Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1197412

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 # 34192
Name: SandRidge Exploration and Production LLC
Address 1: 123 ROBERT S. KERR AVE
Address 2:
City: OKLAHOMA CITY State: OK Zip: 73102 + 6406
Contact Person: Tiffany Golay
Phone: (405) 429-6543
CONTRACTOR: License # 34464
Name: Lariat Services, Inc. dba Chaparral Supply, Hondo Heavy Haul
Wellsite Geologist: Tammy Alcorn/ Hannah Thornberg
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 #:

12/12/2013	2/8/2014	3/13/2014
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-191-22714-01-00
Spot Description:
SW SW SE SW Sec. 4 Twp. 34 S. R. 4 ☐ East ☑ West
200 Feet from ☐ North / ☑ South Line of Section
1550 Feet from ☐ East / ☑ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☐ SE ☑ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Sumner
Lease Name: Barbara 3404 Well #: 1-9H
Field Name:
Producing Formation: Mississippi
Elevation: Ground: 1218 Kelly Bushing: 1197
Total Vertical Depth: 9656 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 495 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: 10000 ppm Fluid volume: 2030 bbls
Dewatering method used: Haul Off Pit

Location of fluid disposal if hauled offsite:

Operator Name: SandRidge Exploration and Production, LLC
Lease Name: Ruth 3501 1-9 License #: 34192
Quarter SW Sec. 9 Twp. 35 S. R. 4 ☐ East ☑ West
County: Sumner Permit #: 15-191-22713-00-00

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: 04/09/2014
☑ **Confidential Release Date:** 04/08/2016
☑ **Wireline Log Received**
☐ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 04/09/2014

[redacted] 1197412

Operator Name: SandRidge Exploration and Production LLC Lease Name: Barbara 3404 Well #: 1-9H

Sec. 4 Twp. 34 S. R. 4 ☐ East ☑ West County: Sumner

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. 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 ☐ Yes ☑ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:

Attached

☐ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Base Heebner	3975	
Lansing	3298	
Cottage Grove	3717	
Oswego Limestone	4122	
Cherokee Group	4291	
Verdigris Limestone	4331	
Mississippi Lime	4635	

CASING RECORD ☑ New ☐ 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
Attached	Attached	Attached	Attached	Attached	Attached	Attached	Attached

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	-			
	-			

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 *(Amount and Kind of Material Used)*	Depth
Attached	Attached	Attached	Attached

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run:
	2.87	5298		☐ 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: ☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION: ☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)* ☐ Other *(Specify)*

PRODUCTION INTERVAL:

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

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Barbara 3404 1-9H
Doc ID	1197412

All Electric Logs Run

Boresight
Porosity
Resistivity
Mud Log

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Barbara 3404 1-9H
Doc ID	1197412

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	9276-9546	1500 gals 15% HCL Acid 6221 bbls Fresh Slickwater, Running TLTR 6453 bbls	
5	9020-9188	1500 gals 15% HCL Acid 4745 bbls Fresh Slickwater, Running TLTR 11410 bbls	
5	8484-8876	1500 gals 15% HCL Acid 5274 bbls Fresh Slickwater, Running TLTR 16834 bbls	
5	8092-8398	1500 gals 15% HCL Acid 5226 bbls Fresh Slickwater, Running TLTR 21190 bbls	
5	7762-8042	1500 gals 15% HCL Acid 5292 bbls Fresh Slickwater, Running TLTR 26635 bbls	
5	7336-7648	1500 gals 15% HCL Acid 5225 bbls Fresh Slickwater, Running TLTR 32115 bbls	
5	7004-7249	1500 gals 15% HCL Acid 5382 bbls Fresh Slickwater, Running TLTR 37606 bbls	
5	6562-6906	1500 gals 15% HCL Acid 5197 bbls Fresh Slickwater, Running TLTR 42803 bbls	

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Barbara 3404 1-9H
Doc ID	1197412

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	6207-6452	1500 gals 15% HCL Acid 5099 bbls Fresh Slickwater, Running TLTR 48012 bbls	
5	5810-6133	1500 gals 15% HCL Acid 5168 bbls Fresh Slickwater, Running TLTR 48081 bbls	
5	5412-5724	1500 gals 15% HCL Acid 1711 bbls Fresh Slickwater, Running TLTR 49807 bbls	

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Barbara 3404 1-9H
Doc ID	1197412

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	30	16	54	90	Basin Services 10 Sack Grout	10	none
Surface	12.25	9.63	36	495	O-Tex Class C	240	calcium chloride 2.0%, cello-flake .25/sk, gel 6.0%
Intermediate	8.75	7	26	5400	O-Tex Class H	380	C-20 .2%, C-37 .1%, C-41P .4%, C-51 .1%, FL-17 .2%, gel 4.0%
Production	6.13	4.5	11.6	9654	na	0	na

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	3/7/2014
Job End Date:	3/8/2014
State:	Kansas
County:	Sumner
API Number:	15-191-22714-00-00
Operator Name:	SandRidge Energy
Well Name and Number:	Barbara 3404 1-9H
Longitude:	-97.76228000
Latitude:	37.09804000
Datum:	NAD27
Federal/Tribal Well:	NO
True Vertical Depth:	4,540
Total Base Water Volume (gal):	2,302,356
Total Base Non Water Volume:	0

Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Water	Operator	Carrier					
			Water	7732-18-5	100.00000	95.13844	
Sand, Brown (40/70)	Baker Hughes	Proppant					
			Crystalline Silica: Quartz (SiO2)	14808-60-7	100.00000	3.38357	
HCl, 10.1 - 15%	Baker Hughes	Acidizing					
			Water	7732-18-5	85.00000	0.73305	SmartCare Product
			Hydrochloric Acid	7647-01-0	15.00000	0.12936	SmartCare Product
Preferred Garnet RC 40/70	Baker Hughes	Proppant					
			Crystalline Silica (Quartz)	14808-60-7	100.00000	0.37923	
			Castor Oil	8001-79-4	5.00000	0.01896	
FRW-15A, tote	Baker Hughes	Friction Reducer					
			Contains non-hazardous ingredients that are shown in the non-MSDS section of this report.	NA	100.00000	0.07194	SmartCare Product
NE-900, tote	Baker Hughes	Non-emulsifier					
			Methanol	67-56-1	30.00000	0.01323	SmartCare Product
			Nonyl phenyl polyethylene glycol ether	9016-45-9	10.00000	0.00441	SmartCare Product
Scaletrol 7208, 330 gl tote	Baker Hughes	Scale Inhibitor					
			Ethylene Glycol	107-21-1	30.00000	0.00713	

Ferrotrol 300L (Totes)	Baker Hughes	Iron Control					
			Citric Acid	77-92-9	60.00000	0.00372	SmartCare Product
CI-27 (260 gal tote)	Baker Hughes	Corrosion Inhibitor					
			Methanol	67-56-1	60.00000	0.00079	
			Thiourea Polymer	68527-49-1	30.00000	0.00040	
			Fatty Acids	Trade Secret	30.00000	0.00040	
			Polyoxyalkylenes	Trade Secret	30.00000	0.00040	
			Propargyl Alcohol	107-19-7	10.00000	0.00013	
			Olefin	Trade Secret	5.00000	0.00007	
Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS.							
		Other Chemicals					
			Water	7732-18-5		0.03839	
			Copolymer of Acrylamide and Sodium Acrylate	25987-30-8		0.02878	
			Hydrotreated Light Distillate	64742-47-8		0.02158	
			Copolymer	Trade Secret		0.01764	
			Sorbitan Monooleate	1338-43-8		0.00360	
			Nonyl Phenol Ethoxylate	127087-87-0		0.00360	
			Diethylene Glycol	111-46-6		0.00119	
			Sodium Chloride	7647-14-5		0.00001	
			Formaldehyde	50-00-0		0.00000	
			2-Propenoic, Polymer with Sodium Phosphinate, Sodium Salt	71050-62-9			
			Potassium Chloride	7447-40-7			
			Calcium Chloride	10043-52-4			
			Polyacrylate	Trade Secret			

* Total Water Volume sources may include fresh water, produced water, and/or recycled water
** Information is based on the maximum potential for concentration and thus the total may be over 100%

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.
Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

BASIN SERVICES, LLC
P O BOX 4268
ABILENE, TX 79608-4268
Phone # (325)690-0053
Fax # (325)698-0055

TICKET

TICKET NUMBER: WY-194-1
TICKET DATE: 12/13/2013

ELECTRONIC

SANDRIDGE ENERGY
***** BILL IN ADP!! *****
123 ROBERT S KERR AVE
OKLAHOMA CITY, OK 73102-6406

YARD: WY WAYNOKA OK
LEASE: Barbara 3404
WELL#: 1-9H
RIG #: Lariat 45
Co/St: SUMNER, KS

DESCRIPTION	QUANTITY	RATE	AMOUNT
12/12-13/2013 DRILLED 30" CONDUCTOR HOLE			
12/12-13/2013 20" CONDUCTOR PIPE (.250 WALL)			
12/12-13/2013 6' X 6' CELLAR TINHORN WITH PROTECTIVE RING			
12/12-13/2013 DRILL & INSTALL 6' X 6' CELLAR TINHORN			
12/12-13/2013 DRILLED 20" MOUSE HOLE (PER FOOT)			
12/12-13/2013 16" CONDUCTOR PIPE (.250 WALL)			
12/12-13/2013 MOBILIZATION OF EQUIPMENT & ROAD PERMITTING FEE			
12/12-13/2013 WELDING SERVICES FOR PIPE & LIDS			
12/12-13/2013 PROVIDED EQUIPMENT & LABOR TO ASSIST IN PUMPING CONCRETE			
12/12-13/2013 PROVIDED METAL LIDS (1 FOR CONDUCTOR & 2 FOR MOUSEHOLE PIPE)			
12/12-13/2013 10 YDS OF 10 SACK GROUT			
12/12-13/2013 TAXABLE ITEMS			5,400.00
12/12-13/2013 BID - TAXABLE ITEMS			12,850.00

Sub Total:	18,250.00
Tax SUMNER COUNTY (6.65 %):	359.10
TICKET TOTAL:	$ 18,609.10

I, the undersigned, acknowledge the acceptance of the above listed goods and/or services.

Approved Signature _____

O-Tex Pumping, LLC

7303 N. Highway 81
Duncan, OK 73533

Phone # (580) 255-3111

Invoice

Date:	Invoice #:
1/17/2014	0000009755

Bill To	Description of Work
Sandridge Exploration & Production 123 Robert S Kerr Ave Oklahoma City, OK 73102-6406	SUMNER,COUNTY KS AFE DC13395 API 15-191-22714-01-00 Job Type: Surface (New Well Only)

Field Receipt	Terms	Service Date	Due Date	AFE No	Lease/Well Name
SOK3339	Net 30	1/15/2014	2/16/2014	AFE DC13395	BARBARA 3404 1-9H

Item	Description	U/M	Qty	Price Each	Amount	Disc %	Disc Amt	Net Amount
ML001	Pickup Mileage	UNTMIL	100	4.26	426.00	60.00%	-255.60	170.40
ML002	Pump Truck/Heavy Vehicle Mileage	UNTMIL	100	7.32	732.00	60.00%	-439.20	292.80
ML003	Bulk Cement Delivery/Return	MILE	572	2.95	1,687.40	60.00%	-1,012.44	674.96
MX001	Bulk Material Mixing Service Charge	SCF	266	3.27	869.82	60.00%	-521.89	347.93
CC001	Pump Charge 0-1000'	4-HRS	1	2,038.61	2,038.61	60.00%	-1,223.17	815.44
ML014	Fuel Surcharge *	JOB	1	653.40	653.40	100.00%	-653.40	0.00
AE014	Environmental Fee*	JOB	1	228.69	228.69	100.00%	-228.69	0.00
PC003	Employee/Supervisor Retention/perdiem	JOB	5	1,306.80	6,534.00	90.00%	-5,880.60	653.40
JM001	Data Acquisition System	JOB	1	1,437.48	1,437.48	60.00%	-862.49	574.99
AE002	Cement Head with manifold	JOB	1	1,176.12	1,176.12	60.00%	-705.67	470.45
AE003	Circulation Equipment(40' of equipment)	JOB	1	1,633.50	1,633.50	60.00%	-980.10	653.40
CL017	9 5/8" Top Rubber Plug	EACH	1	338.80	338.80	35.00%	-118.58	220.22
CSB006	O-Tex Lite Premium Plus	SACK	140	29.81	4,173.40	53.00%	-2,211.90	1,961.50
CP001	C (Premium Plus Cement) (94 lbs/ft3)	94SACK	100	30.80	3,080.00	53.00%	-1,632.40	1,447.60
CP010	Cello Flake	LBS	60	4.20	252.00	53.00%	-133.56	118.44
CP018	Calcium Chloride	LBS	432	1.22	527.04	53.00%	-279.33	247.71
CP009	CF-41 (Foam Preventer)	GAL	4	86.06	344.24	53.00%	-182.45	161.79
CP033	CF-41P (Powder Defoamer)	LBS	61	5.42	330.62	53.00%	-175.23	155.39
CP031	Sugar	LBS	50	3.39	169.50	0.00%	0.00	169.50

Subtotal Amount	**********
Sales Tax	**********
Discount Amount	**********
Payment/Credit Amount	**********
Total Net Amount	**********

Contact: Sandridge Exploration & Production

API No.
15-191-22714-01-00
OTC/OCC Operator No.
34192-0

CEMENTING REPORT
To Accompany Completion Report

Form 1002C
Rev. 1996

OKLAHOMA CORPORATION COMMISSION
Oil & Gas Conservation Division
Post Office Box 52000-2000
Oklahoma City, Oklahoma 73152-2000
OAC 165:10-3-4(h)

All operators must include this form when submitting the Completion Report, (Form 1002A). The signature on this statement must be that of qualified employees of the cementing company and operator to demonstrate compliance with OAC 165:10-3-4(h). It may be advisable to take a copy of this form to location when cementing work is performed.

TYPE OR USE BLACK INK ONLY

*Field Name	0					OCC District	
*Operator	Sandridge Exploration & Production					OCC/OTC Operator No	34192-0
*Well Name/No.	Barbara 3404 1-9H					County	Sumner
*Location	1/4	1/4	1/4	1/4	Sec 4	Twp 34S	Rge 4W

Cement Casing Data	Conductor Casing	Surface Casing	Alternative Casing	Intermediate Casing	Production String	Liner
Cementing Date				1/24/2014		
*Size of Drill Bit (Inches)				8¾"		
*Estimated % wash or hole enlargement used in calculations				40%		
*Size of Casing (inches O.D.)				7"		
*Top of Liner (if liner used) (ft.)				N/A		
*Setting Depth of Casing (ft.) from ground level				5400		
Type of Cement (API Class) In first (lead) or only slurry				50/50 POZ PREMIUM		
In second slurry				Premium		
In third slurry				N/A		
Sacks of Cement Used In first (lead) or only slurry				280		
In second slurry				100		
In third slurry				N/A		
Vol of slurry pumped (Cu ft)(14.X15.) in first (lead) or only slurry				400.4		
In second slurry				119		
In third slurry				N/A		
Calculated Annular Height of Cement behind Pipe (ft)				3323.9		
Cement left in pipe (ft)				91		

*Amount of Surface Casing Required (from Form 1000) ft.

*Was cement circulated to Ground Surface? ☐ Yes ☑ No

*Was Cement Staging Tool (DV Tool) used? ☐ Yes ☑ No

*Was Cement Bond Log run? ☐ Yes ☑ No (If so, Attach Copy)

*If Yes, at what depth? ft

CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE OF FORM

* Designates items to be completed by Operator.
Items **not** so designated shall be completed by the Cementing Company.

Remarks

Cement #1: 50/50 POZ PREMIUM: 4% Gel - 0.2% FL-17 - 0.1% C-51 - 0.2% C-20 - 0.1% C-37 - 0.4% C-41P *
Cement # 2: Premium: 0.2% FL-17 - 0.1% C-51 - 0.1% C-20 - 0.4% C-41P * Cement #3: 0: 0 * Cement #4: : *
Cement #5: :

*Remarks

CEMENTING COMPANY

I declare under applicable Corporation Commission rule, that I am authorized to make this certification, that the cementing of casing in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct and complete to the best of my knowledge. This certification covers cementing data only.

Signature of Cementer or Authorized Representative

OPERATOR

I declare under applicable Corporation Commission rule, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct and complete to the best of my knowledge. This certification covers all well data and information presented herein.

Signature of Operator or Authorized Representative

Name & Title Printed or Typed

John Hall

O-TEX Pumping LLC

Address

7303 N. Hwy 81

City

Duncan

State **OK** | Zip **73533**

Telephone (AC) Number

580-251-9919

Date

January 24, 2014

*Name & Title Printed or Typed

*Operator

*Address

*City

*State | *Zip

*Telephone (AC) Number

*Date

INSTRUCTIONS

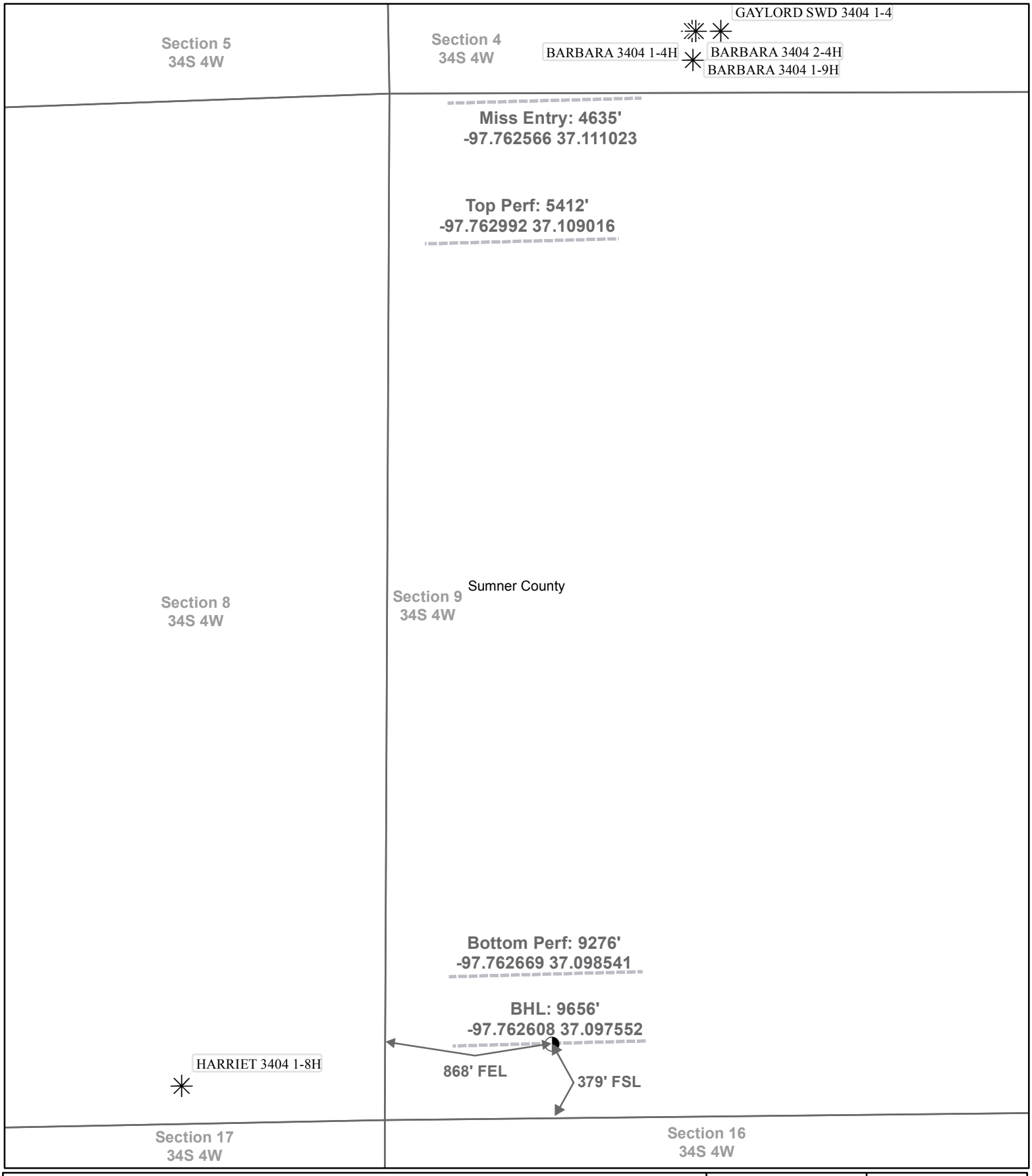
1. A) This form shall be filed by the operator, at the O.C.C. office in Oklahoma City, as an attachment to the Completion Report (Form 1002A) for a producing well or a dry hole.
   B) An original of this form shall be filed as an attachment to the Completion Report, (Form 1002A), for each cementing company used on a well.
   C) The cementing of different casing strings on a well by one cementing company may be consolidated on one form.
2. Cementing Company and Operator shall comply with the applicable portions of OAC 165:10-3-4(h).
3. Set surface casing 50 feet below depth of treatable water to be protected and cement from casing shoe to ground surface or as allowed by OAC 165:10-3-4(h).
4. **IF SETTING ANYTHING OTHER THAN THE FULL AMOUNT OF SURFACE CASING, BE SURE TO FOLLOW CORPORATION COMMISSION RULES.**

Directional Survey Calculations	Measured Depth (ft)	Sub-Sea Incl. (deg)	Vertical Azim. (ft)	True Vert Depth (ft)	Northings (+) Southings (-) (ft)	Eastings (+) Westings (-) (ft)	Vert Section (ft)	DLS deg/100' (deg)	FNL	FSL	FWL	FEL
SHL	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4968	5496	1622	3617
BHL	9656	94.10	177.50	4433.73	-5146.40	-873.35	5219.94	0.00	10096	357	690	4516
Miss Entry	4635	51.27	208.05	4339.26	-192.01	-767.60	320.50	7.49	5144	5311	852	4386
Top Perf	4640	51.45	207.63	4342.40	-195.43	-769.46	324.19	7.49	5147	5307	850	4387
Bottom Perf	9544	93.60	178.06	4441.33	-5034.75	-877.77	5110.69	0.55	9984	469	687	4520

Survey Points		X	Y			X	Y		m
	NW Corner XY Coord	2214241	167787					North Line slope	0.0214421
	SW Corner XY Coord	2214360	157345		Surface XY	2215919	162855	East Line slope	-0.0049491
	NE Corner XY Coord	2219511	167900					South Line slope	0.0092254
	SE Corner XY Coord	2219563	157393					West Line slope	-0.0113963

Measured Depth (ft)	Sub-Sea Incl. (deg)	Vertical Azim. (ft)	True Vert Depth (ft)	Northings (+) Southings (-) (ft)	Eastings (+) Westings (-) (ft)	Vert Section (ft)	DLS deg/100' (deg)	FNL	FSL	FWL	FEL
0	0.0	0	0	0	0	0	0	4968	5496	1622	3617
598	1.9	24.9	597.89	8.99	4.18	-9.5744	0.319	4959	5505	1626	3613
967	1.8	24.1	966.698	19.83	9.12	-21.0998	0.029	4948	5515	1631	3608
1425	1.6	18.6	1424.5	32.46	14.10	-34.3924	0.057	4936	5528	1636	3603
1792	1.3	7.5	1791.38	41.45	16.27	-43.6172	0.113	4927	5537	1639	3600
2267	0.7	354.4	2266.31	49.68	16.70	-51.7988	0.135	4919	5545	1639	3600
2741	0.6	24.3	2740.28	54.82	17.44	-56.9941	0.075	4914	5550	1640	3599
2949	0.5	42.8	2948.27	56.48	18.50	-58.8115	0.098	4912	5552	1641	3598
2971	0.4	8	2970.27	56.63	18.58	-58.9699	1.299	4912	5552	1641	3598
3001	1.1	286.2	3000.26	56.81	18.32	-59.1076	3.72	4912	5552	1641	3598
3032	3	272.3	3031.24	56.93	17.22	-59.0361	6.292	4911	5552	1640	3599
3062	5.3	270.6	3061.16	56.98	15.05	-58.7103	7.678	4911	5552	1637	3602
3093	8.2	271.9	3091.94	57.04	11.41	-58.1525	9.359	4911	5553	1634	3605
3123	10.6	270.9	3121.54	57.14	6.51	-57.4082	8.004	4911	5553	1629	3610
3154	12.8	269.2	3151.89	57.13	0.23	-56.3291	7.184	4911	5553	1623	3616
3185	15.1	266.2	3181.98	56.82	-7.23	-54.7425	7.776	4911	5553	1615	3624
3217	17.3	265.9	3212.7	56.20	-16.14	-52.6127	6.881	4911	5552	1606	3633
3248	19.2	267.1	3242.14	55.62	-25.83	-50.3775	6.248	4912	5551	1597	3643
3279	21.3	268.4	3271.23	55.20	-36.55	-48.1356	6.929	4912	5551	1586	3653
3309	23.6	268.8	3298.95	54.93	-48.00	-45.9039	7.685	4912	5551	1574	3665
3340	26.1	269.4	3327.08	54.72	-61.02	-43.4784	8.106	4912	5551	1561	3678
3370	29.8	269.7	3353.6	54.62	-75.03	-40.9782	11.98	4912	5551	1547	3692
3401	33.3	269.4	3380.04	54.49	-91.20	-38.0837	11.95	4912	5551	1531	3708
3431	36.2	269.6	3404.69	54.34	-108.30	-35.014	9.675	4911	5551	1514	3725
3462	36.4	269.2	3429.67	54.15	-126.65	-31.6864	1.001	4911	5551	1496	3743
3493	35.9	268.6	3454.7	53.80	-144.93	-28.2145	1.977	4911	5551	1477	3762
3523	35.1	268	3479.13	53.29	-162.34	-24.7285	2.91	4911	5550	1460	3779
3554	34.2	267.2	3504.63	52.55	-179.95	-20.9914	3.254	4912	5550	1442	3797
3584	33.3	266	3529.57	51.57	-196.59	-17.1746	3.734	4912	5549	1426	3813
3615	32.3	265.1	3555.63	50.27	-213.33	-13.0298	3.59	4913	5548	1409	3830
3645	32.8	265.2	3580.92	48.90	-229.41	-8.93617	1.677	4914	5547	1393	3846
3676	32.7	265.8	3606.99	47.59	-246.13	-4.77985	1.097	4915	5545	1376	3863
3707	32.1	265.6	3633.16	46.33	-262.69	-0.70868	2.005	4916	5544	1360	3879
3737	33.6	266	3658.38	45.13	-278.90	3.24978	4.754	4917	5543	1343	3896
3768	35.3	266.9	3683.95	44.05	-295.37	7.30412	6.035	4918	5542	1326	3913
3798	36.2	268.1	3708.31	42.98	-313.87	11.9512	3.381	4918	5541	1308	3931
3829	36	265.8	3733.35	41.69	-332.09	16.7377	0.852	4919	5540	1290	3949
3859	35	265.7	3757.62	40.38	-349.67	20.8324	0.197	4920	5539	1273	3966
3890	35.6	265.2	3782.77	38.94	-367.74	24.5405	1.599	4921	5538	1254	3985
3920	34.7	264.8	3807.3	37.44	-384.95	28.0651	3.098	4922	5537	1237	4002
3951	34	264.1	3832.89	35.75	-402.36	31.608	2.594	4924	5535	1220	4019
3981	34.2	264.1	3857.73	34.02	-419.09	35.1722	0.668	4925	5534	1203	4036
4012	34.9	263.7	3883.26	32.16	-436.57	43.0027	2.376	4926	5532	1186	4053
4043	34	262.8	3908.83	30.10	-453.98	48.0098	3.336	4928	5530	1168	4071
4073	33.3	262	3933.8	27.90	-470.46	52.9924	2.763	4930	5528	1152	4087
4104	33.5	261.7	3959.68	25.48	-487.35	58.2647	0.838	4932	5526	1135	4104
4134	35.2	260	3984.46	22.79	-504.06	63.7791	6.507	4934	5523	1118	4121
4165	37	257.3	4009.6	19.18	-521.96	70.39	7.749	4938	5520	1100	4139
4196	37.9	252.8	4034.11	14.32	-540.16	78.2978	9.291	4942	5515	1082	4157
4226	39.2	247.7	4059.14	7.57	-558.90	88.1605	10.73	4948	5508	1063	4176
4256	41.3	244.3	4083.67	-0.84	-577.78	99.673	9.498	4956	5500	1044	4195
4291	43.5	241.2	4106.46	-10.42	-596.35	112.286	9.789	4966	5491	1025	4213
4323	44.9	237.1	4129.41	-21.86	-615.49	126.834	9.946	4977	5479	1006	4233
4355	45.6	234.2	4151.94	-34.69	-634.24	142.675	6.795	4989	5467	987	4251
4386	45.7	230.3	4173.61	-48.25	-651.78	159.038	9.002	5002	5453	969	4269
4416	46	226.8	4195.9	-63.45	-668.97	176.052	7.904	5017	5438	952	4286
4450	46.6	224.2	4218.01	-79.65	-686.46	195.749	6.187	5033	5422	935	4303
4481	47.6	221.7	4239.12	-95.28	-700.93	214.77	6.732	5049	5406	920	4318
4513	48.5	219	4260.51	-114.42	-716.33	235.273	6.877	5067	5388	904	4334
4545	48.9	216.1	4281.63	-135.47	-730.98	256.554	6.923	5086	5369	889	4349
4576	50.1	213.6	4301.77	-152.83	-744.42	277.924	7.481	5105	5350	876	4362
4608	50.4	210.4	4322.23	-173.76	-757.44	300.713	7.508	5125	5329	862	4375

	Measured Depth (ft)	Sub-Sea Incl. (deg)	Vertical Azim. (ft)	True Vert Depth (ft)	Northings (+) Southings (-) (ft)	Eastings (+) Westings (-) (ft)	Vert Section (ft)	DLS deg/100' (deg)	FNL	FSL	FWL	FEL
	4639	51.4	207.7	4341.79	-194.73	-709.11	323.429	7.49	5146	5308	850	4387
	4671	52.9	205.3	4361.42	-217.34	-720.98	347.634	7.553	5169	5285	839	4398
	4703	55.2	204.3	4380.21	-240.86	-731.24	372.859	7.521	5192	5262	828	4409
	4734	57.1	203.3	4397.48	-264.41	-801.62	397.948	6.69	5215	5239	817	4420
	4765	59.3	201.7	4414.34	-289.63	-812.06	424.176	8.083	5240	5214	806	4430
	4798	61.6	198.8	4430.12	-316.87	-821.58	451.603	11.28	5266	5188	797	4440
	4829	63.6	196.2	4444.41	-341.92	-829.78	478.833	8.998	5292	5161	788	4448
	4861	65.9	194.5	4458.09	-369.82	-837.43	507.645	8.907	5320	5134	780	4456
	4892	68.6	192.4	4470.1	-397.61	-844.07	536.142	10.46	5347	5106	773	4463
	4924	70.7	191.7	4481.3	-426.92	-850.35	565.11	7.175	5377	5077	767	4469
	4956	73	190	4491.22	-456.86	-855.05	595.519	8.734	5406	5047	761	4475
	4987	74.6	188.5	4499.67	-486.18	-859.53	625.273	8.949	5436	5017	755	4480
	5019	76.2	187.8	4507.8	-516.87	-863.17	657.256	7.107	5466	4987	751	4485
	5051	79.4	186.7	4514.49	-547.93	-866.66	689.523	8.875	5497	4956	746	4489
	5082	81.6	186.4	4519.49	-578.31	-872.55	719.053	7.802	5528	4925	743	4492
	5114	83.9	186.4	4523.47	-609.86	-876.09	750.744	6.564	5559	4894	739	4496
[illegible] of Tangent	5146	85.6	186.9	4526.4	-641.62	-879.50	782.511	5.587	5591	4862	735	4500
@ 5150'	5177	85.9	186.2	4528.7	-672.28	-882.76	813.386	1.368	5621	4831	731	4503
	5209	86.5	185.7	4530.82	-704.04	-886.07	845.24	2.44	5653	4800	728	4507
	5241	87.3	184.7	4532.55	-735.86	-888.96	877.087	3.999	5685	4768	724	4510
	5272	88	184.9	4533.82	-766.72	-891.55	907.939	2.349	5716	4737	722	4512
[illegible]	5304	88.1	185.1	4534.9	-798.58	-894.34	939.805	0.699	5747	4705	718	4515
Btm of Tangent	5336	88	185.2	4535.97	-829.44	-897.12	970.681	0.457	5778	4674	715	4518
@ 5350'	5436	88.5	184.7	4539.05	-930.01	-905.83	1071.26	0.701	5879	4574	705	4527
	5528	89.8	182	4540.41	-1021.83	-911.20	1162.65	3.258	5970	4482	699	4533
	5622	91.6	180.3	4539.27	-1115.80	-913.09	1255.55	2.635	6064	4388	696	4536
	5712	91.8	179	4536.6	-1205.76	-912.54	1344.09	1.462	6154	4298	696	4535
	5804	92.3	179.4	4533.31	-1297.69	-911.25	1434.44	0.697	6246	4206	696	4535
	5896	92	179.8	4529.85	-1389.62	-910.61	1524.91	0.544	6338	4114	695	4534
	5987	91.7	179.7	4526.92	-1480.57	-910.21	1614.45	0.348	6429	4023	695	4535
	6079	91.9	179.2	4524.03	-1572.52	-909.33	1704.9	0.586	6521	3931	695	4534
	6171	90.1	178.6	4522.42	-1664.48	-907.56	1795.2	2.063	6613	3840	695	4533
	6262	93.5	177.6	4519.56	-1755.37	-904.55	1884.24	3.895	6704	3749	697	4530
	6354	91.7	177.7	4515.39	-1847.19	-900.78	1974.06	1.961	6796	3657	700	4527
	6446	89.1	177.4	4514.75	-1939.10	-896.84	2063.94	2.846	6888	3565	703	4523
	6537	90.7	177.3	4514.91	-2030	-893	2152.78	1.763	6979	3474	706	4520
	6632	90.4	179.1	4513.99	-2125	-890	2245.81	1.922	7074	3379	708	4517
	6727	91.9	179.5	4512.09	-2220	-888	2339.18	1.635	7169	3284	708	4516
	6822	91.5	180.7	4509.27	-2315	-889	2432.76	1.332	7264	3189	707	4517
	6917	91.6	180.8	4506.7	-2410	-890	2526.53	0.15	7359	3094	704	4519
	7012	91.2	181.1	4504.38	-2505	-891	2620.36	0.527	7454	2999	702	4521
	7107	91.9	181.4	4501.81	-2600	-894	2714.26	0.803	7549	2904	699	4523
	7202	91	180.9	4499.4	-2695	-895	2808.13	1.085	7643	2809	696	4526
	7297	90.6	180.2	4498.08	-2790	-896	2901.87	0.85	7738	2714	694	4527
	7392	89.1	180.3	4498.33	-2885	-897	2995.54	1.583	7833	2619	692	4528
	7487	90.8	180.8	4498.41	-2980	-898	3089.28	1.866	7928	2524	690	4529
	7582	89.3	179.7	4498.33	-3075	-898	3182.95	1.959	8023	2429	689	4530
	7677	91.3	180.1	4497.83	-3170	-898	3276.51	2.148	8118	2334	688	4531
	7772	92.1	179.8	4495.01	-3265	-898	3370.05	0.9	8213	2239	687	4531
	7867	92.9	180.1	4490.87	-3359	-898	3463.55	0.9	8308	2144	686	4531
	7961	92.9	179.7	4486.11	-3453	-898	3556.01	0.426	8402	2051	685	4532
	8056	91.8	182	4482.22	-3548	-899	3649.76	2.683	8497	1956	682	4534
	8152	92.8	182.3	4478.36	-3644	-903	3744.81	1.088	8593	1860	678	4538
	8247	92.5	181.9	4473.97	-3739	-906	3838.84	0.527	8688	1765	673	4542
	8342	91.6	180	4470.57	-3834	-908	3932.63	2.213	8782	1670	670	4544
	8436	90.7	178.9	4468.69	-3928	-907	4025.06	1.513	8876	1576	670	4543
	8531	89.9	178.4	4468.19	-4023	-905	4118.25	0.994	8971	1481	671	4541
	8626	89.2	177.9	4468.93	-4118	-901	4211.27	0.906	9066	1386	673	4539
	8721	90.1	177.5	4469.52	-4213	-898	4304.14	1.038	9161	1291	676	4535
	8816	90.1	178.2	4469.35	-4308	-894	4397.06	0.738	9256	1196	679	4532
	8911	90.4	178.4	4468.93	-4403	-891	4490.14	0.381	9351	1101	680	4530
	9006	91.9	179	4467.03	-4498	-889	4583.32	1.702	9446	1006	681	4528
	9101	92.9	179.4	4463.05	-4592	-888	4676.6	1.135	9541	911	682	4527
	9196	91.8	178.8	4459.15	-4687	-886	4769.85	1.32	9636	816	682	4526
	9291	92.4	178.7	4455.67	-4782	-884	4863.01	0.641	9731	722	683	4525
	9386	93.4	178.8	4450.87	-4877	-882	4956.11	1.059	9826	627	684	4523
	9480	93.4	178.4	4445.29	-4971	-880	5048.14	0.426	9920	533	685	4521
	9575	93.7	177.9	4439.41	-5066	-877	5140.99	0.614	10015	438	687	4519
	9607	94.1	177.5	4437.23	-5098	-875	5172.2	1.767	10047	406	688	4518
	9656	94.1	177.5	4433.73	-5146	-873	5219.94	0.001	10096	357	690	4516



SANDRIDGE
THE POWER OF US

Actual BH Location

SandRidge Wells

Perf

Sections

Actual Bottom-Hole Location of Barbara 3404 1-9H
Summer County, Kansas
T&R: 34S 4W
Section: 9, 868' FWL & 379' FSL
-97.840041 37.096988

1 in = 658 ft

0 500 1,000 2,000 Feet

N

Draftsman: Aaron Birk	Draft Date: 4/4/2014
Drawing Name/Number: Addendum_Barbara 3404 1-9H.mxd	
Coordinate System: NAD 1927 State Plane Kansas South FIPS: 1502	

Remarks

Tiffany Golay 04/09/014 08:02 am	We expect this well to be classified as an oil well based on results from surrounding wells however production has not begun. We are waiting on completion of the Gaylord SWD 3404 1-4 before this well officially begins production.
Tiffany Golay 04/09/014 10:23 am	Fluid was hauled to Ruth 3504 1-9 and Young 3406 1-28H (15-077-22010-01-00) to be used for drilling purposes. *Not to be put in a haul off pit*. 1120 bbls were hauled to Young 3406 1-28H.