



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

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 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 <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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The Road to Excellence Starts with Safety

Sold To #: 300496	Ship To #: 2843200	Quote #:	Sales Order #: 8038056
Customer: APACHE CORP		Customer Rep: Dailey, Josh	
Well Name: O'Brien		Well #: 2-20	API/UWI #:
Field:	City (SAP): MEADE	County/Parish: Meade	State: Kansas
Contractor: Duke Drilling		Rig/Platform Name/Num: 6	
Job Purpose: Cement Surface Casing			
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: MEREDITH, JERRY		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 #
AGUILERA, FABIAN	9	442123	ARCHULETA, ERICK	9	454260	CARRILLO, EDUARDO	9	371263
FARNUM, GORDON	9	477892				Carrillo		

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10025025	45 mile	10240236	45 mile	10741245	45 mile	10744298C	45 mile
10866807	45 mile	10988832	45 mile	11133699	45 mile		

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
3-16-2011	2	1.5	3-17-2011	3				

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	16 - Mar - 2011	19:00	CST
Form Type			BHST	75 degF	On Location	16 - Mar - 2011	22:30
Job depth MD	1613. ft		Job Depth TVD	1613. ft	Job Started	17 - Mar - 2011	04:48
Water Depth			Wk Ht Above Floor	5. ft	Job Completed	17 - Mar - 2011	06:44
Perforation Depth (MD)	From	To		Departed Loc	17 - Mar - 2011	08:00	CST

Well Data

Description	New / Used	Max pressure psig	Size in	ID in	Weight lbf/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
12-1/4" Surface Open Hole				12.25				80.	1600.		
20" Pre-Set Conductor	New		20.	19.124	94.				80.		
8-5/8" Surface Casing	New		8.625	8.097	24.	8 RD (ST&C)	J-55		1600.		

Sales/Rental/3rd Party (HES)

Description	Qty	Qty uom	Depth	Supplier
SHOE,GID,8-5/8 8RD	2	EA		
CLR,FLT,TROPHY SEAL,8-5/8 8RD	2	EA		
AUTOFILL KIT,TROPHY SEAL	2	EA		
CENTRALIZER ASSY - API - 8-5/8 CSG X	5	EA		
HALLIBURTON WELD-A KIT	1	EA		
CLAMP - LIMIT - 8-5/8 - HINGED -	2	EA		
BASKET - CEMENT - 8 5/8 CSG X 12 1/4	1	EA		
PLUG,CMTG,TOP,8 5/8,HWE,7.20 MIN/8.09 MA	1	EA		
SUGAR - GRANULATED	50	LB		

Tools and Accessories													
Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug	8 5/8	1	H
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container	8 5/8	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	Lead Cement	MIDCON-2 CEMENT STANDARD - SBM (15078)	450.0	sacks	11.4	2.95	18.09	8.0	18.09
	3 %	CALCIUM CHLORIDE - HI TEST PELLET (100005053)							
	0.5 lbm	POLY-E-FLAKE (101216940)							
	0.1 %	WG-17, 50 LB SK (100003623)							
	18.09 Gal	FRESH WATER							
2	Tail Cement	CMT - STANDARD CEMENT (100003684)	200.0	sacks	15.6	1.2	5.18	6.0	5.18
	94 lbm	CMT - STANDARD - CLASS A REG OR TYPE I, BULK (100003684)							
	2 %	CALCIUM CHLORIDE - HI TEST PELLET (100005053)							
	0.5 lbm	POLY-E-FLAKE (101216940)							
	5.177 Gal	FRESH WATER							
3	Mud Displacement		99.00	bbl	9.	.0	.0	8.0	

Calculated Values		Pressures		Volumes					
Displacement	100	Shut In: Instant	1200	Lost Returns	0	Cement Slurry	280	Pad	
Top Of Cement	Surface	5 Min		Cement Returns	55	Actual Displacement	100	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	400

Rates									
Circulating	4	Mixing	3.5	Displacement	3.5	Avg. Job	3.5		
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



The Road to Excellence Starts with Safety

Sold To #: 300496		Ship To #: 2843200		Quote #:		Sales Order #: 8038056	
Customer: APACHE CORP				Customer Rep: Dailey, Josh			
Well Name: O'Brien			Well #: 2-20		API/UWI #:		
Field:		City (SAP): MEADE		County/Parish: Meade		State: Kansas	
Legal Description:							
Lat:				Long:			
Contractor: Duke Drilling			Rig/Platform Name/Num: 6				
Job Purpose: Cement Surface Casing					Ticket Amount:		
Well Type: Development Well				Job Type: Cement Surface Casing			
Sales Person: MEREDITH, JERRY			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	03/16/2011 19:00							Dispach call cement crew out for Apache Corp job 8 5/8 surface
Pre-Convoy Safety Meeting	03/16/2011 20:30							Discuss Route to take and Hazards on the road
Arrive At Loc	03/16/2011 22:30							
Assessment Of Location Safety Meeting	03/16/2011 22:35							Rigg Was Pulling Drill Pipe Out Tripping out
Pre-Rig Up Safety Meeting	03/16/2011 22:40							Discussed all red zones proper lifting spotting inn equipment were to run lines whint over JSA.
Rig-Up Completed	03/16/2011 23:40							
Other	03/16/2011 23:45							Casing Crew Rigging Up To Run Casing In Hole
Wait on Customer or Customer Sub-Contractor Equip	03/16/2011 23:50							Waiting on casing crew to finish runing casing in hole
Other	03/16/2011 23:50							Got Numbers from coustermer rep Josh Dailey have coustermer sing work order contract / TD =1610//TP =1613//SJ = 41.00 // DISP = 100 BBLS // 1613 - 41.00 = 1572 X .0636 = 100 BBLS 41.00 X .0636 =2.67 BBLS IN SJ
Other	03/17/2011 03:45							Casing Crew Rigging Downe Rigg Trying To Circulat last joint of pipe downe.

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pre-Job Safety Meeting	03/17/2011 04:25							Discussed the job steps went over numbers with company rep had all rig crew sing safe sheet and went over the job
Start Job	03/17/2011 04:48							Ready for Halliburton
Test Lines	03/17/2011 04:48						2000.0	Tested lines to 2000 Heald Released PSI on truck.
Pump Spacer	03/17/2011 04:53		4.5	20	0		100.0	Pumped 20 bbls spacer per company rep Pump at 4.5 bbls
Pump Lead Cement	03/17/2011 05:03		4.5	237	257		200.0	Pumped 450 sks cmt @ 11.4 ppg / 450 x 2.95 x .1781 = 237 bbls cmt 450 x 2.95 = 1327.5 cu/ft Pump at 4.5 bpm per coustemer rep
Pump Tail Cement	03/17/2011 05:51		4.5	43	300		300.0	Pumped 200 sks cmt @ 15.6 ppg / 200 x 1.2 x .1781 = 43 bbls cmt / 200 x 1.2 = 240 cu/ft Pumped at 4.5 bpm
Drop Top Plug	03/17/2011 06:02							HWE
Pump Displacement	03/17/2011 06:07		4	100	400			Pumped H2O Rigg Water 100 bbls Slowed Down once we reached cmt to 3.5 bpm
Displ Reached Cmnt	03/17/2011 06:23		3.5	100	400		500.0	Pumped disp at 46 bbls reached cmt got bake returns got 54 bbls cmt to surface.
Slow Rate	03/17/2011 06:36		2				650.0	Slowed Down Last 10 BBLS To 2 BPM
Bump Plug	03/17/2011 06:37						575.0	Bumped Plug @ 550 Took to 1200 psi 500 over
Check Floats	03/17/2011 06:41							Floats held Got 1 BBL Back
Pre-Rig Down Safety Meeting	03/17/2011 06:55							Discuss Pinchpoint and Triping Hazards
Rig-Down Completed	03/17/2011 07:55							

HALLIBURTON

Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Other	03/17/2011 07:56							THANK YOU FOR CHOOSING HALLIBURTON ED AND CREW.
Crew Leave Location	03/17/2011 08:00							

Sold To #: 300496

Ship To #: 2843200

Quote #:

Sales Order #:

8038056

SUMMIT Version: 7.20.130

Thursday, March 17, 2011 07:46:00

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



phone: 316-337-6200
fax: 316-337-6211
<http://kcc.ks.gov/>

Thomas E. Wright, Chairman
Ward Loyd, Commissioner

Corporation Commission

Sam Brownback, Governor

April 21, 2011

MARCIA HENDERSON
Apache Corporation
6120 S. Yale Avenue, Suite 1500
TULSA, TX 74136

Re: ACO1
API 15-119-21285-00-00
OBRIEN 2-20
NE/4 Sec.20-34S-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,
MARCIA HENDERSON