# ORIGINAL

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

RECEIVED

Form ACO-1 June 2009 Form Must Be Typed

JUN 2 8 2010 All blanks must be Filled

WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

Name:APACHE CORPORATION  Address 1: _6120 S. YALE  Address 2:SUITE 1500  City: _TULSA	OPERATOR: License # 34269	API No. 15 - 119-21253 66 WICHITA
Address 1: 6120 S. YALE  Address 2: SUITE 1500  Feet from   South   South   South   South   Line of Section    Footages Calculated from Nearest Outside Section Corner:    South   South   South   South   South   South   South   Line of Section	ARACHE CORPORATION	
Address 2: SUITE 1500  City, TULSA  State, OK Zip, 74136 +  Contact Person: RHONDA PRILL  Prochaser; Olfs 3 491.4983  CONTRACTOR: License gi 34000  Name: KENAI MID-CONTINENT  CONFIDENTIA  Wellste Geologist:  Purchaser; Olf- NCRA GAS - DCP  Designate Type of Completion:  New Well Re-Entry	Name:	
Contact Person: RHONDA PRILL Phone: 918		
Contract Person: RHONDA PRILL Phone: (918) 491.4983  CONTRACTOR: License # 34000 Name: KENAI MID-CONTINENT CONFIDENTIAL Wellsate Geologist Purchaser: Oll- NCRA GAS - DCP Decignate Type of Completion:    New Well   Re-Entry   Workover		
Phone: (918    491.4983		
County: MEADE    County: MEADE		
Lease Name:   Well #:   Well Yes, and Cemental at 1450	Phone: ( ) 4111000 2010	
Lease Name:   Well #:   Well Yes, and Cemental at 1450	CONTRACTOR: License # 34000	BARBY 2-21
Producing Formation: CHEROKEE    Producing Formation: CHEROKEE	Name: KENAI MID-CONTINENT	Lease Name:Well #:
Designate Type of Completion:		
New Well	Purchaser: OIL - NCRA GAS - DCP	
Amount of Surface Pipe Set and Cemented at: 1450   Feet	Designate Type of Completion:	
Gas   D&A   ENHR   SIGW   Go   GSW   Temp. Abd.   If yes, show depth set:	✓ New Well Re-Entry Workover	
GG   GSW   Temp. Abd.   If yes, show depth set:	✓ Oil WSW SWD SIOW	Amount of Surface Pipe Set and Cemented at: Feet
CM (Coal Bed Methane)   Cathodic   Other (Core, Expl., etc.):   If Alternate II completion, cement circulated from: N/A   feet depth to:	☐ Gas ☐ D&A ☐ ENHR ☐ SIGW	Multiple Stage Cementing Collar Used? Yes XXNo
Cathodic   Other (Core, Expl., etc.):   feet depth to:   w/   sx cmt.	☐ OG ☐ GSW ☐ Temp. Abd.	If yes, show depth set: Feet
Two files of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully compled with and the statutents herein are complete and orrect to the best of my knowledge.    Files Agrand Application of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully compiled with and the statements herein are complete and correct to the best of my knowledge.    Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)	CM (Coal Bed Methane)	If Alternate II completion, cement circulated from: N/A
Operator:	Cathodic Other (Core, Expl., etc.):	feet depth to: sx cmt.
Well Name:  Original Comp. Date:  Original Total Depth:  Original Comp. Date:  Original Total Depth:  Original Comp. Date:  Original Total Depth:  Original Dead Total Depth:  Original	If Workover/Re-entry: Old Well Info as follows:	
Coriginal Comp. Date:	Operator:	Drilling Fluid Management Plan
Deepening Re-perf. Conv. to ENHR Conv. to SWD Conv. to GSW    Plug Back:	Well Name:	
Dewatering method used: hauled off    Conv. to GSW	Original Comp. Date: Original Total Depth:	Chloride content: 4000
□ Commingled □ Permit #: □ Dual Completion □ Dual Completion □ Dual Permit #: □ Dual Completion □ Dual Dual		
□ Commingled □ Permit #: □ Dual Completion □ Permit #: □ Lease Name: General Inc. □ SWD □ Permit #: □ Lease Name: Big Dog □ License No.: 23084 □ County: □ Date Permit #: □ Date Reached TD □ Completion Date or Recompletion Date □ Per ○ Per	Plug Back: Plug Back Total Depth	Location of fluid disposal if hauled offsite:
SWD   Permit #:	Commingled Permit #:	
GSW Permit #:  GSW Permit #:  Gounty: Beaver, OK Docket No.: 358148    County: Beaver, OK Docket No.: 358148   County: Beaver, OK Docket No.: 358148		
Spud Date or Recompletion Date    Spud Date or Recompletion Date   Date Reached TD   Completion Date or Recompletion Date	SWD Permit #:	
Spud Date or Recompletion Date  INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.  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.  Signature:  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.  Signature:  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.  Signature:  AFFIDAVIT  Confidential Release Date:  Wireline Log Received  Geologist Report Received		Quarter NW Sec. 28 Twp 25 N & R. 25 W East Wes
Spud Date or Recompletion Date    Date Reached TD   Completion Date		County: Beaver, OK Docket No.: 358148
INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.  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.  Signature:  AFFIDAVIT  Signature:  AFFIDAVIT  AFFIDAVIT  Signature:  RCC Office Use ONLY  Letter of Confidentiality Received  Date:  Wireline Log Received  Geologist Report Received		
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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.  Signature:     Letter of Confidentiality Received	[병원: 120] 기술의 시험적인 및 120] 함께 발표하는 140 역 및	
lations 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.  Signature:     Letter of Confidentiality Received		
and the statements herein are complete and correct to the best of my knowledge.  Signature: Pronda Pril 918 491 4983  Date: Confidential Release Date: Wireline Log Received  Geologist Report Received		with Letter of Confidentiality Received
Signature: Thom da Poll 918 491-4983 Wireline Log Received Geologist Report Received		ge. Date: V-A4-10
Geologist Report Received	D. 1. D'II 010 101 100	
그는 그 그래, 그리고 10	Signature: 91000 @ 11 718 491-498	Geologist Report Received
	Title: ENGINEERING TECH Date: 6/28/2010	UIC Distribution

Side Two

KCC JUN 2 4 2010

Operator Name: AP	ACHE CORPOR	RATION		Lease I	Name: _	BARBY		_Well #: _2-	21 (	CONFIDE
Sec. 21 Twp.34	s. R. <u>27</u>	East	✓ West	County	: MEA	DE		11/4	11.3	
NSTRUCTIONS: Shime tool open and clorecovery, and flow ratine Logs surveyed. A	osed, flowing and shes if gas to surface	nut-in pressu test, along w	ires, whether with final char	shut-in pres	sure rea	ched static leve	el, hydrostatic pres	sures, bottom	hole tem	perature, fluid
Drill Stem Tests Taker		☐ Ye	es 🗸 No		<b>✓</b> L	og Format	ion (Top), Depth a	nd Datum		Sample
Samples Sent to Geo	logical Survey	☐ Ye	s V No		Nam			Тор		Datum
Cores Taken		☐ Ye	F70			HEEBNER ING/KANSAS	CITY	4366 4510		2140
Electric Log Run		☐ Ye				MATON	CITT	5190		2964
Electric Log Submitte (If no, Submit Copy		☐ Ye	es √ No			ROKEE		5606		3380
ist All E. Logs Run: DENSITY, INE	DUCTION, M	ICRO RI	ESISTIVI	TY						
				3 RECORD	✓ Ne			Tari		To est
Purpose of String	Size Hole Drilled	Siz	rt all strings set e Casing (In O.D.)	Weight	ght	ermediate, produ Setting Depth	Type of Cement	# Sacks Used	Тур	e and Percent Additives
SURFACE	FACE 12.25 8 5/8					1,450'	STD CL A	650	450 SX	3% CC + 200 2% CC
PRODUCTION	7.875	4 1/2		11.6	11.6 5,950' 50/50 POZ				330 SX 69	6 HALID + 100 10% SALT
			ADDITIONA	AL CEMENTII	NG / SQL	JEEZE RECOR	D			1 1 204
Purpose:  — Perforate — Protect Casing — Plug Back TD	Depth Top Bottom	Туре	of Cement	# Sacks			J. S. Chillian	Percent Additive	s	
Plug Off Zone										
Shots Per Foot			D - Bridge Plu Each Interval Pe				racture, Shot, Cemer (Amount and Kind of M		ord	Depth
4	5,607' - 5,614'					FRAC 5,60	07' - 5,654 WITH	6,698 GAL 2	2%	5,607'
4	5,645' - 5,654		RECE	IVED		SLICK WT	R + 12,012 GAL	20% GELLE	:D	5,645'
			JUN 2	8 2010		50Q N2 R	ETARDED ACID			
			KCC W	ICHITA	-					
TUBING RECORD:	Size: 2 3/8	Set At: 5,666'		Packer A	t:	Liner Run:	Yes ✓ N	)		
Date of First, Resumed 5/4/2010			Producing Me	*	ng _	Gas Lift	Other (Explain)			
Estimated Production Per 24 Hours	Oil 14	Bbls.	Gas 0	Mcf	Wat	ter 18	Bbls.	Gas-Oil Ratio		Gravity
Vented Sold	ON OF GAS:  d	e 🗆	Open Hole	METHOD OF		y Comp.	Commingled (	PRODUCT	ION INTE	RVAL:

Summit Version: 7.20.130

# Cementing Job Summary

Sold To	#- 300	1496		Chi	Th	e Road #: 2773	to E	xcellen			rith S	afety	,					
Custome			COPP	Sill	) 10	#. ZII:	1100		_	ote #:				Sal	es Orde	r #: 72	25259	99
Well Nan			CORP						Cu	stome	r Rep	: Bor	ne, Mr. G			TIP		
Field:	ic. De	поу	-	Sib. 10 1	D). 1			#: 2-21		2.00			API/	UWI #	:			
	ecrint	ion: C	antion	City (SA	(P): N	MEADE		Coun	ty/Pa	rish: 1	Meade	9		Sta	te: Kans	sas	100	30
Legal De Contract	scrip	CALAL	ection	21 TOV	vnsnip												111	30
						Rig/PI	atfon	m Name	e/Nur	n: 58				14.1		JUN	24	2010
Job Purp					Casin	~							Liber 9			004	IEID	
Well Type						Job Ty	ype:	Cement	Prod	uction	Casin	g	NOTE OF		10.11	UUN	IFID	ENT
Sales Per	son:	MERE	DITH,	JERRY		Srvc S	uper	visor:			NALD	)	MBU ID	Emp :	#: 3898	55		_
UEOE		11067	-					Job P	ersor	nnel			i i i i i i i i i i i i i i i i i i i					
HES E			Exp H					p Name		xp Hrs			HES	Emp N	lame	Exp	drs	Emp :
TORRES		S Ray	9.5	2265		DEETZ	, DON	NALD E	1	9.5	3898	55	LOPEZ,	JUAN	4 1	9.5		36795
CLEMEN	*		9.5	3442	233								a. Fr	TE N	1091			
	. 1 .				100		Ir de	Equi	pmei	nt			4 1			-		
HES Unit		stance	-1 way	HES		-		-1 way		S Unit		istan	ce-1 way	HES	S Unit #	Diet	ance	-1 way
10244148		mile		10286	731	45 m	ile		107	142530	45	5 mile		-	6807	45 m		- i way
10994449	45	mile		10998	524	45 mi	ile	4-75	111:	33699	45	5 mile						
THE PERSON NAMED IN								Job	Hour	S								
Date	Or	Hours		peratin	g	Date	-	On Loc	ation	Ope	erating	1	Date	0	n Locat	ion	Oper	ating
3-19-10	100	1.5	T OUT	1		3-20-1	0	8	15	-	lours				Hours		Но	urs
OTAL									Total is	e the er	Alex.	nach	column se	187				198
	110			Job		- Marie	TEF		oldi it	110 30	illi Ol e	acii (						9
ormation	Carlotte and an artist and an artist and artist artist and artist and artist artist and artist artist and artist artist and artist arti												Da	b Tin	-			
ormation	Depth	(MD)	Гор	March.		Bott	om [			Called	Out		19 - Mar		19:0			Zone
orm Type					HST			135 0	legF	On Lo		)	19 - Mar				CS	
ob depth !			5950. ft			pth TVI		5950		Job St			20 - Mar				CS	
/ater Dept				M	/k Ht	Above F	loor	3.	ft	Job C	omple	ted	20 - Mar		OF 11.00		CS	
erforation	Depth	(MD)	rom			To				Depar			20 - Mar			-	CS	
D			1					Well	Data									
Descripti	on	New / Used	press		ize in	ID in	Weig		Th	read		Gr	ade To	p MD	Bottom			ottom
7/01/5			psi	g										ft	MD	TVI	,	TVD
-7/8" Produ pen Hole	iction					7.875		L Bar-			400		1	600.	5950.	11		11
-1/2" Produ	iction	New		4	.5	4.	11.6	6	BUT	TRESS		N-	80		5950.			
asing -5/8" Surfa	ce	New	-	8.6	325	8.097	24.		8 RD	(ST&C	)		55	-				
asing												-			1600.			
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Type uide Shoe	Size		Make	Depth	1	ype	Size	e Qty	M	ake [	Depth		Type	S	ize	Qty	IV	lake
oat Shoe	4.5	1	W	5950	Pack							Тор	Plug		4.5	1		h
oat Collar	4.5	1	145	5040	1	ge Plug	17.3						om Plug		E PEL		1	
sert Float	4.0	1	W	5910	Retai	iner		-	-				plug set					
age Tool								1	-				Containe	er 4	1.5	1		h
	771			THE ST		2.0	liecol	lanca	. 34.			Cent	tralizers		U.S. 187	259		
Iling Agt		T	Cor	ic.		Surfac		llaneou	s Mai			I.	Mari Link Wil					15
eatment FI	d		Cor			Inhibite				Conc			Туре		Qty		Conc	%
F/61/10		-	301			Imminiti	01			Conc	L	San	d Type		Size		Qty	

RECEIVED

JUN 2 8 2010

Saturday, March 20, 2010 06:15:00

KCC WICHITA

# JUN 2 4 2010 Cementing Job Summary CONFIDENTIAL

				7 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		U	OIN I						
						F	luid Data		1. 11-2	A 1965 L		1 - 1 - 10	
	age/Plug			MANAGEMENT AND				17717		Marie Control	3 5 5 7	110	
Fluid #	Stage		13	Fluid	Name		Qty	Qty		Yield ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total M Fluid Gal
1	Fresh W	ALC: NO THE REAL PROPERTY AND ADDRESS OF THE PERSON AND ADDRESS OF THE		U See M	P. L. V		10.00	bbl	8.33	.0	.0	8.0	
2	Superflu			1, 14			10.00	bbl	9.5	.0	.0	8.0	
	68 lbm/bl	bl	HALLIE	BURTON SUF	ER FLUSH	1 (10000	03639)	N. A.			.0	0.0	
3	Fresh W	ater		Marie Galdine	The part of		5.00	bbl	8.33	.0	.0	8.0	
4	HALLIBU LIGHT PR		HALLII SBM (1	BURTON LIG 2311)	HT PREMI	UM -	330.0	sacks		1.84	9.88	8.0	9.88
	0.6 %			)(R)-322, 50 L	B (1000036	346)	V						
	0.25 lbm			E-FLAKE (101		To the L					-		
	9.877 Ga	1	-	WATER				1987					
5 F	50/50 PO	_	POZ PI	REMIUM 50/5	0 - SBM (1	2302)	100.0	sacks	14.2	1.36	5.54	7.0	5.54
	5.535 Ga	1	FRESH	WATER									
	0.6 %	1-75	The second second second second	(R)-322, 50 L	B (1000036	46)						14 19 1 64	
	3 lbm			EAL, BULK (1		,,,						17.15	14.61
	5 %			AL 60, BULK		2)							1000
	10 %		SALT, 1	100 LB BAG (	100003652	)							
6.00	2% KCL isplacem	ent				MIN		bbl	8.45	.0	.0	8.0	
16	7 lbm/Mg	al	POTAS	SIUM CHLOR	IDE - KCL	50 LB I	BAG (10000	1585)					
1	1 gal/Mgal	1873	CLA-ST	A(R) XP (100	003733)		5,10,10000	,,,,,,				043	
1	gal/Mgal			F-300, 53 GA		000036	51)						
Cal	culated \	Values		Pressui		100			Va	lumes			
isplace	ement	92	Shu	t In: Instant		Lost F	Returns	0	Cement Slu	The Control of the Co	132	n .	
op Of (	Cement	2712			THE STREET		nt Returns	0	Actual Dis			Pad	
rac Gra	adient		15 N	/lin		Space		25	Load and B	reakdown	92	Treatme	
					100		Rates		Loud and D	reakdowii		Total Jo	b 249
ircula		5		Mixing	6		Displace	ement	6		Ava lo	la la	
	nt Left In	Pipe	Amount	40 ft Rea	son Shoe	Joint	,			,	Avg. Jo	D	6
rac Rir	ng # 1 @	1	ID	Frac ring # 2		D	Frac Ring	#3@	ID	Fran	Ring #	140	ID
The	Informa	ation :	Stated	Herein Is C	orrect	Custor	mer Represent	tative Sig	nature	1 Tac	Allig #	4 (6)	IU

JUN 2 8 2010 KCC WICHITA

Sold To #: 300496

# Cementing Job Log

The Road to Excellence Starts with Safety Ship To #: 2773511

Quote #:

0014 10 11. 300490	Shib 10 #: 2//	3511		Quote #			Sal	es Order #: 7252599
Customer: APACHE CORP						Bone, Mr.	Glenn	. 7252599
Well Name: Barby			#: 2-21				PI/UWI #	
Field: Ci	ty (SAP): MEADE	(	County/F	Parish: N	Meade	-		e: Kansas
Legal Description: Section 2	21 Township 34S	Range 2	27W				Otati	e. Nalisas
Lat:				ong:				
Contractor: .KENAI	Rig/P	latform	Name/N		1			
Job Purpose: Cement Produ	ction Casing					Ticket	Amoun	4.
Well Type: Development Well	Job T	vpe: Ce	ement Pr	oduction	Casino	TICKE	Amoun	it:
Sales Person: MEREDITH, J	ERRY Srvc S	Supervi	sor: DEI	FTZ DC	NAID		D Emp	W. 200055
Activity Description	Date/Time	Cht	Rate bbl/ min	Vo	lume	Pre	ssure ssig	#: 389855 Comments
Call Out	20110100010	#		Stage	Total	Tubing	Casing	
Can Out	03/19/2010 19:00							called out early do to
Depart Yard Safety Meeting	03/19/2010							weather snoe coming in
	20:15							discuse routs and stops
Arrive At Loc	03/19/2010 22:30							rig just started running
Assessment Of Location	03/19/2010							casing
Safety Meeting	22:35							walk around location
Pre-Rig Up Safety Meeting	03/19/2010					-		pouint out any hazards
	22:40		-					watch for pinch
B:					REC	EIVED		points,hammering and walking hazards
Rig-Up Completed	03/19/2010 23:40				1411	0 5 2010		waiking nazarus
Other	03/20/2010				JUN	F '		
Other	01:30				KCC	2 8 2010 WICHIT	F	put on head circulated with rig dont have any butress swedges availible
Julei	03/20/2010							started running casing
Casing on Bottom	02:00 03/20/2010	-						again
	04:14							put on head reloaded plug started mixing suoer flush circulated with rig
Pre-Job Safety Meeting	03/20/2010							with all personal on
Pressure Test	04:30							location
rossaro rest	03/20/2010 04:50							3000 psi
start Job	03/20/2010							
	04:59			1				
ump Spacer 1	03/20/2010	-	6	10			450.0	
	05:01		0	10			450.0	fresh water
ump Spacer 1	03/20/2010 05:03		6	10	20		450.0	super flush
ump Spacer 1	03/20/2010		6	5	25		450.0	

Sold To #: 300496

Ship To #:2773511

05:05

Quote #:

Sales Order # :

fresh water

450.0

7252599

SUMMIT Version:

7.20.130

Saturday, March 20, 2010 06:15:00

# Cementing Job Log

Activity Description	Date/Time	Cht	Rate bbl/ min		lume		ssure	Comments	
Promo Local Co.		#		Stage	Total	Tubing	Casing		
Pump Lead Cement	03/20/2010 05:06		6	108	133		450.0	330 sks @ 12.7	
Pump Tail Cement	03/20/2010 05:23		6	24	157		200.0	100 sks @ 14.2	
Drop Plug	03/20/2010 05:41		44					top plug only	
Pump Displacement	03/20/2010 05:42		6	92	249		450.0	kcl water additives potasium chloride cla- stay & losurf	
Bump Plug	03/20/2010 06:04		2		7.19			bumped plug @ 950 took to 1600	
Check Floats	03/20/2010 06:06			ALI Y			419	ok	
End Job	03/20/2010 06:07				K	CC	tell 1		
Pre-Rig Down Safety Meeting	03/20/2010 06:10				JUN S	4 2010 HDENT	14	all hes employees	
Rig-Down Equipment	03/20/2010 06:15				CONF	IDENT		present	
Depart Location Safety Meeting	03/20/2010 07:30			Fall				all hse employees	
Depart Location for Service Center or Other Site	03/20/2010 08:00		W.		T <sub>1</sub> (t <sub>1</sub> )			present thanks for calling	
Clean Lines	03/20/2010				11 101	15.7		halliburton eric & crew to pit	

JUN 2 8 2010 KCC WICHITA

Sold To #: 300496

Ship To #:2773511

Quote # ·

Sales Order # :

7252599

SUMMIT Version: 7.20.130

Saturday, March 20, 2010 06:15:00

KCC

#### HALLIBURTON

# JUN 2 4 2010 CONFIDENTIAL Cementing Job Summary

The Road to Excellence Starts with Safety Sold To #: 300496 Ship To #: 2773511 Quote #: Sales Order #: 7235671 Customer: APACHE CORP Customer Rep: Bone, Mr. Glenn Well Name: Barby Well #: 2-21 API/UWI #: Field: City (SAP): MEADE County/Parish: Meade State: Kansas RECEIVED Legal Description: Section 21 Township 34S Range 27W Contractor: KENAI Rig/Platform Name/Num: 58 JUN 2 8 2010 Job Purpose: Cement Surface Casing Well Type: Development Well Job Type: Cement Surface Casing KCC WICHIT Sales Person: MEREDITH, JERRY Srvc 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# CARRILLO. 371263 MATA, ADOLFO V 419999 SLATER, JOE P 9 106095 **EDUARDO** Carrillo SMITH, BOBBY 9 106036 Wayne Equipment HES Unit # Distance-1 way HES Unit # Distance-1 way **HES Unit #** Distance-1 way HES Unit # Distance-1 way 10240239 45 mile 10240245 45 mile 10243558 45 mile 10744298C 45 mile 10866807 45 mile 10998524 45 mile 11133702 45 mile Job Hours Date On Location Operating Date On Location Operating Date On Location Operating Hours Hours Hours Hours Hours Hours TOTAL Total is the sum of each column separately Job **Job Times Formation Name** Date Time Zone Time Formation Depth (MD) Top Bottom Called Out 12 - Mar - 2010 23:00 CST Form Type BHST 75 deaF On Location 13 - Mar - 2010 01:30 CST Job depth MD 1600. ft Job Depth TVD ft Job Started 13 - Mar - 2010 06:00 CST Water Depth Wk Ht Above Floor 20. ft Job Completed 13 - Mar - 2010 07:00 CST Perforation Depth (MD) From To Departed Loc 13 - Mar - 2010 10:30 CST Well Data Description New / Max Size ID Weight Thread Grade Top MD Bottom Top Bottom Used pressure in in lbm/ft MD ft TVD TVD psig ft ft ft 12-1/4" Surface 12.25 80. 1600. Open Hole 20" Pre-Set New 20. 19.124 94 80. Conductor 8-5/8" Surface New 8.625 8.097 24 8 RD J-55 1600. Casing Sales/Rental/3rd Party (HES) Description Qty Qty uom Depth Supplier PLUG,CMTG,TOP,8 5/8,HWE,7.20 MIN/8.09 MA 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 Stage Tool Centralizers Miscellaneous Materials **Gelling Agt** Conc Surfactant Conc

Summit Version: 7.20.130

Conc

Treatment Fld

Conc

Inhibitor

Acid Type

Sand Type

Qty

Size

Conc

Qty

%

# Cementing Job Summary

	age/Plug #: 1	ALCOHOLD STATE				id Data						
	agon lug m. I									BETTER DE LA		
Fluid #	Stage Type		Fluid N			Qty	Qty	Mixing Density Ibm/gal	Yield ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/s
	Lead Cement	MIDCO (15078)	N-2 CEMENT	STANDARI	O-SBM	450.0	sacks		2.95	18.09	8.0	18.09
	3 %	CALCIL	IM CHLORIDE	- HI TEST	PELLET	(1000050	053)					1 1111
77	0.5 lbm	POLY-E	-FLAKE (1012	216940)				7 7 7	3112710			
7.41	0.01 %	WG-17,	50 LB SK (10	0003623)	C EST				/ -		V 100	
	18.09 Gal	FRESH	WATER				d G	1.0	192			
2	Tail Cement	CMT - S (100003	TANDARD CI 684)	EMENT		200.0	sacks	15.6	1.2	5.18	6.0	5.18
	94 lbm	CMT - S	TANDARD - C	LASS A RE	GORT	YPE I. BL	JLK (100	0003684)				1 7 104
	2 %	CALCIU	M CHLORIDE	- HI TEST I	PELLET	(1000050	)53)			544 777		
	0.5 lbm	POLY-E	-FLAKE (1012	16940)				SHEET, P	5,57 3	THE PART	7071	
5	5.177 Gal	FRESH	WATER			THE STATE		2507774	CO COL	hadra .		
	Displacement		(Tongotta	STAN FINE	1111	91.00	bbl	9.	.0	.0	8.0	
Calc	culated Values	S	Pressur	es	STATE OF	den de	of Lothica	Vo	olumes		0.0	1907088
isplace		Shu	t In: Instant	Tank Mile	Lost Ret	turns		Cement Sl			Pad	
_	Cement	5 Mi			Cement	Returns		Actual Dis		nt	Treatme	ent
ac Gra	dient	15 N	lin		Spacers			Load and E			Total Jo	
					Ra	ites		Carlo Land	An Sec	MINE ELE	de Gas	
Compa			Mixing	1		Displac	ement			Avg. Jo	0	
	nt Left In Pipe	Amount					1000	ST. ALSY			La proper de	ALC: PLACE OF
rac Kir	ng # 1 @	ID	Frac ring # 2	@ 10		r Represe			F	rac Ring #	4@	ID

JUN 2 4 2010 CONFIDENTIAL

JUN 2 8 2010 KCC WICHITA

Summit Version: 7.20.130

Saturday, March 13, 2010 07:19:00

# Cementing Job Log

The Road to Excellence Starts with Safety

Sold To #: 300496	Ship T	o#: 277351	11	Quote #:	Holl Road	Sales Order #: 7235671
Customer: APACHE (	CORP		Customer Rep: Bor			nn
Well Name: Barby		V	Vell #: 2-21		API/U	IWI #:
Field:	City (SAP):	MEADE	County	/Parish: Meade	Maria de la compansión de	State: Kansas
Legal Description: Se	ection 21 Towns	hip 34S Rar	nge 27W	MARCHARL TO THE REAL PROPERTY.	7 7 19	
Lat:				Long:	Shirt St.	1116
Contractor: .KENAI	William Parket	Rig/Platt	form Name	Num: 58	Mar Pulle	
Job Purpose: Cement	Surface Casing				Ticket Ar	nount:
Well Type: Developme	ent Well	Job Typ	e: Cement S	Surface Casing	SLIDE V	Edwin Pile Wile P
Sales Person: MEREI	OITH JERRY	Srvc Su	nervisor: SI	MITH BORRY	MRILIDE	mp #: 106036

Activity Description	Date/Time	Cht	Rate bbl/ min	The second second	lume obl	A 100 TO	ssure	Comments
		#		Stage	Total	Tubing	Casing	
Call Out	03/12/2010 23:00							THE SECOND
Depart Location Safety Meeting	03/13/2010 00:00	17		Salah,		No. 1		The same and the same at
Arrive At Loc	03/13/2010 01:30			1	CC	150		
Assessment Of Location Safety Meeting	03/13/2010 01:30		BIE	JUN	2 4 2010	7181		casing crew rigging up
Pre-Rig Up Safety Meeting	03/13/2010 01:30			CON	FIDEN	111		
Other	03/13/2010 02:00				DECI	IVED		casing going in the hole
Rig-Up Completed	03/13/2010 02:00					o o onin		
Other	03/13/2010 05:00				JUN	WICHI	A	casing on bottom
Safety Meeting - Pre Job	03/13/2010 05:30				KCC	AAIOLII		
Start Job	03/13/2010 05:39							
Test Lines	03/13/2010 05:39					4 12	4000. 0	
Pump Lead Cement	03/13/2010 05:44			236.4		l vi	260.0	450 sx = 1327.5 ft3 = top of cement surface
Other	03/13/2010 05:45			Tin 1		1 4		mud returns
Pump Tail Cement	03/13/2010 06:16			42.74			200.0	200 sx = 240 ft3. top of cement 919.86 ft
Drop Top Plug	03/13/2010 06:23		1219			Jida -	Rai Š	
Pump Displacement	03/13/2010 06:26			90.37	0	A.A.	Balati	water
Bump Plug	03/13/2010 06:42				90.37	400.0	1000.	
Check Floats	03/13/2010 06:43				16.5			float held.

Sold To #: 300496

Ship To #:2773511

Quote #:

Sales Order #:

7235671

SUMMIT Version: 7.20.130

Saturday, March 13, 2010 07:18:00

# Cementing Job Log

Activity Description	Date/Time	Cht	Rate bbl/ min	Volume bbl			sure sig	Comments
		#		Stage	Total	Tubing	Casing	
End Job	03/13/2010 06:44					E-at	d Th	75 bbls of cement back to surface.
Safety Meeting - Pre Rig-Down	03/13/2010 06:45				N. S	1019		to surface.
Rig-Down Completed	03/13/2010 10:00		100	T FE	1	14.71		1 1 1 7 7 3
Safety Meeting - Departing Location	03/13/2010 10:15	187.7	1000			- 3		
Depart Location for Service Center or Other Site	03/13/2010 10:30		Į.					Thank you for calling Halliburton. Bob and crew.

JUN 2 4 2010 CONFIDENTIAL

RECEIVED
JUN 2 8 2010
KCC WICHITA

Sold To #: 300496

Ship To #:2773511

Quote #:

Sales Order #:

7235671

SUMMIT Version: 7.20.130

Saturday, March 13, 2010 07:18:00