

KANSAS CORPORATION COMMISSION 1055438
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 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 #: _____

<u>03/09/2011</u>	<u>03/14/2011</u>	<u>04/26/2011</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-187-21192-00-00

Spot Description: _____
N2 SW SE NW Sec. 21 Twp. 29 S. R. 41 East West
2,180 Feet from North / South Line of Section
1,650 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW

County: Stanton

Lease Name: Bird Well #: 21-2

Field Name: Arroyo

Producing Formation: Morrow

Elevation: Ground: 3413 Kelly Bushing: 3411

Total Depth: 5655 Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: 1660 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 cm.

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

Chloride content: 2200 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	
<input type="checkbox"/> Letter of Confidentiality Received	Date: _____
<input type="checkbox"/> Confidential Release Date: _____	
<input checked="" type="checkbox"/> Wireline Log Received	
<input type="checkbox"/> Geologist Report Received	
<input type="checkbox"/> UIC Distribution	
ALT <input checked="" type="checkbox"/> I <input type="checkbox"/> II <input type="checkbox"/> III	Approved by: <u>Deanna Garrison</u> Date: <u>05/19/2011</u>



1055438

Operator Name: Kerr-McGee Oil & Gas Onshore LP Lease Name: Bird Well #: 21-2
 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 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:

Cement Bond Log
 Array Compensated True Resistivity Log
 Spectral Density Dual Spaced Neutron Microlog

Log Formation (Top), Depth and Datum Sample
 Name Top Datum
 Attached Attached Attached

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	1660	Varicem/Halcem	740	3% 2% CC
Production	7.875	5.500	15.5	5654	POZ Prem 50/50	255	5% Cal .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 (Amount and Kind of Material Used)	Depth
4	5406'-5410'; 5380'-5399'	Frac w/48,888 gals 25# w/4% KCL & 45,000# 16/30 Brady Snd & 8000# Resin 16/30 Brady Snd.	5380-5410

TUBING RECORD:		Size:	Set At:	Packer At:	Liner Run:
		2.375	5347	5342	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR. 04/26/2011		Producing Method: <input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	41	260	19		

DISPOSITION OF GAS:	METHOD OF COMPLETION:	PRODUCTION INTERVAL:
<input type="checkbox"/> Vented <input checked="" type="checkbox"/> Sold <input type="checkbox"/> Used on Lease (If vented, Submit ACO-18.)	<input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled (Submit ACO-5) (Submit ACO-4) <input type="checkbox"/> Other (Specify) _____	5380-5410

Form	ACO1 - Well Completion
Operator	Kerr-McGee Oil & Gas Onshore LP
Well Name	Bird 21-2
Doc ID	1055438

Tops

Name	Top	Datum
Chase	2182	
Council Grove	2436	
Wabaunsee	2869	
Shawnee	3260	
Lansing	3707	
Cherokee	4459	
Morrow Group	4988	
Morrow "F"	5276	
Lower Morrow	5372	
St. Genevieve	5489	
St. Louis	5508	

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 #	HES Emp Name	Exp Hrs	Emp #
CHRISTENSEN, STUART	6.5	476488	GOMEZ, OSCAR	6.5	490448	LISH, DEREK D	6.5	295022
TORRES, CLEMENTE	6.5	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	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	Operating Hours
3-11-2011	6.5	3.0						
TOTAL			Total is the sum of each column separately					

Job

Job Times

Formation Name	Formation Depth (MD) Top	Bottom	Called Out	Date	Time	Time Zone
Form Type		BHST	On Location	11 - Mar - 2011	06:00	CST
Job depth MD	1660-1660-ft	Job Depth TVD	Job Started	11 - Mar - 2011	12:30	CST
Water Depth		Wk Ht Above Floor	Job Completed	11 - Mar - 2011	14:48	CST
Perforation Depth (MD) From		To	Departed Loc	11 - Mar - 2011	17:36	CST
					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, HW, 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		Srv 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 BBL TOTAL)
Displ Reached Cmnt	03/11/2011 17:18		4	45			160.0	CAUGHT CMT AT 45 BBL DISPLACEMENT AWAY
Cement Returns to Surface	03/11/2011 17:21		4	58			175.0	45 BBL, 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

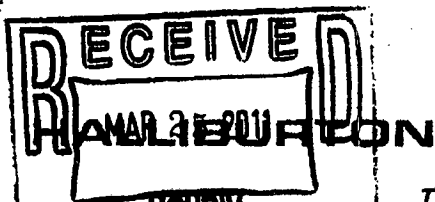
Ship To #: 2841618

Quote #:

Sales Order #: 8021971

SUMMIT Version: 7.20.130

Friday, March 11, 2011 06:00:00



Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: NEGOTIATORY	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			<i>Total is the sum of each column separately</i>					

Job

Formation Name	Formation Depth (MD) Top	Bottom	Form Type	Job depth MD	Job Depth TVD	Wk Ht Above Floor	Perforation Depth (MD) From	To	Job Times Date	Time	Time Zone
			BHST	5654-5655 ft	5654-5655 ft	5 ft			15 - Mar - 2011	11:30	CST
									15 - Mar - 2011	15:00	CST
									15 - Mar - 2011	19:17	CST
									15 - Mar - 2011	20:31	CST
									15 - Mar - 2011	21:55	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.	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		

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	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	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		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	bbl	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

Sold To #: 300466	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			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 waitng on float equipment waitng 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 spotting 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

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	
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 #:

Sales Order #:

8034443

SUMMIT Version: 7.20.130

XXX, XXX 00, 0000 00:00:00