



**WELL COMPLETION FORM**  
**WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

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 #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ 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: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

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: \_\_\_\_\_ Date: \_\_\_\_\_



Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**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 type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input 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

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

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR. \_\_\_\_\_ Producing Method:  Flowing  Pumping  Gas Lift  Other *(Explain)* \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbbs.	Gas Mcf	Water Bbbs.	Gas-Oil Ratio	Gravity
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input 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 type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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The Road to Excellence Starts with Safety

<b>Sold To #:</b> 300466	<b>Ship To #:</b> 2977804	<b>Quote #:</b>	<b>Sales Order #:</b> 900177985
<b>Customer:</b> ANADARKO PETROLEUM CORP - EBUS		<b>Customer Rep:</b> WATKINS, MIKE	
<b>Well Name:</b> Santa Fe		<b>Well #:</b> 21-3	<b>API/UWI #:</b>
<b>Field:</b>	<b>City (SAP):</b> JOHNSON	<b>County/Parish:</b> Stanton	<b>State:</b> Kansas
<b>Contractor:</b> Murfin		<b>Rig/Platform Name/Num:</b> 21	
<b>Job Purpose:</b> Cement Surface Casing			
<b>Well Type:</b> Development Well		<b>Job Type:</b> Cement Surface Casing	
<b>Sales Person:</b> KRANZ, ZACHARY		<b>Srvc Supervisor:</b> CARRILLO, EDUARDO	<b>MBU ID Emp #:</b> 371263

### Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
CARRILLO, EDUARDO Carrillo	6.5	371263	LUNA, JOSE A	6.5	480456	SPENCE, PAT J	6.5	534792
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
10243558	85 mile	10286731	85 mile	10744298C	85 mile	10988832	85 mile
10998524	85 mile	11133699	85 mile	11515200	85 mile		

### Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
1/31/2013	6.5	1.45						
<b>TOTAL</b>			<i>Total is the sum of each column separately</i>					

### Job

### Job Times

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone
Formation Depth (MD)			On Location	31 - Jan - 2013	08:00	CST
Form Type	BHST		Job Started	31 - Jan - 2013	12:30	CST
Job depth MD	1671. ft	Job Depth TVD	1671. ft	Job Started	31 - Jan - 2013	16:26
Water Depth		Wk Ht Above Floor	5. ft	Job Completed	31 - Jan - 2013	17:45
Perforation Depth (MD)	From	To	Departed Loc	31 - Jan - 2013	19:25	CST

### Well Data

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

### Sales/Rental/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		
VLVASSY, INSR FLOAT, 8-5/8 8RD, 24 lbs/ft	1	EA		
FILLUP ASSY - 1.500 ID - 7 IN. - 8-5/8	1	EA		
CENTRALIZER ASSY - API - 8-5/8 CSG X	7	EA		
CLAMP - LIMIT - 8-5/8 - HINGED -	1	EA		
BASKET - CEMENT - 8 5/8 CSG X 12 1/4	1	EA		
KIT, HALL WELD-A	1	EA		

### Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug	8 5/5	1	H
Float Shoe					Bridge Plug					Bottom Plug			

Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container	8 5/5	1	H
Stage Tool										Centralizers			

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

**Fluid Data**

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

Calculated Values			Pressures			Volumes						
Displacement	104		Shut In: Instant			Lost Returns	0	Cement Slurry	259	Pad		
Top Of Cement	Surface		5 Min			Cement Returns	64	Actual Displacement	104	Treatment		
Frac Gradient			15 Min			Spacers	10	Load and Breakdown		Total Job	373	

Rates												
Circulating	6		Mixing	6		Displacement	6		Avg. Job	6		
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		

<b>The Information Stated Herein Is Correct</b>	Customer Representative Signature
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The Road to Excellence Starts with Safety

Sold To #: 300466	Ship To #: 2977804	Quote #:	Sales Order #: 900177985
Customer: ANADARKO PETROLEUM CORP - EBUS		Customer Rep: WATKINS, MIKE	
Well Name: Santa Fe	Well #: 21-3	API/UWI #:	
Field:	City (SAP): JOHNSON	County/Parish: Stanton	State: Kansas
Legal Description:			
Lat:		Long:	
Contractor: Murfin	Rig/Platform Name/Num: 21		
Job Purpose: Cement Surface Casing			Ticket Amount:
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: KRANZ, ZACHARY		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	01/31/2013 08:00							Dispach Calle Cement Crew Out For Anadarko Job On Well Santa Fe # 21-3. A 8 5/8 Surface Casing Job.
Other	01/31/2013 09:00							Loading Equipment.
Pre-Convoy Safety Meeting	01/31/2013 09:30							Discussed All Routs To Take And Hazards On The Road. Discussed All Stops.
Arrive At Loc	01/31/2013 12:30							
Assessment Of Location Safety Meeting	01/31/2013 12:35							Rig Was Circulating Hole With Drill Pipe Wating On Welder.
Other	01/31/2013 12:40							Got Numbers From Customer Rep // TD = 1670 FT // TP = 1671 FT // SJ = 41.65 FT // Disp = 104 BBLs.
Pre-Rig Up Safety Meeting	01/31/2013 13:00							Discussed All Red Zones Were To Spot In Equipment And Run Lines. Have Spoter At All Times. Whent Over JSA.
Other	01/31/2013 13:05							Rig Triping Out Of Hole.
Other	01/31/2013 13:50							Casing Crew Rigging Up.
Rig-Up Completed	01/31/2013 14:00							
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	

Wait on Customer or Customer Sub-Contractor Equip	01/31/2013 14:01								Waiting On Rig.
Other	01/31/2013 14:30								Rig Runing In Casing In Hole.
Other	01/31/2013 15:30								Casing At Bottom
Other	01/31/2013 15:40								Rig Circulating Customer Rep Said Theye Were Going To Circulat For 1 HR.
Pre-Job Safety Meeting	01/31/2013 16:00								Discussed Job Step With All On Location Whent Over Numbers With Customer Rep Pumping Rates And PSI. Had Rig Hands Sign Safety Sheet.
Start Job	01/31/2013 16:26								
Test Lines	01/31/2013 16:27						2500.0		Test Lines @ 2500 PSI. Heal For 1 Min.
Pump Spacer 1	01/31/2013 16:29		2.5	10	10		140.0		Pumped 10 BBLS H2O Fresh Water.
Pump Lead Cement	01/31/2013 16:34		6	216	226		160.0		Pumped 410 SKS CMT @ 11.4 PPG // 410 = 216 BBLS CMT // 410 X 2.95 = 1209.5 CU/FT Lead CMT.
Other	01/31/2013 16:50								Got Cement Returs On Tail Cement @ 30 BBLS Into Tail Cement Got 230 BBLS Cement Returs To Pit.
Pump Tail Cement	01/31/2013 17:09		5.5	43	269		230.0		Pumped 200 SKS CMT @ 15.6 PPG // 200 = 43 BBLS CMT // 200 X 1.2 = 240 CU/FT CMT Tail CMT.
Shutdown	01/31/2013 17:17								
Drop Plug	01/31/2013 17:18								
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments	
				Stage	Total	Tubing	Casing		

# HALLIBURTON

## Cementing Job Log

Pump Displacement	01/31/2013 17:19		6	104	373		100.0	Pumped 104 BBLs Fresh Water Displacement. Pumped @ 6 BPM @ 100 PSI Got CMT Returns @ 40 BBLs Into Displacement. Got 64 BBLs CMT Returns Up To Surface.
Displ Reached Cmmt	01/31/2013 17:29		6	104	373			Displacement Reached CMT @ 50 BBLs Into Displacement @ 6 BPM @ 200 PSI.
Slow Rate	01/31/2013 17:36		2	104	373		420.0	Slowed Down Last 10 BBLs Displacement @ 2 BPM. @ 420 PSI.
Bump Plug	01/31/2013 17:39		2	104	373		850.0	Bumped @ 850 Took To 1335 PSI 500 Over.
Check Floats	01/31/2013 17:42							Got 1 BBLs Back Floats Are Good.
End Job	01/31/2013 17:45							
Pre-Rig Down Safety Meeting	01/31/2013 18:00							Discussed All Red Zones Proper Lifting Spotting Equipment Out Of Location
Rig-Down Completed	01/31/2013 19:00							
Crew Leave Location	01/31/2013 19:10							Discussed All Routs And Stops Back To Yard.
Other	01/31/2013 19:25							Thank You Ed And Crew Halliburton.

Sold To # : 300466

Ship To # :2977804

Quote # :

Sales Order # : 900177985

SUMMIT Version: 7.3.0073

Thursday, January 31, 2013 06:32:00

The Road to Excellence Starts with Safety

Sold To #: 300466	Ship To #: 2977804	Quote #:	Sales Order #: 900208352
Customer: ANADARKO PETROLEUM CORP - EBUS		Customer Rep: WATKINS, MIKE	
Well Name: Santa Fe	Well #: 21-3	API/UWI #: 15-187-21212	
Field:	City (SAP): JOHNSON	County/Parish: Stanton	State: Kansas
Legal Description: Section 21 Township 29S Range 41W			
Contractor: Murfin		Rig/Platform Name/Num: 21	
Job Purpose: Cement Production Casing			
Well Type: Development Well		Job Type: Cement Production Casing	
Sales Person: KRANZ, ZACHARY		Srvc Supervisor: AGUILERA, FABIAN	MBU ID Emp #: 442123

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
AGUILERA, FABIAN J	5.5	442123	HEIDT, JAMES Nicholas	5.5	517102	MENDOZA, VICTOR	6.5	442596
NASH, JONATHAN Clark	6.5	524600	RAMIREZ, JORGE	1	498481	RODRIGUEZ, EDGAR Alejandro	1	442125

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
2/9/2013	6.5	4						
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
					08 - Feb - 2013	22:00	CST
Form Type			BHST	On Location	09 - Feb - 2013	02:30	CST
Job depth MD	5630. ft		Job Depth TVD	5630. ft	Job Started	09 - Feb - 2013	07:41
Water Depth			Wk Ht Above Floor	5. ft	Job Completed	09 - Feb - 2013	09:32
Perforation Depth (MD)	From		To		Departed Loc	09 - Feb - 2013	11:00

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				1602.	5630.		
5 1/2" Production Casing	Unknown		5.5	4.95	15.5	8 RD (ST&C)	J-55	.	5630.		
8 5/8" Surface Casing	Unknown		8.625	8.097	24.	8 RD (ST&C)	J-55	.	1602.		

Sales/Rental/3<sup>rd</sup> 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	5 1/2	1	HES		Packer					Top Plug	5 1/2	1	HES
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container	5 1/2	1	HES



Stage Tool								Centralizers	5 1/2	20	HES
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Miscellaneous Materials

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

Fluid Data

Stage/Plug #: 1

Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	Water Pre-Flush		10.00	bbl	8.33	.0	.0	6.0	
2	Scavenger Slurry	POZ PREMIUM 50/50 - SBM (12302)	25.0	sacks	10.5	4.32	26.94	6.0	26.94
	5 %	CAL-SEAL 60, 50 LB BAG (101217146)							
	5 %	POTASSIUM CHLORIDE 5% (100001585)							
	8 lbm	KOL-SEAL, 50 LB BAG (100064232)							
	0.5 %	HALAD(R)-322, 50 LB (100003646)							
	26.941 Gal	FRESH WATER							
3	Tail Slurry	POZ PREMIUM 50/50 - SBM (12302)	1285.0	sacks	13.9	1.56	6.65	6.0	6.65
	5 %	CAL-SEAL 60, 50 LB BAG (101217146)							
	5 %	POTASSIUM CHLORIDE 5% (100001585)							
	8 lbm	KOL-SEAL, 50 LB BAG (100064232)							
	0.5 %	HALAD(R)-322, 50 LB (100003646)							
	6.647 Gal	FRESH WATER							
4	Displacement		133.00	bbl	8.33	.0	.0	6.0	
	0.8 gal/Mgal	CLA-WEB - TOTE (101985045)							
5	100 sks Neat Cement/Fill Mouse&Rat Hole	CMT - STANDARD CEMENT (100003684)	50.0	sacks	15.6	1.18	5.23		5.23
	94 lbm	CMT - STANDARD - CLASS A REG OR TYPE I, BULK (100003684)							
	5.225 Gal	FRESH WATER							

Calculated Values

Pressures

Volumes

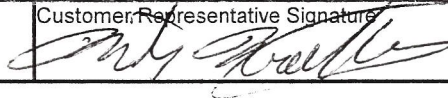
Displacement	133	Shut In: Instant		Lost Returns		Cement Slurry	102	Pad	
Top Of Cement	2473	5 Min		Cement Returns		Actual Displacement	133	Treatment	
Frac Gradient		15 Min		Spacers	10	Load and Breakdown		Total Job	245

Rates

Circulating	5	Mixing	5	Displacement	5	Avg. Job	5
Cement Left In Pipe	Amount	45.92 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



*The Road to Excellence Starts with Safety*

<b>Sold To #:</b> 300466	<b>Ship To #:</b> 2977804	<b>Quote #:</b>	<b>Sales Order #:</b> 900208352
<b>Customer:</b> ANADARKO PETROLEUM CORP - EBUS		<b>Customer Rep:</b> WATKINS, MIKE	
<b>Well Name:</b> Santa Fe		<b>Well #:</b> 21-3	<b>API/UWI #:</b> 15-187-21212
<b>Field:</b>	<b>City (SAP):</b> JOHNSON	<b>County/Parish:</b> Stanton	<b>State:</b> Kansas
<b>Legal Description:</b> Section 21 Township 29S Range 41W			
<b>Lat:</b> N 0 deg. OR N 0 deg. 0 min. 0 secs.		<b>Long:</b> E 0 deg. OR E 0 deg. 0 min. 0 secs.	
<b>Contractor:</b> Murfin		<b>Rig/Platform Name/Num:</b> 21	
<b>Job Purpose:</b> Cement Production Casing			<b>Ticket Amount:</b>
<b>Well Type:</b> Development Well		<b>Job Type:</b> Cement Production Casing	
<b>Sales Person:</b> KRANZ, ZACHARY		<b>Srvc Supervisor:</b> AGUILERA, FABIAN	<b>MBU ID Emp #:</b> 442123

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	02/08/2013 22:00							CREW CALLED OUT FOR ANADARKO PETROLEUM, SANTE FE 21-3, 5 1/2 PRODUCTION CASING
Pre-Convoy Safety Meeting	02/09/2013 00:30							DISCUSSED ALL POTENTIAL ROAD HAZARDS WITH HES CREW
Crew Leave Yard	02/09/2013 01:00							CALL IN JOURNEY MANAGEMENT, IN ROUTE TO ANADARKO PETROLEUM, SANTE FE 21-3
Arrive At Loc	02/09/2013 02:30							ARRIVE AT LOCATION
Assessment Of Location Safety Meeting	02/09/2013 02:45							ASSESSED THE LOCATION, SPOT IN EQUIPMENT, WATER TESTED GOOD, GOT WITH CM AND WENT OVER JOB DEPTH AND NUMBERS, AT THIS TIME RIG CREW IS RUNNING CASING DOWNHOLE, HAVE GOOD RETURNS
Pre-Rig Up Safety Meeting	02/09/2013 02:50							DISCUSSED ALL POTENTIAL HAZARDS AND PINCH POINTS WITH HES CREW
Rig-Up Equipment	02/09/2013 03:00							RIG UP IRON AND WATER HOSES
Rig-Up Completed	02/09/2013 04:00							RIG UP WENT WELL AND SAFELY
Activity Description	Date/Time	Cht	Rate bbl/min	Volume bbl		Pressure psig		Comments

Sold To # : 300466

Ship To # : 2977804

Quote # :

Sales Order # : 900208352

		#	Stage	Total	Tubing	Casing	
Other	02/09/2013 04:30						CASING DONE RUNNING CASING, CM REQUEST TO CIRCULATE LANG ENOUGH FOR CASING CREW TO RIG DOWN BEFORE PUMPING JOB
Pre-Job Safety Meeting	02/09/2013 07:00						DISCUSSED ALL POTENTIAL HAZARDS WHEN PRESSURE IS PRESENT WITH HES AND RIG CREW, WENT OVER JOB SCHEDULE AND NUMBERS WITH CM, AT THIS TIME THEY HAVE GOOD RETURNS
Start Job	02/09/2013 07:41						
Test Lines	02/09/2013 07:42						TEST LINES TO 3000 PSI
Pump Spacer	02/09/2013 07:45	3	10			180.0	PUMP SPACER 10 BBL FW
Pump Lead Cement	02/09/2013 07:51	3	19			218.0	PUMP LEAD CEMENT = 25 SKS = 19 BBL @ 10.5#
Pump Tail Cement	02/09/2013 07:57	3	79			236.0	PUMP TAIL CEMENT = 285 SKS = 79 BBL @ 13.9#
Clean Lines	02/09/2013 08:21						STOP CLEAN LINES AND TUB
Drop Top Plug	02/09/2013 08:26						DROP TOP LATCH DOWN PLUG
Pump Displacement	02/09/2013 08:27	6	133			100.0	PUMP DISPLACEMENT OF 133 BBL OF FW
Displ Reached Cmnt	02/09/2013 08:41	6		83		205.0	DISPLACEMENT REACH CEMENT AT 83 BBL AT 205 PSI
Slow Rate	02/09/2013 08:54	2		123		650.0	SLOW RATE TO 2 BPM TO BUMP PLUG AT 123 BBL GONE
Bump Plug	02/09/2013 08:59	2		133		1200. 0	BUMP PLUG AT 1200 PSI
Check Floats	02/09/2013 09:00					1850. 0	FLOATS HELD GOOD, RELEASE PRESSURE AND GOT BACK 1 BBL, THEN PUMPED 50 SKS OF NEAT CEMENT (4 BBL CMT) TO FILL RAT AND MOUSE HOLE

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
End Job	02/09/2013 09:32							
Pre-Rig Down Safety Meeting	02/09/2013 09:40							DISCUSSED ALL POTENTIAL HAZARDS AND PINCH POINTS WITH HES CREW
Rig-Down Equipment	02/09/2013 09:50							RIG DOWN IRON AND WATER HOSES
Pre-Convoy Safety Meeting	02/09/2013 10:50							DISCUSSED ALL POTENTIAL ROAD HAZARDS WITH HES CREW
Rig-Down Completed	02/09/2013 10:50							RIG DOWN WENT WELL AND SAFELY
Crew Leave Location	02/09/2013 11:00							THANK YOU FOR CHOOSING HALLIBURTON, FABIAN AND CREW