

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION 1131189

Form ACO-1 August 2013 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:	SecTwpS. R
Address 2:	Feet from
City: State: Zip:+	Feet from _ East / _ West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	□NE □NW □SE □SW
CONTRACTOR: License #	GPS Location: Lat:, Long:
Name:	(e.g. xx.xxxxxx) (e.gxxx.xxxxxxx)
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
☐ New Well ☐ Re-Entry ☐ Workover	Field Name:
□ Oil □ WSW □ SHOW □ 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:	Producing Formation: Kelly Bushing: Total Vertical Depth: Plug Back Total Depth: Feet Multiple Stage Cementing Collar Used? Yes No If yes, show depth set: Feet
Operator:	If Alternate II completion, cement circulated from:
Well Name:	feet depth to:w/sx cmt.
Original Comp. Date: Original Total Depth: Deepening Re-perf. Conv. to ENHR Conv. to SWD Plug Back Conv. to GSW Conv. to Producer Commingled Permit #: Dual Completion Permit #: SWD Permit #:	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:
☐ ENHR Permit #: ☐ GSW Permit #:	Operator Name:
GSW Permit #:	Lease Name: License #:
Spud Date or Date Reached TD Completion Date or Recompletion Date Recompletion Date	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
Confidentiality Requested
Date:
Confidential Release Date:
Wireline Log Received
Geologist Report Received
UIC Distribution
ALT I II Approved by: Date:

Page Two



Operator Name:			L	ease Name: _			Well #:	
Sec Twp	S. R	East We	est C	County:				
INSTRUCTIONS: Shopen and closed, flow and flow rates if gas to	ring and shut-in pres	sures, whether sh	ut-in pressur	e reached stati	c level, hydrosta	tic pressures, bott		
Final Radioactivity Lo files must be submitted					gs must be ema	iled to kcc-well-log	gs@kcc.ks.go	. Digital electronic log
Drill Stem Tests Taker (Attach Additional		Yes	No	L		n (Top), Depth an		Sample
Samples Sent to Geo	logical Survey	Yes	No	Nam	е		Тор	Datum
Cores Taken Electric Log Run		Yes Yes	No No					
List All E. Logs Run:								
		(CASING REC	ORD Ne	w Used			
		· ·		ıctor, surface, inte	ermediate, producti		T	
Purpose of String	Size Hole Drilled	Size Casin Set (In O.D		Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
		ADD	ITIONAL CEN	MENTING / SQL	JEEZE RECORD			
Purpose:	Depth Top Bottom	Type of Cem	ent #	Sacks Used		Type and Pe	ercent Additives	
Perforate Protect Casing	100 20111111							
Plug Back TD Plug Off Zone								
1 lag on zono								
Did you perform a hydrau	ulic fracturing treatment	on this well?			Yes	No (If No, ski)	o questions 2 ar	nd 3)
Does the volume of the to		•				_	o question 3)	(" 100 ")
Was the hydraulic fractur	ing treatment information	on submitted to the c	hemical disclo	sure registry?	Yes	No (If No, fill o	out Page Three	of the ACO-1)
Shots Per Foot		ION RECORD - Bri Footage of Each Int				cture, Shot, Cement		d Depth
	, ,				,		,	
TUBING RECORD:	Size:	Set At:	Pa	acker At:	Liner Run:			
						Yes No		
Date of First, Resumed	Production, SWD or Ef		cing Method: owing	Pumping	Gas Lift C	ther <i>(Explain)</i>		
Estimated Production Per 24 Hours	Oil	Bbls. G	as Mcf	Wate	er Bl	ols. G	ias-Oil Ratio	Gravity
DIODOCITI	ON OF CAS:		, 4 CT - 1		TION:		DRODUCTIO	AN INTEDVAL.
Vented Solo	ON OF GAS: Used on Lease	Open Ho		IOD OF COMPLE \Box		nmingled	PHODUCIIC	ON INTERVAL:
	bmit ACO-18.)	Other (S	necify)	(Submit		mit ACO-4)		



PO Box 93999 Southlake, TX 76092

Voice:

(817) 546-7282

Fax:

(817) 246-3361

Chaco Energy Company

P O Box 1587 Denver, CO 80201

INVOICE

Invoice Number: 135263

Invoice Date: Mar 15, 2013 1

Page:

Now Includes:



en de la company de la comp	a en a particular de la companya de	E Programme	v. Paresy
Chaco	60139	Net 30	Days
established (On)	various confidence and the second	SignificalDentes	
KS1-03	Oakley	Mar 15, 2013	4/14/13

						N	lar 15, 2013	4/14	1/13
	SEQUENTIEV,	i i i i i i i i i i i i i i i i i i i	0	OI PER SE	Desongtions - Pro-		ัด โบกเกลสด <u>อ</u> ด	l de la companie	<u>ារពី</u> ខេត្ត
	132.00	MAT	Smith #	r-28 Common					
	88.00		Pozmix	Common			17.90		2,362.80
	j i	MAT	Gel				9.35	i i	822.80
	55.00	1	Flo Seal				23.40	4	187.20
)	l '	SER	Cubic Fe	act .		,	2.97	1	163.35
		SER	Ton Mile	90e	n / _)	2.48	I.	585.94
		SER	Plug to A	handan	Mar 28 2013	W	2.60	1	384.77
	15.00	1		ick Mileage	ALL WALLS		2,483.59	1	2,483.59
	15.00			nick Mileage	Mass		7.70	1	115.50
		EQP		oden Plug	603		4.40]	66.00
		CEMENTER	Alan Rya	ooden Filig	1 8 50 m	ĺ	107.64		107.64
	l .	EQUIP OPER	Wayne N	10Chabu	MAR	1			Ì
		OPER ASSIST	Damin He	ncGrigriy	last.	1			
	1.00	OI LIVACCIOT	Danin Fi	, nep		{			
1						j			1
١									. }
						-			- 1
					<u>^</u>	~ O=	71		
1					1 20	273		}	711/
					TAV	391	47	مار	44
1		i				-			′ ′ /
L				0.444	6	49	3.18		
	ALL PRICES AR	E NET, PAYABLE		Subtotal				1	7,279.59

30 DAYS FOLLOWING DATE OF INVOICE. 11/2% CHARGED THEREAFTER. IF ACCOUNT IS CURRENT, TAKE DISCOUNT OF



	5490.10
Subtotal	7,279.59
Sales Tax	567.81
Total Invoice Amount	7,847.40
Payment/Credit Applied	
FITOTIALE SELECTION	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ALLIED OIL & GAS SERVICES, LLC 060139

REMIT TO P.O. BOX 93999 SOUTHLAKE, TEXAS 76092	SE	RVICE POINT	سة ف
	<u>.</u>		akles Ke
DATE 3 ISIN SEC. TWP. RANGE 32	CALLED OUT ON LOCATION	JOB START	JOB FINISH
LEASES MITTE WELL# 1-88 LOCATION EGKL	155 1/4 W STAD	COUNTA	STATE
OLD OR NEW (Circle one)	4 DJ TIYW JIMV	Legan	Suice,
CONTRACTOR 1/1 #1			·
CONTRACTOR HAL	OWNER Sono		1
TYPE OF JOB ATA			 -
	_ CEMENT	60/40	
CASING SIZE SY DEPTH 226 E TUBING SIZE DEPTH	AMOUNT ORDERED 226	40	2000
DRILL PIPE YIL DEPTH	- 14	FLO	-
TOOL DEPTH			SEN.
PRES. MAX MINIMUM		9/)
MEAS. LINE SHOR JOINT	COMMON	_@ <u>/></u>	2362
CEMENT LEFT IN CSG.	GBL G	_@_ ?;-@	802 BR.
PERFS.	CHLORIDE	_ <u>@23</u>	18523
DISPLACEMENT	_ ASC_	@	
EQUIPMENT			
	Flosen 55th	_@ <u>2</u>	100 85
PUMPTRUCK CEMENTER Hay RUDA		@	- /) /
# Uda HELPER MA Ma Chale			
BULKTRUCK			* .
# CUD. DRIVER Band Harb.			Betilet.
••			
# DRIVER	HANDI ING 32/262	_@ <i>48</i> _	- ou
	HANDLING 36 CF MILBAGE TOWN TO 9.	_@ <i>d</i> -	585
REMARKS:	MILENUE JUNIA. 16 9.	866 70-	184
205 SK, C 2535'		TOTAL	4502
100 58, 0 1575			***
40 4 @ 275!	Servi	CE	
10 9k C 40'	DEPTH OF JOB		
30 SW / 11	PUMPTRUCK CHARGE		14.65 59
15 ST WILL	EXTRA FOOTAGE	_@	0483
IJ IN MIP	MILBAGE_A		11550
	MANIFOLD	_@	//3 -
	estellebrelle 15	_@	66
au		_@	
CHARGE TO: Chard Energy	-		
STREET		ΤΩΤΑΙ	26/5-09
CITYSTATEZIP	ni iio o m. o		
	PLUG & FLOAT	EQUIPMEN	T
	7010-1-0		
	8 18 work they	_@	107 52
To: Allied Oil & Gas Services, LLC.		-@	
You are hereby requested to rent cementing equipment		_@	
and furnish cementer and helper(s) to assist owner or		_@	
contractor to do work as is listed. The above work was		·	
done to satisfaction and supervision of owner agent or		mom :	10269
contractor. I have read and understand the "GENERAL		TOTAL	
TERMS AND CONDITIONS" listed on the reverse side,	SALES TAX (If Any)		
serve moves ou die teactes side".		14.74	
RINTED NAME STEVEN CLATC	TOTAL CHARGES 7,0	,,,,	 ·
RINTED NAME SIEVEN CRATC	DISCOUNT	A IRPAIR	IN 30 DAYS.
	5192	31 Net.	- TOO DAKO .
GONATURB Stown (rais		7. 7	



PO Box 93999 Southlake, TX 76092

Voice:

(817) 546-7282

Fax:

(817) 246-3361

ONLY IF PAID ON OR BEFORE

Chaco Energy Company P O Box 1587 Denver, CO 80201

INVOICE

Invoice Number: 135108

Invoice Date: Mar 5, 2013

Page:

1

3/19/13

Chaco Got 20 Net 30 Days			1(3), [j. 2], [j. 2]	i eletriake # 100 g	Paymans	ejana)
Countility Cou		STATE OF THE PARTY		60120	Net 30 E	Days
145.00		The second secon	The second secon		C(e)p+(e)=(0)e)(e);	
Smith #1-28	Ł	KS1-	-01	Oakley	Mar 5, 2013	4/4/13
145.00	The Control of	्रेंग्स्सित्सम्बद्ध		Descriptions	al saumstenassa.	
3.00 MAT Gel 23.40 70.20 5.00 MAT Chloride 23.40 70.20 157.10 SER Cubic Feet 2.48 389.61 99.00 SER Ton Mileage 2.60 257.40 1.00 SER Surface 1,512.25 1,512.25 15.00 SER Pump Truck Mileage 7.70 115.50 1.00 CEMENTER Andrew Forslund Dane Retzloff Kevin Ryan ALL PRICES ARE NET, PAYABLE 30 DAYS FOLL OWING DATE OF INVOICE. 11/2% CHARGED THEREAFTER. IF ACCOUNT IS Subtotal 32.40 70.23.40 70.23.40 70.23.40 320.00 22.48 389.61 2.60 257.40 1,512.25 1,512.25 1,512.25 7.70 115.50 1,512.25 7.70 115.50 1,512.25 7.70 66.00	-			1		
3.00 MAT				Class A Common	17.90	2,595,50
Second S				Gel	23.40	! · · · · · · · · · · · · · · · · · · ·
157.10 SER Cubic Feet 2.48 389.61 99.00 SER Ton Mileage 2.60 257.40 1.00 SER Surface 1,512.25 1,512.25 15.00 SER Pump Truck Mileage 7.70 115.50 15.00 SER Light Vehicle Mileage 4.40 66.00 1.00 CEMENTER Dane Retzloff 1.00 OPER ASSIST Kevin Ryan ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. 11/2% CHARGED ThereAfter. If ACCOUNT IS Subtotal Sales Tax Total Invoice Amount Total				Chloride	64.00	
99.00 SER Ton Mileage 2.60 257.40 1.00 SER Surface 1,512.25 1,512.25 15.00 SER Pump Truck Mileage 7.70 115.50 15.00 CEMENTER 1.00 CEMENTER 1.00 DPER ASSIST Dane Retzloff Kevin Ryan ALL PRICES ARE NET, PAYABLE 30 DAYS POLLOWING DATE OF INVOICE. 1 1/2% CHARGED THEREAFTER. IF ACCOUNT IS Total Invoice Amount MAR 2 55.50.33.				Cubic Feet	ļ.	1
1.00 SER Surface 1,512.25 1,51	}	99.00	SER	Ton Mileage		
15.00 SER Pump Truck Mileage 7.70 115.50 15.00 SER Light Vehicle Mileage 7.70 4.40 66.00 1.00 CEMENTER Andrew Forslund Dane Retzloff 1.00 OPER ASSIST Kevin Ryan ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. 1 1/2% CHARGED THEREAFTER. IF ACCOUNT IS SER Pump Truck Mileage 7.70 4.40 66.00 A.40 66.00 Sales Tax Subtotal Sales Tax 7.70 4.40 66.00 Sales		1.00	SER	Surface	ı	l l
ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. 11/2% CHARGED THEREAFTER. IF ACCOUNT IS Light Vehicle Mileage Andrew Forslund Dane Retzloff Kevin Ryan Subtotal Sales Tax Subtotal Sales Tax Total Invoice Amount 15.00 A.40 66.00 4.40 66.00 66.00 66.00 66.00 66.00 66.00 66.00 66.00 66.00 66.00 66.00 66.00 66.00 66.00 66.00 66.00		15.00	SER	Pump Truck Mileage		1
ALL PRICES ARE NET, PAYABLE 30 DAYS FOLL OWING DATE OF INVOICE. 11/2% CHARGED THEREAFTER. IF ACCOUNT IS Andrew Forslund Dane Retzloff Kevin Ryan Subtotal Sales Tax Total Invoice Amount TAX Total	-	i	** *	Light Vehicle Mileage		1
ALL PRICES ARE NET, PAYABLE 30 DAYS FOLL OWING DATE OF INVOICE. 1 1/2% CHARGED THEREAFTER. IF ACCOUNT IS Subtotal Sales Tax Total Invoice Amount Total Invo				Andrew Forslund		00.00
ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. 1 1/2% CHARGED THEREAFTER. IF ACCOUNT IS Subtotal Sales Tax Total Invoice Amount 5,509,34	- [1.00	EQUIP OPER	Dane Retzloff		{
ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. 1 1/2% CHARGED THEREAFTER. IF ACCOUNT IS Subtotal Subtotal Subtotal Subtotal Subtotal Sales Tax Total Invoice Amount MAR 1,50,33	- 1	1.00	OPER ASSIST	Kevin Ryan		
ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. 1 1/2% CHARGED THEREAFTER. IF ACCOUNT IS Subtotal Subtotal Subtotal Subtotal Subtotal Sales Tax Total Invoice Amount MAR 1,50,33				The stuben		
30 DAYS FOLLOWING DATE OF INVOICE. 1 1/2% CHARGED THEREAFTER. IF ACCOUNT IS CHEREAFTER. IF ACCOU	_	ALL PRICES AD	ENET DAVABU	Subtotal		Talesa de
INVOICE. 11/2% CHARGED THEREAFTER. IF ACCOUNT IS CHEREAFT TAKE DISCOUNT OF				Sales Tax 2003		1 51360.49
THEREAFTER. IF ACCOUNT IS CURRENT TAKE PLOCOUNT OF Payment/Credit Applied		INVOICE. 11/	2% CHARGED	Total Invoice Amount . 2		5,508
				Parment/Credit Anglied		5,509.34

ALLIED OIL & GAS SERVICES, LLC 060120

PENITTO DO DOMESTICA Federal 1	Tax I.D. # 20-8651475			060120	
		Spo	Wide non-		•
SOUTHLAKE, TEXAS 76092	•	386	VICE POINT:		
DATE 2-45 2 SEC. TWP. RANGE			_EARL	<u></u>	
DATES 32/3 A8 /3c """OB 32/1	CALLED OUT	ON LOCATION	JQB START	IOR FINISH	•
in Smith		<u>l. </u>	JOB START	10B FINISH 2 100 / 1/4	
OLD OR NEW Circle and	2 Klay 155 1.	1/w	COUNTY LAGGE	STATE	
Sinto	,		+777	1 //3	
CONTRACTOR Ha Orilling 2			J .		
TYPE OF JOB SUFFACE	OWNER .	Same			
HOLESIZE 1214 TD 220					
CASING SIZE & SX DEPTH 220 10	CEMENT		,		
TUBING SIZE DEPTH	- AMOUNT ORD	DERED 155	<u>sks 32</u>	jec	
DRILL PIPE DEPTH	26geL				
TOOL DEPTH					
PRES. MAX MINIMUM MEAS, LINE SHOELD TO THE	COMMON/	45.56	- 130-		
SHOR JOIN!	POZMIX	12 012	@ <u>17.90</u>	2545.50	
CEMENT LEFT IN CSG. AS '		SKS	_@		
DISPLACEMENT 13.57 BBL	CHLORIDE 3		@ <u>23,40</u> @ <u>64,00</u>	10,20	_, ,,
TOT PO	ASC		@ <u>~776()</u>	320,00	
EQUIPMENT			· @		
PUMPTRUCK CEMENTER			@		
ALL I			@		
ULK TRUCK			@		
			@		
ULK TRUCK DRIVER Kevin			@		
DRIVER			@		
	HANDLING 15	7. May let	@		
-	MILEAGE 260	0		38961	!
REMARKS:		7.7.1		257,40	
			TOTAL.	3632,71	
		00000			
Cement Did Circulate		SERVIC	R		
cement Did Circulate	DEPTH OF JOB	228.18			
	- PUMP TRUCK C	HARGR	12-1	7,25	
	— BXTRA FOOTAG	B		1723	
	_ MILEAGE <u>/5</u>			15.50	
1.6	- MANIFOLD Light Vehic		9		
Thank you	Light Vehic	CL8		Clica	
Thank you HARGETO: Chaco Energy CO]		
	-				
REET	_		TOTAL /	693,75	
TYSTATEZIP					
417	Pr.F	ig & float e	OTIEDA CONTO		
	120	O O FLOAT E	COILMENT.		
•	·				*
		@			
: Allied Oil & Gas Services, LLC.		@			
u are hereby requested to rent cementing equipment		@			
Turnish cementer and helper(s) to assist owner or		@		 ;	
Mactor to do work as is listed. The above work was					
to satisfaction and supervision of owner orant an			more:	:	
uracior. I have read and understand the "CIFNIED AT	•		TOTAL	 :	A.
RMS AND CONDITIONS" listed on the reverse side.	SALES TAX (If An	· ·		. j.	$\alpha \cap \alpha \cap \alpha$
, 0100 01du,			WC:		VH 7
NTED NAME STEUEN CRAZO	TOTAL CHARGES	طهرب	.76		1111
THE THE PERSON LANGE	DISCOUNT	<u> 597.93 </u>	JE PAID IN	130 DAY	-
	2.7	75 57 11			
NATURE Street Craig	() [2]	98.29 N	EL BIO	أ مخرما	MAR 2 2 20



Chaco Energy Co.

28-13-32-Logan KS

455 Sherman St. STE 520 Denver, CO 80203

Smith #1-28

Job Ticket: 49110

DST#: 1

ATTN: Austin Garner

Test Start: 2013.03.11 @ 23:25:10

Tate Lang

GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: Test Type: Conventional Bottom Hole (Initial) No Whipstock: ft (KB)

Time Tool Opened: 03:06:40 Time Test Ended: 08:33:40

Reference Elevations:

Unit No: 65

Tester:

3039.00 ft (KB)

4504.00 ft (KB) (TVD)

ft (CF)

7.88 inches Hole Condition: Good Hole Diameter:

KB to GR/CF: ft

Serial #: 8646 Press@RunDepth: Inside

21.68 psig @

4469.00 ft (KB) To 4504.00 ft (KB) (TVD)

4470.00 ft (KB)

Capacity:

8000.00 psig

Start Date:

2013.03.11

End Date: 2013.03.12 08:33:40 Last Calib.: Time On Btm: 2013.03.12

Start Time:

Interval:

Total Depth:

23:25:25

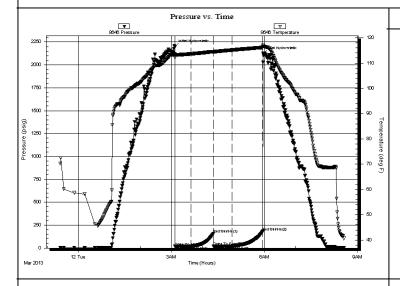
End Time:

Time Off Btm:

2013.03.12 @ 03:06:25 2013.03.12 @ 05:57:25

TEST COMMENT: IF-Weak surface blow

ISI-Dead no return FF-Dead no blow FSI-Dead no return



PRESSURE SUMMARY

Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	2195.47	113.63	Initial Hydro-static
1	18.39	112.19	Open To Flow (1)
32	20.33	113.65	Shut-In(1)
75	159.43	114.53	End Shut-In(1)
75	20.92	114.50	Open To Flow (2)
111	21.68	115.17	Shut-In(2)
170	181.53	116.21	End Shut-In(2)
171	2123.20	116.62	Final Hydro-static

Recovery

Description	Volume (bbl)
100%M	0.00
	·

Gas Rates

Choke (inches) Pressure (psig) Gas Rate (Mcf/d)

Trilobite Testing, Inc. Ref. No: 49110 Printed: 2013.03.12 @ 09:34:22



FLUID SUMMARY

Chaco Energy Co.

28-13-32-Logan KS

455 Sherman St. STE 520 Denver, CO 80203 Smith #1-28

Serial #:

Job Ticket: 49110

DST#:1

ATTN: Austin Garner

Test Start: 2013.03.11 @ 23:25:10

Mud and Cushion Information

Mud Type:Gel ChemCushion Type:Oil A Pl:deg A PlMud Weight:9.00 lb/galCushion Length:ftWater Salinity:ppm

Viscosity: 47.00 sec/qt Cushion Volume: bbl

7.99 in³ Gas Cushion Type:

ohm.m Gas Cushion Pressure: psig

Salinity: 3000.00 ppm Filter Cake: 1.00 inches

Recovery Information

Water Loss:

Resistivity:

Recovery Table

Length ft	Description	Volume bbl
1.00	100%M	0.005

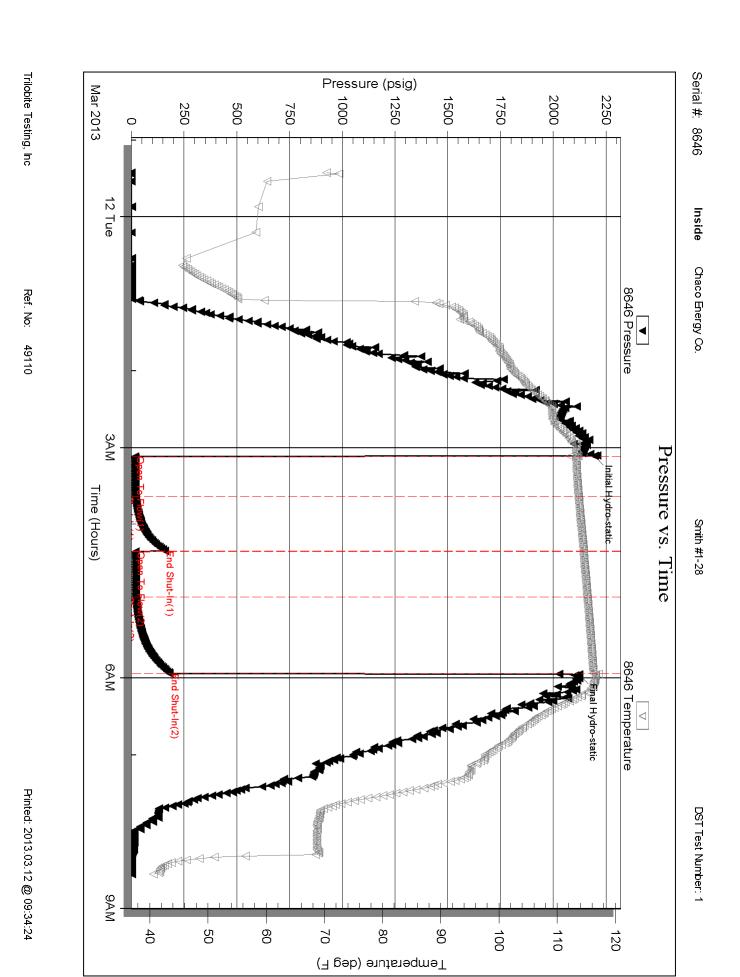
Total Length: 1.00 ft Total Volume: 0.005 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 49110 Printed: 2013.03.12 @ 09:34:24





Chaco Energy Co.

28-13-32-Logan KS

Reference Elevations:

455 Sherman St. STE 520

Smith #1-28

Denver, CO 80203

Job Ticket: 49111 DST#: 2

ATTN: Austin Garner

Test Start: 2013.03.13 @ 16:12:43

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: Test Type: Conventional Bottom Hole (Reset) No Whipstock: ft (KB)

Time Tool Opened: 19:06:58 Tester: Tate Lang Time Test Ended: 00:22:43 Unit No: 65

Interval: 4634.00 ft (KB) To 4680.00 ft (KB) (TVD)

Total Depth: 4680.00 ft (KB) (TVD)

7.88 inches Hole Condition: Good Hole Diameter:

KB to GR/CF: ft

3039.00 ft (KB)

ft (CF)

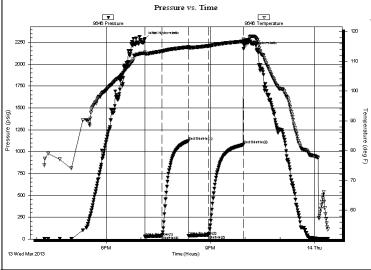
Serial #: 8646 Outside

Press@RunDepth: 4639.00 ft (KB) 8000.00 psig 46.26 psig @ Capacity:

Start Date: 2013.03.13 End Date: 2013.03.14 Last Calib.: 2013.03.14 Start Time: 16:12:58 End Time: 00:22:43 Time On Btm: 2013.03.13 @ 19:06:28 Time Off Btm: 2013.03.13 @ 21:56:58

TEST COMMENT: IF-Weak surface blow built to 3/4 in.

ISI-Dead no return blow. FF-Dead no blow FSI-Dead no return blow



	PRESSURE SUIVIIVIART				
	Time	Pressure	Temp	Annotation	
	(Min.)	(psig)	(deg F)		
	0	2289.35	112.98	Initial Hydro-static	
	1	29.08	112.43	Open To Flow (1)	
	30	36.96	113.30	Shut-In(1)	
7	75	1119.77	114.70	End Shut-In(1)	
Temperature	76	38.77	114.20	Open To Flow (2)	
	110	46.26	115.08	Shut-In(2)	
neb)	171	1078.69	116.62	End Shut-In(2)	
פ	171	2172.24	117.32	Final Hydro-static	

PRESSURE SUMMARY

Recovery

Length (ft)	Description	Volume (bbl)
5.00	100%M	0.02
* Recovery from mul	tiple tests	

Gas Rates		
Choko (inchos)	Proceuro (peig)	Gas Pato (Mef/d)

Trilobite Testing, Inc. Ref. No: 49111 Printed: 2013.03.14 @ 08:04:37



FLUID SUMMARY

Chaco Energy Co.

28-13-32-Logan KS

455 Sherman St. STE 520

Smith #1-28

Denver, CO 80203

Job Ticket: 49111 **DST#: 2**

ATTN: Austin Garner

Test Start: 2013.03.13 @ 16:12:43

Mud and Cushion Information

Mud Type:Gel ChemCushion Type:Oil A Pl:deg A PlMud Weight:9.00 lb/galCushion Length:ftWater Salinity:ppm

Viscosity: 58.00 sec/qt Cushion Volume: bbl

Water Loss: 7.99 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 4000.00 ppm Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	100%M	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0

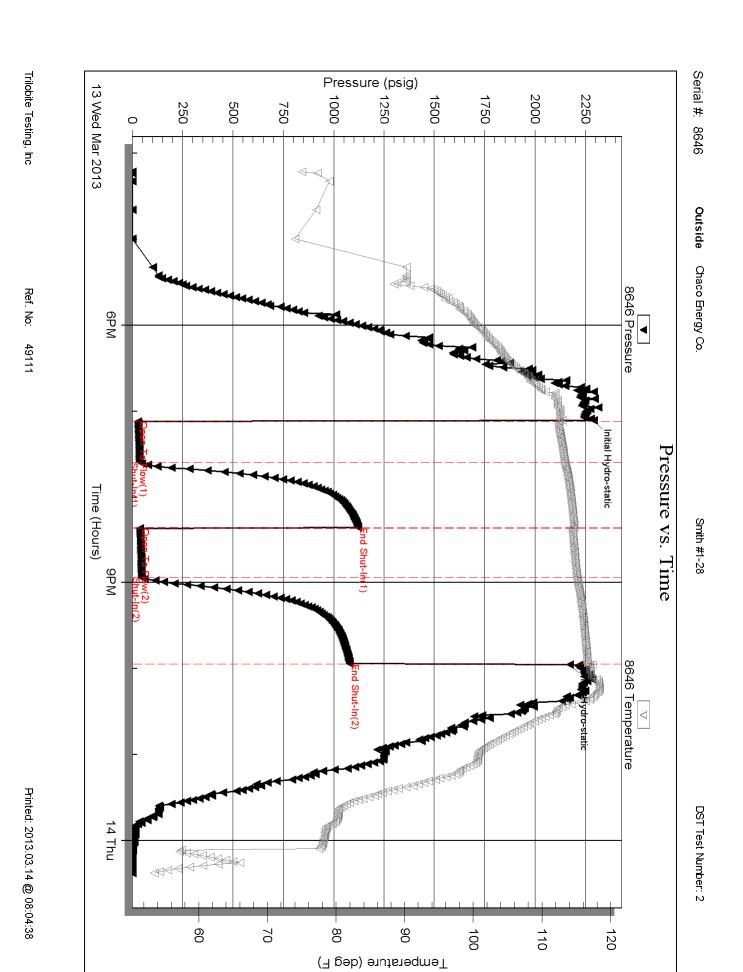
Laboratory Name: Laboratory Location:

Recovery Comments:

1:

Serial #:

Trilobite Testing, Inc Ref. No: 49111 Printed: 2013.03.14 @ 08:04:38



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/

Sam Brownback, Governor

Mark Sievers, Chairman Thomas E. Wright, Commissioner Shari Feist Albrecht, Commissioner

April 04, 2013

Alan Nelson Chaco Energy Company PO BOX 1587 DENVER, CO 80201-1587

Re: ACO1 API 15-109-21163-00-00 Smith 1-28 NE/4 Sec.28-13S-32W Logan 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, Alan Nelson

Form	ACO1 - Well Completion	
Operator	Chaco Energy Company	
Well Name	Smith #1-28	_
Doc ID	1131189	

Tops		
<u>Name</u>	Тор	Datum
Anhydrite	2509	530
Heebner Sh.	3994	-955
Lansing	4038	-999
Stark Sh.	4275	-1236
Marmaton	4282	-1343
Ft. Scott	4537	-1498
Chr. Sh.	4564	-1525
Johnson	4606	-1567
Sand	4662	-1623
Miss	4685	-1646

Logs Run

DUAL INDUCTION ,GR, SP 250'-T.D COMP. DENSITY/ NEUTRON, GR, CAL. 3700'- T.D. LITHO - DENSITY, PE 3700'-T.D. SONIC, GR. 250'- T.D