



KANSAS CORPORATION COMMISSION 1089009  
OIL & GAS CONSERVATION DIVISION

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 # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well       Re-Entry       Workover
- Oil       WSW       SWD       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic       Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

- Deepening       Re-perf.       Conv. to ENHR       Conv. to SWD
- Conv. to GSW
- Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date      Date Reached TD      Completion Date or Recompletion Date

API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

**Drilling Fluid Management Plan**

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**AFFIDAVIT**

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

**KCC Office Use ONLY**

- Letter of Confidentiality Received  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



1089009

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
---	---

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR. \_\_\_\_\_ Producing Method:  
 Flowing  Pumping  Gas Lift  Other (Explain) \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
-----------------------------------	-----------	---------	-------------	---------------	---------

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
---	---	--

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  
Thomas E. Wright, Commissioner

Sam Brownback, Governor

July 31, 2012

Gary Wente  
Reeder Operating LLC  
4925 GREENVILLE AVE., STE 1400  
DALLAS, TX 75206

Re: ACO1  
API 15-033-21598-01-00  
BROWN-TODD 1-7H  
SE/4 Sec.07-32S-17W  
Comanche 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.

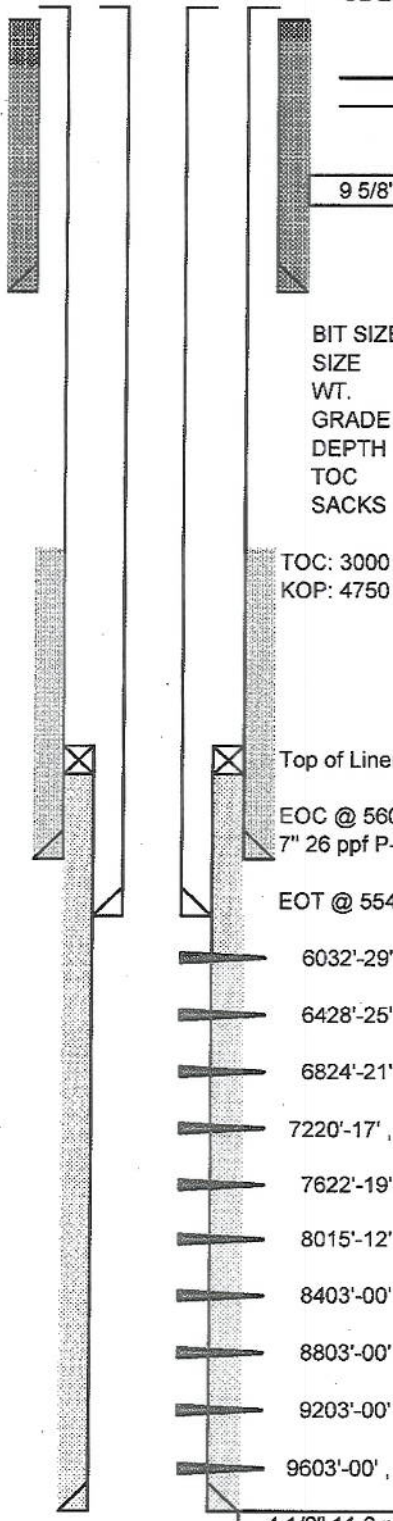
Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,  
Gary Wente

WELL NAME: Brown Todd 7H-1 DATE: 12/29/2011 PRESENT: X PROPOSED: \_\_\_\_\_  
 COMPANY: Reeder Energy FIELD: \_\_\_\_\_  
 API No. 15-033-21598-01-00 COUNTY: Comanche County STATE: KS  
 TYPE OF WELL: Oil COMPLETION: Mississippi Lime  
 TD: 9740 PBDT: \_\_\_\_\_ SPUD DATE: 11/2/2011 COMPLETION DATE: 2/3/2012  
 GL ELEV: 2063' DF: \_\_\_\_\_ KB: 17'

OPEN HOLE LOGS CASED HOLE LOGS  
 Triple Combo

9 5/8" 36ppf J-55 @ 796 ft



TOC: 3000 ft  
 KOP: 4750 ft

Top of Liner @ 4961 ft MD / 4950 ft tvd

EOC @ 5604 ft MD and 90 deg  
 7" 26 ppf P-110 @ 5604 ft MD / 5245 tvd

EOT @ 5540'

- 6032'-29' , 5887'-85' , 5742'-39' , 6 spf
- 6428'-25' , 6283'-80' , 6138'-35' , 6 spf
- 6824'-21' , 6679'-76' , 6534'-31' , 6 spf
- 7220'-17' , 7075'-72' , 6930'-27' , 6 spf
- 7622'-19' , 7474'-71' , 7326'-23' , 6 spf
- 8015'-12' , 7871'-68' , 7728'-25' , 6 spf
- 8403'-00' , 8259'-56' , 8119'-16' , 6 spf
- 8803'-00' , 8659'-56' , 8515'-12' , 6 spf
- 9203'-00' , 9059'-56' , 8916'-13' , 6 spf
- 9603'-00' , 9460'-57' , 9316'-13' , 6 spf

4 1/2" 11.6 ppf P-110 @ 9740 ft MD

BIT SIZE	CASING		
	SURF.	INT	PROD
SIZE	12-1/4"	8- 3/4"	6-1/8"
WT.	36	26	11.6
GRADE	J55	P110	P110
DEPTH	796	5604	9740
TOC	SURF.	3000	4961
SACKS	350	350	510

TUBING MAKEUP		
DATUM	LENGTH	DEPTH
2-7/8" spacer		
55 jts, 2-7/8", 6.4 ppf, EUE, N-80	1787	1804.00
GLV-7, 1.5", C-2	4.1	1808.10
21 jts, 2-7/8", 6.4 ppf, EUE, N-80	680.46	2488.56
GLV-6, 1.5", C-2	4.1	2492.66
19 jts, 2-7/8", 6.4 ppf, EUE, N-80	615.79	3108.45
GLV-5, 1.5", C-2	4.1	3112.55
18 jts, 2-7/8", 6.4 ppf, EUE, N-80	584.04	3696.59
GLV-4, 1.5", C-2	4.1	3700.69
15 jts, 2-7/8", 6.4 ppf, EUE, N-80	484.93	4185.62
GLV-3, 1.5", C-2	4.1	4189.72
13 jts, 2-7/8", 6.4 ppf, EUE, N-80	421.7	4611.42
GLV-2, 1.5", C-2	4.1	4615.52
7 jts, 2-7/8", 6.4 ppf, EUE, N-80	227.53	4843.05
Orifice, Screened, 16/64" TC	4.1	4847.15
1 jt, 2-7/8", 6.4 ppf, EUE, N-80	32.5	4879.65
On/Off tool	1	4880.65
Stinger, X profile, 2.31" ID	0.63	4881.28
Packer, AS1-X, 29-32#	7.42	4888.70
20 jts, 2-7/8", 6.4 ppf, EUE, N-80	650.23	5538.93
Ceramic Disk	0.6	5539.53
Muleshoe	0.5	5540.03

ARTIFICIAL LIFT		
DESCRIPTION	LENGTH	DEPTH

<b>JOB SUMMARY</b>			PROJECT NUMBER <b>SOK1038</b>	TICKET DATE <b>12/09/11</b>
COUNTY <b>Comanche</b>	State <b>Kansas</b>	COMPANY <b>Reeder Operating, LLC</b>	CUSTOMER REP <b>Tommy Whitlow</b>	
LEASE NAME <b>Brown-Todd</b>	Well No. <b>1-7H</b>	JOB TYPE <b>Surface</b>	EMPLOYEE NAME <b>Matt Wilson</b>	

EMP NAME <b>Matt Wilson</b>					
<b>Johnny Breeze</b>					
<b>David Settlemier</b>					
<b>David Thomas</b>					

Form. Name \_\_\_\_\_ Type: \_\_\_\_\_

Packer Type \_\_\_\_\_ Set At **0**

Bottom Hole Temp. **87 F** Pressure \_\_\_\_\_

Retainer Depth \_\_\_\_\_ Total Depth **800'**

Date	Called Out	On Location	Job Started	Job Completed
	<b>12/9/2011</b>	<b>12/9/2011</b>	<b>12/9/2011</b>	<b>12/9/2011</b>
Time	<b>12:00 am</b>	<b>10:00 am</b>	<b>11:50 am</b>	<b>1:30 pm</b>

Type and Size	Qty	Make
Auto Fill Tube	1	IR
Guide Shoe	1	IR
Centralizers	6	IR
Top Plug	1	IR
HEAD	1	IR
Limit clamp	0	IR
Weld-A	2	IR
Texas Pattern Guide Shoe	0	IR
Cement Basket	1	IR

	New/Used	Weight	Size	Grade	From	To	Max. Allow
Casing		36.0	9 5/8"		Surface	797	1,000
Liner							
Liner							
Tubing			0				
Drill Pipe							
Open Hole			12 1/4"		Surface	796	Shots/Ft.
Perforations							
Perforations							
Perforations							

Materials			
Mud Type	WBM	Density	9 Lb/Gal
Disp. Fluid	Fresh Water	Density	8.33 Lb/Gal
Spacer type	Fresh Water	BBL	10 8.33
Spacer type	BBL		
Acid Type	Gal.		%
Acid Type	Gal.		%
Surfactant	Gal.		In
NE Agent	Gal.		In
Fluid Loss	Gal/Lb		In
Gelling Agent	Gal/Lb		In
Fric. Red.	Gal/Lb		In
MISC.	Gal/Lb		In

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
12/9	4.0	12/9	4.0	Surface
Total	4.0	Total	4.0	

Perfpac Balls \_\_\_\_\_ Qty. \_\_\_\_\_

Other \_\_\_\_\_

Other \_\_\_\_\_

Other \_\_\_\_\_

Other \_\_\_\_\_

Pressures		Average Rates in BPM	
MAX	1,000 PSI	AVG	200
MAX	6 BPM	AVG	5
Feet	40	Cement Left in Pipe	
		Reason	SHOE JOINT

Cement Data						
Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	170	O-Tex Lite Standard	(6%Gel) 2% Calcium Chloride - 1/4 lb/sk Cellflake -	0.5% C-41P	10.88	1.84 12.70
2	180	Standard	2% Calcium Chloride - 1/4 lb/sk Celloflake		5.20	1.18 15.60
3	0	0		0	0.00	0.00 0.00

Summary					
Preflush Breakdown	Type: _____	MAXIMUM _____	Lost Returns _____	Actual TOC _____	Bump Plug PSI: _____
Average	5 Min. _____	10 Min. _____	15 Min. _____	Final Circ. _____	Cement Slurry _____
				Total Volume _____	
				BBI _____	
				Gal - BBI _____	
				Excess /Return _____	
				Calc. TOC: _____	
				PSI: _____	
				BBI _____	
				161.54	
				10.00	Type: FRESH WATER
				N/A	Pad:Bbl -Gal _____
				55	Calc. Disp Bbl _____
				SURFACE	Actual Disp. _____
				330	Disp:Bbl _____
				58.00	

CUSTOMER REPRESENTATIVE \_\_\_\_\_

**Tommy Whitlow**  
SVP/OWNER  
**WHITLOW CONSULTING LLC**



<b>JOB SUMMARY</b>			PROJECT NUMBER <b>SOK1063</b>	TICKET DATE <b>12/18/11</b>
COUNTY <b>Comanche</b>	State <b>Kansas</b>	COMPANY <b>Reeder Operating, LLC</b>	CUSTOMER REP <b>Freeman / Tommy Whitt</b>	
LEASE NAME <b>Brown-Todd</b>	Well No. <b>1-7H</b>	JOB TYPE <b>Intermediate</b>	EMPLOYEE NAME <b>C Bigbey</b>	

EMP NAME

Chris Bigbey				
Jared Green				
Larry Kirchner Sr.				
Rocky Anthis				

Form. Name \_\_\_\_\_ Type: \_\_\_\_\_

Packer Type \_\_\_\_\_ Set At **0**

Bottom Hole Temp. **0** Pressure \_\_\_\_\_

Retainer Depth \_\_\_\_\_ Total Depth **5613**

	Called Out	On Location	Job Started	Job Completed
Date	12/18/2011	12/18/2011	12/18/2011	12/18/2011
Time	1200	1500	2036	2141

Tools and Accessories

Type and Size	Qty	Make
Auto Fill Tube	0	IR
Insert Float Val	0	IR
Centralizers	0	IR
Top Plug	0	IR
HEAD	0	IR
Limit clamp	0	IR
Weld-A	0	IR
Texas Pattern Guide Shoe	0	IR
Cement Basket	0	IR

Well Data

	New/Used	Weight	Size	Grade	From	To	Max. Allow
Casing		26.0	7		Surface	5,604	
Liner							
Liner							
Tubing			0				
Drill Pipe							
Open Hole			8 3/4		Surface	5,613	Shots/Ft.
Perforations							
Perforations							
Perforations							

Materials

Mud Type	Density	Lb/Gal
Disp. Fluid	Density	Lb/Gal
Spacer type	BBL	
Spacer type	BBL	
Acid Type	Gal.	%
Acid Type	Gal.	%
Surfactant	Gal.	In
NE Agent	Gal.	In
Fluid Loss	Gal/Lb	In
Gelling Agent	Gal/Lb	In
Fric. Red.	Gal/Lb	In
MISC.	Gal/Lb	In

Perfpac Balls \_\_\_\_\_ Qty. \_\_\_\_\_

Other \_\_\_\_\_

Other \_\_\_\_\_

Other \_\_\_\_\_

Other \_\_\_\_\_

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
12/18	8.0	12/18	1.2	Intermediate
Total	8.0	Total	1.2	

Pressures	
MAX	3500
AVG.	400
MAX	10
AVG	5
Feet	39
Reason	Shoe Jt.

Cement Data

Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	350	50/50 Poz Premium	(4%Gel) - 0.4%C-12(Fluid Loss) - 0.1%C37(Dispersent) - 1Lb/sk PhenoSea	6.77	1.44	13.60
2	0	0		0	0.00	0.00
3	0	0		0	0.00	0.00

Summary

Preflush Breakdown	<b>20</b>	Type: _____	Water	<b>3,500</b>	Preflush: BBI	<b>10.00</b>	Type: Caustic
		MAXIMUM			Load & Bkdn: Gal - BBI		Pad: Bbl - Gal
		Lost Returns-N			Excess /Return BBI		Calc. Disp Bbl
		Actual TOC		<b>3,957</b>	Calc. TOC:	<b>3,957</b>	Actual Disp.
Average		Frac. Gradient			Treatment: Gal - BBI		Disp: Bbl
ISP	5 Min.	10 Min.	15 Min.		Cement Slurry: BBI	<b>89.8</b>	
					Total Volume	<b>294.80</b>	

CUSTOMER REPRESENTATIVE Freeman SIGNATURE





# JOB SUMMARY

COUNTY: **Comanche** State: **Oklahoma** COMPANY: **Reeder Operating, LLC** PROJECT NUMBER: **SOK1088** TICKET DATE: **12/29/11**  
 LEASE NAME: **Brown-Todd** Well No.: **1-7H** JOB TYPE: **Liner** CUSTOMER REP: **Edward Norueill**  
 EMPLOYEE NAME: **Matt Wilson**

EMP NAME	Matt Wilson	Thomas			
	Johnny Breeze				
	Daniel Wells				
	Aurthur				

Form. Name \_\_\_\_\_ Type: \_\_\_\_\_  
 Packer Type \_\_\_\_\_ Set At **5,613'**  
 Bottom Hole Temp. **150** Pressure \_\_\_\_\_  
 Retainer Depth \_\_\_\_\_ Total Depth **9770**

Date	Called Out <b>12/29/2011</b>	On Location <b>12/29/2011</b>	Job Started <b>12/30/2011</b>	Job Completed <b>12/30/2011</b>
Time	<b>10:00 am</b>	<b>3:00 pm</b>	<b>12:02 am</b>	<b>3:00 am</b>

Type and Size	Qty	Make
Auto Fill Tube	0	<b>Weatherford</b>
Insert Float Val	0	
Centralizers	0	
Top Plug	0	
HEAD	0	
Limit clamp	0	
Weld-A	0	
Texas Pattern Guide Shoe	0	
Cement Basket	0	

Well Data	New/Used	Weight	Size	Grade	From	To	Max. Allow
Casing		11.6	4 1/2		4,846'	9,820'	3,500
Liner Tool					4,828'	4,846'	3,500
Drill Collars					3,928'	4,828'	3,500
Drill Pipe			3 1/2"		Surface	3,928'	3,500
Open Hole			6 1/8"		Surface	9,770	Shots/Ft.
Perforations							
Perforations							
Perforations							

Materials	WBM	Density	Lb/Gal
Mud Type	Fresh Water	8.33	
Disp. Fluid	Caustic	10	8.40
Spacer type			
Spacer type			
Acid Type			
Acid Type			
Surfactant			
NE Agent			
Fluid Loss			
Gelling Agent			
Fric. Red.			
MISC.			

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
12/29	9.0	12/30	4.0	Liner
12/30	3.0			
Total	12.0	Total	4.0	

Perpac Balls \_\_\_\_\_ Qty. \_\_\_\_\_  
 Other \_\_\_\_\_  
 Other \_\_\_\_\_  
 Other \_\_\_\_\_  
 Other \_\_\_\_\_  
 Other \_\_\_\_\_

Pressures		Average Rates in BPM	
MAX	AVG	MAX	AVG
5,000 PSI	300	6 BPM	5
		Cement Left in Pipe	
		Reason SHOE JOINT	

Cement Data				W/Rq.	Yield	Lbs/Gal
Stage	Sacks	Cement	Additives			
1	610	50/50 Premium Poz	(4%Gal) - .4% C12 - .1% C37 - 0.5% C-41P - 2 Lb/Sk Phenoseal	6.77	1.44	13.60
2	0	0		0	0.00	0.00
3	0	0		0	0.00	0.00

Summary					
Preflush	10-	Type: Caustic	Preflush: BBI	20.00	Type: Fresh Water
Breakdown		MAXIMUM 3,500 PSI	Load & Bkdn: Gal - BBI	N/A	Pad: Bbl - Gal N/A
		Lost Returns-N NOTFULL	Excess /Return BBI	N/A	Calc. Disp Bbl 108
		Actual TOC 6,132'	Calc. TOC:	5,132'	Actual Disp. 108.00
Average		Bump Plug PSI:	Final Circ. PSI:	290	Disp: Bbl
risp	5 Min.	10 Min.	Cement Slurry: BBI	76.9	
		15 Min.	Total Volume BBI	204.90	

CUSTOMER REPRESENTATIVE \_\_\_\_\_ SIGNATURE \_\_\_\_\_



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  
Thomas E. Wright, Commissioner

Sam Brownback, Governor

August 27, 2012

Gary Wente  
Reeder Operating LLC  
4925 GREENVILLE AVE., STE 1400  
DALLAS, TX 75206

Re: ACO-1  
API 15-033-21598-01-00  
BROWN-TODD 1-7H  
SE/4 Sec.07-32S-17W  
Comanche County, Kansas

Dear Gary Wente:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 12/6/2011 and the ACO-1 was received on August 27, 2012 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department

Brown-Todd 1-7 Survey Sheet Final.txt  
 Calmena Energy Services  
 Well Report

Company : Reeder Energy  
 Well : Brown-Todd # 1-7H  
 Location : Coldwater, KS  
 Reference : GRIDNORTH

Date : 12/28/2011  
 File :

KB Elevation : 2076.5  
 License :

Gr Elevation : 2063.00

UWI :

Vertical Section Calculated Along Azimuth .05°

MD ft	Inc deg	Azi deg	TVD ft	North ft	East ft	V'Sect ft	D'Leg °/100	Build °/100	Turn °/100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.26	183.98	200.00	-0.45	-0.03	-0.45	0.13	0.13	-88.01
400.00	0.30	233.14	400.00	-1.22	-0.48	-1.22	0.12	0.02	24.58
600.00	0.84	260.52	599.99	-1.78	-2.35	-1.78	0.29	0.27	13.69
800.00	0.65	237.22	799.97	-2.63	-4.75	-2.63	0.18	-0.10	-11.65
1000.00	0.30	214.64	999.96	-3.68	-6.00	-3.68	0.20	-0.17	-11.29
1200.00	0.39	201.72	1199.96	-4.74	-6.55	-4.74	0.06	0.05	-6.46
1400.00	0.29	263.23	1399.96	-5.43	-7.30	-5.44	0.18	-0.05	30.76
1600.00	0.58	313.67	1599.95	-4.79	-8.54	-4.80	0.23	0.15	25.22
1800.00	0.70	304.21	1799.94	-3.41	-10.28	-3.41	0.08	0.06	-4.73
2000.00	0.25	290.54	1999.93	-2.57	-11.70	-2.58	0.23	-0.22	-6.84
2200.00	0.40	285.25	2199.93	-2.23	-12.78	-2.24	0.08	0.07	-2.65
2400.00	0.01	309.94	2399.93	-2.03	-13.47	-2.05	0.20	-0.20	12.35
2600.00	0.50	261.50	2599.92	-2.15	-14.34	-2.16	0.25	0.24	-24.22
2800.00	0.11	243.46	2799.92	-2.37	-15.38	-2.38	0.20	-0.20	-9.02
3000.00	0.27	263.25	2999.92	-2.51	-16.02	-2.52	0.09	0.08	9.89
3200.00	0.36	299.77	3199.92	-2.25	-17.03	-2.27	0.11	0.05	18.26
3400.00	0.48	289.44	3399.91	-1.66	-18.37	-1.68	0.07	0.06	-5.17
3600.00	0.78	281.02	3599.90	-1.12	-20.49	-1.14	0.16	0.15	-4.21
3800.00	1.27	288.50	3799.87	-0.16	-23.93	-0.18	0.25	0.24	3.74
4000.00	1.54	281.97	3999.81	1.10	-28.66	1.08	0.16	0.13	-3.26
4151.00	1.17	284.71	4150.76	1.91	-32.14	1.89	0.25	-0.25	1.81
4197.00	1.00	280.10	4196.76	2.10	-32.99	2.08	0.42	-0.37	-10.02
4229.00	1.20	272.90	4228.75	2.17	-33.60	2.14	0.76	0.63	-22.50
4259.00	0.90	273.70	4258.74	2.20	-34.15	2.17	1.00	-1.00	2.67
4291.00	1.10	265.50	4290.74	2.19	-34.70	2.16	0.77	0.63	-25.62
4322.00	0.90	281.60	4321.74	2.22	-35.24	2.19	1.11	-0.65	51.94
4353.00	0.90	272.50	4352.73	2.28	-35.72	2.25	0.46	0.00	-29.35
4384.00	0.90	286.60	4383.73	2.36	-36.20	2.33	0.71	0.00	45.48
4414.00	0.80	277.20	4413.72	2.45	-36.63	2.42	0.57	-0.33	-31.33
4447.00	0.90	283.40	4446.72	2.54	-37.11	2.51	0.41	0.30	18.79
4478.00	1.00	272.10	4477.72	2.61	-37.62	2.58	0.68	0.32	-36.45
4509.00	0.90	275.60	4508.71	2.64	-38.13	2.61	0.37	-0.32	11.29
4541.00	0.90	289.40	4540.71	2.75	-38.62	2.72	0.68	0.00	43.12
4571.00	0.60	292.20	4570.71	2.89	-38.99	2.85	1.01	-1.00	9.33
4602.00	1.10	7.90	4601.70	3.24	-39.09	3.21	3.60	1.61	244.19
4633.00	2.40	24.60	4632.69	4.13	-38.78	4.09	4.46	4.19	53.87
4663.00	4.20	24.70	4662.64	5.70	-38.06	5.66	6.00	6.00	0.33
4695.00	6.00	13.10	4694.51	8.39	-37.19	8.36	6.46	5.62	-36.25
4726.00	8.70	6.30	4725.25	12.30	-36.57	12.27	9.14	8.71	-21.94

Brown-Todd 1-7 Survey Sheet Final.txt

4757.00	11.70	4.40	4755.76	17.77	-36.07	17.73	9.74	9.68	-6.13
4787.00	14.40	5.80	4784.98	24.51	-35.46	24.48	9.06	9.00	4.67
4818.00	17.50	5.60	4814.79	32.99	-34.62	32.96	10.00	10.00	-0.65
4849.00	20.30	5.10	4844.11	42.98	-33.68	42.95	9.05	9.03	-1.61
4881.00	23.80	4.40	4873.77	54.95	-32.69	54.93	10.97	10.94	-2.19
4911.00	27.30	3.30	4900.83	67.86	-31.83	67.83	11.77	11.67	-3.67
4943.00	30.70	2.60	4928.81	83.35	-31.04	83.33	10.68	10.62	-2.19
4974.00	34.00	2.00	4955.00	99.93	-30.38	99.90	10.70	10.65	-1.94
5005.00	37.30	2.00	4980.18	117.98	-29.75	117.95	10.65	10.65	0.00
5036.00	40.90	2.30	5004.24	137.51	-29.01	137.49	11.63	11.61	0.97
5068.00	43.10	1.50	5028.02	158.91	-28.31	158.89	7.08	6.88	-2.50
5100.00	45.30	0.00	5050.96	181.22	-28.02	181.19	7.61	6.87	-4.69
5131.00	48.30	358.70	5072.18	203.81	-28.28	203.79	10.15	9.68	-4.19
5162.00	52.00	357.70	5092.04	227.59	-29.04	227.57	12.19	11.94	-3.23
5193.00	55.10	357.10	5110.45	252.50	-30.17	252.47	10.12	10.00	-1.94
5225.00	58.70	357.40	5127.92	279.27	-31.45	279.24	11.28	11.25	0.94
5255.00	61.60	358.00	5142.86	305.27	-32.50	305.24	9.82	9.67	2.00
5287.00	63.90	358.40	5157.51	333.70	-33.39	333.67	7.27	7.19	1.25
5318.00	65.90	359.10	5170.66	361.76	-34.00	361.73	6.77	6.45	2.26
5349.00	67.40	359.50	5182.94	390.22	-34.35	390.19	4.98	4.84	1.29
5380.00	68.70	359.90	5194.53	418.97	-34.50	418.94	4.36	4.19	1.29
5410.00	69.60	0.10	5205.21	447.01	-34.50	446.98	3.06	3.00	0.67
5441.00	71.20	359.80	5215.61	476.21	-34.52	476.18	5.24	5.16	-0.97
5472.00	73.50	359.70	5225.00	505.75	-34.65	505.72	7.43	7.42	-0.32
5502.00	76.00	0.00	5232.90	534.69	-34.73	534.66	8.39	8.33	1.00
5532.00	78.60	359.70	5239.49	563.96	-34.80	563.92	8.72	8.67	-1.00
5563.00	81.00	0.00	5244.98	594.46	-34.88	594.43	7.80	7.74	0.97
5617.00	84.90	0.30	5251.61	648.04	-34.74	648.01	7.24	7.22	0.56
5645.00	87.30	0.70	5253.51	675.98	-34.50	675.95	8.69	8.57	1.43
5673.00	87.90	0.50	5254.68	703.95	-34.21	703.92	2.26	2.14	-0.71
5705.00	87.30	0.60	5256.02	735.92	-33.90	735.89	1.90	-1.88	0.31
5735.00	88.00	1.00	5257.25	765.89	-33.48	765.86	2.69	2.33	1.33
5766.00	89.80	0.80	5257.85	796.88	-32.99	796.85	5.84	5.81	-0.65
5796.00	91.50	0.50	5257.51	826.88	-32.65	826.85	5.75	5.67	-1.00
5825.00	91.20	0.60	5256.82	855.87	-32.37	855.84	1.09	-1.03	0.34
5856.00	91.10	0.70	5256.20	886.86	-32.02	886.83	0.46	-0.32	0.32
5886.00	91.40	359.80	5255.55	916.85	-31.89	916.82	3.16	1.00	-3.00
5916.00	90.70	0.50	5255.00	946.85	-31.81	946.82	3.30	-2.33	2.33
5946.00	89.70	0.20	5254.89	976.84	-31.63	976.82	3.48	-3.33	-1.00
5977.00	89.60	0.20	5255.08	1007.84	-31.52	1007.82	0.32	-0.32	0.00
6006.00	89.70	359.90	5255.26	1036.84	-31.50	1036.81	1.09	0.34	-1.03
6036.00	91.20	359.60	5255.02	1066.84	-31.63	1066.81	5.10	5.00	-1.00
6065.00	91.80	359.20	5254.26	1095.83	-31.93	1095.80	2.49	2.07	-1.38
6096.00	91.30	359.20	5253.43	1126.81	-32.36	1126.79	1.61	-1.61	0.00
6128.00	91.40	358.40	5252.67	1158.80	-33.03	1158.77	2.52	0.31	-2.50
6159.00	91.90	357.90	5251.78	1189.77	-34.03	1189.74	2.28	1.61	-1.61
6191.00	91.60	357.50	5250.80	1221.73	-35.32	1221.70	1.56	-0.94	-1.25
6223.00	91.70	357.00	5249.88	1253.68	-36.85	1253.65	1.59	0.31	-1.56
6255.00	92.10	357.20	5248.82	1285.62	-38.47	1285.59	1.40	1.25	0.63
6286.00	91.20	357.60	5247.93	1316.57	-39.88	1316.54	3.18	-2.90	1.29
6318.00	90.80	357.90	5247.37	1348.54	-41.13	1348.51	1.56	-1.25	0.94
6350.00	90.90	357.60	5246.89	1380.52	-42.39	1380.48	0.99	0.31	-0.94
6381.00	90.50	357.20	5246.52	1411.48	-43.79	1411.44	1.82	-1.29	-1.29

Brown-Todd 1-7 Survey Sheet Final.txt									
6413.00	90.00	358.50	5246.38	1443.46	-45.00	1443.42	4.35	-1.56	4.06
6445.00	90.00	358.60	5246.38	1475.45	-45.80	1475.41	0.31	0.00	0.31
6477.00	91.30	358.50	5246.01	1507.44	-46.61	1507.39	4.07	4.06	-0.31
6508.00	91.90	358.90	5245.15	1538.41	-47.32	1538.37	2.33	1.94	1.29
6540.00	91.70	0.00	5244.14	1570.40	-47.62	1570.35	3.49	-0.62	3.44
6572.00	91.20	359.70	5243.33	1602.39	-47.71	1602.34	1.82	-1.56	-0.94
6604.00	89.40	359.30	5243.17	1634.38	-47.99	1634.34	5.76	-5.62	-1.25
6636.00	89.20	359.50	5243.56	1666.38	-48.32	1666.34	0.88	-0.63	0.63
6668.00	90.20	359.30	5243.72	1698.38	-48.66	1698.33	3.19	3.13	-0.63
6700.00	91.00	359.20	5243.39	1730.37	-49.08	1730.33	2.52	2.50	-0.31
6732.00	90.60	358.90	5242.94	1762.36	-49.61	1762.32	1.56	-1.25	-0.94
6763.00	90.30	0.50	5242.70	1793.36	-49.77	1793.32	5.25	-0.97	5.16
6795.00	90.80	0.80	5242.39	1825.36	-49.41	1825.31	1.82	1.56	0.94
6827.00	91.50	0.30	5241.75	1857.35	-49.10	1857.31	2.69	2.19	-1.56
6858.00	91.90	0.40	5240.83	1888.34	-48.91	1888.29	1.33	1.29	0.32
6890.00	91.10	0.50	5239.99	1920.32	-48.66	1920.28	2.52	-2.50	0.31
6921.00	91.00	0.90	5239.42	1951.32	-48.28	1951.27	1.33	-0.32	1.29
6953.00	89.60	1.80	5239.26	1983.31	-47.53	1983.26	5.20	-4.37	2.81
6985.00	89.50	2.00	5239.51	2015.29	-46.47	2015.25	0.70	-0.31	0.63
7017.00	90.70	2.20	5239.45	2047.26	-45.29	2047.22	3.80	3.75	0.63
7048.00	90.60	2.20	5239.10	2078.24	-44.10	2078.20	0.32	-0.32	0.00
7080.00	91.10	2.10	5238.62	2110.21	-42.90	2110.18	1.59	1.56	-0.31
7112.00	90.20	1.80	5238.26	2142.19	-41.81	2142.16	2.96	-2.81	-0.94
7144.00	89.90	1.40	5238.23	2174.18	-40.92	2174.14	1.56	-0.94	-1.25
7175.00	90.20	1.50	5238.21	2205.17	-40.14	2205.13	1.02	0.97	0.32
7207.00	89.90	1.80	5238.18	2237.16	-39.21	2237.12	1.33	-0.94	0.94
7239.00	91.20	2.00	5237.87	2269.14	-38.15	2269.10	4.11	4.06	0.63
7270.00	93.20	2.60	5236.68	2300.09	-36.91	2300.05	6.74	6.45	1.94
7302.00	93.20	2.20	5234.90	2332.01	-35.57	2331.98	1.25	0.00	-1.25
7334.00	93.50	2.10	5233.03	2363.93	-34.37	2363.90	0.99	0.94	-0.31
7365.00	93.30	1.70	5231.19	2394.86	-33.35	2394.83	1.44	-0.65	-1.29
7397.00	93.70	1.60	5229.23	2426.79	-32.43	2426.76	1.29	1.25	-0.31
7428.00	93.80	2.10	5227.21	2457.71	-31.43	2457.68	1.64	0.32	1.61
7460.00	93.40	0.90	5225.20	2489.63	-30.59	2489.60	3.95	-1.25	-3.75
7491.00	93.60	1.30	5223.30	2520.57	-30.00	2520.54	1.44	0.65	1.29
7523.00	93.10	1.10	5221.43	2552.50	-29.33	2552.48	1.68	-1.56	-0.63
7555.00	93.20	1.50	5219.68	2584.45	-28.61	2584.42	1.29	0.31	1.25
7587.00	91.80	0.50	5218.28	2616.41	-28.05	2616.39	5.37	-4.37	-3.13
7618.00	90.80	359.80	5217.58	2647.40	-27.97	2647.38	3.94	-3.23	-2.26
7650.00	90.60	0.10	5217.19	2679.40	-27.99	2679.38	1.13	-0.63	0.94
7682.00	90.90	359.60	5216.77	2711.40	-28.08	2711.37	1.82	0.94	-1.56
7713.00	91.20	359.70	5216.20	2742.39	-28.27	2742.37	1.02	0.97	0.32
7745.00	90.80	359.00	5215.64	2774.38	-28.63	2774.36	2.52	-1.25	-2.19
7776.00	89.40	358.40	5215.59	2805.38	-29.33	2805.35	4.91	-4.52	-1.94
7808.00	88.50	358.60	5216.17	2837.36	-30.17	2837.33	2.88	-2.81	0.63
7840.00	89.10	358.30	5216.84	2869.34	-31.04	2869.31	2.10	1.88	-0.94
7871.00	89.70	358.30	5217.17	2900.32	-31.96	2900.30	1.94	1.94	0.00
7903.00	89.90	358.20	5217.28	2932.31	-32.93	2932.28	0.70	0.63	-0.31
7934.00	90.00	358.00	5217.31	2963.29	-33.96	2963.26	0.72	0.32	-0.65
7966.00	90.10	357.30	5217.28	2995.27	-35.27	2995.23	2.21	0.31	-2.19
7998.00	90.50	357.60	5217.11	3027.23	-36.70	3027.20	1.56	1.25	0.94
8030.00	90.40	358.80	5216.86	3059.22	-37.70	3059.18	3.76	-0.31	3.75

Brown-Todd 1-7 Survey Sheet					Final.txt				
8061.00	90.40	358.60	5216.64	3090.21	-38.41	3090.17	0.65	0.00	-0.65
8093.00	90.60	358.70	5216.36	3122.20	-39.16	3122.16	0.70	0.63	0.31
8124.00	90.90	358.50	5215.96	3153.18	-39.92	3153.15	1.16	0.97	-0.65
8156.00	91.40	359.20	5215.32	3185.17	-40.56	3185.14	2.69	1.56	2.19
8188.00	91.40	0.00	5214.53	3217.16	-40.78	3217.12	2.50	0.00	2.50
8219.00	91.70	0.50	5213.70	3248.15	-40.65	3248.11	1.88	0.97	1.61
8250.00	92.20	359.80	5212.64	3279.13	-40.57	3279.09	2.77	1.61	-2.26
8282.00	92.00	0.30	5211.47	3311.11	-40.54	3311.07	1.68	-0.63	1.56
8313.00	93.00	0.20	5210.12	3342.08	-40.40	3342.04	3.24	3.23	-0.32
8344.00	91.50	0.20	5208.90	3373.05	-40.30	3373.02	4.84	-4.84	0.00
8376.00	89.50	0.40	5208.62	3405.05	-40.13	3405.01	6.28	-6.25	0.63
8408.00	88.90	0.60	5209.07	3437.05	-39.85	3437.01	1.98	-1.88	0.63
8440.00	88.40	0.50	5209.82	3469.04	-39.54	3469.00	1.59	-1.56	-0.31
8472.00	88.30	359.60	5210.74	3501.02	-39.51	3500.99	2.83	-0.31	-2.81
8503.00	89.20	0.30	5211.42	3532.01	-39.54	3531.98	3.68	2.90	2.26
8535.00	89.70	0.60	5211.72	3564.01	-39.29	3563.98	1.82	1.56	0.94
8567.00	90.00	0.20	5211.81	3596.01	-39.07	3595.98	1.56	0.94	-1.25
8599.00	90.00	0.20	5211.81	3628.01	-38.95	3627.98	0.00	0.00	0.00
8630.00	90.40	0.50	5211.70	3659.01	-38.76	3658.97	1.61	1.29	0.97
8662.00	90.90	0.00	5211.34	3691.01	-38.62	3690.97	2.21	1.56	-1.56
8694.00	91.10	0.00	5210.78	3723.00	-38.62	3722.97	0.62	0.63	0.00
8726.00	91.10	359.60	5210.16	3755.00	-38.74	3754.96	1.25	0.00	-1.25
8758.00	91.20	359.70	5209.52	3786.99	-38.93	3786.95	0.44	0.31	0.31
8790.00	91.80	359.50	5208.68	3818.98	-39.16	3818.94	1.98	1.88	-0.63
8821.00	91.70	0.50	5207.74	3849.96	-39.16	3849.93	3.24	-0.32	3.23
8853.00	91.30	0.50	5206.90	3881.95	-38.88	3881.91	1.25	-1.25	0.00
8885.00	91.00	0.50	5206.26	3913.94	-38.60	3913.91	0.94	-0.94	0.00
8917.00	90.20	359.70	5205.92	3945.94	-38.54	3945.90	3.54	-2.50	-2.50
8948.00	90.20	0.20	5205.81	3976.94	-38.57	3976.90	1.61	0.00	1.61
8980.00	90.50	359.80	5205.62	4008.94	-38.57	4008.90	1.56	0.94	-1.25
9012.00	90.40	0.30	5205.37	4040.94	-38.54	4040.90	1.59	-0.31	1.56
9043.00	90.40	359.80	5205.15	4071.94	-38.51	4071.90	1.61	0.00	-1.61
9075.00	90.70	0.00	5204.84	4103.94	-38.57	4103.90	1.13	0.94	0.63
9107.00	91.70	0.40	5204.17	4135.93	-38.46	4135.89	3.37	3.13	1.25
9139.00	92.00	0.30	5203.14	4167.91	-38.26	4167.88	0.99	0.94	-0.31
9171.00	91.30	0.00	5202.22	4199.90	-38.18	4199.86	2.38	-2.19	-0.94
9203.00	90.00	359.90	5201.86	4231.89	-38.21	4231.86	4.07	-4.06	-0.31
9234.00	90.30	359.90	5201.78	4262.89	-38.26	4262.86	0.97	0.97	0.00
9266.00	91.40	0.70	5201.30	4294.89	-38.09	4294.85	4.25	3.44	2.50
9298.00	91.20	0.70	5200.57	4326.88	-37.70	4326.84	0.62	-0.63	0.00
9330.00	89.80	0.00	5200.30	4358.88	-37.51	4358.84	4.89	-4.37	-2.19
9362.00	89.40	359.50	5200.52	4390.87	-37.65	4390.84	2.00	-1.25	-1.56
9393.00	89.60	359.20	5200.79	4421.87	-38.00	4421.84	1.16	0.65	-0.97
9425.00	89.70	0.20	5200.99	4453.87	-38.17	4453.83	3.14	0.31	3.13
9457.00	90.60	0.60	5200.90	4485.87	-37.94	4485.83	3.08	2.81	1.25
9489.00	91.30	0.60	5200.37	4517.86	-37.61	4517.83	2.19	2.19	0.00
9521.00	91.50	0.50	5199.59	4549.85	-37.30	4549.82	0.70	0.62	-0.31
9553.00	90.70	359.50	5198.97	4581.84	-37.30	4581.81	4.00	-2.50	-3.13
9584.00	89.90	359.40	5198.81	4612.84	-37.60	4612.81	2.60	-2.58	-0.32
9616.00	90.00	359.60	5198.84	4644.84	-37.88	4644.81	0.70	0.31	0.63
9648.00	90.30	359.80	5198.76	4676.84	-38.04	4676.81	1.13	0.94	0.62
9680.00	90.90	359.80	5198.42	4708.84	-38.16	4708.80	1.87	1.88	0.00
9740.00	90.90	359.80	5197.48	4768.83	-38.37	4768.80	0.00	0.00	0.00

Brown-Todd 1-7 Survey Sheet Final.txt

Bottom Hole Closure 4768.99ft Along Azimuth 359.54°



API  
15033  
21598-0100

REEDER OPERATING, LLC  
BROWN/TODD LEASE  
SE. 1/4, SECTION 7, T32S, R17W  
COMANCHE COUNTY, KANSAS

HIGHWAY 160

Notes:

1. Set iron rod at location site.
2. All flagging Red & Yellow.
3. Overhead power available at S. line, Sec. 7.
4. Kansas One Call System Inc. should be notified before excavation (1-800-344-7233).
5. CAUTION; Various pipelines in Sec. 7.
6. Section 7 is irregular.
7. Contact landowner for best access.
8. Original location (150'FSL 350'FEL) was revised in field per representative.

ROAD

ROAD

GRAVEL

NO

Drillsite Location  
Brown/Todd 1-7H  
200'FSL 350'FEL

Ground Elevation = 2063

Y = 219479 X = 1795618

State Plane-NAD 27-Kansas South  
(Mapping Grade GPS Used)

E-W O'HD. ELECTRIC LINE & FENCE 160' S. OF LOC.

200' x 300' TRACT

CRP GRASS

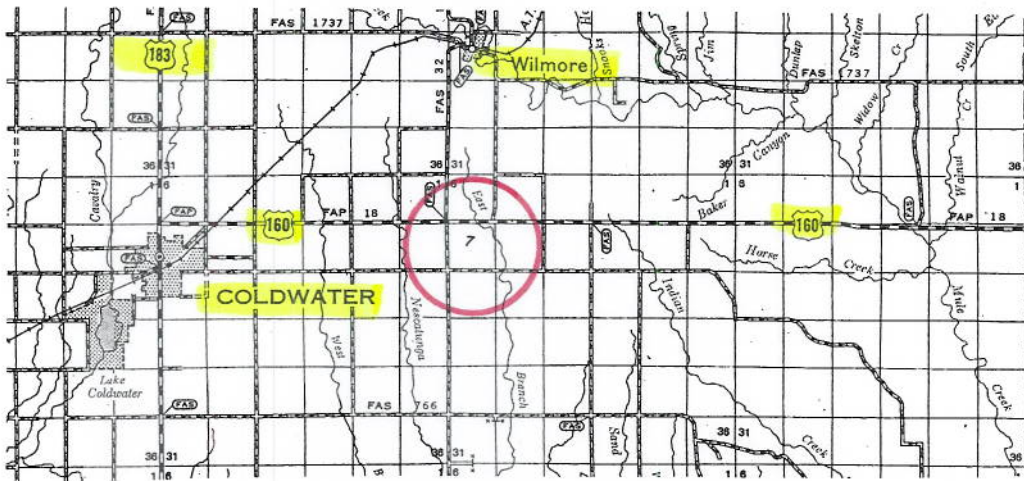


\*Ingress and egress to location as shown on this plat is per usage only and may not be legally opened for public use. Contact landowner, tenant and county road department for access.

GRAVEL

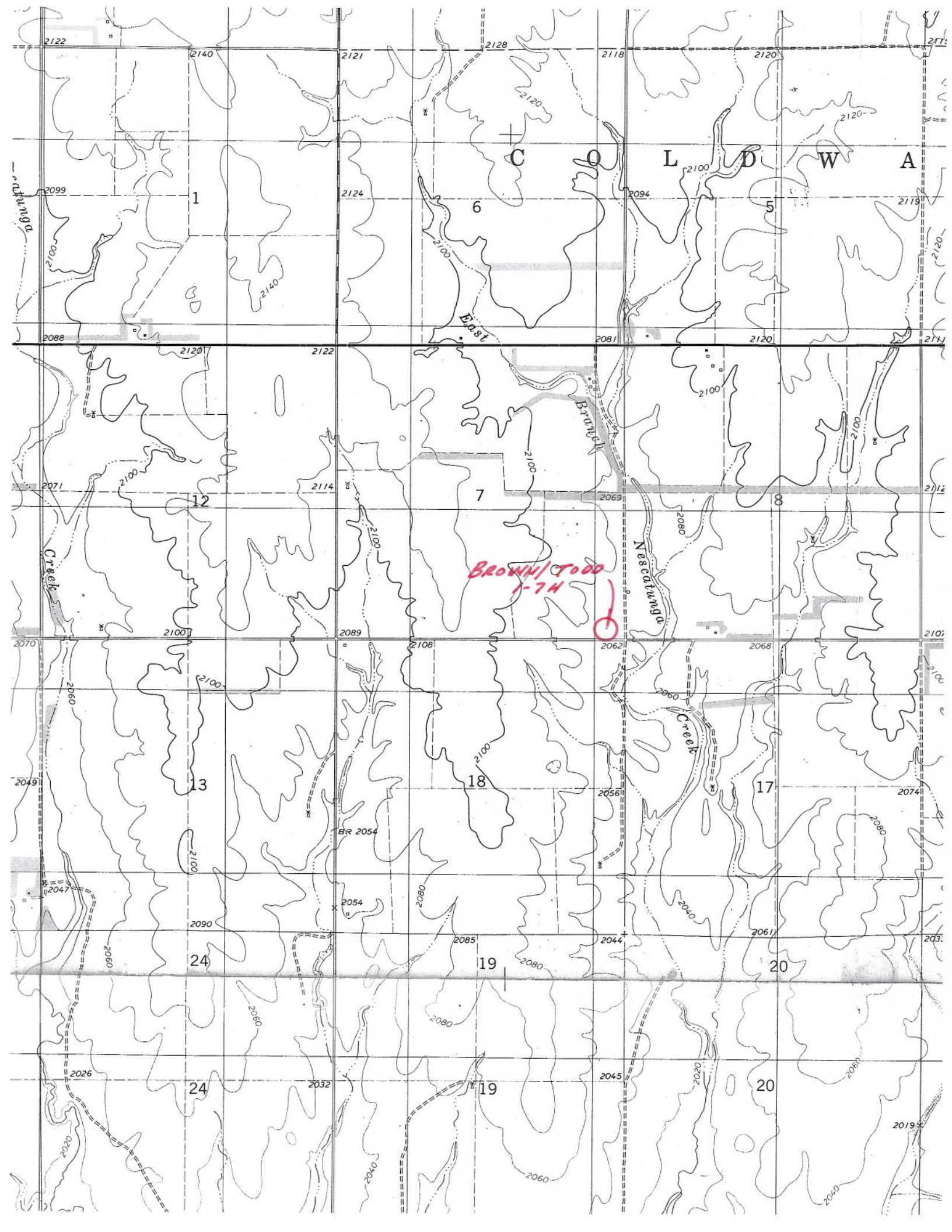
ROAD

GATE (OPEN)



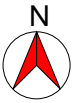
\* Controlling data is based upon the best maps and photographs available to us and upon a regular section of land containing 640 acres.  
 \* Approximate section lines were determined using the normal standard of care of oilfield surveyors practicing in the state of Kansas. The section corners, which establish the precise section lines, were not necessarily located, and the exact location of the drillsite location in the section is not guaranteed. Therefore, the operator securing this service and accepting this plat and all other parties relying thereon agree to hold Central Kansas Oilfield Services, Inc., its officers and employees harmless from all losses, costs and expenses and said entities released from any liability from incidental or consequential damages.  
 \* Elevations derived from National Geodetic Vertical Datum.

Date September 14, 2011



X/Y:  
Feet

1792900



BHL:340' FNL  
&395 FEL

224000

PELICAN HILL O&G INC  
BROWN

REEDER OPERATING LLC  
Brown-Todd  
9740

GRAHM-MICHEALS  
BROWN  
5220

224000

HILL O&G INC  
BROWN

7

Well perf'd after 7"  
Csg @ 820' FSL &  
360' FEL

REEDER OPERATING LLC  
Brown-Todd SWD  
6828

CSG. 7" 5604

Brown-Todd  
9740

1792900



Reeder Operating LLC

Plat Map- Brown-Todd 1-7H

Comanche Co., KS

Scale = 1:11943



Final BHL Brown-Todd 1-7H  
Base Map- Section 7 T32S R17W  
NAD 1927 State Plane