



KANSAS CORPORATION COMMISSION 1055844  
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

API No. 15 - 15-187-21193-00-00  
Spot Description: \_\_\_\_\_  
NE SW Sec. 21 Twp. 29 S. R. 41  East  West  
1,980 Feet from  North /  South Line of Section  
1,980 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW  
County: Stanton  
Lease Name: Pro Farms Well #: 21-4  
Field Name: Arroyo  
Producing Formation: Morrow  
Elevation: Ground: 3408 Kelly Bushing: 3407  
Total Depth: 5625 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.

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>03/17/2011</u>	<u>03/22/2011</u>	<u>05/09/2011</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 2800 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: Doanna Garrison Date: 05/19/2011



1055844

Operator Name: Kerr-McGee Oil & Gas Onshore LP Lease Name: Pro Farms Well #: 21-4  
 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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name Attached	Top Attached	Datum Attached
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 <i>(If no, Submit Copy)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				
<small>Cement Bond Log                  Array Compensated Resistivity Log                  Spectral Density Dual Spaced Neutron Microlog</small>				

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 (TM)	740	3% CC .5 Poly Flake
Production	7.875	5.500	15.5	5620	POZ Prem 50/50	285	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	5392'-5410'	Frac w/24,690 gals 25# xl lg 4% kcl	5392'-5410'
		42,000# 16/30 Brady snd & 8000#	
		Resin Coated 16/30 Brady Snd	

TUBING RECORD:	Size: <u>2.375</u>	Set At: <u>5560'</u>	Packer At: <u>5347'</u>	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR. <u>05/09/2011</u>	Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
Estimated Production Per 24 Hours	Oil Bbbs. <u>138</u>	Gas Mcf <u>132</u>	Water Bbbs. <u>12</u>	Gas-Oil Ratio _____ Gravity _____

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 <i>(Specify)</i> _____	PRODUCTION INTERVAL: <u>5392'-5410'</u>
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Form	ACO1 - Well Completion
Operator	Kerr-McGee Oil & Gas Onshore LP
Well Name	Pro Farms 21-4
Doc ID	1055844

Tops

Name	Top	Datum
Chase	2180	
Council Grove	2433	
Wabaunsee	2866	
Shawnee	3258	
Lansing	3706	
Cherokee	4460	
Morrow Group	5002	
Morrow "F"	5279	
Lower Morrow	5376	
St. Genevieve	5455	
St. Louis	5530	

# HALLIBURTON

# Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 300486	Ship To #: 2843861	Quote #:	Sales Order #: 8043873
Customer: ANADARKO PETROLEUM CORP - EBUS		Customer Rep: Almanza, Abraham	
Well Name: Pro Farms	Well #: 21-4	API/UWI #: 15-187-21193	
Field: ARROYO	City (SAP): JOHNSON	County/Parish: Stanton	State: Kansas
Legal Description: Section 21 Township 29S Range 41W			
Lat: N 37.511 deg. OR N 37 deg. 30 min. 37.908 secs.		Long: E 101.81 deg. OR E 101 deg. 48 min. 34.812 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	Srv Supervisor: SMITH, BOBBY	MBU ID Emp #: 106036	

### Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
AGUILERA, FABIAN	12	442123	ARCHULETA, ERICK	12	454280	BERUMEN, EDUARDO	12	267804
SMITH, BOBBY Wayne	12	106036						

### Equipment

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

### Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours

TOTAL Total is the sum of each column separately

### Job

### Job Times

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone
Formation Depth (MD)			18 - Mar - 2011	17:00	CST	
Form Type	BHST		18 - Mar - 2011	20:00	CST	
Job depth MD	1652 4866-ft	Job Depth TVD 1652 4866-ft	19 - Mar - 2011	03:37	CST	
Water Depth		Wk Ht Above Floor 3. ft	19 - Mar - 2011	05:30	CST	
Perforation Depth (MD) From		To	19 - Mar - 2011	08:00	CST	
			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/3<sup>rd</sup> 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	8	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 <sup>3</sup> /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk				
1	Water Pre-Flush				10.00	bbl	8.33	.0	.0	6.0					
2	Lead Slurry	VARICEM (TM) CEMENT (452009)			540.0	sacks	11.4	2.95	18.09	6.0	18.09				
	3 %	CALCIUM CHLORIDE - HI TEST PELLET (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)			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				103.00	bbl	8.33	.0	.0	.0					
Calculated Values				Pressures				Volumes							
Displacement				Shut In: Instant				Lost Returns		Cement Slurry		Pad			
Top Of Cement				5 Min				Cement Returns 45		Actual Displacement		Treatment			
Frac Gradient				15 Min				Spacers		Load and Breakdown		Total Job			
Rates															
Circulating				Mixing				Displacement				Avg. Job			
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 #: 2843861	Quote #:	Sales Order #: 8043873
Customer: ANADARKO PETROLEUM CORP - EBUS		Customer Rep: Almanza, Abraham	
Well Name: Pro Farms	Well #: 21-4	API/UWI #: 15-187-21193	
Field: ARROYO	City (SAP): JOHNSON	County/Parish: Stanton	State: Kansas
Legal Description: Section 21 Township 29S Range 41W			
Lat: N 37.511 deg. OR N 37 deg. 30 min. 37.908 secs.		Long: E 101.81 deg. OR E 101 deg. 48 min. 34.812 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: SMITH, BOBBY	MBU ID Emp #: 106036

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	03/18/2011 17:00							
Depart Location Safety Meeting	03/18/2011 18:30							
Arrive At Loc	03/18/2011 20:00							
Assessment Of Location Safety Meeting	03/18/2011 20:00							Rig is short tripping the drill pipe in the hole.
Pre-Rig Up Safety Meeting	03/18/2011 20:05							
Rig-Up Completed	03/18/2011 21:00							
Other	03/18/2011 22:15							Rig pulling drill pipe
Other	03/18/2011 23:30							drill pipe out of the hole casing crew rigging up.
Other	03/19/2011 00:00							casing going in the hole
Other	03/19/2011 03:10							casing on bottom rig is circulating.
Safety Meeting - Pre Job	03/19/2011 03:30							
Start Job	03/19/2011 03:37							
Test Lines	03/19/2011 03:39						3000.0	
Pump Spacer 1	03/19/2011 03:43		5	10			200.0	water
Pump Lead Cement	03/19/2011 03:55		5	283.7 1			200.0	540 sx = 1593 ft3 = top of cement surface
Pump Tail Cement	03/19/2011 04:48		5	42.74			200.0	200 sx = 240 ft3. top of cement 1123.44 ft
Drop Top Plug	03/19/2011 04:57							
Pump Displacement	03/19/2011 05:00		5	0			200.0	water

Sold To #: 300466

Ship To #: 2843861

Quote #:

Sales Order #: 8043873

SUMMIT Version: 7.20.130

Saturday, March 19, 2011 06:05:00

# HALLIBURTON

## Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Bump Plug	03/19/2011 05:26		2	102.9 6		500.0	1200. 0	
Check Floats	03/19/2011 05:27							float held.
End Job	03/19/2011 05:29							45 bbls of cement back to surface.
Safety Meeting - Pre Rig-Down	03/19/2011 05:35							
Rig-Down Completed	03/19/2011 07:30							
Safety Meeting - Departing Location	03/19/2011 07:45							
Depart Location for Service Center or Other Site	03/19/2011 08:00							Thank you for calling Halliburton. Bob and crew.

Sold To #: 300466

Ship To #: 2843861

Quote #:

Sales Order #: 8043873

SUMMIT Version: 7.20.130

Saturday, March 19, 2011 08:05:00

# HALLIBURTON

# Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 300466	Ship To #: 2843861	Quote #:	Sales Order #: 8050569
Customer: ANADARKO PETROLEUM CORP - EBUS		Customer Rep: Almanza, Abraham	
Well Name: Pro Farms	Well #: 21-4	API/UWI #: 15-187-21193	
Field: ARROYO	City (SAP): JOHNSON	County/Parish: Stanton	State: Kansas
Legal Description: Section 21 Township 29S Range 41W			
Lat: N 37.511 deg. OR N 37 deg. 30 min. 37.908 secs.		Long: E 101.81 deg. OR E 101 deg. 48 min. 34.812 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: VILLANUEVA, EDUARDO	MBU ID Emp #: 341956	

### Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
LEE, SEITH Adam	7	483600	LOPEZ, JUAN R	7	198514	VILLANUEVA, EDUARDO	7	341956

### Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10240238	85 mile	10804587	85 mile	10825440	85 mile	10866807	85 mile
11133700	85 mile						

### Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
3-23-2011	7	2						
<b>TOTAL</b>			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	135 degF	On Location	23 - Mar - 2011	01:30	CST
Job depth MD	5620-5625 ft	Job Depth TVD	5620-5625 ft	Job Started	23 - Mar - 2011	04:30	CST
Water Depth		Wk Ht Above Floor	5. ft	Job Completed	23 - Mar - 2011	06:30	CST
Perforation Depth (MD)	From	To		Departed Loc	23 - Mar - 2011	08:00	CST

### Well Data

Description	New / Used	Max pressure psig	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
7 7/8" Production Hole				7.875				1650.	5660.	5620	
5 1/2" Production Casing	Unknown		5.5	4.95	15.5	8 RD (ST&C)	J-55		5660.	5620	
8 5/8" Surface Casing	Unknown		8.625	8.097	24.	8 RD (ST&C)	J-55		1650.		

### Sales/Rental/3<sup>rd</sup> Party (HES)

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

### Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug			
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container			



# HALLIBURTON

# Cementing Job Summary

Miscellaneous Materials										
Gelling Agt	Conc	Surfactant	Conc	Acid Type	Qty	Conc	%			
Treatment Fld	Conc	Inhibitor	Conc	Band Type	Size	Qty	%			
Fluid Data										
Stage # 1										
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft <sup>3</sup> /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	Scavenger Slurry	POZ PREMIUM 60/60 - 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 60/60 - SBM (12302)	260.0	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	CLAYFIX DISPACEMENT		133.00	bbl	8.33	.0	.0	6.0		
	0.21 gal/bbl	CLAYFIX 3, 5 GAL PAIL (101810105)								
Calculated Values		Pressures		Volumes						
Displacement	133	Shut In: Instant		Lost Returns	NO	Cement Slurry	98	Pad		
Top Of Cement	2800	5 Min		Cement Returns	NO	Actual Displacement	133	Treatment		
Frac Gradient		15 Min		Spacers		Load and Breakdown		Total Job		
Rates										
Circulating	5	Mixing	5	Displacement	6	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 #: 2843861	Quote #:	Sales Order #: 8050569
Customer: ANADARKO PETROLEUM CORP - EBUS		Customer Rep: Almanza, Abraham	
Well Name: Pro Farms	Well #: 21-4	API/UWI #: 15-187-21193	
Field: ARROYO	City (SAP): JOHNSON	County/Parish: Stanton	State: Kansas
Legal Description: Section 21 Township 29S Range 41W			
Lat: N 37.511 deg. OR N 37 deg. 30 min. 37.908 secs.		Long: E 101.81 deg. OR E 101 deg. 48 min. 34.812 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: VILLANUEVA, EDUARDO	MBU ID Emp #: 341956	

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	03/22/2011 20:00							5-1/2" PROD, CSG.
Depart Yard Safety Meeting	03/22/2011 20:50							DISCUSSED ROUTE W/CREW.
Crew Leave Yard	03/22/2011 21:00							DID JOURNY, W/DISPATCH.
Arrive At Loc	03/23/2011 01:45							GOT W/CO, MAN WENT OVER CMT, WATER ON JOB.
Pre-Rig Up Safety Meeting	03/23/2011 02:00							DISCUSSED SAFETY, & RED ZONE.
Rig-Up Equipment	03/23/2011 03:00							SPOT TRUCKS RIG UP LINES.
Wait on Customer or Customer Sub-Contractor Equip	03/23/2011 03:20							RIG RUNNING CSG.
Casing on Bottom	03/23/2011 04:00							5622 FT. 15.5# J-55. S-J=38.75
Circulate Well	03/23/2011 04:30							STAB CMT, HEAD & CIRCULATE WELL.
Pre-Job Safety Meeting	03/23/2011 04:50							WITH RIG & HALLIBURTON.
Start Job	03/23/2011 05:13							
Test Lines	03/23/2011 05:14						4000.0	TEST LINES 4,000 PSI.
Pump Lead Cement	03/23/2011 05:20		5	18			400.0	PUMP 18, BBLS SCGER, @ 10.5 #
Pump Tail Cement	03/23/2011 05:24		4	70			330.0	PUMP 70, BBLS TAIL @ 13.9 #
Shutdown	03/23/2011 05:40							WASH UP PUMPS & LINES.
Drop Top Plug	03/23/2011 05:45							5-1/2" LATCH DOWN PLUG.

Sold To #: 300466

Ship To #: 2843861

Quote #:

Sales Order #:

8050569

SUMMIT Version: 7.20.130

Wednesday, March 23, 2011 06:46:00

# HALLIBURTON

## Cementing Job Log

Activity Description	Date/Time	Ckt #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Displacement	03/23/2011 05:47		6	133			140.0	DISPLACE= 133, BBLs 2% KCL.
Displ Reached Cmmt	03/23/2011 06:00		6	80			350.0	CATCH CMT, @ 6,BPM. 80,BBL AWAY.
Slow Rate	03/23/2011 06:02		3	85			240.0	SLOW TO 3, BPM. 85,BBL AWAY.
Bump Plug	03/23/2011 06:16		3	133			2200.0	BUMP @ 3,BPM. 2100 TO 2200 PSI.
Check Floats	03/23/2011 06:20						.0	FLOATS HOLDING GOT, 1,BBL BACK.
End Job	03/23/2011 06:25							GOOD RETURNS, JOB COMPLETE.
Pre-Rig Down Safety Meeting	03/23/2011 06:30							DISCUSSED SAFETY, & PINCH POINTS.
Rig-Down Equipment	03/23/2011 07:30							SAFELY.
Depart Location Safety Meeting	03/23/2011 07:45							DISCUSSED SAFE ROUTE.
Crew Leave Location	03/23/2011 08:00							THANKS FOR USING H-E-S, EDUARDO V.

Sold To #: 300466

Ship To #: 2843861

Quote #:

Sales Order #:

8050569

SUMMIT Version: 7.20.130

Wednesday, March 23, 2011 06:46:00