# KANSAS CORPORATION COMMISSION OIL'& GAS CONSERVATION DIVISION

ORIGIN A Form ACO-1 October 2008
Form Must Be Typed

## WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 31725	API No. 15 - 151-22291-0000					
Name: Shelby Resources L.L.C./ Captiva Energy L.L.C.	Spot Description:					
Address 1: 2717 Canal Blvd	SE_NE_SW_SE_Sec. 23 Twp. 26 S. R. 13 East West					
Address 2: Suite C	785 Feet from North / South Line of Section					
City: Hays State: KS Zip: 67601 +						
Contact Person: Chris Gottschalk	Footages Calculated from Nearest Outside Section Corner:					
Phone: (785 ) 623-7261	□ NE □ NW ☑ SE □ SW					
CONTRACTOR: License #_5142	County: Pratt					
Name: Sterling Drilling	Lease Name: J.D. Chemical Well #: #1-23					
Wellsite Geologist: Adam Kennedy	Field Name: Wildcat					
Purchaser: Plains Marketing L.P.	Producing Formation: L-KC					
Designate Type of Completion:	Elevation: Ground: 1931' Kelly Bushing: 1940					
New Well Re-Entry Workover	Total Depth: 4510' Plug Back Total Depth: 4412'					
✓ Oil SWD SIOW	Amount of Surface Pipe Set and Cemented at: 871 Feet					
Gas ENHR SIGW	Multiple Stage Cementing Collar Used? ☐ Yes ☑ No					
CM (Coal Bed Methane) Temp. Abd.	If yes, show depth set:Feet					
Dry Other	If Alternate II completion, cernent circulated from:					
(Core, WSW, Expl., Cathodic, etc.)	feet depth to: sx cmt.					
If Workover/Re-entry: Old Well Info as follows:	seet deput to. w/ sx cmt.					
Operator:	Drilling Fluid Management Plan  (Data must be collected from the Reserve Pit)					
Well Name:	, ,					
Original Comp. Date: Original Total Depth:	Chloride content: 9000 ppm Fluid volume: 800 bbls					
Deepening Re-perf Conv. to Enhr Conv. to SWD	Dewatering method used: Hauled off water					
Plug Back: ————Plug Back Total Depth	Location of fluid disposal if hauled offsite:					
Commingled Docket No.:	Operator Name: Timberline Oil & Gas					
Dual Completion	Lease Name: Becker SWD #1 License No.: 9232					
Other (SWD or Enhr.?) Docket No.: 4/02/2008 4/17/2008 12/10/2008	Quarter_NE Sec. 33 Twp.26 S. R. 13 East 🗹 West					
Spud Date or Date Reached TD Completion Date or Recompletion Date  Recompletion Date	County: Pratt Docket No.: 15-151-21739					
INSTRUCTIONS: An original and two copies of this form shall be filed with Kansas 67202, within 120 days of the spud date, recompletion, workover or copy of side two of this form will be held confidential for a period of 12 months if requirality in excess of 12 months). One copy of all wireline logs and geologist we BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 for	onversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information puested in writing and submitted with the form (see rule 82-3-107 for confidential report shall be attached with this form. ALL CEMENTING TICKETS MUST m with all temporarily abandoned wells.					
All requirements of the statutes, rules and regulations promulgated to regulate the complete and correct to the best of my knowledge.	he oil and gas industry have been fully complied with and the statements herein					
Signature: Ms Sto Galle	, KCC Office Use ONLY					
Title: Production Manager Date: 11/25/09	Letter of Confidentiality Received					
Subscribed and sworn to before me this $25$ day of $NoV$	, If Denied, Yes Date:					
20 <u>09</u> .	Wireline Log Received					
Notary Public: Michelle R Has	Geologist Report Received  UIC Distribution  RECEIVED					
Date Commission Expires: 10/4/// NOTARY PUBLIC, State of Kansas	DEC 1 8 2000					
MICHELLE R HAAS						
My Appt. Exp. 10/4/11	DEC 1 8 2009 KCC WICHITA					

Operator Name: She	elby Resources L	L.C./ Captiva E	Energy L.L.(	C. Lease I	Name: 🗅	J.D. Chemical		Well #: _#1-	23
Sec. 23 Twp. 2	26 S. R. 13	East 🗸	] West	County	Pratt			· · · · · · · · · · · · · · · · · · ·	
time tool open and cl	osed, flowing and tes if gas to surfac	shut-in pressure: e test, along with	s, whether st	hut-in pres	sure rea	ched static level	, hydrostatic	pressures, bottom	giving interval tested, hole temperature, fluid Electric Wireline Logs
Drill Stem Tests Take (Attach Additional		✓ Yes	☐ No		L	og Formatic	n (Top), Dep	th and Datum	✓ Sample
Samples Sent to Geo	•	✓ Yes	□No		Nam Tope			Тор <b>3229</b>	Datum -1289
Cores Taken Electric Log Run		Ves ✓ Yes	✓ No No		Heeb Lansi			3571 3757	-1631 -1817
(Submit Copy)					Base	KĊ		4079	-2139
List All E. Logs Run:			_	••	Missi	ssippian		4164	-2224
Dual Induction				sity,	Simp	son		4261	-2321
Micro, Sonic	and Cemen	Bona Log			Arbu	ckle		4364	-2424
		Report a	CASING I		✓ Ne	ew Used ermediate, product	ion. etc.		
Purpose of String	Size Hole Drilled	Size C Set (In	asing	Weig	ght	Setting Depth	Type of Cemen		Type and Percent Additives
Conductor	15.1/4"	13.3/8"	3/8" 48#			242'	Common	250	3% ccl, 2% gel
Surface	10.1/4"	8.5/8"	23#			871'	Common	500	3% ccl, 2% gel
Production	7.7/8"	5.1/2"		15.5#		4442'	AA2	175	10% salt
			ADDITIONAL	CEMENTIN	NG / SQL	JEEZE RECORD			
Purpose:  Perforate	Depth Top Bottom	Type of	Cement	#Sacks	Used		Туре	and Percent Additives	5
✓ Protect Casing     ✓ Plug Back TD     ✓ Plug Off Zone	4382'	Common		50 3% CCL, 2% GEL			GEL		
Shots Per Foot		ATION RECORD ify Footage of Eac			···	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)  Depth			
32	4370-73', 43	65-70'					· · · · · · · · · · · · · · · · · · ·		
12	4282-85'					250 gal 15	% INS- S	et CIBP @ 42	70'
64	4228-85'					2500 gal 1	5% NEFE-	Frac w/46,500	# sand
40	3986-92', 39	52-60', 3917	'-23'						
,									
TUBING RECORD: 2.	Size:	Set At: <b>4225'</b>		Packer At		Liner Run:	Yes 🔽	☑ No	
Date of First, Resumed 2/03/09	Production, SWD or	Enhr. Pi	roducing Metho	_	Flowing	g 🗸 Pumpii	ng 🔲 G	ias Lift 🔲 Oth	er (Explain)
Estimated Production Per 24 Hours	Oil 8	Bbis.	Gas M	Mcf	Wate	er B 28	bls.	Gas-Oil Ratio	Gravity
Dispositi	ON OF CAS	<u> </u>		IETUAN AT	COMPLE	TION		DDODUCT	ON INTERVAL.
Vented Sok	ON OF GAS:	se Ope		ETHOD OF	_	_	nmingled	3917' to 4228'	ON INTERVAL:
(If vented, Su	(If vented, Submit ACO-18.) Other (Specify)								

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

DEC 18 2009

CAPTIVA ENERGY, LLC

J.D. Chemicals #1-23 785' FSL & 1400' FEL Sec.23 T26s & R13w

**Pratt County, Kansas** 9/1/2008

API #15-151-22291-0000

API# 15-151-22291-0000

Spud Date:

Completed:

6/6/2008

Field:

luka-Carmi

GL:

1931'

KB:

1940'

**Conductor Casing:** 

13.3/8"-48# set @ 242' Cemented with 250 sx common

**Surface Casing:** 

8-5/8" 23# set @ 871'

Cemented with 500 sx Common

**Production Casing:** 

5-1/2", 15.5# set @ 4442' Cemented with 175 sx AA2

CIBP @ 4270'

TOC: 3380' CBL

L-KC Perfs:

3917-23' (12) 12/04/08

TOC: Surface

3952-60' (16) 12/04/08

3986-92' (12) 12/04/08

Viola Perfs:

4228-60' (64) 7/21/08

Frac: 46500#-891 Bbls 30 BPM @ 1900#

Simpson Perfs:

4282-85' (12) 7/10/08

**Arbuckle Perfs:** 

PBTD: 4412 TD: 4510'

4365-70' (20) 5/29/08 4370-73' (12) 6/02/08

4382' (2) Sqz holes-50 sx to 1800#

RECEIVED DEC 18 2009 KCC WICHTA

Created by Chris Gottschalk

# ALLIEO CEMENTING JO., INC. 30202

<b>`</b> :				-
REMIT TO P.O. BOX 31		SER	VICE POINT:	$\alpha$
RUSSELL, KANSAS 67665			Mrsal	Bend
SEC. TWP. RANGE	CALLED QUT	ONLOCATION	7 77 20	0.00
4 4-08 23 365 RANGE 13 w	500	9 90	1 / 2An	8-pm _
DED CHAMITELL# 1-23 LOCATION JUKA	2N 1ZE	NIS	COUNTY	STATE S.
OLD OR NEW (Circle one)				
CONTRACTOR Starling Ry #4	OWNER			
TYPE OF JOB Surface	-			
HOLE SIZE 124T.D. 8754	CEMENT	20	OAK COMMO	かれ
CASING SIZE 8 T DEPTH 875	AMOUNT OF	RDERED	990 ()	
TUBING SIZE DEPTH		J600	Kegel	
DRILL PIPE DEPTH				
TOOL — — — DEPTH—	+	, m	- 10	1 - 7-
PRES. MAX 300 MINIMUM	COMMON_	300,5x		6,075.00
MEAS. LINE SHOE JOINT	POZMIX _			100 50
CEMENT LEFT IN CSG. 40 H	_ GEL	105x		182.50
PERFS.	CHLORIDE	155x		765.00
DISPLACEMENT 53.966L	_ ASC		@	
EQUIPMENT			@	
PUMP TRUCK CEMENTER MILE M				
# 224 HELPER Tyler W.			@	<del></del>
BULK TRUCK	<del></del>			
# 357-170RIVER SOL P.			@ @	
BULK TRUCK				
# DRIVER	HANDI INC	5255x	- @ <del>- 2 ~ 5</del>	1,076.25
	MILEAGE 6	525X447	X 09 =	2,079.00
REMARKS:	MILLAGE _	<u> </u>		
			IOIAL	10,177.75
King Still Vrilling when got there	-			
Come cert of Holewith Collars	-	SERV	/ICE	
run Surbace Pile 8 5 = 875 ft		6 6		
Circulato The Hole with King MUD Bumb		OB <b>375</b>		900
Mix Coment MenReloose Phuy Dispose				893.00
Phuy Down with woth		TAGE <u><b>575</b></u>		402.50
Remont did crevations and	_ MILEAGE _			<u>308.00</u>
	- MANIFOLD			110.00
	Huad	Markey	•	110.00
0 041 0	***		@	
CHARGE TO: Capting farry	- RECEIVI	En	· · · · · · · · · · · · · · · · · · ·	1715 6
STREET			TOTAL	1,713.50
	DEC 1.8.	2009		
CITYSTATEZIP	<u>-</u>	DITIC SELO	AT EQUIPMEN	т
1 11	KCC WICH	ITA TEO	T TACH MEN	_
Yhann	105		0.11/	
Sharik	1-88		(a) @ 115.00	
(A)	1-83	Muids Sho-	<u> </u>	1/9 - 2
	1 - 4 - 4	TRANSPORTER	er w 140.00	140.00

# ALLIEC CEMENTING CO., LLC. 33211

MIT TO P.O. BOX 31 RUSSELL, KANSAS 67665 SERVICE POINT:

GreatBend

	SEC.	TWP.	RANGE	CAI	LLED OUT	ON LOCATION	JOB START	JOB FINISH
DATE 4-3-0	8 23	265	13W	14	:60 PM	TiOOPM	10:15 pm	
LEASE Chemic	WELL#	1-23	LOCATION_	UKQ	2N TO	80 R.D	COUNTY	STATE /
OLD OR NEW			13,E1		=		<u> </u>	
CONTRACTOR	STEVI	nep:	-	•		aptive 1	Energy	
TYPE OF JOB			2 - 7		OWINER 2	<u> </u>		
HOLE SIZE /		T.D.	255		CEMENT			
CASING SIZE			TH 25/			RDERED 25	05420	mmon
TUBING SIZE		DEF				C+24.6		
DRILL PIPE &	1/2	DEI						
TOOL		3	PTH					
PRES. MAX			NIMUM		COMMON	2503x	@ 12.15	3,0375
MEAS. LINE			DE JOINT 15		POZMIX		<del></del>	-,
CEMENT LEFT	IN CSG. /	51			GEL _	55x		91.25
PERFS.					CHLORIDE			408.00
DISPLACEMEN	IT Fra	CH 1.10	yer 36		ASC			700100
	*		•	1-p		· · · · · ·		
	LQU	JIPMENT				<del>and the state of </del>		
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PUMP TRUCK			aynel				_	
# 120	HELPER	<u>wa</u>	YNE D	<u></u> .	**************************************			
BULK TRUCK			_					
<u># 341</u>	DRIVER	Car	rh 5		·			
BULK TRUCK								
#	DRIVER				HANDI ING	2635X	_ ~	539.15
					MILEAGE	263 X44	X . 09 =	1041.48
	DE	MARKS:			WILLD TOL _			
						•	IOIAL	. <u>5,1,7.3</u> 8
PiP on B	ottom !	3484 K	GIVEU	batio,	n			
pump 2	<u>5054 C</u>	<u>om mo</u>	ny3xce	= 27.		SERV	ICE	
GEL WE	ni Sira	レイザオア	10 = 1115					
and Disp	2 WITH	16301	SOFF	EVESH		OB 25/+83	•/	
Water s						K CHARGE		893.00
C, Y	sulat				EXTRA FOO		@	
			· · · · · · · · · · · · · · · · · · ·		MILEAGE			308,00
	·····	<del> </del>			MANIFOLD	House	<u> </u>	111.00
•					<u> </u>	HEADRENT	@	
			•				@	
CHARGE TO: _	aptiv	a En	ergy		RECEIVED			-4
							TOTAL	4312.00
STREET				[	DEC 18 2009	3		7-
CITY	ST	ATE	ZIP		int			
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K		•			13	Ledon C	Prince .	
NORK J							_@	
Je 10,								
To Allied Ceme	nting Co. 1	110						-
- 111 A HIGH COINE		اللال						

# ALLIE CEMENTING CO., LLC. 31127

REMIT TO P.O. BOX 31 RUSSELL, KANSAS 67665

To Allied Cementing Co., LLC.

SERVICE POINT:

DATE 4-17-08 SEC. TWP. 26.5	RANGE 13 w	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
1D CHEMICAL 1-13		, KS, 2 NORTH		COUNTY	STATE
OLD OR (EW) (Circle one)	1 _	(,10)2200(11)	, , , , , , , , , , , , ,		
CONTRACTOR STEALING & 4	WINTO	OWNER CA	OTIVA EN	- GNGY	
TYPE OF JOB PLANUETON CA	451NG	OWILLIA			
	4,510'	CEMENT			
	TH 4,441	AMOUNT OR	DERED 200.	SK CLASS	A+ 1025A
TUBING SIZE DEF	TH	SOO GAL	ASF	· · · · · · · · · · · · · · · · · · ·	
DRILL PIPE 45" DEF	TH				
TOOL DEP	TH	and the second of the second	ليجلب بالديانيينياران		المنتقد يتدا للمنت الرميني والمييسان
PRES. MAX 1, 400 MIN	IIMUM 100	COMMON	200 A		2840.0
	DE JOINT 202			_@	
CEMENT LEFT IN CSG. 20.28		GEL		@	
PERFS.		CHLORIDE _		@	<del></del>
DISPLACEMENT 108 Lbl. F	CESH WATE	ASC	1. 44		
EQUIPMENT		Sal	- 22		237.60
		ASE	500 gl.	. •	575.00
PUMP TRUCK CEMENTER SILL	. M,			_@	
# 360 HELPER GASK			<del>, , , , , , , , , , , , , , , , , , , </del>	 	
BULK TRUCK				_ @	
# 357 DRIVER 7-428	x w. (6.2	<u>ر.ه</u>			
BULK TRUCK				_	···
# DRIVER		- HANDLING	222	@ 2.15	477,30
		MILEAGE _	14 x 2 2 2	X-09	879.12
REMARKS:				TOTAL	5009.0
_	incustrary			TOME	<u> </u>
FUMP PROSPELLSH, PLUL LA	THOUSE NO.	LES	SERVI	CE	
WITH 255x CLASS A + 10 %	SACT, PUMP			,	<del></del>
PRODUCTION- 175 SX CLA			)B <u>4,441</u>		
STOP KINS, RELEASE. RUG			K CHARGE		1885.00
LINES, START DISPLACED				@	
MAT, SLOW KATE, DUNG				_@ <u>7.00</u>	308.00
HELD, DISTANCED WITH 108	MATER.	— MANIFOLD	HEND LEWI	@_ <i>[1]3.01</i> )	113.00
				@	
				@	
CHARGE TO: CAPTIVA ENE	×64	- RECEIVED			224 01
STREET		•.		TOTAL	2306.00
		— DEC 1 8 2009			
CITYSTATE	ZIP	KCC WICHIT	PLUG & FLOA	T EQUIPMEN	T
		<u>.</u>			
		51/2" PACKS	K.SHOE	1@1491.W	1491.00

# ALLIED CEMENTING CO., INC. 30546

REMIT TO P.O. BOX 31 RUSSELL KANSAS 67665

**SERVICE POINT:** 

	LLL, KA	MSAS 0/0	)) )			Great Bened		
DATE 5- 13-08	SEC.	TWP.	RANGE 13	CALLED OUT	ON LOCATION	JOB START	JOB FINISH	
ID Chamcal	WELL#	-12	100000000000000000000000000000000000000			GOUNTY	STATE	
OLD OR NEW Cir	WELL#0	27	LOCATION L	and N. IZE	Munto	Prott	LATE .	
OLD ORNEW (CIP	cie one)			<u> </u>				
CONTRACTOR 3	صهدو له	2000 Sa	υηντ ο.	OWNER \$	5	<b>.</b>		
TYPE OF JOB SA	يعيد			OWNER	unc			
HOLE SIZE	9	T.D.		CEMENT				
CASING SIZE 5'		DEP	TH		DERED SOLL	_		
TUBING SIZE 2'	) <i>/</i>	DEP	TH 4394	- 101bs El	DEKED SUM	comme	~	
DRILL PIPE		DEP		+UAN PA	10			
OOL		DEP	TH		· · · · · · · · · · · · · · · · · · ·			
RES. MAX 180	0#	MIN	IMUM	COMMON	E (2) 1			
MEAS. LINE			E JOINT	POZMIX	50 mg	/ <i>Z./</i> _	0 607.50	
EMENT LEFT IN	CSG.			GEL				
ERFS. 4382'				CHLORIDE_		_@ @		
SPLACEMENT I	le. le bbl	5 Tuli	~	ASC	<del></del>			
		PMENT	7	FL-10	10145	.@		
	&0-		· · · · · · · · · · · · · · · · · · ·	12 10	10 102	<u>@_//,65</u>	116.50	
UMPTRUCK C	DA ATA PER	RI		<del></del>		.@		
		K			· · · · · · · · · · · · · · · · · · ·	.@		
ULK TRUCK	ELPER	Tyre	ν W	<del></del>		.@		
	DIVIÓN	_	•		<del></del>	@		
ULK TRUCK	RIVER	<u>Uce</u>	<u>u</u>	<del></del>		@		
<del>-</del>	RIVER			<del></del>		@		
	MVEK		~	- HANDLING	SON	@		
				MILEAGE	SON 2			
	REM	ARKS:		DD/10D	SOME C			
about in a	4200	00	e 4394'			TOTAL	40050	
elde & bette	D 7:1	U. vo	6 4044 ·	<del>_</del>				
et facher @ 4			2432 6	<del>_</del> ,	SERVIC	E		
Lard Tou &	CALL	1 1	Tuling Forms			<u> </u>		
leand Packer	0	477	Amilas.		4394'			
List Witager			Pumpad 2 bbl:		CHARGE		183500	
L'arieten	1 - 5	ik hild	nele Down		GE	@		
22 2005 km	torr a	W/CC 10	MUNE COOT	_ MILEAGE	40	@ 7.00	2500	
placed 17 5 bbls	samo La	u 15 18	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	MILEAGE	7	@ 93m	95.00	
<b>,</b>		9- 1-10	CC . Longing &	THOM .		@		
(De =======	00				(	@		
IARGE TO: 5	stry		·	RECEIVED			-4	
REET	0					TOTAT	220800	
<del> </del>			· · · · · · · · · · · · · · · · · · ·	DEC 1 8 2009	1	IOIAL	<u></u>	
ΓΥ			ZIP		•			
a. A Load				KCC WICHIT	AUG & FLOAT E	QUIPMENT		
leaned Pendens lead Sign. Sixt   how @ 431.4 T	ノうらくが	of Tuling	g Chan.	************************************	7			
200 JAN. 721	roden.	housed	500#25Rutin			<i>a</i>		
the eyaby to	Squeen	ચે	••	<del>- · · · · · · · · · · · · · · · · · · ·</del>		<u> </u>		
Allied Cementing	Co To	J				<i>y</i>		



## TREATMENT REPORT

1100	$\mathbf{S}\mathbf{y}$		U 15, L.					i de la de la companya de la company						. 1	
Customer	aptiv	a Ener	91		ease No	•. 	7 es 12			Date	<u> </u>	- ) =	3-09	C)	
ease J. I		mica)	<b>J</b> 7	W	/ell#	(cz-1	3		Alice en en el Serri de la composición				<b>)</b>	a	
ield Order (신스) 3 /s	# Static	n Pratt	<b>L</b>				Casing	Dep	th	Count	Pro	alt .		Stat	
Type Job	rofrac	2500	165r	ac	_ 100 m	١.		Formatio	"VIDIC			Legal De	scription 23	-21	05-13 W
PIP	E DATA	PER	FORATI	NG	DATA		FLUID	USED			TREA		RESUME		
asing Size	Tubing S					Acid		·		RATE	PRE	SS	ISIP /	550	0
èpih	Depth	From	328	To 4	260	Pre l	Pad		Max 30	0.6	19	2	5 Min.	345	5
757.6	Volume	From		To		Pad	2040	Profice		0,3	ノフ	64	10 Min.	122	4
ax Press	Max Pres	s From		To	الحرار بالخدسة	Frac	24,00	Ó	AVg 30	ر کر	18	00	15 Min.	172	8
'ell Connecti	ion Annulus	Vol. From		То		(4)	Profin	202CJ2	HHP Use	đ			Annulus F	Pressu	re
lug Depth	Packer D	epth From		То		<b>III</b>		Prosels	Coo Volum	ne			Total Load	19)	5 BB2 S
ustomer Re	presentative				Statio	n Mana	net ex	ve Sco	H.	Trea	aterJ.	1763	tema	$\mathcal{L}$	
ervice Units	(दिन्द्वं प्रम	2)959	209	45	250	039	400	19845	19804	199	351	21643			
river ames	Powers	Pailey	Rafe	al	mito	$\sim$ 1.	njke	Lear	(Nei)	17	7	Scoth			
Time	Casing Pressure	Tubing Pressure	Bbis.		ped	Я	ate	on 10	c 813	001	~> Servi	ce Log			
				1 4 1				Setup	1 HOL	<b>、シ</b> に	6 3	1 m 08	Strac		
1:38	322			·			'	Prime	40/	PSI	1.4	$\frac{1}{5}$	NY		
3:39					,	20	1.10	tart.	7,000	90)	11	ad		· · · · · ·	
1:44	782		10	)		4	, ラ	Hole	• • • • • • • • • • • • • • • • • • • •	hed					
2:45	2030		141	8		30	.4	Est,	Rate						
1:47	1911		110	2		30	·S	Start	4 m	Ωα		/ / #	100	mc	$s\lambda$ .
1:51	1782		2/6	7		30	,6	Start	500	ر <u>ای در</u>	c.)	1 )+	# 20)	40	Sand
2:51	1780		26			<u> 30</u>	1.6	)#		nez	h,5	and	<u> On B</u>	atto	2m2
1.54	1875	A Commercial Action	36			30	5	1#00	20/40	Say			20/4	<u>.,</u>	t gang natas a Sati gayayan Masa
1:55	1888		39	<u>Q</u>		<u>.30</u>	<u>,5</u>	Start	500	200	a/2	<u>/</u>	20/4	<u>ک</u> رک	and
2:58	1807		49	4		<u>SO</u>	·lo	2#0	30/40	Sã,		on E	ottor	11.)	\
2:59	1798		Si	<u>2                                    </u>		<u>30</u>	· 6	Start	500	00 <	5/	22	2# /	1/2	Sano
<u>, 03</u>	)754		1/20	4		<u> 30</u>	. 4	2/2#	12/2	05	and	00 2	Rotto	<u>(</u>	
,03	1792	1.0	205	<u>ح</u>		<u>30</u>	<u>.3</u>	Start	500	) 9e		734	12/	<u>ي م</u> ح	Sand
10/0	1764		ĮŽS	27		<u>30</u>	.4	3#	12/20	554	do	on R	otton	<u>J</u>	
,09	1785		80	10		30	.4	Start	-Flas	$\omega_{\perp}$			4 - 4 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		-
<i>:/</i> 2	ra Santi til sala sini Santi tila sila	1 1 4 4 E	515	5_				Shit	DWN	5)4	Ter.	IVED			
<i>:/2</i>	1550			·.	1 V 1 V			ISIP		· · ·	2.542				
· ·	1345					• • •	4, 100	5-m		Ŋ	tl 1	8 2009		<u> </u>	25
	1224							10-m	<u>, ~ </u>	-KC	C-W	ICHIT/	· ·	ha	7111
	1128			•				15-m							Litz
			÷				* * * *			SOK	<u>C</u>	ompl	ge.	70	

RICKETTS	S TESTING	•		(620) 326-5830			Page 1	
Company Address CSZ Attn.	Captiva Energ P.O. Box 1213 Hays, KS 676 Adam Kenned	01		Lease Name Lease # Legal Desc Section Township	JD Chemica 1-23 See Comme 23 26S		Job Ticket Range	2030 13W
Comments Legal Description: 785' FSL & 1400' FEL				County Pratt Drilling Cont Sterling Drilling Co.			State KS Rig #4	
GENERAL II Test # 1 Tester Test Type	NFORMATIC  Tim Venters Conventional	Test Date		Chokes Top Recorder # Mid Recorder # Bott Recorder #		Hole S	Size <b>77/8</b>	
# of Packers	Successful To					Appro	und Bu	
# of Packers  Mud Type Mud Weight Filtrate	2.0 Gel Chem 9.1 9.6	Viscosity Chlorides	47.0 8000	Mileage Standby Time Extra Equipmnt Time on Site Tool Picked Up Tool Layed Dwr	7:45 AM 9:50 AM	Appro y joint	veu by	
Drill Collar Len Wght Pipe Len				Elevation	1931.00	Kelley	Bushings 19	40.00
Formation Interval Top	Lansing "B" 3785.0	Bottom	3806.0	Start Date/Time End Date/Time				

**Total Depth** 3806.0 Very, very weak surface blow, during the initial flow period, that lasted about 1-2 minutes. Very strong blow throughout the final flow period, that hit the bottom of the bucket imidiately. It never did blow water out of the bucket. Time Blow Type s: 15, 30, 60, 120.

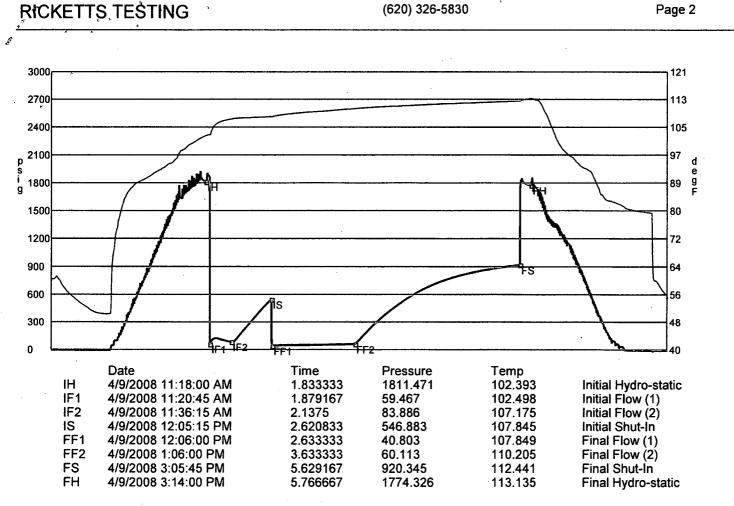
Between

#### **RECOVERY**

Anchor Len Below 21.0

Feet Description	Gas	Oil	Water	Mud
1655 Gas in pipe	100%1655ft	0% Oft	0% Oft	0% Oft
40 Slight oil cut mud	0% Oft	1% 0.4ft	0% Oft	99% 39.6ft
60 Oil, slight gas cut mud	7% 4.2ft	13% 7.8ft	0% Oft	80% 48ft

**DST Fluids** 



GAS FLOWS

Min Into IFP Min Into FFP Gas Flows Pressure Choke

RICKETTS TESTING		(620) 326-583	Page 1		
Company Address CSZ Attn.	Captiva Energy, LLC P.O. Box 1213 Hays, KS 67601 Adam Kennedy	Lease Name Lease # Legal Desc Section Township	JD Chemical 1-23 See Comments 23 26S	Job Ticket Range	13W
Comments	Legal Description: 785' FSL & 1400' FEL	County Drilling Cont	Pratt Sterling Drilling Co	State o. Rig #4	KS

GENERAL I	INFORMATIC	ON .		Chokes	2/4	Hole Size 7 7/8			
Test # 2 Tester Test Type	Tim Venters Conventional Successful T			Chokes 3/4 Hole Size 7 7/8 Top Recorder # W1022 Mid Recorder # Bott Recorder # 13565					
# of Packers	2.0	Packer Siz	ze <b>6 3/4</b>	Mileage Standby Time	20 0	Approved By			
Mud Type	Gel Chem		•	Extra Equipmni		tv ioint			
Mud Weight	9.0	Viscosity	40.0	Time on Site	1:15 PM	.,,			
Filtrate	11.2	Chlorides	9000	Tool Picked Up	3:35 PM				
				Tool Layed Dwn11:10 PM					
Drill Collar Len	218.0			· · · · · · · · · · · · · · · · · ·					
Wght Pipe Ler	0			Elevation	1931.00	Kelley Bushings 1940.00			
Formation	Lansing "H"-	" <b>!</b> "		Start Date/Time	e 4/10/2008 3	:05 PM			
Interval Top Anchor Len Be	3913.0 elow 65.0	Bottom Between	3978.0 0	End Date/Time	4/10/2008 1	1:20 PM			

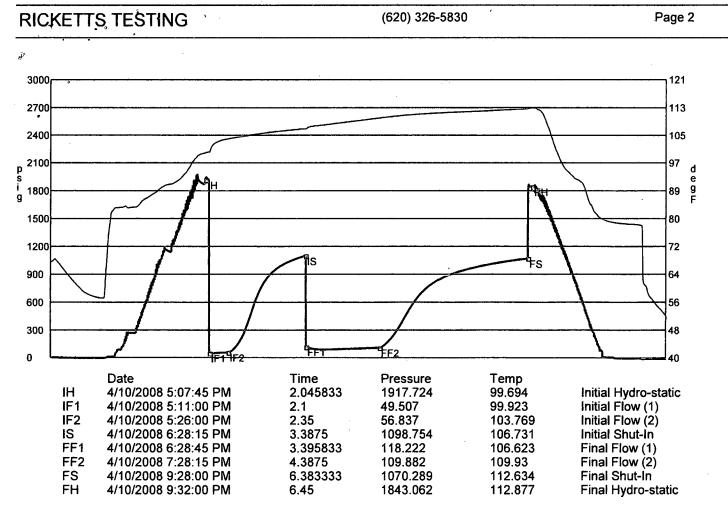
Blow Type

Weak blow at the start of the initial flow period, building to 9 inches in 5 min utes, where it held throughout the rest of the period. Weak blow at the start of the final flow period, building to 6 inches in 5 minutes, then depleting, ending the period at 1/2 inch. Times: 15, 62, 60, 120.

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<u>Feet</u>	Description	Gas	<del></del>	Oil		Wate	er	Mud	
60 60 60	Very slight (trace) oil cut mud Oil, water, slight gas cut mud Gas, oil, heavy water cut mud	0% 7% 10%	0ft 4.2ft 6ft	trace 17% 10%	10.2ft	. —	0ft 7.2ft 22.2ft	64%	%60ft 38.4ft 25.8ft

DST Fluids 44000



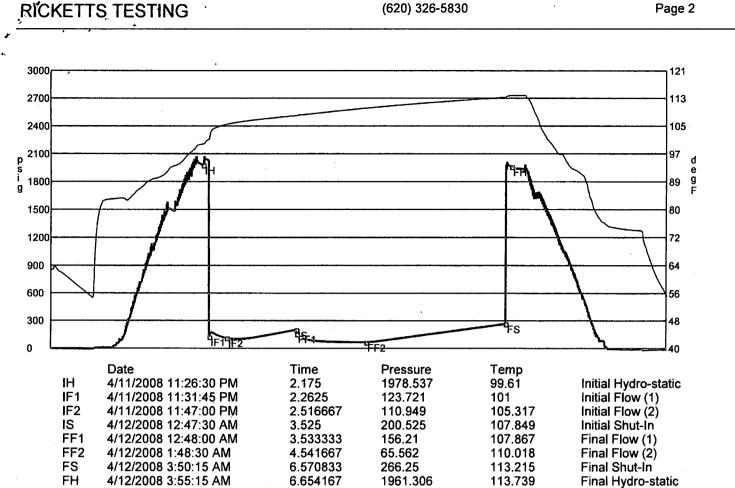
**GAS FLOWS** 

Min Into IFP Min Into FFP Gas Flows Pressure Choke

RICKETTS	TESTING	•		(620) 326-5830			Pa	ge 1
Company Address CSZ Attn.	Captiva Energ P.O. Box 1213 Hays, KS 6760 Adam Kenned	1		Lease Name Lease # Legal Desc Section Township	JD Chemic 1-23 See Comm 23 26S		Job Ticket Range	2030 13W
Comments	Legal Descript	ion: 785' F	SL & 1400' FEL	County Drilling Cont	Pratt Sterling Dr	illing Co. F	State Rig #4	KS
GENERAL II	NFORMATIO	N	B-10-1009 L., 140-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	Chokes	3/4	Hole S	Size <b>7 7/8</b>	
Test # <b>3</b> Tester Test Type	Tim Venters Conventional	Bottom Hol	4/12/2008 ie	Top Recorder # Mid Recorder # Bott Recorder #	W1022	i lole c	512 <b>C 1 110</b>	
# of Packers	Successful Te 2.0	st Packer Siz	e6 3/4	Mileage Standby Time	20 0	• •	ved By	
Mud Type Mud Weight Filtrate	Gel Chem 9.0 9.2	Viscosity Chlorides	48.0 9500	Extra Equipmnt Time on Site Tool Picked Up Tool Layed Dwr	8:10 PM 9:16 PM	ety joint		
Drill Collar Len Wght Pipe Len				Elevation	1931.00	Kelley	Bushings 19	40.00
Formation Interval Top Anchor Len Bel Total Depth	Mississippian 4115.0 low 80.0 4195.0	Bottom Between	4195.0 0	Start Date/Time End Date/Time				
Blow Type	Fairly strong be bucket in 15 d, building to	minutes. F 9 inches in	airly strong blo	flow period, reachin w at the start of the re it started to deple 5, 60, 60, 123,	final flow p	erio	,	

Oil Feet Description Water Mud <u>Gas</u> 100%115ft 0% Oft 0% 0% 0% 0% Gas in pipe Mud Oft Oft 0% Oft 100%65ft 115 Oft 65 Oft **DST Fluids** 

RECOVERY



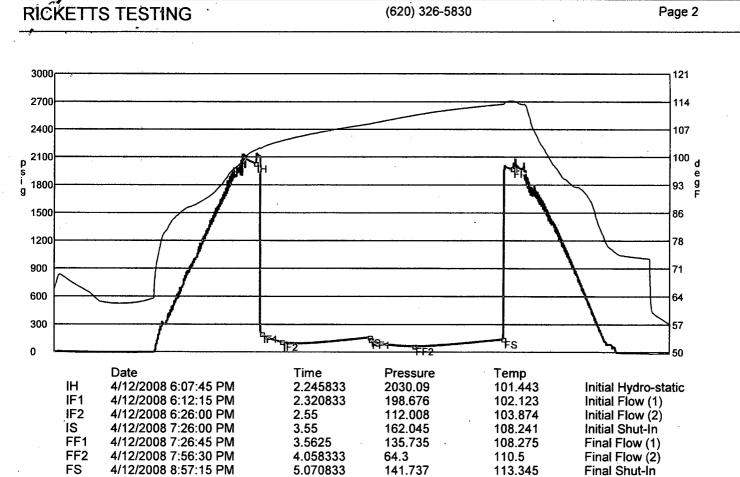
GAS FLOWS

N.C. 1. ( (C.D.)	**		_	<b>~.</b> .	
NAID INTO ILLU	DAID INTO LEG	(-00 HANN	Uraccura	('haka	
Min Into IFP	Min Into FFP	Gas Flows	Pressure	Choke	

RICKETT	S TESTING	(620) 326-583	0	Pa	ige 1
Company Address CSZ Attn.	Captiva Energy, LLC P.O. Box 1213 Hays, KS 67601 Adam Kennedy	Lease Name Lease # Legal Desc Section Township	JD Chemical 1-23 See Comments 23 26S	Job Ticket Range	2030 13W
Comments Legal Description: 785' FSL & 1400' FEL		County Drilling Cont	Pratt Sterling Drilling C	State o. Rig #4	KS
GENERAL	INFORMATION	Chokes	<b>3/4</b> Ho	ele Size <b>7 7/8</b>	
Test #4 Tester Test Type	Test Date 4/12/2008 Tim Venters Conventional Bottom Hole	Top Recorder Mid Recorder	# <b>W</b> 1022 #	NE SIZE / //8	

Test # <b>4</b> Tester Test Type	Tim Venters Conventional Successful Te			Top Recorder # Mid Recorder # Bott Recorder #	Ŀ	
# of Packers	2.0	Packer Siz	e <b>6</b> 3/4	Mileage Standby Time	20 0	Approved By
Mud Type	Gel Chem				Jars & Safety	joint
Mud Weight	8.9	Viscosity	56.0	Time on Site	2:30 PM	
Filtrate	9.2	Chlorides	9500	Tool Picked Up	4:25 PM	
				Tool Layed Dwi	n10:45 PM	
Drill Collar Len	218.0			•		
Wght Pipe Len				Elevation	1931.00	Kelley Bushings 1940.00
Formation	Viola			Start Date/Time	e 4/12/2008 3:53	PM
Interval Top	4220.0	Bottom	4242.0	End Date/Time	4/12/2008 10:5	51 PM
Anchor Len Be	low 22.0	Between	0			
Total Depth	4242.0					
Blow Type	Weak surface	blow at the	start of the initial f	low period, buil	ding to 2 1/2 in	c
2.0	hes. Fairly st	rong blow a	t the start of the fir it started to deplet	nal flow period, I	building to 4 in	
	blow. Times:	15, 60, 30, 6	<b>60.</b>	_		

RECOVERY				
Feet Description	Gas	Oil	Water	Mud
225 Gas in pipe 20 Mud	100%225ft 0% Oft	0% Oft 0% Oft	0% Oft 0% Oft	0% Oft 100%20ft
DST Fluids 0				



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### GAS FLOWS

FH

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4/12/2008 9:03:15 PM

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KCC WICHITA

Final Hydro-static

RICKETTS TESTING		(620) 326-583	Page 1		
Company Address CSZ Attn.	Captiva Energy, LLC P.O. Box 1213 Hays, KS 67601 Adam Kennedy	Lease Name Lease # Legal Desc Section Township County	JD Chemical 1-23 See Comments 23 26S Pratt	Job Ticket Range State	2030 13W KS
Comments	Legal Description: 785' FSL & 1400' FEL	Drilling Cont	Sterling Drilling Co	. Kig #4	

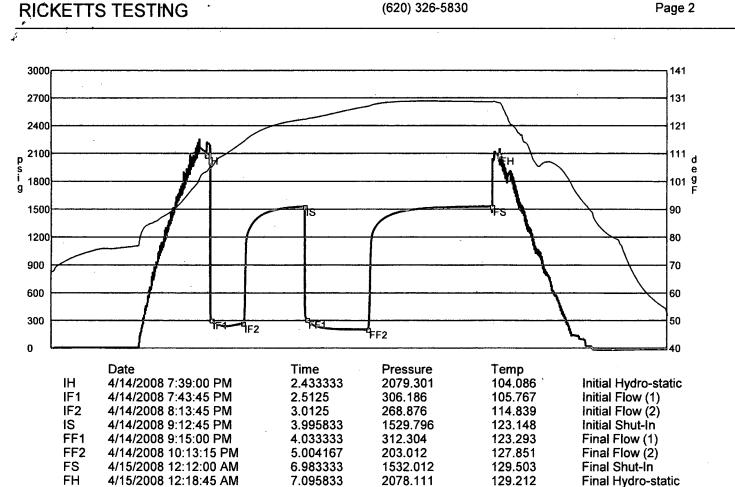
GENERAL I	NFORMATIO	N		Chokes	2/4	Hole Size 7 7/8
Test # <b>5</b> Tester Test Type	Tim Venters Conventional Successful Te		4/15/2008 le	Top Recorder : Mid Recorder : Bott Recorder :	<b>#</b>	nule Size 7 776
# of Packers	2.0	Packer Siz	e6 3/4	Mileage Standby Time	20 0	Approved By
Mud Type Mud Weight Filtrate	Gel Chem 9.2 12.0	Viscosity Chlorides	54.0 11000		t Jars & Safety 4:00 PM 6:05 PM	joint
Drill Collar Len Wght Pipe Len				Elevation	1931.00	Kelley Bushings 1940.00
Formation Interval Top Anchor Len Be Total Depth	Arbuckie 4376.0 low 11.0 4387.0	Bottom Between	4387.0 0		e 4/14/2008 5:13 e 4/15/2008 3:00	

Weak surface blow at the start of the initial flow period, building to 5 inches. Weak surface blow back during the initial shut-in period that lasted about 13 minutes. Weak surface blow at the start of the final flow period, but building reaching the bottom of the bucket in 47 1/2 minutes. Weak surface blow back during the final shut-in period, that built to 1 1/2 inches in 10 minutes. The blow ended about 35 minutes. Times 30, 60, 60, 120. Oil Gravity: 39.

### RECOVERY

Blow Type

Feet	Description	Gas	Oil	Water	Mud
485 25 120 180	Gas in pipe Clean oil Slight oil, very heavy mud cut water Very slight (trace) oil, slight mud cut water	100%485ft 0% Oft 0% Oft 0% Oft	0% 0ft 100%25ft 1% 1.2ft trace	0% Oft 0% Oft 59% 70.8ft 94% 169.2ft	0% Oft 0% Oft 40% 48ft 6% 10.8ft
DST	Fluids 44000				



### GAS FLOWS

Min Into IFP	Min Into FFP	Gas Flows	Pressure	Choke	
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RICKETT	S TESTING	(620) 326-583	0	Pa	ige 1
Company Address CSZ Attn	Captiva Energy, LLC P.O. Box 1213 Hays, KS 67601 Adam Kennedy	Lease Name Lease # Legal Desc Section Township	JD Chemical 1-23 See Comments 23 26S	Job Ticket Range	13W
		County Drilling Cont	Pratt Sterling Drilling Co	State . Rig #4	KS
Comments	Legal Description: 785' FSL & 1400' FEL	J		J	

GENERAL I	INFORMATIC	N .	•	Chalcas	0/4	ilaia Cira - 7.7/0
Test # 6 Tester Test Type	Tim Venters Conventional Successful To			Chokes Top Recorder Mid Recorder Bott Recorder	<del>‡</del>	Hole Size 7 7/8
# of Packers	2.0	Packer Siz	e6 3/4	Mileage	20 0	Approved By
Mud Type Mud Weight Filtrate	Gel Chem 8.9 12.0	Viscosity Chlorides	52.0 18000	Standby Time Extra Equipmn Time on Site Tool Picked Up Tool Layed Dw	t Jars, Safety 11:00 AM 1:00 PM	joint, Cir. pin
Drill Collar Len Wght Pipe Ler				Elevation	1931.00	Kelley Bushings 1940.00
Formation Interval Top Anchor Len Be Total Depth	Arbuckle 4395.0 elow 15.0 4410.0	Bottom Between	4410.0 0	Start Date/Time End Date/Time		
Blow Type	Strong blow t	hroughout t	the initial flow p	eriod, reaching the	bottom of th	e bucke

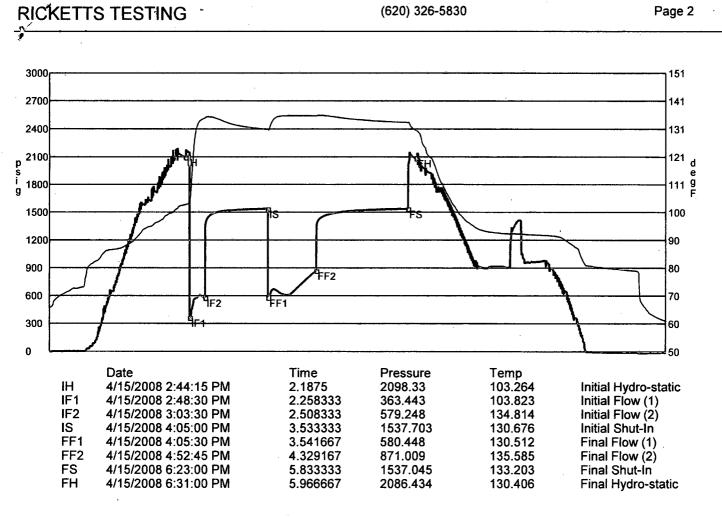
Strong blow throughout the initial flow period, reaching the bottom of the bucke t in 4 minutes. Weak surface blow back throughout the initial shut-in period. Fairly strong blow at the start of the final flow period, building to 12 inches in 5 minutes. It held there till the 20 minute mark, where it started to deplet e; ending at 5 inches. Weak surface blow back throughout the final shut-in peri od. Times: 15, 62, 47, 90.

#### **RECOVERY**

Feet Description	Gas	Oil	<u>Water</u>	Mud
110 Gas in pipe	100%110ft	0% Oft	0% Oft	0% Oft
500 Very slight oil, very heavy water cut mud	0% Oft	1% 5ft	43% 215ft	56% 280ft
1155 Very slight oil cut water	0% Oft	1% 11.6ft	99% 1143,4ft	0% Oft
245 Mud cut water	0% Oft	0% Oft	83% 203.4ft	17% 41.6ft

**DST Fluids** 36000

DEC 1 8 2009 KCC WICHITA



GAS FLOWS

Min Into IFP	Min Into FFP	Gas Flows	Pressure	Choke	



Scale 1:240 (5"=100') Imperial

Well Name: J.D. Chemical #1-23

Location: Sec. 23 - 26S - 13W Pratt Co., KS

Licence Number:

Spud Date: 4.02.08

Region: luka-Carmi

**Drilling Completed: 4.17.08** 

Surface Coordinates: 785' FSL & 1400' FEL

**Bottom Hole Coordinates:** 

Ground Elevation (ft): 1931

Logged Interval (ft): 1900

To: 4510

K.B. Elevation (ft): 1940

Total Depth (ft): 4508

Formation: Arbuckle

Type of Drilling Fluid: Chemical Gel/Polymer Fresh Water Based

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

#### **OPERATOR**

Company: Captiva Energy, LLC

Address: 1658 Cole Blvd Suite #205

Lakewood, CO 80401

#### **GEOLOGIST**

Name: Adam T. Kennedy

Company: Max-Henry Operating, LLC

Address: 133 N Glendale

Wichita, KS. 67206

#### **REMARKS**

After review of the open hole logs, DST results and geological log, it was agreed upon and decided by all parties to run 5 1/2" production casing on the J.D. Chemical #1-23 to further evaluate several zones for commerical oil and gas production.

The samples will be delivered, processed, and available for review at the KGS sample library, located in Wichita, KS Note the RTD was 4510', the LTD was 4508'. ROP and DST's were shifted 2' shallow to compensat

## Captiva Energy, LLC

### **DAILY DRILLING REPORT**

Company: Captiva Energy, LLC 1658 Cole Blvd #205 Lakewood, CO 80401

Well: J.D. Chemical #1-23 Location: 785' FSL & 1400' FEL Sec. 23 - 26S - 13W Pratt Co., KS

Jim Waechter Cell: (785) 623-1525

Operations Manager: Brian Karlin (785) 623-3290

Wellsite Geologist: Adam T. Kennedy

Elevation: 1931' GL & 1940' KB Field: luka-Carmi Northwest

Cell: 316.650.9677 Office: 316.558.5202

API#: 15-151-22291-0000

Home: 316.440.3802

Surface Casing:

Drilling Contractor: Sterling Drilling, Co. Rig #4 620-388-4192 Tool Pusher: Lanny Saloga 620-388-4193

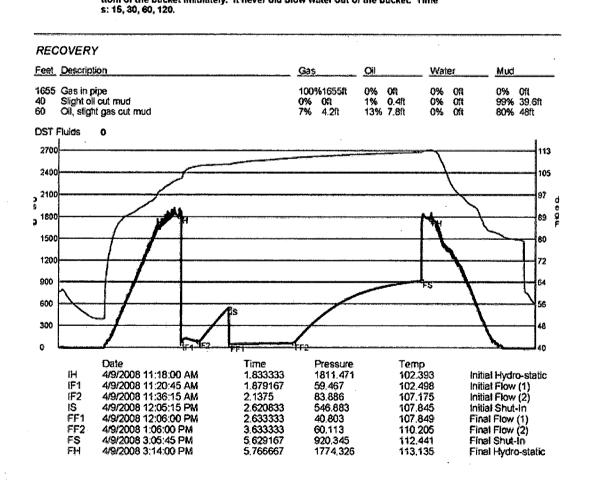
DATE	7:00 AM DEPTH	Last 24 Hour Operations
4.08.08	3200'	Geologist Adam T. Kennedy on loction @ 13:00 hrs 3300'. Currently drilling Topeka section into Heebner, Toronto, and Douglas tonight.
4.09.08	3805'	Drilling and connections Topeka through Lansing 'B'. CFS in Toronto, Douglas, LKC B. Short trip at Brown Lime. DMC: \$1,798.79 CMC: \$6,037.64
4.10.08	3900'	Set up DST #1, LKC B. Conduct test, test completed. Rig down for draw-works repairs. TIH CTCH drilling and connections LKC B to G. DMC: \$725.02 CMC: \$7,284.26
4.11.08	4025'	Drilling and connections LKC G through I. Set up DST #2, conduct test, test completed. Replace faulty gas detector unit. TiH CTCH drilling LKC I through J.
4.12.08	4195'	Drilling and connections BKC through Upper Miss. Set up DST #3, conduct test, test completed. Currently TIH and CTCH to resume drilling. DMC: \$1,887.88 CMC: \$10,368.77
4.13.08	4277 <sup>,</sup>	Drilling and connections Upper miss through Upper Viola, Set up DST #4, conduct test, test completed. TIH CTCH resume drilling Viola through Simpson DMC: \$1,123.72 CMC: \$11,492.49
4.14.08	4387'	Drilling and connections Viola through Arbuckle. Set up DST #5, rig down, drilling line broken, down for repairs. DMC: \$195.02 CMC: \$11,687.51
4.15.08	4387'	Repairs completed on rig, set up DST #5, conduct test, TOH CTCH, resume drilling upper Arbuckle.  DMC: \$1,463.88 CMC: \$13,151,39
4.16.08	4485'	Drilling and connections upper Arbuckle, set up DST #6, conduct test, test completed. TOH CTCH, resume drilling, ratholing ahead for logs. DMC: \$939.13 CMC: \$14,090.52
4.17.08	4510'	Drilling and connections rest of Arbuckle to RTD. RTD reached @ 0830 hrs 4.16.08. Logging completed @ 1600 hrs 4.17.08. Geologist off location @ 1700 hrs 4.17.08.

# Captiva Energy, LLC WELL COMPARISON SHEET

		DRILLING	WELL		<u> </u>	COMPARISO	ON WELL	<del></del>		OMPARIS	ON WELL			COMPARI	SON WELL	
	Captiv	ra Energy - J.	D. Chemic	il #1-23	Mcknab Oil - Bruns #1				H L Moore - Gobin #2			Amerada Hess - Grace Hoener #1				
	İ	785' FSL &	1400' FEL		SE	SE NE NE - Sec. 26 - 265 - 13W		SES	SE SE S - Sec. 23 - 26S - 13W			NE NW NW - Set. 26 - 265 - 13W				
	İ	Sec. 23 - 2	68 - 13W		Simp Sd.	Producer	Stru	Hurai	Arbuckie	Producer	Struc	tural	Simp Sd	. Producer	Struc	tural
	1940	KB			1945	KB	Relati	onship	1948	KB	Relati	onship	1944	KB	Relatio	onship
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log	Log	Surb-Sea	Sample	Log
Heebner	3574	4634	3572	4632	3560	4815	-19	47	3574 ·	-1626	-8	-6	3568	-1624	-10	-B
Toronto	3590	-1650	3587	-1647	3575	-1630	-20	-17	3589	-1641	-9	-6	3585	-1641	-9	-6
Oouglas Shale	3607	-1667	3608	-1668	3605	-1660	-7	-8	3608	-1660	-7	-8	3603	4659	-8	.0
U. Douglas	3039	4699	1636	-1696	3624	4879	-20	47	3637	-1689	-10	-7	3632	-1688	-11	-8
L. Dougtas	3684	-1744	3684	-1744	3661	-1716	-28	-28	3684	-1736	-8	-8	3678	-1734	<b>-10</b>	-10
Brown Lime	3740	-1800	3737	-1797	3723	-1778	-22	-19	3743	-1795	-5	-2	3734	-1790	-10	-7
Lansing	3760	-1870	3757	4817	3748	4803	47	-14	3756	-1818	-2	1	3758	-1814	-6	-3
Lansing 'B'	3787	-1847	3787	4847	3772	-1827	-20	-20	3790	-1842	-5	-5	3781	4837	40	40
Lansing 'H'	3918	-1978	3916	-1976	3901	-1956	-22	-20	3920	-1972	-6	-4	3908	-1964	-14	-12
Stark	4036	-2096	4032	-2092	4018	-2073	-23	-19	4035	-2087	-9	-5	4028	-2084	-12	-8
BKC	4081	-2141	4079	-2139	4060	-2121	<b>-2</b> 0	48	4033	-2135	-C	4	4079	-2135	-6	-4
Marmaton	4091	-2154	40\$8	-2148	4075	-2130	-24	-18	4094	-2146	-48	-2	4098	-2154	0	6
BiPenn Cgim	4151	-2211	4150	-2210	4132	-2187	-24	-23	4150	-2202	-9	-8	4147	-2203	-8	-3
Miss	4168	-2228	4165	-2225	4141	-2198	-32	-29	4190	-2242	14	17	4178	-2234	6	9
Kinderhook	4224	-2284	4220	-7.280	4197	-2252	-32	-28	4213	-2265	49	-15	4203	-2259	-25	-21
Viola	4228	-2289	4227	-2287	4208	-2263	-26	-24	4221	-2273	-16	-14	4217	-2273	-16	-14
Simpson	4263	-2323	4261	-2321	4254	-2309	-14	-12	4261	-2313	-10	-8	4259	-2315	-8	-6
Simpson Sd			4281	-2:341	4266	-2321		-20	4273	-2325		46	4263	-2319		-72
Arbuckie	4374	-2434	4364	-2424	4358	-2413	-21	-11	4359	-2411	-23	-13	4360	-2416	-18	-8
RTD	4510	-2570	4508	-256B	4404	-2459	411	-109	4378	-2430	-140	-138	4378	-2434	-136	-134

RICKETTS TESTING .		(620) 326-583	0	Page 1	
Company Address CSZ Attn.	Captiva Energy, LLC P.O. Box 1213 Hays, KS 67601 Adam Kennedy	Lease Name Lease # Legal Desc Section Township	JD Chemical 1-23 See Comments 23 26S	Job Ticket Range	13W
Comments	Legal Description: 785' FSL & 1400' FEL	County Drilling Cont	Pratt Sterling Drilling Co	State . <b>Rig #4</b>	KS

Tester Tim Venters Conventional Bottom Hole Successful Test  # of Packers  # Of Packer	Tester Tim Venters Conventional Bottom Hole Successful Test  # of Packers 2.0 Packer Size 6 3/4 Mileage 20 Approved By Standby Time 0 Extra Equipmnt Jars & Safety joint Mud Type Gel Chem Extra Equipmnt Jars & Safety joint Time on Site 7:45 AM Tool Layed Dwn4:40 PM Drill Coller Len 218.0 Wight Pipe Len 0 Elevation 1931.00 Kelley Bushings 1940.00  Formation Lansing "B" Start Date/Time 4/9/2008 9:28 AM End Date/Time 4/9/2008 4:53 PM Anchor Len Below 21.0 Between 0 Total Depth 3806.0  Blow Type Very, very weak surface blow, during the Initial flow period, that lasted about	Tester Tim Venters Test Type Conventional Bottom Hole Successful Test  # of Packers 2.0 Packer Size 6 3/4 Mileage 20 Approved By Standby Time 0 Extra Equipmn 1 Jars & Safety joint Mud Type Gel Chem Equipm 1 Jars & Safety joint Mud Weight 9.1 Viscosity 47.0 Time on Site 7:45 AM Time on Site 7:45 AM Tool Picked Up 9:50 AM Tool Layed Dwn4:40 PM  Drill Coller Len 0 Elevation 1931.00 Kelley Bushings 19  Formation Lansing "B" Start Date/Time 4/9/2008 9:28 AM End Date/Time 4/9/2008 4:53 PM  Anchor Len Below 21.0 Between 0  Total Depth 3805.0					Chokes	3/4	Hole Size 77/8
Test Type	Test Type	Test Type	Test # 1		Test Date	4/9/2008	Top Recorder	# W1022	
Successful Test   2.0   Packer Size 6 3/4   Mileage   20   Approved By   Standby Time   0	Successful Test 2.0 Packer Size 6 3/4 Mileage 20 Approved By Standby Time 0  Mud Type Gel Chem Mud Weight 9.1 Viscosity 47.0 Time on Site 7:45 AM Filtrate 9.6 Chlorides 8000 Tool Picked Up 9:50 AM Tool Layed Dwn4:40 PM  Drill Coller Len 218.0  Wight Pipe Len 0 Elevation 1931.00 Kelley Bushings 1940.00  Formation Lansing "B" Start Date/Time 4/9/2008 9:28 AM Interval Top 3785.0 Bottom 3806.0 End Date/Time 4/9/2008 4:53 PM  Anchor Len Below 21.0 Between 0  Total Depth 3806.0  Blow Type Very, very weak surface blow, during the Initial flow period, that lasted about	Successful Test   2.0   Packer Size 6 3/4   Mileage   20   Approved By	Tester	Tim Venters			Mid Recorder a	Ħ	
Standby Time 0 Extra Equipmnt Jars & Safety joint Mud Type Gel Chem Mud Weight 9.1 Viscosity 47.0 Time on Site 7:45 AM Filtrate 9.6 Chlorides 8000 Tool Picked Up 9:50 AM Tool Layed Dwn4:40 PM  Drill Coller Len 218.0 Wight Pipe Len 0 Elevation 1931.00 Kelley Bushings 1940.00  Formation Lansing "B" Start Date/Time 4/9/2008 9:28 AM Interval Top 3785.0 Bottom 3806.0 End Date/Time 4/9/2008 4:53 PM  Anchor Len Below 21.0 Between 0  Total Depth 3806.0	Mud Type Gel Chem Mud Type Gel Chem Mud Weight 9.1 Viscosity 47.0 Extra Equipmint Jars & Safety joint Filtrate 9.6 Chlorides 8000 Tool Picked Up 9:50 AM Tool Layed Dwn4:40 PM  Drill Coller Len 218.0 Wight Pipe Len 0 Elevation 1931.00 Keiley Bushings 1940.00  Formation Lansing "B" Start Date/Time 4/9/2008 9:28 AM Interval Top 3785.0 Bottom 3806.0 End Date/Time 4/9/2008 4:53 PM  Anchor Len Below 21.0 Between 0  Total Depth 3806.0  Blow Type Very, very weak surface blow, during the Initial flow period, that lasted about	Mud Type Gel Chem Mud Weight 9.1 Viscosity 47.0 Extra Equipmn Jars & Safety joint Filtrate 9.6 Chlorides 8000 Tool Picked Up 9:50 AM Tool Layed Dwn4:40 PM  Drill Coller Len 218.0 Wight Pipe Len 0 Elevation 1931.00 Kelley Bushings 19  Formation Lansing "B" Interval Top 3785.0 Bottom 3806.0 Total Depth 3806.0 Total Depth 3806.0	Test Type			e	Batt Recorder	# 1 <b>356</b> 5	
Standby Time 0 Extra Equipmnt Jars & Safety joint  Mud Type Gel Chem Mud Weight 9.1 Viscosity 47.0 Time on Site 7:45 AM Filtrate 9.6 Chlorides 8000 Tool Picked Up 9:50 AM  Tool Layed Dwn4:40 PM  Drill Coller Len 218.0 Wght Pipe Len 0 Elevation 1931.00 Kelley Bushings 1940.00  Formation Lansing "B" Start Date/Time 4/9/2008 9:28 AM Interval Top 3785.0 Bottom 3806.0 End Date/Time 4/9/2008 4:53 PM  Anchor Len Below 21.0 Between 0  Total Depth 3806.0	Mud Type Gel Chem Mud Weight 9.1 Viscosity 47.0 Extra Equipmint Jars & Safety joint Time on Site 7:45 AM Tool Picked Up 9:50 AM Tool Layed Dwn4:40 PM  Drill Coller Len 218.0 Wight Pipe Len 0 Elevation 1931.00 Kelley Bushings 1940.00  Formation Lansing "B" Start Date/Time 4/9/2008 9:28 AM Interval Top 3785.0 Bottom 3806.0 End Date/Time 4/9/2008 4:53 PM  Anchor Len Below 21.0 Between 0  Total Depth 3806.0  Blow Type Very, very weak surface blow, during the Initial flow period, that lasted about	Mud Type Gel Chem Mud Weight! 9.1 Viscosity 47.0 Extra Equipmnt Jars & Safety joint Time on Site 7:45 AM Tool Picked Up 9:50 AM Tool Layed Dwn4:40 PM  Drill Coller Len 218.0 Wght Pipe Len 0 Elevation 1931.00 Kelley Bushings 19  Formation Lansing "B" Start Date/Time 4/9/2008 9:28 AM Interval Top 3785.0 Bottom 3806.0 Total Depth 3806.0	# of Packers	2.0	Packer Siz	e 6 3/4	Mileage	20	Approved By
Mud Type Gel Chem Mud Weight 9.1 Viscosity 47.0 Time on Site 7:45 AM Tool Picked Up 9:50 AM Tool Layed Dwn4:40 PM  Drill Coller Len 218.0 Wight Pipe Len 0 Elevation 1931.00 Keiley Bushings 1940.00  Formation Lansing "B" Start Date/Time 4/9/2008 9:28 AM Interval Top 3785.0 Bottom 3806.0 Another Len Below 21.0 Between 0  Total Depth 3806.0	Mud Type Gel Chem Mud Weight 9.1 Viscosity 47.0 Time on Site 7:45 AM Filtrate 9.6 Chlorides 8000 Tool Picked Up 9:50 AM Tool Layed Dwn4:40 PM  Drill Coller Len 218.0 Wight Pipe Len 0 Elevation 1931.00 Keiley Bushings 1940.00  Formation Lansing "B" Start Date/Time 4/9/2008 9:28 AM Interval Top 3785.0 Bottom 3806.0 End Date/Time 4/9/2008 4:53 PM  Anchor Len Below 21.0 Between 0  Total Depth 3806.0 Blow Type Very, very weak surface blow, during the Initial flow period, that lasted about	Mud Type Gel Chem Mud Weight 9.1 Viscosity 47.0 Time on Site 7:45 AM Tool Picked Up 9:50 AM Tool Layed Dwn4:40 PM  Drill Coller Len 218.0 Wight Pipe Len 0 Elevation 1931.00 Kelley Bushings 19  Formation Lansing "B" Interval Top 3785.0 Bottom 3806.0 Anchor Len Below 21.0 Between 0  Total Depth 3806.0	•					0	· • •
Mud Weight 9.1 Viscosity 47.0 Time on Site 7:45 AM Tool Picked Up 9:50 AM Tool Layed Dwn4:40 PM  Drill Coller Len 218.0 Wight Pipe Len 0 Elevation 1931.00 Keiley Bushings 1940.00  Formation Lansing "B" Start Date/Time 4/9/2008 9:28 AM End Date/Time 4/9/2008 4:53 PM  Another Len Below 21.0 Between 0  Total Depth 3806.0	Mud Weight 9.1 Viscosity 47.0 Time on Site 7:45 AM Tool Picked Up 9:50 AM Tool Layed Dwn4:40 PM  Drill Coller Len 218.0 Wight Pipe Len 0 Elevation 1931.00 Keiley Bushings 1940.00  Formation Lansing "B" Start Date/Time 4/9/2008 9:28 AM End Date/Time 4/9/2008 4:53 PM  Anchor Len Below 21.0 Between 0  Total Depth 3806.0  Blow Type Very, very weak surface blow, during the Initial flow period, that lasted about	Mud Weight         9.1         Viscosity Chlorides         47.0         Time on Site 7:45 AM Tool Picked Up 9:50 AM Tool Picked Up 9:50 AM Tool Layed Dwn4:40 PM           Drill Coller Len 218.0         218.0         Elevation 1931.00 Keiley Bushings 19           Wight Pipe Len 0         Elevation 1931.00 Keiley Bushings 19           Formation Lansing "B" Interval Top 3785.0 Bottom 3806.0 Anchor Len Below 21.0 Between 0         Start Date/Time 4/9/2008 9:28 AM End Date/Time 4/9/2008 4:53 PM           Total Depth 3806.0         Total Depth 3806.0	Mud Type	Gel Chem				Lars & Safe	etv ioint
Filtrate 9.6 Chlorides 8000 Tool Picked Up 9:50 AM Tool Layed Dwn4:40 PM  Drill Coller Len 218.0 Elevation 1931.00 Kelley Bushings 1940.00  Formation Lansing "B" Start Date/Time 4/9/2008 9:28 AM End Date/Time 4/9/2008 4:53 PM  Another Len Below 21.0 Between 0  Total Depth 3806.0	Filtrate 9.6 Chlorides 8000 Tool Picked Up 9:50 AM Tool Layed Dwn4:40 PM  Drill Coller Len 218.0  Wight Pipe Len 0 Elevation 1931.00 Kelley Bushings 1940.00  Formation Lansing "B" Start Date/Time 4/9/2008 9:28 AM Interval Top 3785.0 Bottom 3806.0 End Date/Time 4/8/2008 4:53 PM  Anchor Len Below 21.0 Between 0  Total Depth 3806.0  Blow Type Very, very weak surface blow, during the Initial flow period, that lasted about	Filtrate 9.6 Chlorides 8000 Tool Picked Up 9:50 AM Tool Layed Dwn4:40 PM  Drill Coller Len 218.0 Elevation 1931.00 Kelley Bushings 19  Formation Lansing "B" Start Date/Time 4/9/2008 9:28 AM Interval Top 3785.0 Bottom 3806.0 End Date/Time 4/9/2008 4:53 PM  Anchor Len Below 21.0 Between 0  Total Depth 3806.0			Viscosity	47.0			.,,,
Tool Layed Dwn4:40 PM	Drill Coller Len 218.0  Wght Pipe Len 0 Elevation 1931.00 Kelley Bushings 1940.00  Formation Lansing "B" Start Date/Time 4/9/2008 9:28 AM Interval Top 3785.0 Bottom 3806.0 End Date/Time 4/9/2008 4:53 PM Anchor Len Below 21.0 Between 0  Total Depth 3806.0  Blow Type Very, very weak surface blow, during the Initial flow period, that lasted about	Tool Layed Dwn4:40 PM							
Drill Coller Len       218.0         Wght Pipe Len       0       Elevation       1931.00       Kelley Bushings 1940.00         Formation       Lansing "B"       Start Date/Time 4/9/2008 9:28 AM         Interval Top       3785.0       Bottom       3806.0       End Date/Time 4/9/2008 4:53 PM         Anothor Len Below 21.0       Between       0         Total Depth       3806.0	Drill Coller Len 218.0  Wight Pipe Len 0 Elevation 1931.00 Kelley Bushings 1940.00  Formation Lansing "B" Start Date/Time 4/9/2008 9:28 AM Interval Top 3785.0 Bottom 3806.0 End Date/Time 4/9/2008 4:53 PM Anchor Len Below 21.0 Between 0  Total Depth 3806.0  Blow Type Very, very weak surface blow, during the Initial flow period, that lasted about	Drill Coller Len         218.0           Wight Pipe Len         0         Elevation         1931.00         Kelley Bushings 19           Formation         Lansing "B"         Start Date/Time 4/9/2008 9:28 AM           Interval Top         3785.0         Bottom         3806.0         End Date/Time 4/9/2008 4:53 PM           Anothor Len Below         21.0         Between         0           Total Depth         3806.0         Total Depth		0.0	· Or indicaco	0000			
Wight Pipe Len 0 Elevation 1931.00 Kelley Bushings 1940.00  Formation Lansing "B" Start Date/Time 4/9/2008 9:28 AM Interval Top 3785.0 Bottom 3806.0 End Date/Time 4/9/2008 4:53 PM Anchor Len Below 21.0 Between 0  Total Depth 3806.0	Wight Pipe Len 0 Elevation 1931.00 Kelley Bushings 1940.00  Formation Lansing "B" Start Date/Time 4/9/2008 9:28 AM Interval Top 3785.0 Bottom 3806.0 End Date/Time 4/9/2008 4:53 PM Anchor Len Below 21.0 Between 0  Total Depth 3806.0 Blow Type Very, very weak surface blow, during the Initial flow period, that lasted about	Wight Pipe Len 0         Elevation         1931.00         Kelley Bushings 19           Formation         Lansing "B"         Start Date/Time 4/9/2008 9:28 AM           Interval Top         3785.0         Bottom         3806.0         End Date/Time 4/9/2008 4:53 PM           Anchor Len Below         21.0         Between         0           Total Depth         3806.0         3806.0	Drill Coller Len	218.0			A COLUMNIA COLUMNIA	164'40 LIM	
Formation Lansing "B" Start Date/Time 4/9/2008 9:28 AM Interval Top 3785.0 Bottom 3806.0 End Date/Time 4/9/2008 4:53 PM Anchor Len Below 21.0 Between 0 Total Depth 3806.0	Formation Lansing "8" Start Date/Time 4/9/2008 9:28 AM Interval Top 3785.0 Bottom 3806.0 End Date/Time 4/9/2008 4:53 PM Anchor Len Below 21.0 Between 0 Total Depth 3806.0 Blow Type Very, very weak surface blow, during the Initial flow period, that lasted about	Formation Lansing "B" Start Date/Fime 4/9/2008 9:28 AM Interval Top 3785.0 Bottom 3806.0 End Date/Time 4/9/2008 4:53 PM Anchor Len Below 21.0 Between 0  Total Depth 3806.0					Cloumtion	4004.00	Valley D. whiteen 4040 66
Interval Top 3785.0 Bottom 3806.0 End Date/Time 4/8/2008 4:53 PM Anchor Len Below 21.0 Between 0 Total Depth 3806.0	Interval Top 3785.0 Bottom 3806.0 End Date/Time 4/8/2008 4:53 PM Anchor Len Below 21.0 Between 0 Total Depth 3806.0 Blow Type Very, very weak surface blow, during the Initial flow period, that lasted about	Interval Top 3785.0 Bottom 3806.0 End Date/Time 4/8/2008 4:53 PM Anchor Len Below 21.0 Between 0 Total Depth 3806.0	AABUTE TOU	U			Cleasiful	1931.00	Newey Businings 1940.00
Interval Top 3785.0 Bottom 3806.0 End Date/Time 4/8/2008 4:53 PM Anchor Len Below 21.0 Between 0 Total Depth 3806.0	Interval Top 3785.0 Bottom 3806.0 End Date/Time 4/8/2008 4:53 PM Anchor Len Below 21.0 Between 0 Total Depth 3806.0 Blow Type Very, very weak surface blow, during the Initial flow period, that lasted about	Interval Top 3785.0 Bottom 3806.0 End Date/Time 4/9/2008 4:53 PM Anchor Len Below 21.0 Between 0 Total Depth 3806.0	Formation	Lansing "B"			Start Date/Tim	e 4/9/2008 9:2	28 AM
Anchor Len Below 21.0 Between 0 Total Depth 3806.0	Anchor Len Below 21.0 Between 0 Total Depth 3806.0 Blow Type Very, very weak surface blow, during the Initial flow period, that lasted about	Anchor Len Below 21.0 Between 0 Total Depth 3806.0	Interval Ton		Bottom	3806.0			
Total Depth 3806.0	Total Depth 3806.0 Blow Type Very, very weak surface blow, during the Initial flow period, that lasted about	Total Depth 3806.0					Laid Bates / Inte	. ALCOMOUNT	30 : iii
	Blow Type Very, very weak surface blow, during the initial flow period, that lasted about				Detween	•			
1-2 minutes. Very strong blow throughout the final flow period, that hit the bo		ttom of the bucket imidiately. It never did blow water out of the bucket. Time		ttom of the bu	ucket imidiat	tely. It never d	id blow water out of	the bucket.	Time



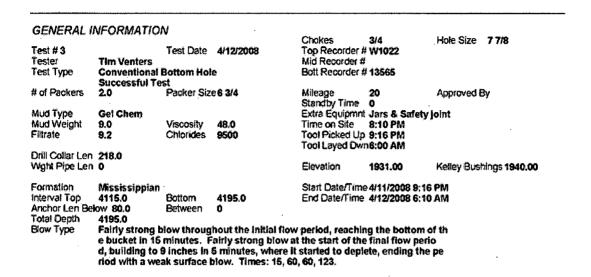
RICKETTS TESTING		(620) 326-583	Page 1		
Company Address CSZ Attn.	Captiva Energy, LLC P.O. Box 1213 Hays, KS 67601 Adam Kennedy	Lease Name Lease # Legal Desc Section Township County Drilling Cont	JD Chemical 1-23 See Comments 23 26S Pratt Sterling Drilling Co.	Job Ticket Range State	2030 13W KS
Comments	Legal Description: 785' FSL & 1400' FEL	Drilling DDIR	overming priming co.	v.f) <del></del>	

				Chokes	3/4	Hole Size 7 7/8
Test # 2		Test Date	4/11/2008	Top Recorder #		•
Tester	Tim Venters			Mid Recorder #		
Test Type	Conventional Successful Te		ė	Bott Recorder #	13565	
# of Packers	2.0	Packer Siz	e6 3/4	Mileage Standby Time	20 0	Approved By
Mud Type	Gel Chem			Extra Equipmni	Jars & Safe	ty joint
Mud Weight	9.0	Viscosity	40.0		1:15 PM	., .
Filtrate	11.2	Chlorides	9000	Tool Picked Up Tool Layed Dwr		
Ordi Collar Len	218.0					
Wght Pipe Len	0			Elevation	1931.00	Kelley Bushings 1940.00
Formation	Lansing "H"-"	l"		Start Date/Time	4/10/2008 3:	:05 PM
Interval Top	3913.0	Bottom	3978.0	End Date/Time	4/10/2008 11	1:20 PM
Anchor Len Bei	ow 65,0	Between	0			
Total Depth	3978.0					
Blow Type				period, building to 9 f the period. Weak (		

Weak blow at the start of the initial flow period, building to 9 inches in 5 min
utes, where it held throughout the rest of the period. Weak blow at the start o
f the final flow period, building to 6 inches in 5 minutes, then depleting, end
ng the period at 1/2 inch. Times: 15, 62, 60, 120.

eet Descri	ption			Gas	Oil	Water	Mud
D Oil, wa	light (trece) oil cut mux ster, slight gas cut muc xil, heavy water cut mu	i i		0% 0ft 7% 4.2ft 10% 6ft	trace 17% 10.2ft 10% 6ft	0% 0ft 12% 7.2ft 37% 22.2ft	100%60ft 64% 38.4ft 43% 25.8ft
ST Fluids	44000						
2700				,			
2400						$\overline{}$	10
2100		<i></i>	····		<del></del>	$\!$	97
1800	/}	<b>1</b> H				1	89
1500		<b></b>			**************************************	1	80
1200			entervisione visione entervisione entervisione entervisione entervisione entervisione entervisione entervision		orana - ikawi - a maa ir minin	1	72
900 <u> </u>		ļ.,		**************************************		<del>*</del> s \	
600	<u> </u>	<b> </b>					
300	/	-/-		/_			48
ــا ،		FTF2	P	FF2.			٠, ا
1H	Date 4/10/2008 5:07:4	5 DM	Time 2.045833	Pressure 1917,724			ial Hydro-statio
IF1	4/10/2008 5:11:0	0 PM	2.1	49.507	99.92	23 Init	ial Flow (1)
IF2 IS	4/10/2008 5:26:0 4/10/2008 6:28:1		2.35 3.3875	56.837 1098.754	103,7 106,7		ial Flow (2) ial Shut-In
FF1 FF2			3.395833	118.222	106,6		al Flow (1)
FS	4/10/2008 9:28:0	0 PM	4,3875 6,383333	109,882 1070,289		34 Fin	al Flow (2) al Shut-In
FH	4/10/2008 9:32:0	O PM	6,45	1843,062	112.8	377 Fin	al Hydro-static

RICKETT	rs testing	(620) 326-583	0	Pa	ige 1
Company Address CSZ Attn.	Captiva Energy, LLC P.O. Box 1213 Hays, KS 67601 Adam Kennedy	Lease Name Lease # Legal Desc Section Township	JD Chemical 1-23 See Comments 23 26S	Job Ticket Range	2030 13W
Comments	Legal Description: 785 FSL & 1400 FFL	County Drilling Cont	Pratt Sterling Drilling Co	State o. Rig #4	KS



RECOVERY Feet Description Water Mud 115 Gas in pipe 100%115ft 0% Oft 100%65ft Mud Off 0% Of **DST Fluids** 113 105 2400 p 2100 1800 69 1500 1200 900 600 300 Ġ Time Temp Date Pressure Initial Hydro-static Initial Flow (1) 1978.537 123.721 4/11/2008 11:26:30 PM 4/11/2008 11:31:45 PM 2.175 2.2625 99.61 IF1 101 IF2 4/11/2008 11:47:00 PM 2,516667 110.949 105,317 Initial Flow (2) IS 4/12/2008 12:47:30 AM 3.525 200.525 107.849 Initial Shut-In FF1 3,533333 4/12/2008 12:48:00 AM 156.21 107,867 Final Flow (1) 4/12/2008 1:48;30 AM Final Flow (2) FF2 4.541667 65.562 110,018 FS 4/12/2008 3:50:15 AM 6.570833 266.25 113.215 Final Shut-In 4/12/2008 3:55:15 AM 6.654167 1961.306 113.739 Final Hydro-static

RICKETTS TESTING (620) 326-5830 Page 1 JD Chemical Company Captiva Energy, LLC Lease Name Address P.O. Box 1213 Lease # 1-23 Hays, KS 67601 Adam Kennedy CSZ Legal Desc See Comments Job Ticket 2030 23 Attn. Section Range 13W Township 265 County Pratt State KS Drilling Cont Sterling Drilling Co. Rig #4 Comments Legal Description: 785' FSL & 1400' FEL GENERAL INFORMATION Hole Size 7 7/8 Chokes Top Recorder # W1022 Test #4 Test Date 4/12/2008 Tester Mid Recorder # **Tim Venters Conventional Bottom Hole** Bott Recorder # 13565 Test Type Successful Test # of Packers Mileage 2.0 Packer Size 6 3/4 Approved By Standby Time ō Mud Type **Gel Chem** Extra Equipmet Jars & Safety joint Mud Weight Viscosity 56.0 Time on Site 8.9 2:30 PM Filtrate 9.2 Chlorides 9500 Tool Picked Up 4:25 PM Tool Layed Dwn10:45 PM Drill Collar Len 218.0 1931.00 Wight Pipe Len 0 Elevation Kelley Bushings 1940.00 Start Date/Time 4/12/2008 3:53 PM Formation Vinta Interval Top Bottom 4220.0 4242.0 End Date/Time 4/12/2008 10:61 PM Anchor Len Below 22.0 Between **Total Depth** 4242.0 Weak surface blow at the start of the initial flow period, building to 2 1/2 inc Blow Type hes. Fairly strong blow at the start of the final flow period, building to 4 in ches in 3 minutes, where it started to deplete, ending with a very weak surface blow. Times: 15, 60, 30, 60.

RECOVERY Feet Description Gas Water Mud Gas in pipe 100%225ft 0% 0% 20 0% Oft 0% Oft 100%200 **DST Fluids** 2700 107 2400 p 2100 100 1804 93 86 1200 76 900 600 64 300 57 û Time Pressure Temp 2.245833 4/12/2008 6:07:45 PM Initial Hydro-static Initial Flow (1) 2030.09 101.443 2.320833 IF1 4/12/2008 6:12:15 PM 198,676 102.123 IF2 4/12/2008 6:26:00 PM 2.55 112.008 103,874 Initial Flow (2) IS 4/12/2008 7:26:00 PM 3.55 162.045 108.241 Initial Shut-In FF1 4/12/2008 7:26:45 PM 3.5625 135.735 108.275 Final Flow (1) FF2 4/12/2008 7:56:30 PM 4.058333 64,3 110.5 Final Flow (2) FS 4/12/2008 8:57:15 PM 141.737 113.345 Final Shut-In 5.070833 4/12/2008 9:03:15 PM 5.170833 1976,688 114.074 Final Hydro-static

RICKETTS TESTING (620) 326-5830 Page 1 Company Captiva Energy, LLC P.O. Box 1213 Hays, KS 67601 Lease Name JD Chemical Address Lease # 1.23 CSZ Legal Desc See Comments Job Ticket 2030 Section Attn. Adam Kennedy 23 Range 13W 265 Township County KS

County Pratt State
Drilling Cont Sterling Drilling Co. Rig #4

Comments Legal Description: 785' FSL & 1400' FEL

GENERAL□ INFORMATION□ Chokes 3/4 Hole Size 7 7/8
Test #6 Test Date 4/15/2008 Top Recorder # W1022

Tester Tim Venters Mid Recorder #
Test Type Conventional Bottom Hole Bott Recorder # 13565

# of Packers 2.0 Packer Size 6 3/4 Mileage 20 Approved By Standby Time 0

Mud Type Gel Chem Extra Equipmnt Jars & Safety joint Mud Weight 9.2 Viscosity 54.0 Time on Site 4:00 PM

Mud Weight 9.2 Viscosity 54.0 Time on Site 4:00 PM Filtrate 12.0 Chlorides 11000 Tool Picked Up 6:05 PM Tool Layed Dwn2:25 AM

Wght Pipe Len 0 Elevation 1931.00 Kelley Bushings 1940.00

Formation Arbuckte Start Date/Time 4/14/2008 5:13 PM

Formation Arbuckle Stan Date/Time 4/14/2008 5:13 PM Interval Top 4376.0 Bottom 4387.0 End Date/Time 4/15/2008 3:00 AM

Anchor Len Below 11.0 Between 0
Total Depth 4387.0

Weak surface blow at the start of the initial flow period, building to 5 inches. Weak surface blow back during the initial shut-in period that lasted about 13 minutes. Weak surface blow at the start of the final flow period, but building reaching the bottom of the bucket in 47 1/2 minutes. Weak surface blow back during the final shut-in period, that built to 1 1/2 inches in 10 minutes. The blow ended about 35 minutes. Times 30, 60, 60, 120. Oil Gravity: 39.

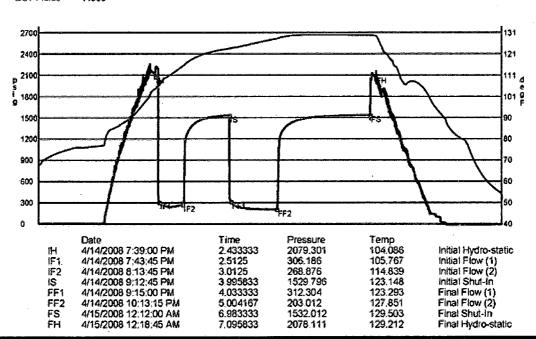
#### **RECOVERYO**

Blow Type

Drill Collar Len. 218.0

Feet	Description	Gas		Oil		Wate	et .	Mud	
485	Gas in pipe		6485ft		Oft		Oft		Oft
25	Clean oil	0%	Oft	100%		0%	Oft		Oft
120	Slight oil, very heavy mud cut water	0%	Oft	1%	1.28	59%	70.8ft	40%	48ft
180	Very slight (trace) oil, slight mud cut water	0%	Oft	trace		94%	169.2ft	6%	10.8ft

#### DST Fluids 44000



(620) 326-5830 RICKETTS TESTING Page 1 Company Captiva Energy, LLC P.O. Box 1213 Lease Name JD Chemical Address Lease # 1-23 Hays, KS 67601 CSZ Legal Desc See Comments Job Ticket 2030 Attn. Adam Kennedy Section 23 Range Township 265

KS

100

Comments Legal Description: 785 FSL 8 1400 FEL

Comments Legal Description: 785 FSL 8 1400 FEL

Comments Legal Description: 785 FSL 8 1400 FEL

GENERAL INFORMATION Chokes Hole Size 7 7/8 Test#6 Test Date 4/15/2008 Top Recorder # W1022 Mid Recorder # Tester **Tim Venters** Test Type **Conventional Bottom Hole** Bott Recorder # 13565 Successful Test Mileage Standby Time # of Packers Packer Size 6 3/4 Approved By Mud Type **Gel Chem** Extra Equipment Jars, Safety joint, Cir. plin Mud Weight 8.9 Viscosity 52.0 Time on Site 11:00 AM **Filtrate** 12.0 Chlorides 18000 Tool Picked Up 1:00 PM Tool Layed Dwn10:20 PM Drill Collar Len 218.0 Wight Pipe Len 0 Elevation 1931.00 Kelley Bushings 1940.00 Formation Slart Date/Time 4/15/2008 12:33 PM Arbuckle Interval Top 4395.0 **Bottom** End Date/Time 4/15/2008 10:37 PM 4410.0 Anchor Len Below 15.0 Between Total Depth 4410.0

Strong blow throughout the Initial flow period, reaching the bottom of the bucke tin 4 minutes. Weak surface blow back throughout the initial shut-in period. Fairly strong blow at the start of the final flow period, building to 12 inches in 5 minutes. It held there till the 20 minute mark, where it started to deplet e; ending at 5 inches. Weak surface blow back throughout the final shut-in period. Times: 15, 62, 47, 90.

Blow Type

1500

#### RECOVERY Feet Description Gas Water 100%110ft 0% 1% 0% Oft 0% Oft 43% 215ft 56% 280ft 99% 1143.4ft 0% Oft Gas in pipe 0% 0% Oft Oft Very slight oil, very heavy water cut mud 5ft 1155 Very slight oil cut water 1% 11.6ft 0% 245 Mud cui water Oft 0% Oft 83% 203.4ft 17% 41.6ft 2400 131 2100 121 1800 111

لمر	/ IF2	FF1 +F2		*	
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	Date	Time	Pressure	Temp	
H	4/15/2008 2:44:15 PM	2.1875	2098,33	103,264	Initial Hydro-sta
	4/15/2008 2:48:30 PM	2.258333	363.443	103.823	Initial Flow (1)
IF2	4/15/2008 3:03:30 PM	2.508333	579.248	134.814	Initial Flow (2)
IF2 IS	4/15/2008 3:03:30 PM 4/15/2008 4:05:00 PM	2.508333 3.533333	579.248 1537.703	134.814 130,676	initial Flow (2) Initial Shut-In
IF2 IS	4/15/2008 3:03:30 PM				
IF2 IS FF1	4/15/2008 3:03:30 PM 4/15/2008 4:05:00 PM	3,533333	1537.703	130,676	Initial Shut-In Final Flow (1)
IF1 IF2 IS FF1 FF2 FS	4/15/2008 3:03:30 PM 4/15/2008 4:05:00 PM 4/15/2008 4:05:30 PM	3,533333 3,541667	1537,703 580,448	130,676 130,512	Initial Shut-In

