



**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: \_\_\_\_\_



1047199

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 Bbls.	Gas Mcf	Water Bbls.	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> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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*Mark Parkinson, Governor  
Thomas E. Wright, Chairman  
Joseph F. Harkins, Commissioner  
Ward Loyd, Commissioner*

November 18, 2010

Amanda Pickney  
Apache Corporation  
2000 POST OAK BLVD, STE 100  
HOUSTON, TX 77056

Re: ACO1  
API 15-119-21264-00-00  
HAGER 1-18  
SW/4 Sec.18-34S-27W  
Meade County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,  
Amanda Pickney

The Road to Excellence Starts with Safety

Sold To #: 300496	Ship To #: 2804150	Quote #:	Sales Order #: 7610511
Customer: APACHE CORP		Customer Rep: Hudson, Jim	
Well Name: Hager	Well #: 1-18	API/UWI #:	
Field:	City (SAP): MEADE	County/Parish: Meade	State: Kansas
Legal Description: Section 18 Township 34N Range 27W			
Contractor: KENAI	Rig/Platform Name/Num: 55		
Job Purpose: Cement Multiple Stages			
Well Type: Development Well	Job Type: Cement Multiple Stages		
Sales Person: MEREDITH, JERRY	Srvc Supervisor: WILTSHIRE, MERSHEK	MBU ID Emp #: 195811	

### Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
FARNUM, GORDON	12	0	LOPEZ, JUAN R	12	198514	MATA, ADOLFO V	12	419999
WILTSHIRE, MERSHEK Tonje	12	195811						

### 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	Formation Depth (MD)	Top	Bottom	Called Out	Date	Time	Time Zone
				On Location	04 - Sep - 2010	07:00	CST
Form Type		BHST	122 degF	On Location	04 - Sep - 2010	11:00	CST
Job depth MD	6100. ft	Job Depth TVD	6100. ft	Job Started	04 - Sep - 2010	14:56	CST
Water Depth		Wk Ht Above Floor		Job Completed	04 - Sep - 2010	21:35	CST
Perforation Depth (MD)	From	To		Departed Loc	04 - Sep - 2010	23:00	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 Open Hole Lower Section				7.875				3850.	6100.		
7-7/8" Production Open Hole Upper Section				7.875				1600.	3850.		
Multiple Stage Cementer	Unknown								4100.		
5-1/2" 17 ppf Production Casing	New		5.5	4.892	17.	8 RD (LT&C)	J-55		6100.		
8-5/8" Surface Casing	New		8.625	8.097	24.	8 RD (ST&C)	J-55		1596.		

### 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 ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk	
1	Water Spacer				20.00	bbl	8.33	.0	.0	.0		
2	Superflush				20.00	bbl	9.3	.0	.0	.0		
		68 lbm/bbl HALLIBURTON SUPER FLUSH (100003639)										
3	Water Spacer				20.00	bbl	8.33	.0	.0	.0		
4	Primary Cement	POZ PREMIUM 50/50 - SBM (12302)			355.0	sacks	14.2	1.43	5.79		5.79	
		5.792 Gal FRESH WATER										
		0.6 % HALAD(R)-322, 50 LB (100003646)										
		3 lbm KOL-SEAL, BULK (100064233)										
		5 % CAL-SEAL 60, BULK (100064022)										
		10 % SALT, 100 LB BAG (100003652)										
5	Mud Displacement				141.00	bbl	9.			.0		
Stage/Plug #: 2												
Fluid #	Stage Type	Fluid Name			Qty	Qty uom	Mixing Density uom	Yield uom	Mix Fluid uom	Rate uom	Total Mix Fluid uom	
1	Water Spacer				20.00	bbl	8.33	.0	.0	.0		
2	Super Flush				20.00	bbl	9.3	.0	.0	.0		
		68 lbm/bbl HALLIBURTON SUPER FLUSH (100003639)										
3	Water Spacer				20.00	bbl	8.33	.0	.0	.0		
4	Lead Cement	EXTENDACEM (TM) SYSTEM (452981)			250.0	sacks	11.2	3.07	18.29		18.29	
		0.125 lbm POLY-E-FLAKE (101216940)										
		18.294 Gal FRESH WATER										
5	Tail Cement	CMT - PREMIUM CEMENT (100003687)			100.0	sacks	16.4	1.07	4.43		4.43	
		94 lbm CMT - PREMIUM - CLASS H REG OR TYPE V, BULK (100003687)										
		0.1 % HR-800, 50 LB SACK (101619742)										
		0.125 lbm POLY-E-FLAKE (101216940)										
		4.426 Gal FRESH WATER										
6	Water Displacement				91.00	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		Actual Displacement		Treatment			
Frac Gradient		15 Min			Spacers		Load and Breakdown		Total Job			
Rates												
Circulating		Mixing			Displacement		Avg. Job					
Cement Left In Pipe		Amount	40 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 #: 300496	Ship To #: 2804150	Quote #:	Sales Order #: 7610511
Customer: APACHE CORP		Customer Rep: Hudson, Jim	
Well Name: Hager	Well #: 1-18	API/UWI #:	
Field:	City (SAP): MEADE	County/Parish: Meade	State: Kansas
Legal Description: Section 18 Township 34N Range 27W			
Lat: N 0 deg. OR N 0 deg. 0 min. 0 secs.		Long: E 0 deg. OR E 0 deg. 0 min. 0 secs.	
Contractor: KENAI	Rig/Platform Name/Num: 55		
Job Purpose: Cement Multiple Stages			Ticket Amount:
Well Type: Development Well		Job Type: Cement Multiple Stages	
Sales Person: MEREDITH, JERRY	Srvc Supervisor: WILTSHIRE, MERSHEK	MBU ID Emp #: 195811	

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	09/04/2010 07:00							
Arrive At Loc	09/04/2010 11:00							
Pre-Job Safety Meeting	09/04/2010 11:15							
Start Job	09/04/2010 14:56							
Test Lines	09/04/2010 14:56						5000.0	
Pump Spacer 1	09/04/2010 14:58		6	20			520.0	WATER
Pump Spacer 2	09/04/2010 15:03		6	20			520.0	SUPERFLUSH
Pump Spacer 1	09/04/2010 15:08		6	20			520.0	WATER
Pump Cement	09/04/2010 15:11		6	96			520.0	355 SKS 50/50 POZ @ 14.2#
Drop Top Plug	09/04/2010 15:28		6		96		130.0	END CEMENT
Clean Lines	09/04/2010 15:29							
Pump Displacement	09/04/2010 15:37		5	141			60.0	50 BBLS WATER /// 91 BBLS MUD
Other	09/04/2010 16:00		2.5	121			750.0	SLOW RATE
Other	09/04/2010 16:04						950.0	PRESSURE BEFORE LANDING PLUG
Bump Plug	09/04/2010 16:04		2.5		141		1800.0	FLOAT HELD
Drop Opening Device For Multiple Stage Cementer	09/04/2010 16:06							
Open Multiple Stage Cementer	09/04/2010 16:33						850.0	

Sold To #: 300496

Ship To #: 2804150

Quote #:

Sales Order #:

7610511

SUMMIT Version: 7.20.130

Wednesday, September 15, 2010 03:33:00

# HALLIBURTON

## Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
End Job	09/04/2010 16:44							END FIRST STAGE /// CIRCULATE 4 HOURS
Start Job	09/04/2010 20:32							STAGE 2
Pump Spacer 1	09/04/2010 20:33		6.5	20			200.0	WATER
Pump Spacer 2	09/04/2010 20:37		6.5	20			200.0	SUPERFLUSH
Pump Spacer 1	09/04/2010 20:41		6.5	20			200.0	WATER
Pump Lead Cement	09/04/2010 20:44		6.5	137			230.0	250 SKS EXTENDACEM @ 11.2#
Pump Tail Cement	09/04/2010 21:04		5.5	19			180.0	100 SKS CLASS H @ 16.4#
Drop Top Plug	09/04/2010 21:08		5.5		156		170.0	END CEMENT
Clean Lines	09/04/2010 21:09							
Pump Displacement	09/04/2010 21:13		8	95			120.0	WATER
Other	09/04/2010 21:27		2.5	75			480.0	SLOW RATE
Other	09/04/2010 21:33							PRESSURE BEFORE LANDING PLUG
Bump Plug	09/04/2010 21:33		2.5		95		2650. 0	FLOAT HELD
Close Multiple Stage Cementer	09/04/2010 21:33						2650. 0	
End Job	09/04/2010 21:35							

Sold To #: 300496

Ship To #: 2804150

Quote #:

Sales Order #:

7610511

SUMMIT Version: 7.20.130

Wednesday, September 15, 2010 03:33:00