

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1062586

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 #	API No. 15
Name:	Spot Description:
Address 1:	
Address 2:	Feet from North / South Line of Section
City: State: Zip:+	Feet from East / West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	
CONTRACTOR: License #	County:
Name:	Lease Name: Well #:
Wellsite Geologist:	Field Name:
Purchaser:	Producing Formation:
Designate Type of Completion:	Elevation: Ground: Kelly Bushing:
New Well Re-Entry Workover	Total Depth: Plug Back Total Depth:
Oil WSW SWD SIOW Gas D&A ENHR SIGW OG GSW Temp. Abd. CM (Coal Bed Methane) Cathodic Other (Core, Expl., etc.):	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.
If Workover/Re-entry: Old Well Info as follows:	
Operator:	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: Quarter Sec TwpS. R Destate #: County:
Spud Date or Date Reached TD Completion Date or Recompletion Date Recompletion Date	

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:

	Side Two	1062586
Operator Name:	Lease Name:	Well #:
Sec TwpS. 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 (Attach Additional Shee	ets)	Yes No		Log Fo	ormation (Top), Depth ar	nd Datum Top	Sample
		Yes No		Name		юр	Datum
Cores Taken Electric Log Run Electric Log Submitted El (If no, Submit Copy)	ectronically	☐ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No)				
List All E. Logs Run:							
		CAS		New U	sed		
		Report all strings	set-conductor, surfac	e, intermediate,	production, etc.		
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Sett Dep		# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose: —— Perforate	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
Protect Casing Plug Back TD				
Plug Off Zone				

Shots Per Foot								Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)					
TUBING RECORD:	Siz	ze:	Set At:		Packer	r At:	Liner R	un:	No				
Date of First, Resumed F	Product	ion, SWD or ENHF	λ .	Producing N		ping	Gas Lift	Other (Explain)					
Estimated Production Per 24 Hours		Oil Bb	ls.	Gas	Mcf	Wate	ər	Bbls.	Gas-Oil Ratio	Gravity			
Shots Per Pool Specify Footage of Each Interval Perforated (Amount and Kind of Material Used) E Image: Shots Per Pool Image: Specify Footage of Each Interval Perforated Image: Specify Footage of Material Used) I													
DISPOSITION OF GAS:			METHOD OF COMPLE						PRODUCTION INT	ERVAL:			
	Date of First, Resumed Production, SWD Estimated Production Per 24 Hours DISPOSITION OF GAS: Uvented Sold Used on L			Open Hole	Perf.								
(If vented, Subr	mit ACC)-18.)		Other (Specify)									

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	EOG Resources, Inc.
Well Name	Obrate 33 #1
Doc ID	1062586

All Electric Logs Run

SONIC ARRAY	
RESISTIVITY	
MICRO	
SPECTRAL DENSITY DUAL SPACED NEUTRON	

Form	ACO1 - Well Completion
Operator	EOG Resources, Inc.
Well Name	Obrate 33 #1
Doc ID	1062586

Tops

Name	Тор	Datum
BASE OF HEEBNER	4139	-1141
LANSING	4218	-1339
MARMATON	4775	-1896
CHEROKEE	4923	-2044
АТОКА	5069	-2190
MORROW	5209	-2330
CHESTER	5371	-2492
ST. LOUIS	5486	-2607

Cementing Job Summary

					Th	e Road t	to Ex	celler			th Safe	əty							
Sold To #: 3	48223	3		Shi	р То #	: 28530	45			ote #:					es O	rder #	: 81595	63	
Customer: I	EOG F	RESC	URCE	S INC	EBU	SINESS			Cu	stomer	Rep: I	Iowai	rd, Will	iam					
Well Name:	Obrat	e		Anno 2000 A		N	Vell #	: 33-1					API/	UWI #	ŀ:				
Field:			Ci	ity (S/	AP): S	UBLETT	Е	Cour	nty/Pa	rish: H	askell			Sta	ite: K	lansas			
Contractor:	KEN	AI				Rig/Plat	tform	n Nam	e/Nur	n: 58			99						
Job Purpos	e: Ce	ment	Surfa	ce Ca	sing			••••••••••••••••••••••••••••••••••••••											
Well Type: (Advent Annothing the second se		······································		¥	Job Typ	be: C	emen	t Surfa	ace Cas	sing								
Sales Perso	And a second s	condension and an an			J	Srvc Su					<u> </u>	M	BU ID	Emp	#: 3	71263			
0010010100			.,		•	EDUAR			.										
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				********		. k		Job I	Perso	nnel									
HES Emp	Nam	e	Exp Hr	s En	np#	HES	Emp	Name	e E	Exp Hrs	Emp	#	HES	Emp	Name	e E	xp Hrs	Emp #	
CARRILLO, EDUARDO (7		263	FARNU	M, GC	DRDO	N	7	47789		RODRIC		EDGA	AR	7	442125	
TORRES,			7	344	233														
CLEMENTE																			
		Last -		1					uipme					1			<u>D:</u>		
HES Unit #			1 way		5 Unit #		Automater development	1 way		ES Unit			e-1 way		ES Un		Distan 50 mile	ce-1 way	
10240236	50 n				44148	50 mil				286731		mile		10/	74429		ou mile	The second descent of the second descent descent descent descent descent descent descent descent descent descen	
10866807	50 n	nile		1098	38832	50 mil	le			133699	50	mile			aa				
								Jo	b Hou		,,,							-	
Date		Locati Iours	1	Operat Hour		Date			ocatio: ours		erating Hours		Date			ocatio. ours		perating Hours	
5-11-2011		1		2		5-12-20	11		6	1	2								
TOTAL									Tota	l is the s	um of e	ach co				······································			
				Jo	b									Job T	imes				
Formation Na	and the second sec)ate		Time		me Zone	
Formation D	epth (I	VD)	Тор			Bottom					ed Out 11 - May							CST	
Form Type		·····			BHST									ay - 20		23:00			
Job depth M	D		1734. f	t					734. ft		Started		12 - M						
Water Depth	l				Wk Ht Above		Floor 5.		5. ft			NP266-00,0000 00000 0000 00000 00000 00000 00000 0000		Лау - 2011 Лау - 2011		04:34			
Perforation [)epth	(MD)	From			То	<u> </u>			·····	rted Lo)C	12 - M	ay - 20	<u></u>	06:10	<u> </u>	031	
	·····				~ `	10	144-1		ell Da	ta Thread		C	ada	Тор М		Bottom	Тор	Bottom	
Descriptio	n	New Used	d pres	lax ssure	Size in	in	ID Weight in Ibm/ft		3			Gra	Grade T			MD ft	TVD	TVD	
Questionen Libele		····	p	sig		12.25				and the second second second second						1700.	11		
Surface Hole Surface Casi	The transmission of the second se	Unkno	\\#/		8 625	8.097	2	4							and the second second	1700.			
Oundee Ous	ng	n			0.020														
						S	Sales/	/Renta	al/3 rd I	Party (F	IES)								
					Descri	ption						Qty			Dept	h	Sup	plier	
SHOE,CSG,T	IGER	TOOT	FH,8 5/8	3 IN 8F	۶D							1	EA						
CLR,FLT,TRO	OPHY	SEAL	,8-5/8 8	BRD								1	EA						
AUTOFILL KI												1	E/						
CENTRALIZE	R AS	SY - A	PI - 8-5	5/8 CS	GΧ							10	Eł				5		
CLAMP - LIM	IT - 8-	5/8 - H	HINGE) -								2	E						
BASKET - CE	MENT	-85	/8 CSG	X 12	1/4							1	E/						
KIT,HALL WE												2	E/						
PLUG,CMTG	,TOP,8	3 5/8,1	HWE,7.	20 MI	V/8.09	MA	- 140 - 140					1	E/	A					
								·······		essorie	· · · · · · · · · · · · · · · · · · ·								
Туре	Size	Qty	Mak	e De	pth	Туре	S	ize	Qty	Make	Dept		Туре)	Siz		Qty	Make	
Guide Shoe						acker							Plug		8 5	5/8	1	H	
Float Shoe		Į			· · · · · · · · · · · · · · · · · · ·	ridge Plu	ıg	*		:			tom Pl						
Float Collar					R	etainer				,			Rplug		~ -				
Insert Float				1							1	Plu	g Cont	ainer	85	V 🖸 👘	1	H	

					Mis	cellane	ous Mat	erials	. ()				······································	
Gelling	g Agt			Conc	Surfactar	nt		Conc	Acid	Туре		Qty	Con	c %
Treatn	nent Fld			Conc	Inhibitor			Conc	Sand	d Type		Size	Qty	
				500.411.11.41.41.41.41.41.41.41.41.41.41.41		Flu	id Data							
	age/Pl										-			
Fluid #	-	е Туре		Fluid I			Qty	Qty uom	Mixing Density Ibm/gal	Yield ft3/sk	Mix Flı Gal/s		Total Fluid C	
1		Cement		CEM (TM) CEM	•	<u> </u>	300.0	sacks	11.4	2.96	18.14	,	18.	14
	3 %			UM CHLORIDE		PELLET	(1000050	53)						
	0.1 %	6	WG-1	7, 50 LB SK (10	0003623)									
	0.25 lt	m	POLY	-E-FLAKE (101	216940)									
	18.138	Gal	FRES	SH WATER									,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
2	Tail Ce	ment	SWIF	TCEM (TM) SYS	STEM (4529	90)	200.0	sacks	15.6	1.2		5.22		
	2 %		CALC	IUM CHLORIDE	E - HI TEST I	PELLET	(1000050	53)						
	0.25 lt	m	POLY	'-E-FLAKE (101)	216940)									
	5.218 (Gal	FRES	H WATER										
3	Displa	cement					105.00	bbl	8.33	.0	.0	.0	I	
Ca	alculate	d Value	\$	Pressu	res				V	olumes	•			
	cement			hut In: Instant		Lost Returns		0	0 Cement Slurry		20)1 Pad		
Top O	f Cemer	t 2694	Surfac 5	Min		Cemen	t Returns	50	Actual Displaceme		nent 107 Trea		nent	
Frac G	radient		1	5 Min	l	Spacer	S	0	Load and	Breakd	own	Total	Job	308
						R	ates							
	lating	6		Mixing	6		Displac	ement	11		Avg. Job		6	
		In Pipe	Amo		ason Shoe				r					
Frac I	Ring # 1	@	ID	Frac ring # 2	2@	D	Frac Rin	g # 3 @)	Frac Rir	ng # 4 @	ID	
Tł	ne Info	rmatio	n State	ed Herein Is	Correct	Custon	ter Represe	entative S	Signature					

Cementing Job Log

Sold To #: 348223	Ship To i			Construction of the second sec	ce Starts Quote #:			Salee	Order #: 8159563
Customer: EOG RESOURCES					Customer	Ron H	ward Mi		Older # . 6139303
Well Name: Obrate			, Well #:		oustoinei	Nep. III		/UWI #:	
	(SAP): S				Parish: Ha	skell			Kansas
Legal Description:	<u>10/11 // 0</u>			vancyn				orare.	TAIII383
Lat:				i	Long:				
Contractor: KENAI		Ria/Pla	atform		Num: 58	·····			
Job Purpose: Cement Surface	Casing						Ticket	Amount:	n na manana wana ana ing ing ang ang ang ang ang ang ang ang ang a
Well Type: Development Well		Job Ty	pe: Ce	ment S	urface Cas	sina			
Sales Person: DRAKE, BRAND	DON		upervis		RRILLO,		MBU ID) Emp #:	371263
Activity Description	Date	/Time	Cht	Rate bbl/ min	Volu	ume bl		sure sig	Comments
			#		Stage	Total	Tubing	Casing	
Call Out	05/11/ 19:00	/2011							Dispach Called Cement Crew Out For E.O.G. Surface Job On Well Obrate # 33-1 8 5/8 CAG 24 # // In Sublette KS.
Pre-Convoy Safety Meeting	05/11/ 20:30	/2011							Discuss Route to take and Hazards on the road
Arrive At Loc	05/11/ 21:40	/2011							
Assessment Of Location Safety Meeting	05/11/ 21:45	/2011							Rig Was Triping Out Of Hole With Drill Pipe.
Pre-Rig Up Safety Meeting	05/11/ 21:50	/2011							Discused All Red Zones Were To Spot Equipment Run Iron And Water Lines Went Over JSA.
Other	05/11 22:25	/2011							Casing Crew At Location
Rig-Up Completed	05/11 22:50	/2011							
Wait on Customer or Customer Sub-Contractor Equip	05/11/ 22:52	/2011							Wait on Rig Crew
Other	05/11 22:55	/2011							Casing Crew Rigging Up
Other	05/11 23:30	/2011							Casing Going In Hole

Cementing Job Log

Activity Description	Date/Time	Cht	Rate bbl/ min		ume bl	1	sure sig	Comments
		#	111111	Stage	Total	Tubing	Casing	
Pre-Job Safety Meeting	05/12/2011 02:30							Went Over Job Steps With All Went Over Numbers With Customer Rep. Went Over Pump Valumes, Rates, Pressers , And Stageing Last 20 BBLS Displacement. He Wants Us To Pump CMT @ 6 BPM And 11BPM On Displacment. Have Rig Crew Sing Safte Sheet.
Start Job	05/12/2011 03:09							Ready for Halliburton
Test Lines	05/12/2011 03:11						2500. 0	Test Lines @ 2500 PSI Tested Good.
Pump Lead Cement	05/12/2011 03:14		6	158	158		320.0	Pumped 300 SKS CMT @ 11.4 PPG // 158 BBLS CMT // 888 CU/FT CMT.
Pump Tail Cement	05/12/2011 03:41		6	43	201		255.0	Pumped 200 SKS CMT @ 15.6 PPG // 43 BBLS CMT // 240 CU/FT CMT.
Shutdown	05/12/2011 03:54							
Drop Top Plug	05/12/2011 03:55							HWE
Pump Displacement	05/12/2011 03 [.] 57		10	107	308		450.0	Fresh Water Displacement 107 BBLS. Pumped @ 10 BPM Per Customer Rep Slow Downe Last 20 BBLS Stage Inn Pump 5 BBLS Stop For Five MIN. Then Pump 5 BBLS Stop 5 MIN. Per Customer Rep. Got 50 BBLS CMT Returns To Surface.
Slow Rate	05/12/2011 04:11		2	107	308		450.0	Staged Last 20 BBLS Displ @ 2BPM
Bump Plug	05/12/2011 04:26		2	107	308		650.0	Bumped Plug @ 650 Took To 1183 PSI
Check Floats	05/12/2011 04:31							Floats held 1 1/2 bbl Back
End Job	05/12/2011 04:34							
Pre-Rig Down Safety Meeting	05/12/2011 04:50							Discuss Pinchpoint and Triping Hazards

Sold To #: 348223

Cementing Job Log

Activity Description	Date/Time	Cht	Rate bbl/ min		ume bl		sure sig	Comments
		#		Stage	Total	Tubing	Casing	
Rig-Down Completed	05/12/2011 05:50							
Other	05/12/2011 05:55							THANK YOU FOR CHOOSING HALLIBURTON
Crew Leave Location	05/12/2011 06:10			W W data (1979)				

Cementing Job Summary

Sold To #:			Ship To	#: 285	3045		Quote #: Sales Order #: 8197574 Customer Rep: KNOX, MIKE								574
Customer:	EOG RES	OURCE	S INC EB	USINES	S		Cu	stome	r Re	ep: KN	OX. MIKE	=	0.00		014
Well Name:	Obrate					#: 33-1						UWI #	•		
Field:		Ci	ty (SAP):	SUBLET	ITE	Coun	ty/Pa	rish: H	las	kell	<u>E</u>		te: Kans	20	· ····
Contractor:				Rig/P	latfor	m Nam	e/Nur	n: 58				ou	to. Italia	43	
Job Purpos	e: Cemen	t Produc	ction Casi	ng	P-1										
Well Type:	Developme	ent Well			vpe: (Cement	Prod	uction (Cas	sina					
Sales Perso	n: DRAK	E, BRAN	IDON	Srvc S	Super	visor:	CAR	RILLO,		Jing	MBU ID	Emp #	#: 37126	53	
						Job P	erso	nel			1				
HES Emp	Name	Exp Hrs		HE	S Em	p Name		xp Hrs	E	mp#	HES	Emp N	lama	Exp Hrs	C
CARRILLO,	`	7.0	371263	DEETZ	Z, DOM	VALDE		7.0		9855	GOMEZ,			7.0	Emp
EDUARDO (RODRIGUE		70	110105											1.0	
EDGAR Alej		7.0	442125											1	
HES Unit #	Distance						pme								
10244148	Distance 50 mile		HES Unit			-1 way		S Unit i			ce-1 way		6 Unit #	Distan	ce-1 way
11133699			10286731	50 m	ille		107	14253C		50 mile		1098	8832	50 mile	
	50 mile								T						
					_	Job	Hour	5				4		4	
Date	On Locati Hours		erating lours	Date		On Loc Hou		Оре	rati		Date	C)n Locati Hours		perating Hours
5/25/11	7		3										nouis		nours
OTAL	·						Total i	s the su	m c	of each o	column se	oaratel	v	<u>_</u>	
			Job		2.4	1		1.	•		- LONG TANK	ob Tim	the second s	······································	
ormation Na								1			Da		Tim	e Ti	ne Zone
ormation De	pth (MD)	ор		Bot	tom			Called	Ou	ıt	25 - May	/ - 2011			CST
orm Type			BHS					On Lo	cati	ion	25 - May	- 2011	10:0	10	CST
ob depth MD		5759. ft		Depth TV		575	9. ft	Job St	arte	ed	25 - May	- 2011	14:1	5	CST
Vater Depth			Wk H	t Above	Floor	5.	ft	Job Co	omt	oleted	25 - May	- 2011	15:2	0	CST
erforation De	eptn (MD) F	rom		То	1			Depart	ted	Loc	25 - May	- 2011	17:0	0	CST
Density	T					Well	Data								
Descriptior	New / Used	Max pressu psig	ire in	ID in	Weig Ibm	- 1	TI	nread		Gr	ade To	p MD ft	Bottom MD	TVD	Bottom TVD
roduction Hol				7.875							1	700.	ft 5756.	ft	ft
.5" Production	Unknow	/	5.5	4.95	15.	5	8 RC	(LT&C))	P-	110	700.	5756.		
asing urface Casing	n JUnknow	,	8.625	8.097	24			·				•	1700.		
······	<u>n</u>	<u>.</u>	<u></u>									•	1100.		
			Deser	Si	ales/f	Rental/3	Pa	ty (HE	S)		······				· · · · ·
INTRALIZER	ASSY - TU		Descrip	PUON				····		Qty	Qty uon) Dep	oth	Suppl	ier
AMP - LIMIT				······						20	EA	_			
T,HALL WELL								·····		10	EA				
UG ASSY,3 V			0.000							1	EA	ì			
EFIE ASSV	5.1/2 PD	I ATCH	0014/61							1	EA				
	SSY - 5-1/2 8RD - LATCH-DOWN)AT,5 1/2 8RD,2 3/4 SUPER SEAL									1	EA	1			
R,FLT,5-1/2 8										1	EA				
										1	EA				

Cementing Job Summary

T	/pe	Size	Qty	Make	Depth			and Acc						· .		
	Shoe	JIZE	QUY	make	nebru		Size	Qty	Make) Dep		Туре	Si		Qty	Mal
Float		5.5	1	h	5759	Packer Bridge Dive						p Plug	5	5	1	<u>h</u>
	Collar	5.5	1	h	5668	Bridge Plug Retainer						ttom Plug				
	Float			+''	5000	Retainer						R plug set				
	Tool											ug Contain ntralizers			~~~~	
<u> </u>			L		ļ		Hecoli	aneous I			Ce	nuralizers	5.	D	20	<u>h</u>
Gellin	g Agt			Со	nc	Surfac						id Tume	÷.	.	· ·	
	nent Fl	d		Co		Inhibit			Contraction of the local division of the loc	onc		id Type		Qty Size		Conc
						l		Fluid Dat			<u>P</u> e	ind type		SIZE		Qty
S	tage/P	lua #:	1						•••							
Fluid		ge Typ			Fli	Jid Name		Qty	, 1 (ty	Mixing	I Yiəld	Mix Flu	id Ra		otal Mi
#										om	Densit bm/ga	y ft3/sk	Gal/s		-	id Gal/
1	Prima	ry Cer	nent	ECONO	CEM (TN) SYSTEM (4	52992)	130.	0 sa	cks	13.5	1.73	8.19			8.19
	6 %	6	1	CAL-SEA	AL 60, 50	LB BAG (101	217146	5)					1	l	L	
	10 9	%		SALT, 10	DO LB BA	G (100003652	2)		·····							
	2 lb	m	1	PRESSU	IR-SEAL	LCM, 40 LB (101204	356)								
	0.6	%	1	HALAD(F	R)-344, 5	0 LB (100003	370)									
	0.5	%	1	D-AIR 30	00 (1010	007446)		·····								· · · · · · · · · · · · · · · · · · ·
	0.1	%	1	NG-17, 5	50 LB SK	(100003623)		· · · · · · · · · · · · · · · · · · ·								
	8.191	Gal	F	RESH V	NATER											······
2	Displ	aceme	nt					136.0	0 b	bl	8.33	.0	.0	.0	T	
3	Rat &		e f	PLUGCE	M (TM) S	SYSTEM (452	969)	50.0	sa	cks	13.5	1.73	8.19			8.19
	Hole Pl									1						
	Cemen					10010100										
	6 %					LB BAG (101))								
	10 %					G (100003652	,									
	2 lbr					LCM, 40 LB (1		356)				·····				
	0.6 9					D LB (1000036	670)	·····								
	0.5 %				00 (1010	/										
	0.1 %					(100003623)					·····					
	8.191			RESHV												,,
	iculate				بشجعين أعربت وتحصر فأحفظ فأعلم	sures		_				Volumes				·
	cement Cemer		<u>134</u> 4534	5 Min	In: Insta	<u>nt</u>		Returns			ment		40			
	radient		4004	5 Min 15 Mi				ent Retur			and the second s)isplaceme			tment	
				10 mi		l Magazina da seguina de la composición d	Spac			U LO	ac and	Breakdov		liota	al Job	174
Circul	ating		7		Mixing	<u> </u>	6	Rates	1000-	nnt I		B		1-h	r ^{inaria} i	
	ent Left	In Pir		mount	¥		e Joint		lacem	5IIL		<u> </u>	Avg. 、			7
					and the second											
Cem	ting #1	@	10) ;F	Frac ring	# 2 00	ID	Frac R	rina #	5.600	11		rac Ring	***		ID

Cementing Job Log

Sold To #: 348223	Ship To a	#: 2853	3045		Quote #:				s Order #: 8197574
Customer: EOG RESOURCES	S INC EBU	ISINES	····		Custome	r Rep: K	NOX, MI	K E	
Well Name: Obrate			Well #	: 33-1			AP	WUWI #:	
	y (SAP): S	UBLET	TE C	ounty/P	arish: H	askell		State	: Kansas
Legal Description:						*****			
Lat:				L	.ong:				
Contractor: KENAI		Ria/Pl	atform	Name/N					
Job Purpose: Cement Product	tion Casino						Ticket	Amount	
Well Type: Development Well			vne: Ce	ment Pr	oduction	Caeina	TICKEL	Anount	
Sales Person: DRAKE, BRAN					RILLO	Casing		D E #	
	5011	EDUA			MILLO,			D Emp #	371263
anna 1977 - Mart ann an ann an Anna ann ann ann an Anna Anna Anna ann an Anna ann ann		1	T	Rate	**************************************	- Van Postana and Stationers in the	0	BBURB	
Activity Description	Date/	Time	Cht	bbl	Vol	ume	1		0
				min	b b	Ы	P	sig	Comments
			#	*****	Stage	Total	Tubing	Casing	
Call Out	05/25/	2011		<u></u>				l ceruid	
	08:00								Dispach Called Cement Crew For E.O.G. Job On
									Well Obrate 5 1/2
									Production Casing Over
									By Sublette K.S
Pre-Convoy Safety Meeting	05/25/2	2011				· · · · · · · · · · · · · · · · · · ·			Discuss Route to take
	09:00								and Hazards on the road
Arrive At Loc	05/25/2	2011						†	
	10:00						-		
Assessment Of Location	05/25/2	2011							Rig Crew Was Runing In
Safety Meeting	10:05								Casing In Hole.
Pre-Rig Up Safety Meeting	05/25/2	2011							Discussed All Red
	10:15								Zones Were To Spot In
									Equipment And Lines At
									Have A Spoter At All
									Times Discussed Muster
									Area Emergency Raouts
									Were To Go Went Over
Rig-Up Completed	05/25/2	011						l	JSA.
ing of completed	11:15	.011							
Other	05/25/2	011	└───╂						0-411
	11:20								Got Numbers From
	11.20								Costomer Rep Mike
									Knox // TD = 5756 FT // TP = 5759 FT // SJ =
									91.18 // Disp = 134
							Ì		BBLS Costomer Said To
							i		Use 50 LIB Of Suger On
									Displacment. He Sajd
									Theye Were Going To
									Circulat For 2 HR Once
									Casing Was On Bottom.
Wait on Customer or	05/25/2	011							Wait on Rig Crew
Customer Sub-Contractor	11:25			l					-
Equip	1				(l I	

Quote # :

Cementing Job Log

Activity Description	Date/Time	Cht	Rate bbl/ min		ume bl	1	ssure sig	Comments
		#		Stage	Total	Tubing	Casing	
Pre-Job Safety Meeting Start Job	05/25/2011 13:45							Discussed Job Steps With All Went Over Numbers With Custome Rep Valumes Pressers Pumping Rates Had Rig Crew Sing Safte Meeting Sheet.
	05/25/2011 14:15							Ready for Halliburton
Test Lines	05/25/2011 14:16						4000 . 0	Hold for 1 minute
Pump Lead Cement	05/25/2011 14:21		6	40	40			Pumped 130 SKS CMT @ 13.5 PPG // 40 BBLS CMT // = 225 CU/FT
Clean Lines	05/25/2011 14:30							
Drop Top Plug	05/25/2011 14:32							HWE
Pump Displacement	05/25/2011 14:34		8	134	174			Pumped 134 BBLS Disp With 50 LIB Of Suger On First 50 BBLS DISPLACEMENT PER COSTOMER REP.
Displ Reached Cmnt	05/25/2011 14:49							COSTOMER REP.
Slow Rate	05/25/2011 14:53							last 15 bbl to 2 bbl min
Bump Plug	05/25/2011 14:59							bumped plug @ 810 took to 1500
Check Floats	05/25/2011 15:01							Floats held 1 bbl Back
Pump Cement	05/25/2011 15:11							Pumped 50 SKS CMT For Rat And Mouse Hole // 15 BBLS CMT // 86.5
End Job	05/25/2011 15:20							CU/FT
Pre-Rig Down Safety Meeting	05/25/2011 15:30							Discuss Pinchpoint and
Rig-Down Completed	05/25/2011 16:30							Triping Hazards
Crew Leave Location	05/25/2011 17:00							
Dther	05/25/2011 17:01							THANK YOU FOR CHOOSING HALLIBURTON



DRILL STEM TEST REPORT

Prepared For: EOG Resources

3817 NW EXPWY STE500 Oklahoma City Ok, 73112

ATTN: Mike Knox

33/27s/33w

O'Brate #133-1

 Start Date:
 2011.05.16 @ 00:55:47

 End Date:
 2011.05.16 @ 18:07:32

 Job Ticket #:
 42206
 DST #: 1

Trilobite Testing, Inc PO Box 362 Hays, KS 67601 ph: 785-625-4778 fax: 785-625-5620

	DRILL STEM TE	ST REP	ORT			
RILOBITE	EOG Resources		O'Brate	#133-1		
ESTING , II		homa City Ok,	33/27s/3	3w		
	73112		Job Ticke	t: 42206	DST	#: 1
	ATTN: Mike Knox		Test Star	: 2011.05	.16 @ 00:55:47	7
GENERAL INFORMATION:	ł					
Formation:MorrowDeviated:NoWhipstockTime Tool Opened:07:17:32Time Test Ended:18:07:32	: ft (KB)		Test Type Tester: Unit No:	e: Conve Mike S 53	ntional Bottom I lemp	Hole
Total Depth: 5357.00 ft (KB)	5357.00 ft (KB) (TVD) (TVD) lole Condition: Good	Reference Elevations: 2996.00 ft (KB) 2986.00 ft (CF) KB to GR/CF: 10.00 ft				
Serial #: 8677InsidePress@RunDepth:485.93 psStart Date:2011.05.7Start Time:00:55:4	6 End Date:	2011.05.16 18:07:31	Capacity: Last Calib.: Time On Btm: Time Off Btm:		8000.0 2011.05. ⁻ 5.16 @ 07:15: ⁻ 5.16 @ 11:56:	17
TEST COMMENT: IF- BOB in 2 r ISI- 5 inches FF- BOB in 1 FSI- 5 inches	low back nin, GTS in 10 min TSTM					
Pressure	s. Time		PRESS	SURE SL	JMMARY	
3000 3000 3000 3000 3000 3000 400 4	5577 Tempenalue 5577 Tempenalue 100 100 100 100 100 100 100 10	Time (Min.) 0 33 32 90 93 151 277 282	68.75 131 231.43 135 1444.06 137 255.81 136 485.93 138 1406.27 138	F) 3.76 Initial .32 Oper 5.19 Shut- 6.68 End \$ 5.50 Oper 3.62 Shut- 0.38	Shut-In(1) n To Flow (2)	
Recovery				Gas Rat	es	
Length (ft) Description	Volume (bbl)		CI	noke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
2490.00 95%oil5%gas 360.00 95%oil5%gas	31.70 5.05					
Trilobite Testing, Inc	Ref. No: 42206				05.17 @ 07:52	

10x-		DRILL STEM TES	ST REPO	ORT			
	RILOBITE	EOG Resources		O'Brate #	133-1		
	ESTING , INC.	3817 NW EXPWY STE500 Oklal	noma City Ok,	33/27s/33	w		
		73112		Job Ticket:	42206	DST#: 1	
		ATTN: Mike Knox		Test Start:	2011.05.16 @ 00	:55:47	
GENERAL IN	NFORMATION:						
Formation: Deviated: Time Tool Open Time Test Ende		ft (KB)		Test Type: Tester: Unit No:	Conventional Bo Mike Slemp 53	ottom Hole	
Interval: Total Depth: Hole Diameter:	5315.00 ft (KB) To 53 5357.00 ft (KB) (TV 7.78 inchesHole		Reference Elevations: 2996.00 ft (KB) 2986.00 ft (CF) KB to GR/CF: 10.00 ft				
Serial #: 86 Press@RunDep Start Date: Start Time:		 @ 5316.00 ft (KB) End Date: End Time: 	2011.05.16 18:07:16	Capacity: Last Calib.: Time On Btm: Time Off Btm:		8000.00 psig 1.05.16	
TEST COMM	IENT: IF- BOB in 2 min ISI- 5 inches blov FF- BOB in 1 min FSI- 5 inches blo	, GTS in 10 min TSTM					
	Pressure vs. T	ime		PRESSU	JRE SUMMAR	Y	
3000 2200 2200 500 500 500 500 500 500 304 3040 3040	BISP Presure	8075 Tompanke		Pressure Temp (psig) (deg F			
	Recovery			G	as Rates		
Length (ft)	Description	Volume (bbl)		Chok	e (inches) Pressure (p	sig) Gas Rate (Mcf/d)	
2490.00 360.00	95%oil5%gas	31.70 5.05					
300.00	95%oil5%gas	0.00					
Trilobite Tes	ting Inc	Ref. No: 42206	-	Printo	d: 2011 05 17 @	07:52:49 Page 3	

ATT -			DRII	LL STE	M TEST	REPOR	T	TOOL DIAGRA
	RILOE			sources			O'Brate #133-1	
	 ES7	TING , INC		W EXPWY ST	E500 Oklahom	na City Ok,	33/27s/33w	
			73112				Job Ticket: 42206	DST#: 1
			ATTN:	Mike Knox			Test Start: 2011.05.16 @ 00:55:47	
Tool Informatio	on		ļ					
Drill Pipe:	Length:	4940.00 ft	Diameter:	3.80 in	ches Volume:	69.30 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	0		Diameter:		ches Volume:	0.00 bbl	Weight set on Packer	r: 25000.00 lb
Drill Collar:	Length:	354.00 ft	Diameter:	2.25 in	ches Volume:	1.74 bbl	Weight to Pull Loose:	100000.0 lb
		0.00.0		-	Total Volume:	71.04 bbl	Tool Chased	0.00 ft
Drill Pipe Above ł Danth ta Tan Daa		8.00 ft					String Weight: Initial	86000.00 lb
Depth to Top Pac		5315.00 ft ft					Final	96000.00 lb
Depth to Bottom nterval betw een		42.00 ft						
Tool Length:	Fackers.	42.00 ft						
0		71.00 11						
Number of Packe	ers.	2	Diameter:	6 75 in	ches			
Number of Packe Tool Comments:	ers:	2	Diameter:	6.75 in	ches			
Tool Comments:				6.75 in Serial No.	Position	Depth (ft) A	ccum. Lengths	
Tool Comments: Tool Descriptio						Depth (ft) A 5291.00	ccum. Lengths	
Tool Comments: Tool Descriptic Shut In Tool			ngth (ft)				ccum. Lengths	
Tool Comments: Tool Descriptio Shut In Tool Sampler			ngth (ft) 5.00			5291.00	ccum. Lengths	
Tool Comments: Tool Description Shut In Tool Sampler Hydraulic tool			ngth (ft) 5.00 3.00			5291.00 5294.00	ccum. Lengths	
Tool Comments: Tool Descriptic Shut In Tool Sampler Hydraulic tool Jars			ngth (ft) 5.00 3.00 5.00			5291.00 5294.00 5299.00	ccum. Lengths	
Tool Comments: Tool Descriptio Shut In Tool Sampler Hydraulic tool Jars Safety Joint			ngth (ft) 5.00 3.00 5.00 5.00			5291.00 5294.00 5299.00 5304.00	accum. Lengths	Bottom Of Top Packe
Tool Comments: Tool Descriptions Shut In Tool Sampler Hydraulic tool Jars Safety Joint Packer			ngth (ft) 5.00 3.00 5.00 5.00 2.00			5291.00 5294.00 5299.00 5304.00 5306.00		Bottom Of Top Packe
Tool Comments: Tool Descriptio Shut In Tool Sampler Hydraulic tool Jars Safety Joint Packer Packer			ngth (ft) 5.00 3.00 5.00 5.00 2.00 5.00			5291.00 5294.00 5299.00 5304.00 5306.00 5311.00		Bottom Of Top Packe
Tool Comments: Tool Descriptio Shut In Tool Sampler Hydraulic tool Jars Safety Joint Packer Packer Stubb			ngth (ft) 5.00 3.00 5.00 5.00 2.00 5.00 4.00			5291.00 5294.00 5299.00 5304.00 5306.00 5311.00 5315.00		Bottom Of Top Packe
Tool Comments: Tool Descriptions Shut In Tool Sampler Hydraulic tool Jars Safety Joint Packer Packer Stubb Recorder			ngth (ft) 5.00 3.00 5.00 5.00 2.00 5.00 4.00 1.00	Serial No.	Position	5291.00 5294.00 5299.00 5304.00 5306.00 5311.00 5315.00 5316.00		Bottom Of Top Packe
Tool Comments: Tool Description Shut In Tool Sampler Hydraulic tool Jars Safety Joint Packer Packer Stubb Recorder Recorder			ngth (ft) 5.00 3.00 5.00 2.00 5.00 4.00 1.00 0.00	Serial No.	Position	5291.00 5294.00 5299.00 5304.00 5306.00 5311.00 5315.00 5316.00 5316.00		Bottom Of Top Packe
Tool Comments: Tool Descriptio Shut In Tool Sampler Hydraulic tool Jars Safety Joint Packer Packer Stubb Recorder Recorder Perforations	on		ngth (ft) 5.00 3.00 5.00 2.00 5.00 4.00 1.00 0.00 0.00	Serial No.	Position	5291.00 5294.00 5299.00 5304.00 5306.00 5311.00 5315.00 5316.00 5316.00		Bottom Of Top Packe
Tool Comments: Tool Descriptions Shut In Tool Sampler Hydraulic tool Jars Safety Joint Packer Packer Packer Stubb Recorder Recorder Recorder Perforations Change Over Su	on		ngth (ft) 5.00 3.00 5.00 2.00 5.00 4.00 1.00 0.00 0.00 5.00	Serial No.	Position	5291.00 5294.00 5299.00 5304.00 5306.00 5311.00 5315.00 5316.00 5316.00 5316.00 5321.00		Bottom Of Top Packe
	<mark>on</mark>		ngth (ft) 5.00 3.00 5.00 2.00 5.00 4.00 1.00 0.00 5.00 1.00	Serial No.	Position	5291.00 5294.00 5299.00 5304.00 5306.00 5311.00 5315.00 5316.00 5316.00 5316.00 5321.00 5322.00		Bottom Of Top Packe

RILOE		DRI	LL STEM TEST F	REPORT	-	F	LUID SUMMAR				
		EOG R	esources		O'Brate #	133-1					
I EST	TING , INC.	3817 N 73112	W EXPWY STE500 Oklahoma	City Ok,	33/27s/33v						
					Job Ticket: 4		DST#:1				
		ATTN:	Mike Knox	Mike Knox			Test Start: 2011.05.16 @ 00:55:47				
Mud and Cushion Inf	ormation										
Mud Type: Gel Chem			Cushion Type:			Oil API:	26 deg API				
			Cushion Length:		ft	Water Salinity:	ppm				
-			Cushion Volume:		bbl						
Nater Loss: 7.59 Resistivity:	in [°] ohm.m		Gas Cushion Type: Gas Cushion Pressure	. .	ncia						
Salinity: 5000.00			Gas Cushion Pressure	3.	psig						
•	inches										
Recovery Information	n										
			Recovery Table								
	Lengt ft	th	Description		Volume bbl						
		490.00	95%oil5%gas		31.703	-					
	ļ	360.00	95%oil5%gas		5.050	<u>)</u>					
Tc	otal Length:	2850	.00 ft Total Volume:	36.753 bbl							
	aboratory Nam		Laboratory Location	<i>л</i> п.							
Re	ecovery Comr	nents: Sa	ampler- 800 PSI 2000ML oil, 4	cu/ft gas							
Re	ecovery Comr	nents: Sa	ampler- 800 PSI 2000ML oil, 4	cu/ft gas							
Re	ecovery Comr	nents: Sa	ampler- 800 PSI 2000ML oil, 4	cu/ft gas							
Re	ecovery Comr	nents: Sa	ampler- 800 PSI 2000ML oil, 4	cu/ft gas							
Re	ecovery Comr	nents: Sa	ampler- 800 PSI 2000ML oil, 4	cu/ft gas							
Re	ecovery Comr	nents: Sa	ampler- 800 PSI 2000ML oil, 4	cu/ft gas							
Re	ecovery Comr	nents: Sa	ampler- 800 PSI 2000ML oil, 4	cu/ft gas							
ι.	ecovery Comr	nents: Sa	ampler- 800 PSI 2000ML oil, 4	cu/ft gas							

DRILL STEM TEST REPORT

GAS RATES



EOG Resources

ATTN: Mike Knox

3817 NW EXPWY STE500 Oklahoma City Ok, 73112

O'Brate #133-1

33/27s/33w

Job Ticket: 42206 DST#:1

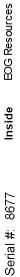
Test Start: 2011.05.16 @ 00:55:47

Gas Rates Information

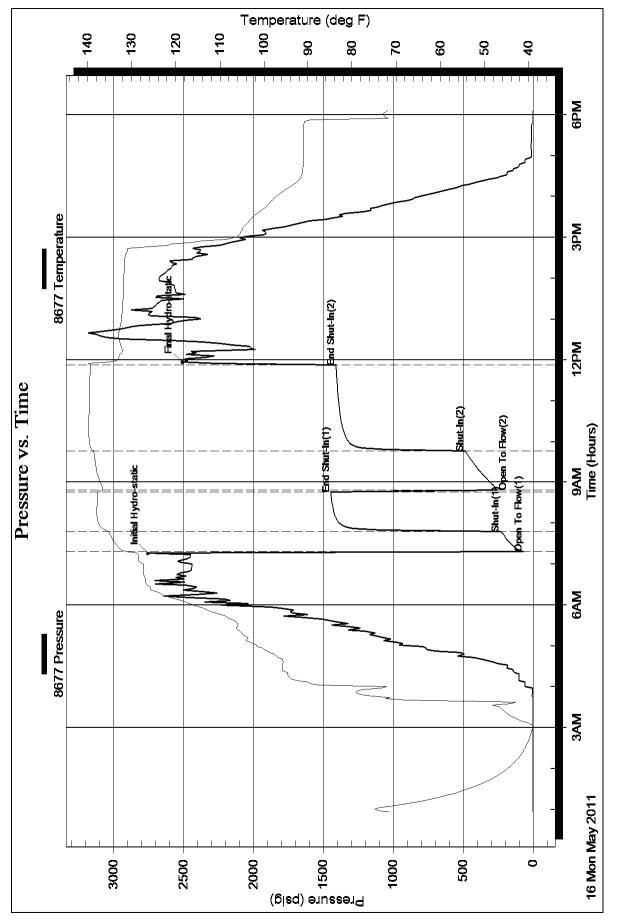
Temperature:	59 deg C
Relative Density:	0.65
Z Factor:	0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m³/d)
		0.00	0.00	0.00



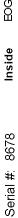
33/27s/33w



Printed: 2011.05.17 @ 07:52:50 Page 7

Ref. No: 42206

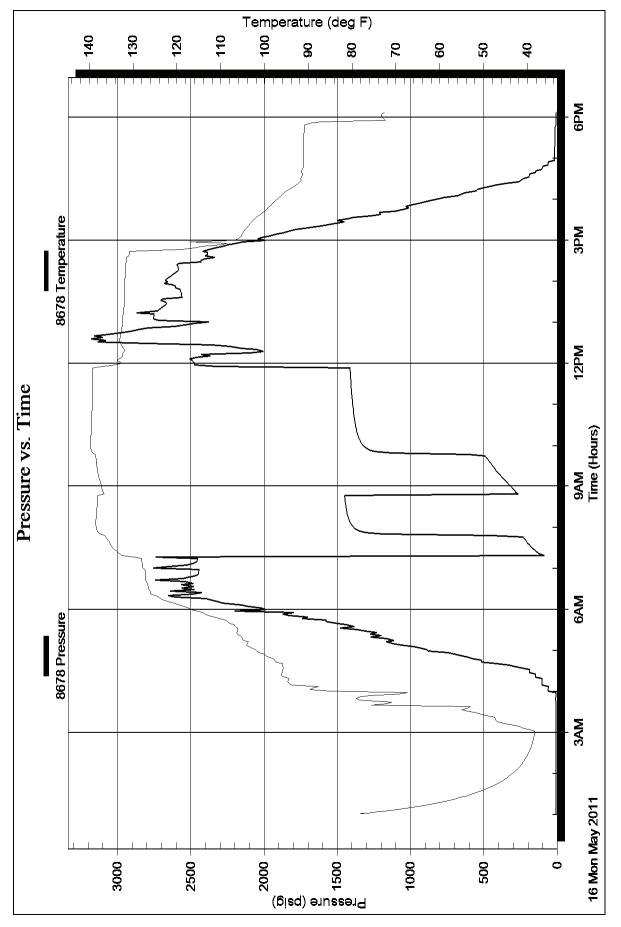
Trilobite Testing, Inc



EOG Resources

33/27s/33w

DST Test Number: 1



Printed: 2011.05.17 @ 07:52:50 Page 8

Ref. No: 42206

Trilobite Testing, Inc

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/

Mark Sievers, Chairman Ward Loyd, Commissioner Thomas E. Wright, Commissioner Sam Brownback, Governor

September 01, 2011

DAWN ROCKEL EOG Resources, Inc. 3817 NW EXPRESSWAY STE 500 OKLAHOMA CITY, OK 73112-1483

Re: ACO1 API 15-081-21936-00-00 Obrate 33 #1 SE/4 Sec.33-27S-33W Haskell 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, DAWN ROCKEL