



WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 34191
Name: Reeder Operating LLC
Address 1: 4925 GREENVILLE AVE., STE 1400
Address 2:
City: DALLAS State: TX Zip: 75206
Contact Person: Gary Wentz
Phone: (214) 373-7793
CONTRACTOR: License # 34571
Name: Atlas Drilling, LLC
Wellsite Geologist: Gary Wentz
Purchaser:

API No. 15 - 15-033-21598-01-00
Spot Description:
SW SE SE SE Sec. 7 Twp. 32 S. R. 17 East West
200 Feet from North South Line of Section
350 Feet from East West Line of Section
Footages Calculated from Nearest Outside Section Corner:
NE NW SE SW
County: Comanche
Lease Name: BROWN-TODD Well #: 1-7H
Field Name:
Producing Formation: Mississippian
Elevation: Ground: 2063 Kelly Bushing: 2076
Total Depth: 9740 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 796 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.

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 #:
12/6/2011 12/29/2011 1/13/2012
Spud Date or Date Reached TD Completion Date or Recompletion Date

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)
Chloride content: 2500 ppm Fluid volume: 550 bbls
Dewatering method used: Hauled to Disposal
Location of fluid disposal if hauled offsite:
Operator Name: Oil and Gas Producers of Kansas
Lease Name: Rich #9 License #: 8061
Quarter SW Sec. 22 Twp. 32 S. R. 19 East West
County: Comanche Permit #: 8061

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: 08/27/2012
Confidential Release Date:
Wireline Log Received
Geologist Report Received
UIC Distribution
ALT I II III Approved by: NAOMI JAMES Date: 08/29/2012



1089009

Operator Name: Reeder Operating LLC Lease Name: BROWN-TODD Well #: 1-7H
 Sec. 7 Twp. 32 S. R. 17 East West County: Comanche

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 checked="" type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: Array Induction Spectral Density Dual Spaced Neutron Gr	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">Name</td> <td style="width:20%;">Top</td> <td style="width:20%;">Datum</td> </tr> <tr> <td>Mississippian</td> <td>5218</td> <td>2076</td> </tr> </table>	Name	Top	Datum	Mississippian	5218	2076
Name	Top	Datum					
Mississippian	5218	2076					

CASING RECORD <input checked="" 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
Surface	12.25	9.625	36	796	A	350	6% Gel, 2% Call
Intermediate	8.75	7	26	5604	H	350	4% Gel, 0.4% C-12
Production	6.125	4.5	11.6	9740	H	510	4% Gel, 0.4% C-12

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 (Amount and Kind of Material Used)	Depth
	See Attached Schematic		

TUBING RECORD: Size: <u>2 7/8"</u> Set At: <u>5540</u> Packer At: <u>4889</u> Liner Run: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Date of First, Resumed Production, SWD or ENHR. <u>1/13/2012</u>	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input checked="" type="checkbox"/> Gas Lift <input checked="" type="checkbox"/> Other (Explain) <u>Well Sl. Waiting on drilling of SWD</u>
Estimated Production Per 24 Hours	Oil Bbls. Gas Mcf Water Bbls. Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input checked="" 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 checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. (Submit ACO-5) <input type="checkbox"/> Commingled (Submit ACO-4) <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: <u>5739 - 9603</u>
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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 Wentz
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 Wentz

JOB SUMMARY			PROJECT NUMBER SOK1038	TICKET DATE 12/09/11
COUNTY Comanche	STATE Kansas	COMPANY Reader Operating, LLC	CUSTOMER REP Tommy Whitlow	
LEASE NAME Brown-Todd	WELL NO. 1-7H	JOB TYPE Surface	EMPLOYEE NAME Matt Wilson	

EMP NAME Matt Wilson					
Johnny Broeze					
David Settlemier					
David Thomas					

Form. Name _____ Type: _____
 Packer Type _____ Set At **0**
 Bottom Hole Temp. **87 F** Pressure _____
 Retainer Depth _____ Total Depth **860'**

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

Tools and Accessories

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

Well Data

Now/Used	Weight	Size	Grade	From	To	Max Allow
Casing	36.0	8 5/8"		Surface	797	1,000
Liner						
Liner						
Tubing		0				
Drill Pipe						
Open Hole		12 1/4"	Surface	788		Shots/Fl.
Perforations						
Perforations						
Perforations						

Materials

WBM	Density	#	Lb/Gal
Disp. Fluid	Fresh Water	Density	8.33
Spacer type	Fresh Water	BBL	10
Spacer type	BBL		8.33
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

Date	Hours
12/9	4.0
Total	4.0

Operating Hours

Date	Hours
12/9	4.0
Total	4.0

Description of Job
Surface

Perfor. Bails _____ Qty. _____
 Other _____
 Other _____
 Other _____
 Other _____

Pressures

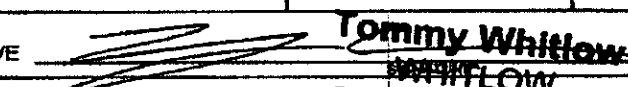
MAX	1,000 PSI	AVG.	200
Average Rates in BPM			
MAX	8 BPM	AVG.	5
Cement Left in Pipe			
Feet	40	Reason	SHOE JOINT

Cement Data

Stage	Sacks	Cement	Additives	W/Rq	Yield	Lbs/Gal
1	170	O-Tex Lite Standard	(6%Gal) 2% Calcium Chloride - 1/4 lb/sk Cellulose -	0.6% C-41P	10.88	1.84
2	180	Standard	2% Calcium Chloride - 1/4 lb/sk Cellulose	0	8.20	1.18
3	0	0		0	0.00	0.00

Summary

Preflush	Type: _____	10.00	Type: FRESH WATER
Breakdown	MAXIMUM	1,000 PSI	Pad:Bbl - Gal
	Lost Returns	NO/FULL	Calc. Disp Bbl
	Actual TOC	SURFACE	Actual Disp.
Average	Bump Plug PSI:	Final Circ. PSI:	Disp:Bbl
ISP	5 Min. 10 Min. 15 Min.	Cement Slurry BBI	83.5
		Total Volume BBI	161.84

CUSTOMER REPRESENTATIVE  **Tommy Whitlow**
WHITFLOW CONSULTING LLC

JOB SUMMARY					PROJECT NUMBER	TICKET DATE
COUNTY Comanche		STATE Kansas	COMPANY Reeder Operating, LLC		SOK1063	12/18/11
BASE NAME Brown-Todd		WELL NO. 1-7H	JOB TYPE Intermediate		CUSTOMER REP Troll Freeman / Tommy Whitt	
FOUR NAME Chris Bigbey					LOG SHEET NAME C Bigbey	
FIVE NAME Jared Green						
SIX NAME Larry Kirchner Sr.						
SEVEN NAME Rocky Anthis						
Form Name		Type				
Packer Type		Set At		0		
Bottom Hole Temp.		Pressure		0		
Retainer Depth		Total Depth		6613		
Tools and Accessories						
Type and Size	Qty	Make	Weight	Size	Grade	From
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				
Texaco Pattern Guide Shoe	0	IR				
Cement Basket	0	IR				
Well Data						
Date	Called Out	On Location	Job Started	Job Completed		
12/18/2011	1200	1500	2038	2141		
	New/Used	Weight	Size	Grade	From	To
Casing		28.0	7		Surface	5,604
Liner						
Tubing			6			
Drill Pipe						
Open Hole			8 3/4		Surface	5,613
Perforations						Shots/Ft.
Perforations						
Perforations						
Hours On Location						
Date	Hours	Description of Job				
12/18	8.0	Intermediate				
Total	8.0					
Operating Hours						
Date	Hours	Description of Job				
12/18	1.2					
Total	1.2					
Pressures						
MAX	3500	AVG	400			
Average Rates in BPM						
MAX	10	AVG	6			
Feet	39	Cement Left in Pipe	Reason	Shoe Jt.		
Cement Data						
Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	380	50/50 Poz Premium	(4%Gel) - 0.4%C-12(Fluid Loss) - 0.1%C37(Dispersant) - 1Lbskt PhenoBee	6.77	1.44	13.80
2	0	0	0	0.00	0.00	0.00
3	0	0	0	0.00	0.00	0.00
Summary						
Preflush Breakdown	20	Type: MAXIMUM	Water: 3,500	Preflush: BBI	10.00	Type: Caustic
Average	5 Min.	10 Min.	15 Min.	Load & Bkdn: Gal - BBI		Ped: Bbl - Gal
				Excess /Return BBI		Calc. Disp Bbl
				Calc. TOC: 3.957		Actual Disp. 185.00
				Treatment: Gal - BBI		Disp: Bbl 212.50
				Cement Slurry: BBI	89.8	
				Total Volume: BBI	284.80	
CUSTOMER REPRESENTATIVE				<i>Tommy Whitt</i> SIGNATURE		

JOB SUMMARY				PROJECT NUMBER	TICKET DATE
COUNTY Comanche		STATE Oklahoma	COMPANY Reeder Operating, LLC	SOK1088	12/29/11
LEAD NAME Brown-Todd		WELL NO. 1-7H	JOB TYPE Liner	CUSTOMER REP Edward Norvell	
EMPLOYEE Matt Wilson		EMPLOYEE SIGNATURE Matt Wilson			
FORM NAME		TYPE			
Packer Type		Set At 6,615'			
Bottom Hole Temp. 180		Pressure			
Retainer Depth		Total Depth 9770			
Tools and Accessories		Well Data			
Type and Size	Qty	Mets	Called Out	On Location	Job Started
Auto Fill Tube	0	Weatherford	12/29/2011	12/29/2011	12/30/2011
Inert Float Val	0				
Centralizers	0				
Top Plug	0				
HEAD	0				
Limit clamp	0				
Weld-A	0				
Texas Pattern Guide Shoe	0				
Cement Header	0				
Mud Type	Wt/Density	U/Gal	Date	Time	Job Completed
Dispo. Fluid	Fresh Water Density 8.33	Lb/Gal	12/29/2011	3:00 pm	12:02 am
Spacer type	resh Water BBL 20	Lb/Gal	12/30		3:00 am
Spacer type	Caustic BBL 10	Lb/Gal			
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					
Other					
Other					
Hours On Location		Operating Hours		Description of Job	
Date	Hours	Date	Hours	Liner	
12/29	9.0	12/30	4.0		
12/30	3.0				
Total	12.0	Total	4.0		
Pressures		Average Rates in BPM			
MAX	5,000 PSI	AVG.	300		
MAX	8 BPM	AVG.	5		
Feet	94	Cement Left in Pipe Reason SHOE JOINT			
Cement Data					
Stacks	Sacks	Cement	Additives	W/Rq.	Yield
1	610	50/50 Premium Poz	(4%Gel) - 4% C12 - 1% C37 - 8.6% C-41P - 2 LbsK Phenoseal	0	0.00
2	0	0		0	0.00
3	0	0		0	0.00
Summary					
Preflush Breakdown	10.0	Type: Caustic	Preflush: BBI	20.00	Type: Fresh Water
		MAXIMUM 3,500 PSI	Load & Bldn: Gal - BBI	N/A	Pack Bbl - Gal N/A
		Lost Returns: N/A	Excess / Return BBI	N/A	Calc. Disp Bbl 108
		Actual TOC 8.137	Calc. TOC: BBI	5.182	Actual Disp. 108.00
Average sp	5 Min.	Bump Plus PSI: 15 Min.	Final Circ. PSI:	280	Disp: Bbl
			Cement Slurr: BBI	18.9	
			Total Volume BBI	264.60	
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	Inc	Azi	TVD	North	East	V'Sect	D'Leg	Build	Turn
ft	deg	deg	ft	ft	ft	ft	°/100	°/100	°/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°

APB1
1578-0100

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 0'HD. ELECTRIC LINE & FENCE 160'S. OF LOC.

200' x 300' TRACT

CRP GRASS

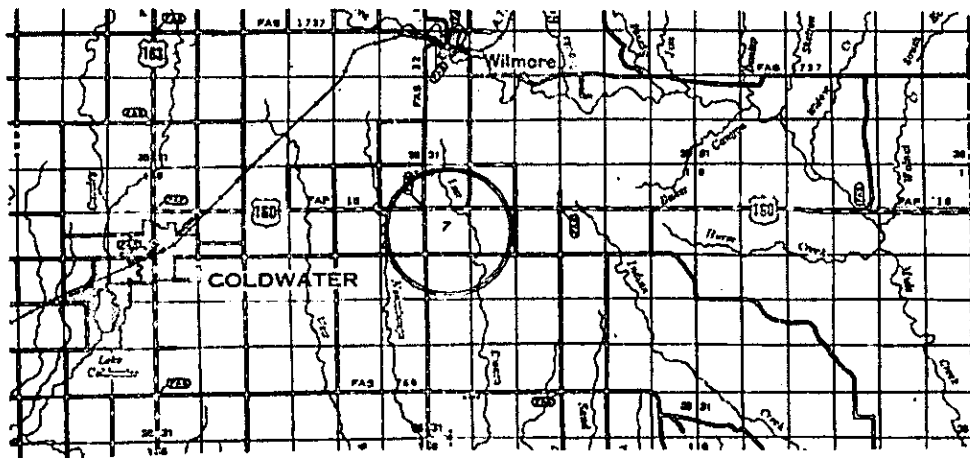
GRAVEL

ROAD

GATE (OPEN)



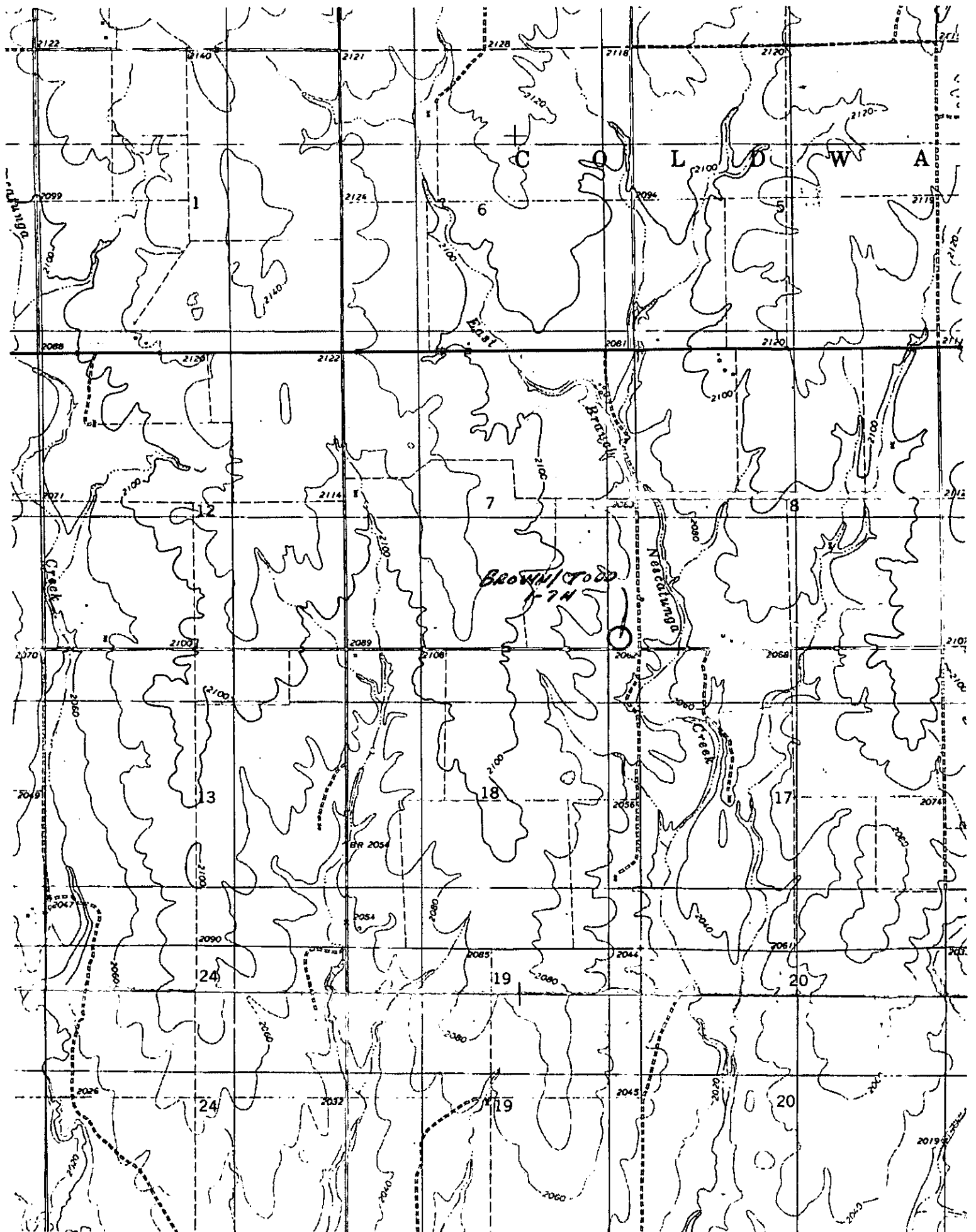
Ingress and egress to location as shown on this plat is for usage only and may not be legally opened for public use. Contact landowner, tenant and county road department for access.



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 standards 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 hold entities released from any liability from incidental or consequential damages.
Elevations derived from National Geodetic Vertical Datum.

Date September 14, 2011

CENTRAL KANSAS OILFIELD SERVICES, INC. (620)792-1977



XY:
Feet

1792900



BHL:340' FNL
&395 FEL

224000

PELICAN HILL O&G INC. \neq
BROWN

REEDER OPERATING LLC
Brown-Todd
9740

224000

GRAHM-MICHEALS
BROWN
5220

HILL O&G INC. \neq
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	