ground: 3420 Kelly Bushing: 3430

Total Depth: 5900 Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: 1650 Feet

Multiple Stage Cementing Collar Used? Yes 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: 2100 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 I II III Approved by: Deanna Garrison Date: 05/19/2011



1055940

Operator Name: Kerr-McGee Oil & Gas Onshore LP Lease Name: Bird Well #: 21-1
 Sec. 21 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 <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 Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: Attached	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum Attached Attached Attached
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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	12.250	8.625	24	1650	Varicem/Halcem	650	3% CC .5 Flake
Production	7.875	5.500	15.5	5900	Poz Prem 50/50	360	5% CC .5 Halad

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 <i>(Amount and Kind of Material Used)</i>	Depth
4	5368'-5390'	Frac w/42,000# 16/30 Brady Snd	5368'-5390'
		80,000# Resin Coated 16/30 Brady	
		Snd & 44,688 Gals xl lg w/4% KCL	

TUBING RECORD: Size: <u>2.375</u> Set At: <u>5344'</u> Packer At: <u>5313'</u> Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Date of First, Resumed Production, SWD or ENHR: <u>03/19/2011</u>	Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____
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Estimated Production Per 24 Hours	Oil Bbbs. <u>72</u>	Gas Mcf <u>135</u>	Water Bbbs. <u>9</u>	Gas-Oil Ratio	Gravity
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input checked="" type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: <u>5368'-5390'</u>
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Form	ACO1 - Well Completion
Operator	Kerr-McGee Oil & Gas Onshore LP
Well Name	Bird 21-1
Doc ID	1055940

All Electric Logs Run

Cement Bond Log
Array Compensated Induction Log
Spectral Density Dual Spaced Neutron Microlog
Directional Six Arm Caliper Log
Wave Sonic Delta-T Log
Sonic Waveform Analysis Log

Form	ACO1 - Well Completion
Operator	Kerr-McGee Oil & Gas Onshore LP
Well Name	Bird 21-1
Doc ID	1055940

Tops

Name	Top	Datum
Base Stone Corral	1605	
Chase	2179	
Council Grove	2437	
Wabaunsee	2875	
Shawnee	3262	
Lansing	3708	
Cherokee	4464	
Morrow Group	5004	
Morrow "F"	5277	
Lower Morrow	5364	
St. Genevieve	5420	
St. Louis	5506	
Spergen	5669	

HALLIBURTON

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 300466	Ship To #: 2838763	Quote #:	Sales Order #: 7988602								
Customer: ANADARKO PETROLEUM CORP - EBUS		Customer Rep: Almanza, Abraham									
Well Name: Bird	Well #: 21-1	API/UWI #: 15-187-21191									
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 101.815 deg. OR E 101 deg. 48 min. 55.188 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: KLAUSE, JOHN	MBU ID Emp #: 456246									
Job Personnel											
HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #			
ARNETT, JAMES Ray	4	226567	CHAVEZ, ANTHONY Paul	4	479869	FARNUM, GORDON	4	477892			
KLAUSE, JOHN David	4	456246									
Equipment											
HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way				
10025025	85 mile	10244148	85 mile	10286731	85 mile	10741245	85 mile				
Job Hours											
Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours			
2-26	5										
TOTAL			Total is the sum of each column separately								
Job				Job Times							
Formation Name				Date	Time	Time Zone					
Formation Depth (MD)	Top	Bottom		Called Out							
Form Type	BHST			On Location							
Job depth MD	1650. ft		Job Depth TVD	Job Started							
Water Depth	Wk Ht Above Floor			Job Completed							
Perforation Depth (MD)	From	To	Departed Loc								
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					1650.		
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				
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						

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 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 ft ³ /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk				
1	Water Pre-Flush				bbl	8.33	.0	.0	6.0					
2	Lead Slurry	VARICEM (TM) CEMENT (452009)		450	sacks	11.4	2.95	18.09	6.0	18.09				
	3 %	CALCIUM CHLORIDE - HI TEST PELLETT (100005053)												
	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)		300	sacks	15.6	1.2	5.22	6.0	5.22				
	2 %	CALCIUM CHLORIDE - HI TEST PELLETT (100005053)												
	0.25 lbm	POLY-E-FLAKE (101216940)												
	5.218 Gal	FRESH WATER												
4	Displacement				bbl	8.33	.0	.0	.0					
Calculated Values				Pressures				Volumes						
Displacement	103	Shut In: Instant		Lost Returns		30	Cement Slurry		290	Pad				
Top Of Cement	SURFACE	5 Min		Cement Returns		10	Actual Displacement		103	Treatment				
Frac Gradient		15 Min		Spacers			Load and Breakdown			Total Job		393		
Rates														
Circulating	4	Mixing		6	Displacement		4	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 #: 2838763	Quote #:	Sales Order #: 7988602
Customer: ANADARKO PETROLEUM CORP - EBUS		Customer Rep: Almanza, Abraham	
Well Name: Bird	Well #: 21-1	API/UWI #: 15-187-21191	
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 101.815 deg. OR E 101 deg. 48 min. 55.188 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: KLAUSE, JOHN	MBU ID Emp #: 456246

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	02/26/2011 05:33							
Pre-Convoy Safety Meeting	02/26/2011 07:33							
Depart from Service Center or Other Site	02/26/2011 08:00							
Arrive At Loc	02/26/2011 12:00							
Pre-Rig Up Safety Meeting	02/26/2011 12:10							DISCUSS PINCH POINTS, TRIPPING HAZARDS, WATCH THE RED WHILE RUNNING CASING
Rig-Up Completed	02/26/2011 13:33							
Pre-Job Safety Meeting	02/26/2011 13:33							DISCUSS JOB PROCEDURES AND HAZARDS OF EACH STEP OF THE JOB
Test Lines	02/26/2011 13:43							TEST LINES TO 2000PSI
Pump Lead Cement	02/26/2011 13:46		6	247			55.0	PUMP 247 BBLS @ 11.4#
Pump Tail Cement	02/26/2011 14:27		6	43			85.0	PUMP 43 BBLS @ 15.6#
Drop Top Plug	02/26/2011 14:38							PLUG LEFT HEAD
Pump Displacement	02/26/2011 14:40		4	103			-20.0	NO RETURNS WHILE PUMPING DISPLACEMENT UNTIL 60 BBLS GONE
Displ Reached Cmmt	02/26/2011 14:56							CAUGHT CEMENT @ 60BBLS GONE

Sold To #: 300466

Ship To #: 2838763

Quote #:

Sales Order #: 7988602

SUMMIT Version: 7.20.130

Saturday, February 26, 2011 04:08:00

HALLIBURTON

Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Slow Rate	02/28/2011 14:59							SLOW RATE 10BBLs BEFORE TOTAL DISPLACEMENT
Bump Plug	02/28/2011 15:03						369.0	TOOK PRESSURE 500 OVER DIFF PRESSURE 820PSI
End Job	02/26/2011 15:07							
Pre-Rig Down Safety Meeting	02/26/2011 15:15							DISCUSS TRIPPING HAZARDS AND PINCH POINTS AND USE PROPPER PPE
Rig-Down Completed	02/26/2011 16:33							
Depart Location for Service Center or Other Site	02/26/2011 17:33							THANK YOU FOR USING HALLIBURTON JOHN KLAUSE AND CREW

Sold To # : 300486

Ship To # :2838763

Quote # :

Sales Order # : 7988602

SUMMIT Version: 7.20.130

Saturday, February 26, 2011 04:08:00

HALLIBURTON

Work Order Contract

Order Number

7988602

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. 21-1	Firm or Lease Bird	County Stanton	State Kansas	Well Permit Number 15-187-21191
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 ventures 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 \$200,000. 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 Bellaire Blvd, Houston, TX 77072-5299.

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

HALLIBURTON

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 300466	Ship To #: 2838763	Quote #:	Sales Order #: 8013756
Customer: ANADARKO PETROLEUM CORP - EBUS		Customer Rep: Almanza, Abraham	
Well Name: Bird	Well #: 21-1	AP/UWI #: 15-187-21191	
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 101.815 deg. OR E 101 deg. 48 min. 55.188 secs.	
Contractor: Murfin	Rig/Platform Name/Num: #22		
Job Purpose: Cement Production Casing			
Well Type: Development Well		Job Type: Cement Production Casing	
Sales Person: HESTON, MYRON	Srv Supervisor: SMITH, LLOYD	MBU ID Emp #: 456565	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
MONTOYA-MOLLINAS, ARTHUR Joseph	6	483764	SMITH, LLOYD Thomas	6	456565	TORRES, CLEMENTE	6	344233

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	10826273	85 mile	10949719	85 mile
10995007	85 mile						

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
3/5/2011	6	1.5						

TOTAL Total is the sum of each column separately

Job				Job Times			
Formation Name	Top	Bottom		Date	Time	Time Zone	
Formation Depth (MD)				Called Out	05 - Mar - 2011	12:00	CST
Form Type		BHST	135 degF	On Location	05 - Mar - 2011	18:00	CST
Job depth MD	5900. ft	Job Depth TVD	5900. ft	Job Started	05 - Mar - 2011	21:18	CST
Water Depth		Wk Ht Above Floor	5. ft	Job Completed	05 - Mar - 2011	22:49	CST
Perforation Depth (MD)	From	To		Departed Loc	06 - Mar - 2011	00:30	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				1650.	5900.		
5 1/2" Production Casing	Unknow n		5.5	4.95	15.5	8 RD (ST&C)	J-55		5900.		
8 5/8" Surface Casing	Unknow n		8.625	8.097	24.	8 RD (ST&C)	J-55		1650.		

Sales/ Rentals 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 Resources

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug			

HALLIBURTON

Cementing Job Summary

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 Fld		Conc		Inhibitor		Conc		Sand Type		Size		Qty		
Fluid Data														
Stage (1-5)														
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	MUD FLUSH III	MUD FLUSH III - SBM (528788)			0.00	bbl	8.4	.0	.0	6.0				
3	Scavenger Slurry	POZ PREMIUM 50/50 - SBM (12302)			25.0	sacks	10.5	4.32	26.85	6.0	26.85			
	5 %	CAL-SEAL 60, BULK (100064022)												
	5 %	POTASSIUM CHLORIDE 5% (100001585)												
	8 lbm	KOL-SEAL, BULK (100064233)												
	0.5 %	HALAD(R)-322, 50 LB (100003646)												
	26.849 Gal	FRESH WATER												
4	Tail Slurry	POZ PREMIUM 50/50 - SBM (12302)			335.0	sacks	13.9	1.56	6.57	6.0	6.57			
	5 %	CAL-SEAL 60, BULK (100064022)												
	5 %	POTASSIUM CHLORIDE 5% (100001585)												
	8 lbm	KOL-SEAL, BULK (100064233)												
	0.5 %	HALAD(R)-322, 50 LB (100003646)												
	6.571 Gal	FRESH WATER												
5	KCL Displacement				139.00	bbl	8.33	.0	.0	6.0				
	1.5 gal/Mgal	CLAYFIX 3, TOTETANK (101583425)												
Operational Data														
Displacement			139BBLS	Shut In: Instant		Lost Returns		0	Cement Slurry		112BBL	Pad		
Top Of Cement			2989FT	5 Min		Cement Returns		0	Actual Displacement		139BBL	Treatment		
Frac Gradient				15 Min		Spacers		0	Load and Breakdown			Total Job		
Rates														
Circulating			4	Mixing			4	Displacement		6	Avg. Job		4	
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 #: 2838763	Quote #:	Sales Order #: 8013756
Customer: ANADARKO PETROLEUM CORP - EBUS		Customer Rep: Almanza, Abraham	
Well Name: Bird	Well #: 21-1	API/UWI #: 15-187-21191	
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 101.815 deg. OR E 101 deg. 48 min. 55.188 secs.	
Contractor: Murfin		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		MBU ID Emp #: 456565	

Activity Description	Date/Time	GPI	Rate (lb/min)	Volume (lb)		Pressure (psi)		Comments
				Stage	Total	Tubing	Casing	
Call Out	03/05/2011 12:00							CALLED OUT ON THE ANADARKO BIRD 21-1
Pre-Convoy Safety Meeting	03/05/2011 13:00							GO OVER JOURNEY MANAGEMENT AND PTI
Crew Leave Yard	03/05/2011 14:00							CALL IN JOURNEY AND CONVOY TO LOCATION
Arrive At Loc	03/05/2011 18:00							ARRIVE AT THE ANADARKO BIRD 21-1 LOCATION
Standby - Other - see comments	03/05/2011 18:01							RIG RUNNING CASING
Assessment Of Location Safety Meeting	03/05/2011 18:05							HAVE SAFETY HUDDLE WITH ALL PERSONEL AND DISCUSS PROPER SPOTTING OF EQUIPMENT AND ANY HAZARDS INVOLVED
Pre-Rig Up Safety Meeting	03/05/2011 18:15							DISCUSS HAZARDS, TRIP, PINCH, LIFTING, REDZONE, LINE OF FIRE. GIVEN BY AJ
Activity Description	Date/Time	GPI	Rate (lb/min)	Stage	Total	Tubing	Casing	Comments

Sold To #: 300466

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SUMMIT Version: 7.20.130

Saturday, March 05, 2011 11:40:00

HALLIBURTON

Cementing Job Log

Other	03/05/2011 18:25							TALK TO COMPANY MAN TD-5900FT, TP-5911.75FT-5.5-15.5#-J55, ASSIST 8.625-24#-J55 AT 1652FT, OH-7 7/8, SHOE 1FT, MUD 8.8#. COMPANY MAN SAID NO WATER OR MUD FLUSH AHEAD STRAIGHT TO SCAVENGER CEMENT. WATER TESTED GOOD.
Rig-Up Equipment	03/05/2011 18:30							RAN WATER HOSES, LAYED IRON TO VDOOR AND BUILT STAND PIPE, HOOKED UP BULK TRUCKS.
Standby - Other - see comments	03/05/2011 19:10							RIG STILL RUNNING CASING, WAITING ON CASING CREW TO FINISH SO WE CAN FINISH RUNNING IRON TO PIT AND PICK UP STAND PIPE.
Casing on Bottom	03/05/2011 20:30							CASING ON BOTTOM, STABBED HEAD AND RIG CIRCULATING 45SPM AT 226PSI
Rig-Up Completed	03/05/2011 20:45							PULL UP STAND PIPE AND FINISH WASHUP, RIG UP BALES.
Safety Meeting	03/05/2011 20:50							DISCUSS HAZARDS WITH ALL PERSONEL ON LOCATION, ANYONE HAS THE RIGHT TO SHUT THE JOB DOWN, CLOSES HOSPITAL, STAY AWAY FROM RED IRON AND BULK HOSES.
Start Job	03/05/2011 21:18							
Test Lines	03/05/2011 21:20							TEST LINES TO 4000PSI, TEST WAS GOOD, BLEED BACK TO TRUCK
Pump Lead Cement	03/05/2011 21:25		4	19			310.0	PUMP 25SKS=19BBLs AT 10.5#
Pump Tail Cement	03/05/2011 21:31		4	93			53.0	PUMP 335SKS=93BBLs AT 13.9#

Sold To #: 300466

Ship To #: 2838763

Quote #:

Sales Order #:

8013756

SUMMIT Version: 7.20.130

Saturday, March 05, 2011 11:40:00

HALLIBURTON

Work Order Contract

Order Number

8013756

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. 21-1	Farm or Lease Bird	County Stanton	State Kansas	Well Permit Number 15-187-21191
Customer ANADARKO PETROLEUM CORP - EBUS		Well Owner		Job Purpose Cement Production 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 ventures with Customer. Customer also agrees to **DEFEND, INDEMNIFY, AND HOLD HARMLESS** 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 minerals 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 unreasonableness 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 or 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 Bellaire Blvd, Houston, TX 77072-5289.

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

HALLIBURTON

Cementing Job Log

Activity Description	Date/Time	CMT	Rate bbl/min	Volume (bbl)		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Drop Top Plug	03/05/2011 22:01							SHUTDOWN WASH PUMPS AND LINES AND DROP TOP PLUG
Pump Displacement	03/05/2011 22:09		6		139		70.0	CALCULATED DISPLACEMENT 139BBLs OF FRESH WATER WITH 3%KCL
Displ Reached Cmmt	03/05/2011 22:26		3	87			210.0	CAUGHT CMT AT 87BBLs GONE SLOWED RATE PER COMPANY MAN
Bump Plug	03/05/2011 22:45		3	139			1046.0	BUMP PLUG AT 139BBLs TOOK IT 1000PSI OVER
Check Floats	03/05/2011 22:48						2100.0	HELD FOR FEW MINUTES GOT 1/2BBL BACK
End Job	03/05/2011 22:49							
Pre-Rig Down Safety Meeting	03/05/2011 22:55							DISCUSS HAZARDS TRIP, LIFTING, LINE OF FIRE, TAKE BREAKS, ASSIGN AREAS TO PERSONEL TO START AND FINISH.
Rig-Down Equipment	03/05/2011 23:00							
Rig-Down Completed	03/06/2011 00:00							
Pre-Convoy Safety Meeting	03/06/2011 00:15							GO OVER JOURNEY MANAGEMENT, PTI, AND LOGS
Crew Leave Location	03/06/2011 00:30							THANK YOU FOR CHOOSING HALLIBURTON

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Ship To # : 2838763

Quote # :

Sales Order # : 8013756

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Saturday, March 05, 2011 11:40:00