



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1092496  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed  
Form must be Signed  
All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

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
- Plug Back       Conv. to GSW       Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

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

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27       NAD83       WGS84

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

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

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

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

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

Total Vertical 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

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



1092496

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

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

**INSTRUCTIONS:** Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to [kcc-well-logs@kcc.ks.gov](mailto:kcc-well-logs@kcc.ks.gov). Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

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  List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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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
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
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Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Ruby 3119 2-20H
Doc ID	1092496

All Electric Logs Run

5in MD- ML-HZ Final
Final Boresight Depiction
CML Messenger Shuttle Array Induction Shallow Focused Electric Log
CML Messenger Shuttle Compact Photo Density Dual Spaced Neutron Log

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Ruby 3119 2-20H
Doc ID	1092496

#### Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	9148-9484	4251 bbls water, 36 bbls acid, 75M lbs sd, 4302 TLTR	
5	8846-9100	4254 bbls water, 36 bbls acid, 75M lbs sd, 8588 TLTR	
5	8320-8700	4224 bbls water, 36 bbls acid, 76M lbs sd, 12844 TLTR	
5	7938-8234	4217 bbls water, 36 bbls acid, 73M lbs sd, 17093 TLTR	
5	7551-7852	4485 bbls water, 36 bbls acid, 75M lbs sd, 21612 TLTR	
5	7084-7426	4433 bbls water, 36 bbls acid, 75M lbs sd, 26078 TLTR	
5	6588-7002	4247 bbls water, 36 bbls acid, 75M lbs sd, 30357 TLTR	
5	6252-6500	4281 bbls water, 36 bbls acid, 76M lbs sd, 34670 TLTR	
5	5806-6180	4593 bbls water, 36 bbls acid, 75M lbs sd, 39295 TLTR	
5	5455-5734	4007bbls water, 36 bbls acid, 80M lbs sd, 38713 TLTR	

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Ruby 3119 2-20H
Doc ID	1092496

### Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Conductor	24	20	75	120	Koda Services Grout	12	none
Surface	17.5	13.37	68	280	O-Tex Lite Premium Plus 65/ Premium Plus (Class C)	320	(6% Gel) 2% calcium Chloride, 1/4 pps Cello-Flake, .5% C-41P
Intermediate 1	12.25	9.63	36	1050	O-Tex Lite Premium Plus 65/ Premium Plus (Class C)	535	(6% Gel) 2% Calcium Chloride, 1/4 pps Cello-Flake, .5% c-41p
Intermediate 2	8.75	7	26	5603	50/50 Poz Premium/ Premium	300	4% Gel, .4% C-12, .1% C-37, .5% C-41P, 2 lb/sk Phenoseal

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Ruby 3119 2-20H
Doc ID	1092496

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Liner	6.12	4.5	11.6	9600	50/50 Premium Poz	475	4% Gel, .4% C12, .1% C37, .5% C-41P, 2 lb/sk Phenoseal

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  
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

November 19, 2012

Tiffany Golay  
SandRidge Exploration and Production LLC  
123 ROBERT S. KERR AVE  
OKLAHOMA CITY, OK 73102-6406

Re: ACO1  
API 15-033-21661-01-00  
Ruby 3119 2-20H  
NE/4 Sec.20-31S-19W  
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,  
Tiffany Golay

# Koda Services, Inc.

# INVOICE

Conductor and Rat Hole Drilling, Landfill Gas Drilling and Well Construction Nationwide

Date	Invoice #
8/22/2012	10035

Bill To
Sandridge Energy Accounts Payable P O Box 1748 Oklahoma City, OK 73102

Legal Description	Ordered By	Terms	Field Ticket	Lease Name	Drill Rig
	Emil Fahrig	Net 30	7584	Ruby 31-19-2-28	Lariat 45
Item	Quantity	Description			
Conductor	130	Drilled 130' of 32" hole for conductor			
20" Pipe	130	Furnished 130' of 20" conductor pipe			
Ream Hole		Ream Hole			
72" X 6'	1	Furnished 6' X 6' tinhorn			
Dirt Removal		Provided Labor and Equipment for dirt removal and cleanup			
Mud/Water		Furnished Mud, Water, & Trucking			
Welder		Welder			
Grout		Furnished grout			
Deliver Grout		Deliver grout to location			
Equipment		Furnished Grout Pump & Flush			
Mouse	80	Drilled 80' of 26" Mouse hole			
16" pipe	80	Furnished 80' of 16" Mouse Hole Pipe			
Cover Plate		Cover Plate			
AFE Number: <u>OC 12314</u> Well Name: <u>Ruby 3119 2-2011</u> Code: <u>850-010</u> Amount: <u>28,041.83</u> Co. Man: <u>Claude Hallmark</u> Co. Man Sig: <u>Claude Hallmark</u> Notes: _____					

Thank you for your business.	<b>Subtotal</b>	\$27,300.00
	<b>Sales Tax (6.3%)</b>	\$741.83
	<b>Total</b>	\$28,041.83



# JOB SUMMARY

<b>PROJECT NUMBER</b> <b>SOK 1782</b>		<b>TICKET DATE</b> <b>08/19/12</b>	
<b>COUNTY</b> <b>Comanche</b>		<b>STATE</b> <b>Kansas</b>	
<b>COMPANY</b> <b>Bridge Exploration &amp; Produc</b>		<b>CUSTOMER REP</b> <b>Claude Hallmark</b>	
<b>LEAD NAME</b> <b>Ruby</b>		<b>EMPLOYEE NAME</b> <b>Matt Wilson</b>	
<b>WELL NO.</b> <b>1119 2-20</b>		<b>JOB TYPE</b> <b>Surface</b>	

<b>EMP NAME</b> Matt Wilson	frank				
Jared Green					
Marcos Quintana					
vontray					

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

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

Bottom Hole Temp. \_\_\_\_\_ 80 \_\_\_\_\_ Pressure \_\_\_\_\_

Retainer Depth \_\_\_\_\_ Total Depth \_\_\_\_\_ 300 \_\_\_\_\_

Date	Called Out	On Location	Job Started	Job Completed
	8/20/2012	8/20/2012	8/21/2012	8/21/2012
Time	3:00 pm	10:00 pm	3:49 am	6:00 am

**Tools and Accessories**

Type and Size	Qty	Make
Auto Fill Tube	0	IR
Insert Float Val	0	IR
Centralizers	0	IR
Top Plug	1	IR
HEAD	1	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		68.0	13 3/8		Surface	280	1,500
Liner							
Liner							
Tubing			0				
Drill Pipe							
Open Hole			17 1/2"		Surface	280	Shots/Ft.
Perforations							
Perforations							
Perforations							

**Materials**

Mud Type	WBM	Density	9	Lb/Gal
Disp. Fluid	Fresh Water	Density	8.33	Lb/Gal
Spacer type	resh 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		

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

Other \_\_\_\_\_

Other \_\_\_\_\_

Other \_\_\_\_\_

Other \_\_\_\_\_

**Hours On Location**

Date	Hours
8/20	2.0
8/21	6.0
Total	8.0

**Operating Hours**

Date	Hours
8/21	4.0
Total	4.0

**Description of Job**  
Surface

**Pressures**

MAX 1,500 PSI	AVG. 100
MAX 6 BPM	AVG 5

**Average Rates in BPM**

Feet 43      Cement Left in Pipe Reason SHOE JOINT

**Cement Data**

Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	200	EX Lite Premium Plus 65	(6% Gel) 2% Calcium Chloride - 1/4pps Cello-Flake - .5% C-41P	10.88	1.84	12.70
2	120	Premium Plus (Class C)	1% Calcium Chloride - 1/4pps Cello-Flake	6.32	1.32	14.80
3	0	0		0	0.00	0.00

**Summary**

Preflush Breakdown	Type: _____	MAXIMUM _____ 1,500 PSI	Preflush: BBI _____ 10.00	Type: Fresh Water
	Lost Returns-N _____ NO/FULL	Actual TOC _____ SURFACE	Load & Bkdn: Gal - BBI _____ N/A	Pad:Bbl -Gal _____ N/A
	Bump Plug PSI: _____	Final Circ. PSI: _____ 100	Excess /Return BBI _____ 36	Calc. Disp Bbl _____ 36
Average _____ 5 Min. _____ 10 Min. _____ 15 Min. _____		Cement Slurry: BBI _____ 94.0	Calc. TOC: _____ SURFACE	Actual Disp. _____ 36.00
		Total Volume BBI _____ 140.00	Disp:Bbl _____	

CUSTOMER REPRESENTATIVE Claude Hallmark SIGNATURE

<b>JOB SUMMARY</b>			PROJECT NUMBER <b>SOK 1791</b>	TICKET DATE <b>08/22/12</b>
COUNTY <b>Comanche</b>	State <b>Kansas</b>	COMPANY <b>Bridge Exploration &amp; Produc</b>	CUSTOMER REP <b>Claude Hallmark</b>	
LEASE NAME <b>Ruby</b>	Well No. <b>1119 2-201</b>	JOB TYPE <b>Surface</b>	EMPLOYEE NAME <b>Johnny Breeze</b>	

EMP NAME <b>Johnny Breeze</b>	<b>Daniel Wells</b>				
<b>Scott Woods</b>					
<b>Flo Helkena</b>					
<b>David Settlemier</b>					

Form. Name \_\_\_\_\_ Type: \_\_\_\_\_  
 Packer Type \_\_\_\_\_ Set At **0**  
 Bottom Hole Temp. **80** Pressure \_\_\_\_\_  
 Retainer Depth \_\_\_\_\_ Total Depth **1050**

Date	Called Out <b>8/21/2012</b>	On Location <b>8/22/2012</b>	Job Started <b>8/22/2012</b>	Job Completed <b>8/22/2012</b>
Time	<b>2000</b>	<b>0700</b>	<b>1902</b>	<b>2030</b>

Type and Size	Qty	Make
Auto Fill Tube	0	IR
Insert Float Val	0	IR
Centralizers	0	IR
Top Plug	1	IR
HEAD	1	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	36.0	9 5/8		Surface	1,055	1,500
Liner						
Liner						
Tubing		0				
Drill Pipe						
Open Hole		12 1/4"		Surface	1,050	Shots/Ft.
Perforations						
Perforations						
Perforations						

Materials			
Mud Type	WBM	Density	0
Disp. Fluid	Fresh Water	Density	8.33
Spacer type	resh Water	BBL.	10
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			
Other			

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
8/22	13.0	8/22	4.0	Surface
Total	13.0	Total	4.0	

Pressures	
MAX 1,500 PSI	AVG. 200
MAX 6 BPM	Average Rates in BPM
	AVG 5.5
Feet 46	Cement Left in Pipe
	Reason SHOE JOINT

Cement Data						
Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	285	EX Lite Premium Plus 65	(6% Gel) 2% Calcium Chloride - 1/4pps Cello-Flake - .5% C-41P	10.88	1.84	12.70
2	150	Premium Plus (Class C)	1% Calcium Chloride - 1/4pps Cello-Flake	6.32	1.32	14.80
3	*100	*Premium Plus (Class C)	*2% Calcium Chloride on side to use if necessary	*6.32	*1.32	*14.8

Summary			
Preflush Breakdown	Type: _____	Preflush: BBI	10.00
	MAXIMUM	Load & Bkdn: Gal - BBI	N/A
	Lost Returns-N	Excess /Return BBI	60
	Actual TOC	Calc. TOC:	SURFACE
Average	Bump Plug PSI: 1,090	Final Circ. PSI:	400
ISIP 5 Min.	10 Min	Cement Slurry: BBI	128.7
	15 Min	Total Volume	216.73

CUSTOMER REPRESENTATIVE *Claude Hallmark* SIGNATURE

<b>JOB SUMMARY</b>			PROJECT NUMBER <b>SOK 1818</b>	TICKET DATE <b>08/28/12</b>
COUNTY <b>Comanche</b>	State <b>Kansas</b>	COMPANY <b>Sandridge Exploration &amp; Production</b>	CUSTOMER REP <b>Claude Hallmark</b>	
LEASE NAME <b>Ruby</b>	Well No. <b>1119 2-201</b>	JOB TYPE <b>Intermediate</b>	EMPLOYEE NAME <b>Johnny Breeze</b>	

EMP NAME	<b>Johnny Breeze</b>	<b>David Settlemier</b>					
	<b>Scott woods</b>						
	<b>Cheryl Newton</b>						
	<b>Flo Helkena</b>						

Form. Name \_\_\_\_\_ Type: \_\_\_\_\_  
Packer Type \_\_\_\_\_ Set At **4,286**  
Bottom Hole Temp. **165** Pressure \_\_\_\_\_  
Retainer Depth \_\_\_\_\_ Total Depth **5637**

Date	Called Out <b>8/27/2012</b>	On Location <b>8/28/2012</b>	Job Started <b>8/28/2012</b>	Job Completed <b>8/28/2012</b>
Time	<b>1200</b>	<b>0100</b>	<b>1725</b>	<b>1930</b>

Tools and Accessories

Type and Size	Qty	Make
Auto Fill Tube	0	IR
Insert Float Val	0	IR
Centralizers	0	IR
Top Plug	1	IR
HEAD	1	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#	7"		Surface	6,603	5,000
Liner							
Liner							
Tubing			0				
Drill Pipe							
Open Hole			8 3/4"		Surface	5,637	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.		20	8.33
Spacer type	Caustic BBL.		10	8.40
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	
8/28	18.0	8/28	4.0	Intermediate
Total	18.0	Total	4.0	

Pressures		MAX	5,000 PSI	AVG.	400
Average Rates in BPM		MAX	8 BPM	AVG	5.5
Cement Left in Pipe		Feet	90	Reason	SHOE JOINT

Cement Data

Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	200	50/50 POZ PREMIUM	4% Gel - 0.4% C-12 - 0.1% C-37 - 0.5% C-41P - 2 lb/sk Phenoseal	6.77	1.44	13.60
2	100	Premium	0.4% C-12 - 0.1% C-37	5.20	1.18	15.60
3	0	0		0	0.00	0.00

Summary

Preflush Breakdown	Type: _____	MAXIMUM _____	5,000 PSI	Preflush: BBI _____	30.00	Type: WEIGHTED SP.
	Lost Returns-N _____	NO/FULL		Load & Bkdn: Gal - BBI _____	N/A	Pad:Bbl -Gal _____
	Actual TOC _____	3,765		Excess /Return BBI _____	N/A	Calc.Disp Bbl _____
Average	Bump Plug PSI: _____	1,600		Calc. TOC: _____	3,765	Actual Disp. _____
ISIP _____ 5 Min.	10 Min _____	15 Min _____		Final Circ. PSI: _____	1,020	Disp:Bbl _____
				Cement Slurry: BBI _____	723	
				Total Volume BBI _____	313.46	

CUSTOMER REPRESENTATIVE *Claude Hallmark* SIGNATURE

<b>JOB SUMMARY</b>			PROJECT NUMBER <b>SOK 1832</b>	TICKET DATE <b>09/03/12</b>
COUNTY <b>Comanche</b>	State <b>Kansas</b>	COMPANY <b>Bridge Exploration &amp; Produc</b>	CUSTOMER REP <b>Jessie New</b>	
LEASE NAME <b>Ruby</b>	Well No. <b>1119 2-20</b>	JOB TYPE <b>Liner</b>	EMPLOYEE NAME <b>Robert Burris</b>	

EMP NAME	Robert Burris	Wallace Berry			
	Bryan Douglas	Vontrey			
	Rocky Anthis				
	Jessie McClain				

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

Packer Type \_\_\_\_\_ Set At **5,603**

Bottom Hole Temp. **150** Pressure \_\_\_\_\_

Retainer Depth \_\_\_\_\_ Total Depth **9600**

Date	Called Out <b>9/3/2012</b>	On Location <b>9/3/2012</b>	Job Started <b>9/3/2012</b>	Job Completed <b>9/3/2012</b>
Time	<b>05:30</b>	<b>08:30</b>	<b>12:49</b>	<b>14:14</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	Grado	From	To
Casing		11.6	4 1/2		5322	9,600
Liner Tool						
HWDP					3,929	5,322
Drill Pipe			3 1/2"		Surface	3,929
Drill Collars						
Open Hole			6 1/8"		Surface	9,600
Perforations						Shots/Ft.
Perforations						
Perforations						

Materials				
Mud Type	WBM	Density	9.1	Lb/Gal
Disp. Fluid	Fresh Water	Density	<b>8.33</b>	Lb/Gal
Spacer type	Gel	BBL.	<b>20</b>	<b>8.59</b>
Spacer type		BBL.		
Acid Type		Gal.		%
Acid Type		Gal.		%
Surfactant		Gal.		ln
NE Agent		Gal.		ln
Fluid Loss		Gal/Lb		ln
Gelling Agent		Gal/Lb		ln
Fric. Red.		Gal/Lb		ln
MISC.		Gal/Lb		ln
Perpac Balls		Qty.		
Other				
Other				
Other				
Other				

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
9/3	6.0	9/3	1.5	Liner
Total	6.0	Total	1.5	

MAX 5000 PSI		AVG 875	
MAX 6 BPM		AVG 4.5	
Feet 85		Reason SHOE JOINT	

Cement Data						
Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	475	50/50 Premium Poz	(4%Gel) - .4% C12 - .1% C37 - 0.6% C-41P - 2 Lb/Sk Phenoseal			
2	0	0		0	0.00	0.00
3	0	0		0	0.00	0.00

Summary					
Preflush Breakdown	Type: _____	MAXIMUM _____	5000 PSI	Preflush: BBI _____	20.00
	Lost Returns-N _____	NO/FULL _____		Load & Bkdn: Gal - BBI _____	N/A
	Actual TOC _____	5,243		Excess /Return BBI _____	N/A
Average	Bump Plug PSI: _____	1,750		Calc. TOC: _____	5,243
ISIP _____ 5 Min.	10 Min _____	15 Min _____		Final Circ. PSI: _____	700
				Cement Slurry: BBI _____	122.0
				Total Volume BBI _____	258.00

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



Standard Wellpath Report  
 Sandridge  
 Sec 20 - 31S - 19W, Kansas  
 Comanche County  
 Wellbore: Ruby 3119 2-20H (Actual)

**Wellbore**

Name	Created	Last Revised
Ruby 3119 2-20H (Actual)	16-Aug-2012	4-Sep-2012

**Well**

Name	Government ID	Last Revised
Ruby 3119 2-20H		16-Aug-2012

**Slot**

Name	Grid Northing	Grid Easting	Latitude	Longitude	North	East
Ruby 3119 2-20H	245517.0000	1736440.0000	N37 20 14.7512	W99 24 23.5005	185.00S	1883.03W

**Installation**

Name	Easting	Northing	Coord System Name	North Alignment
Comanche County	1738323.0000	245702.0001	KS-S on NORTH AMERICAN DATUM 1927 datum	Grid

**Field**

Name	Easting	Northing	Coord System Name	North Alignment
Sec 20 - 31S - 19W	1738323.0000	245702.0001	KS-S on NORTH AMERICAN DATUM 1927 datum	Grid

Created By

Comments
FINAL surveys MD 9600 is a projection to bit @ TD



Standard Wellpath Report  
Sandridge  
Sec 20 - 31S - 19W, Kansas  
Comanche County  
Wellbore: Ruby 3119 2-20H (Actual)

**Wellpath (Grid) Report**

MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	Easting	Northing
0.00	0.00	0.000	0.00	0.00N	0.00E		0.00	1736440.00	245517.00
1249.00	0.50	204.500	1248.98	4.96S	2.26W	0.04	5.04	1736437.74	245512.04
1722.00	0.70	332.800	1721.97	4.27S	4.44W	0.23	4.43	1736435.56	245512.73
2200.00	0.90	333.900	2199.92	1.70N	7.42W	0.04	-1.41	1736432.58	245518.70
2679.00	0.60	336.700	2678.88	7.38N	10.07W	0.06	-6.99	1736429.93	245524.38
3154.00	0.80	23.800	3153.85	12.70N	9.72W	0.12	-12.32	1736430.28	245529.70
3629.00	0.60	75.700	3628.82	16.35N	5.97W	0.13	-16.11	1736434.03	245533.35
4198.00	0.40	34.000	4197.80	18.73N	1.97W	0.07	-18.64	1736438.03	245535.73
4263.00	0.60	71.700	4262.80	19.03N	1.52W	0.58	-18.95	1736438.48	245536.03
4295.00	1.30	164.500	4294.79	18.73N	1.26W	4.56	-18.67	1736438.74	245535.73
4326.00	3.30	175.300	4325.77	17.50N	1.10W	6.57	-17.45	1736438.90	245534.50
4358.00	5.70	180.700	4357.67	14.99N	1.04W	7.61	-14.94	1736438.96	245531.99
4390.00	7.30	180.200	4389.46	11.37N	1.07W	5.00	-11.32	1736438.93	245528.37
4421.00	8.70	180.700	4420.16	7.06N	1.10W	4.52	-7.01	1736438.90	245524.06
4453.00	10.40	180.500	4451.71	1.75N	1.16W	5.31	-1.70	1736438.84	245518.75
4485.00	12.50	181.000	4483.07	4.60S	1.24W	6.57	4.65	1736438.76	245512.40
4516.00	14.90	179.900	4513.19	11.94S	1.29W	7.79	11.98	1736438.71	245505.06
4548.00	17.00	179.800	4543.96	20.74S	1.27W	6.56	20.77	1736438.73	245496.26
4580.00	19.30	181.200	4574.36	30.70S	1.37W	7.32	30.73	1736438.63	245486.30
4611.00	21.20	181.400	4603.45	41.43S	1.61W	6.13	41.46	1736438.39	245475.57
4643.00	23.40	181.400	4633.05	53.57S	1.91W	6.88	53.60	1736438.09	245463.43
4675.00	25.40	182.900	4662.19	66.78S	2.41W	6.54	66.82	1736437.59	245450.23
4707.00	26.80	184.500	4690.93	80.82S	3.32W	4.90	80.89	1736436.68	245436.18
4738.00	28.80	185.000	4718.35	95.23S	4.52W	6.50	95.33	1736435.48	245421.77
4770.00	31.10	184.100	4746.07	111.15S	5.78W	7.32	111.29	1736434.22	245405.85
4801.00	34.20	182.800	4772.17	127.85S	6.78W	10.25	128.01	1736433.22	245389.16
4833.00	37.10	182.000	4798.17	146.48S	7.56W	9.18	146.66	1736432.44	245370.52
4865.00	39.20	181.900	4823.34	166.23S	8.23W	6.57	166.43	1736431.77	245350.77
4897.00	41.10	181.400	4847.79	186.86S	8.82W	6.02	187.06	1736431.18	245330.15
4928.00	43.00	181.100	4870.81	207.61S	9.28W	6.16	207.82	1736430.72	245309.39
4960.00	44.70	180.900	4893.89	229.78S	9.66W	5.33	229.98	1736430.34	245287.23
4992.00	46.80	181.400	4916.22	252.69S	10.12W	6.66	252.90	1736429.88	245264.31
5023.00	48.70	182.000	4937.06	275.63S	10.81W	6.29	275.84	1736429.19	245241.38
5055.00	49.30	182.400	4958.05	299.76S	11.73W	2.10	299.99	1736428.27	245217.24
5087.00	49.40	182.200	4978.90	324.02S	12.71W	0.57	324.27	1736427.29	245192.98
5118.00	49.50	182.000	4999.05	347.56S	13.57W	0.59	347.82	1736426.43	245169.45
5150.00	49.60	182.200	5019.81	371.89S	14.46W	0.57	372.18	1736425.54	245145.11
5182.00	49.80	181.500	5040.51	396.29S	15.25W	1.78	396.58	1736424.75	245120.72
5213.00	50.00	181.800	5060.48	419.99S	15.93W	0.98	420.29	1736424.07	245097.02
5245.00	51.60	182.500	5080.70	444.77S	16.87W	5.28	445.09	1736423.13	245072.24
5277.00	55.10	182.200	5099.80	470.42S	17.92W	10.96	470.76	1736422.08	245046.59
5309.00	59.10	182.200	5117.18	497.26S	18.95W	12.50	497.62	1736421.05	245019.75
5340.00	62.00	182.400	5132.42	524.23S	20.03W	9.37	524.61	1736419.97	244992.78
5372.00	62.80	183.200	5147.25	552.55S	21.42W	3.34	552.97	1736418.58	244964.46
5404.00	64.50	183.700	5161.45	581.18S	23.14W	5.49	581.64	1736416.86	244935.83
5435.00	66.80	183.700	5174.23	609.36S	24.97W	7.42	609.87	1736415.03	244907.65
5467.00	70.60	183.200	5185.85	639.11S	26.76W	11.96	639.67	1736413.24	244877.90
5499.00	75.00	182.700	5195.31	669.63S	28.33W	13.83	670.23	1736411.67	244847.38
5530.00	78.90	182.000	5202.31	699.80S	29.57W	12.77	700.42	1736410.43	244817.21
5562.00	81.70	182.100	5207.70	731.32S	30.69W	8.76	731.96	1736409.31	244785.69
5582.00	83.20	181.800	5210.33	751.13S	31.37W	7.65	751.78	1736408.63	244765.88
5630.00	86.20	181.500	5214.76	798.90S	32.75W	6.28	799.57	1736407.26	244718.11
5662.00	88.60	180.900	5216.21	830.86S	33.41W	7.73	831.53	1736406.59	244686.15
5754.00	90.80	181.500	5216.69	922.83S	35.34W	2.48	923.51	1736404.66	244594.18
5847.00	89.20	182.000	5216.69	1015.79S	38.18W	1.80	1016.50	1736401.82	244501.23
5940.00	89.10	182.200	5218.07	1108.71S	41.59W	0.24	1109.49	1736398.41	244408.30
6032.00	89.80	182.200	5218.96	1200.64S	45.12W	0.76	1201.49	1736394.88	244316.38
6124.00	90.00	182.100	5219.12	1292.58S	48.57W	0.24	1293.49	1736391.43	244224.44
6218.00	89.90	181.800	5219.20	1386.52S	51.77W	0.34	1387.49	1736388.23	244130.50
6311.00	90.60	181.400	5218.79	1479.48S	54.37W	0.87	1480.48	1736385.63	244037.54
6403.00	89.90	181.900	5218.39	1571.44S	57.02W	0.94	1572.47	1736382.99	243945.58
6497.00	88.80	181.500	5219.46	1665.40S	59.80W	1.25	1666.46	1736380.20	243851.63
6591.00	89.10	182.500	5221.18	1759.32S	63.08W	1.11	1760.45	1736376.92	243757.71
6683.00	89.70	182.000	5222.15	1851.24S	66.70W	0.85	1852.44	1736373.31	243665.78
6776.00	89.20	181.900	5223.04	1944.19S	69.86W	0.55	1945.43	1736370.14	243572.84
6870.00	89.20	182.700	5224.35	2038.10S	73.63W	0.85	2039.42	1736366.37	243478.93
6963.00	90.10	182.400	5224.92	2131.01S	77.77W	1.02	2132.42	1736362.23	243386.03
7055.00	90.20	182.500	5224.68	2222.92S	81.70W	0.15	2224.42	1736358.30	243294.11
7150.00	90.10	182.300	5224.43	2317.84S	85.68W	0.24	2319.42	1736354.32	243199.20
7245.00	90.10	182.300	5224.26	2412.76S	89.49W	==>	2414.42	1736350.51	243104.28

All data is in Feet unless otherwise stated  
Coordinates are from Slot MD's are from Slot and TVD's are from Slot ( Ruby 3119 2-20H 0.00ft above Mean Sea Level )  
Vertical Section is from 0.00N 0.00E on azimuth 182.200 degrees  
Bottom hole distance is 4767.98 Feet on azimuth 182.09 degrees from Wellhead  
Calculation method uses Minimum Curvature method  
Prepared by  
Date Printed: 4-Sep-2012



Standard Wellpath Report  
 Sandridge  
 Sec 20 - 31S - 19W, Kansas  
 Comanche County  
 Wellbore: Ruby 3119 2-20H (Actual)

Wellpath (Grid) Report

MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	Easting	Northing
7340.00	89.40	182.300	5224.68	2507.68S	93.31W	0.74	2509.42	1736346.70	243009.36
7435.00	89.70	182.300	5225.42	2602.60S	97.12W	0.32	2604.41	1736342.88	242914.44
7530.00	91.10	182.300	5224.76	2697.52S	100.93W	1.47	2699.41	1736339.07	242819.52
7625.00	91.70	182.300	5222.44	2792.42S	104.74W	0.63	2794.38	1736335.26	242724.63
7720.00	90.80	183.000	5220.37	2887.29S	109.13W	1.20	2889.35	1736330.87	242629.75
7816.00	89.70	183.400	5219.95	2983.14S	114.49W	1.22	2985.33	1736325.51	242533.91
7911.00	87.50	181.900	5222.27	3078.00S	118.88W	2.80	3080.29	1736321.12	242439.05
8006.00	87.80	182.000	5226.16	3172.86S	122.11W	0.33	3175.21	1736317.89	242344.18
8101.00	88.50	181.600	5229.23	3267.77S	125.10W	0.85	3270.16	1736314.91	242249.28
8196.00	88.90	182.300	5231.39	3362.69S	128.33W	0.85	3365.13	1736311.68	242154.36
8291.00	89.90	181.900	5232.38	3457.62S	131.81W	1.13	3460.13	1736308.19	242059.44
8386.00	90.80	182.000	5231.80	3552.56S	135.04W	0.95	3555.12	1736304.96	241964.49
8481.00	91.10	181.700	5230.23	3647.50S	138.11W	0.45	3650.11	1736301.90	241869.56
8576.00	91.00	182.600	5228.49	3742.41S	141.67W	0.95	3745.09	1736298.33	241774.64
8671.00	92.10	182.600	5225.92	3837.28S	145.98W	1.16	3840.05	1736294.02	241679.78
8766.00	90.40	182.800	5223.84	3932.15S	150.45W	1.80	3935.02	1736289.55	241584.91
8861.00	89.30	182.900	5224.09	4027.03S	155.18W	1.16	4030.02	1736284.83	241490.03
8956.00	90.00	182.700	5224.67	4121.91S	159.82W	0.77	4125.01	1736280.19	241395.15
9051.00	87.30	181.900	5226.91	4216.80S	163.63W	2.96	4219.97	1736276.38	241300.26
9146.00	87.50	181.000	5231.22	4311.67S	166.03W	0.97	4314.87	1736273.97	241205.40
9241.00	87.50	180.900	5235.36	4406.57S	167.60W	0.11	4409.75	1736272.40	241110.50
9336.00	88.00	180.800	5239.09	4501.48S	169.01W	0.54	4504.65	1736270.99	241015.59
9431.00	86.90	181.600	5243.32	4596.37S	171.00W	1.43	4599.54	1736269.00	240920.70
9526.00	85.10	180.600	5249.95	4691.11S	172.82W	2.17	4694.29	1736267.18	240825.96
9600.00	84.70	180.600	5256.53	4764.81S	173.59W	0.54	4767.97	1736266.41	240752.26

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 Date Printed: 4-Sep-2012



Standard Wellpath Report  
Sandridge  
Sec 20 - 31S - 19W, Kansas  
Comanche County  
Wellbore: Ruby 3119 2-20H (Actual)

**Comments**

MD[ft]	TVD[ft]	North[ft]	East[ft]	Comment
9600.00	5256.53	4764.81S	173.59W	Projection to bit @ TD

All data is in Feet unless otherwise stated  
Coordinates are from Slot MD's are from Slot and TVD's are from Slot ( Ruby 3119 2-20H 0.00ft above Mean Sea Level )  
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Section 17  
31S 19W

Section 16  
31S 19W

RUBY 3119 2-20H

ROCKENBACH 3119 1-17H

ALLEN 3119 1-21H



Miss Entry: 5163'  
-99.406956 37.33643

Top Perf: 5455'  
-99.40699 37.335696

Section 20  
31S 19W

Section 21  
31S 19W

Bottom Perf: 9148'  
-99.407346 37.325607

BHL: 9600'  
-99.407357 37.324362

382 FSL

1988' FEL

Section 29  
31S 19W

Section 28  
31S 19W



● Actual BH Location

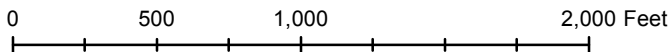
\* SandRidge Wells

--- Perf

□ Sections

Actual Bottom-Hole Location of Ruby 3119 2-20H  
Comanche County, Kansas  
T&R: 31S 19W  
Section: 20, 1988 FEL & 382' FSL  
Long/Lat: -99.407357 37.324362

1 in = 667 ft



Draftsman:

Aaron Birk

Draft Date: 11/20/2012

Drawing Name/Number:

Addendum\_Ruby\_2-20H .mxd

Coordinate System:

NAD 1927 State Plane  
Kansas South FIPS: 1502

Logo

Back to Well Completion

# Ruby 3119 2-20H (1092496)

**Actions**

View PDF
Delete
Edit
Certify & Submit
Request Confidentiality

**Attachments**

Two Year Confidentiality OPERATOR	View PDF Delete
Cement Reports OPERATOR	View PDF Delete
Directional Survey OPERATOR	View PDF Delete
As Drilled Plat OPERATOR	View PDF Delete

[Add Attachment](#)

**Remarks**

Remarks to KCC
----------------

[Add Remark](#)

**Remarks**

Tiffany Golay 12/05/012 08:47 am	Additional Fluid Mgmt Info: 280 bbls hauled to West OK Disposal, Smith Estate, Well #1, 21-23N-21W, Woodward, OK
Tiffany Golay 11/19/012 11:45 am	Conductor weight= 94 lbs/ft