



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1219301
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
-----------------------------------	-----------------	-----------------------------------------

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: _____

1219301

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. 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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

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: Yes No

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

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

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

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Mabel 3508 2-9H
Doc ID	1219301

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
	Frac Point System used- no perforating necessary	750 gals 15% HCL, 2341 bbls fresh slickwater, TLTR: 2341	9334
		750 gals 15% HCL, 2330 bbls fresh slickwater, TLTR: 4671	9150
		750 gals 15% HCL, 2383 bbls fresh slickwater, TLTR: 7054	8922
		750 gals 15% HCL, 2338 bbls fresh slickwater, TLTR: 9392	8693
		750 gals 15% HCL, 2516 bbls fresh slickwater, TLTR: 11908	8464
		750 gals 15% HCL, 2567 bbls fresh slickwater, TLTR: 14475	8281
		750 gals 15% HCL, 2521 bbls fresh slickwater, TLTR: 16996	8097
		750 gals 15% HCL, 2539 bbls fresh slickwater, TLTR: 19535	7913

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Mabel 3508 2-9H
Doc ID	1219301

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
		750 gals 15% HCL, 2491 bbls fresh slickwater, TLTR: 22026	7685
		750 gals 15% HCL, 2530 bbls fresh slickwater, TLTR: 24556	7501
		750 gals 15% HCL, 2514 bbls fresh slickwater, TLTR: 27070	7317
		750 gals 15% HCL, 2513 bbls fresh slickwater, TLTR: 29583	7133
		750 gals 15% HCL, 2530 bbls fresh slickwater, TLTR: 32113	6949
		750 gals 15% HCL, 2518 bbls fresh slickwater, TLTR: 34631	6765
		750 gals 15% HCL, 2500 bbls fresh slickwater, TLTR: 37131	6581
		750 gals 15% HCL, 2501 bbls fresh slickwater, TLTR: 39631	6397

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Mabel 3508 2-9H
Doc ID	1219301

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
		750 gals 15% HCL, 2508 bbls fresh slickwater, TLTR: 42139	6213
		750 gals 15% HCL, 2465 bbls fresh slickwater, TLTR: 44604	6029
		750 gals 15% HCL, 2599 bbls fresh slickwater, TLTR: 47203	5845
		750 gals 15% HCL, 2623 bbls fresh slickwater, TLTR: 49820	5661
5	5100-5380	750 gals 15% HCL, 4061 bbls fresh slickwater, TLTR: 53887	



INVOICE

DATE	INVOICE #
4/30/2014	4740

BILL TO
SANDRIDGE ENERGY, INC. ATTN: PURCHASING MANAGER 123 ROBERT S. KERR AVENUE OKLAHOMA CITY, OK 73102

REMIT TO
EDGE SERVICES, INC. PO BOX 609 WOODWARD, OK 73802

COUNTY	STARTING D...	WORK ORDER	RIG NUMBER	LEASE NAME	Terms
HARPER, KS	4/28/2014	3596	HWD 14	MABEL 3508 2-9H	Due on rec...

Description			
DRILLED 60' OF 30" CONDUCTOR HOLE DRILLED 6' OF 76" HOLE FURNISHED AND SET 6' X 6' TINHORN CELLAR FURNISHED 60' OF 20" CONDUCTOR PIPE FURNISHED MUD, WATER, AND TRUCKING FURNISHED WELDER AND MATERIALS FURNISHED 6 YARDS OF 10 SACK GROUT FOR CONDUCTOR HOLE FURNISHED GROUT PUMP TOTAL BID \$12,000.00			
<table border="1"> <tr> <td>Sales Tax (6.65%)</td> <td>\$82.59</td> </tr> </table>		Sales Tax (6.65%)	\$82.59
Sales Tax (6.65%)	\$82.59		

TOTAL	\$12,082.59
--------------	-------------



INVOICE

PO Box 93999
Southlake, TX 76092

Invoice Number: 143610
Invoice Date: Jun 1, 2014
Page: 1

Voice: (817) 546-7282
Fax: (817) 246-3361

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

Customer ID	Field Ticket #	Payment Terms	
SandR	62396	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Medicine Lodge	Jun 1, 2014	7/1/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Mabel 3508 #2-9H AFE #DC13715		
150.00	CEMENT MATERIALS	Class A Common	17.90	2,685.00
10.00	CEMENT MATERIALS	Chloride	64.00	640.00
255.00	CEMENT MATERIALS	Light Weight	16.50	4,207.50
102.00	CEMENT MATERIALS	Flo Seal	2.97	302.94
50.00	CEMENT MATERIALS	Sugar	2.00	100.00
448.31	CEMENT SERVICE	Cubic Feet Charge	2.48	1,111.81
768.86	CEMENT SERVICE	Ton Mileage Charge	2.60	1,999.04
1.00	CEMENT SERVICE	Surface	2,058.50	2,058.50
40.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	176.00
40.00	CEMENT SERVICE	Pump Truck Mileage	7.70	308.00
1.00	CEMENT SERVICE	Circulating Iron	450.00	450.00
1.00	EQUIPMENT SALES	9-5/8 Rubber Plug	184.86	184.86
1.00	CEMENT SERVICE	Manifold Rental	275.00	275.00
1.00	CEMENT SUPERVISOR	Jason Thimesch		
1.00	OPERATOR ASSISTANT	Carl Rackley		
1.00	OPERATOR ASSISTANT	Kenneth Jack		
1.00	JOB DISCOUNT	Job Discount if paid within terms	4,349.59	-4,349.59

Subtotal	10,149.06
Sales Tax	499.40
Total Invoice Amount	10,648.46
Payment/Credit Applied	
TOTAL	10,648.46

ALL PRICES ARE NET, PAYABLE
30 DAYS FOLLOWING DATE OF
INVOICE. 1 1/2% CHARGED
THEREAFTER. IF ACCOUNT IS
CURRENT, TAKE DISCOUNT OF

\$

ONLY IF PAID ON OR BEFORE

Jul 1, 2014



INVOICE

PO Box 93999
Southlake, TX 76092

Invoice Number: 143747
Invoice Date: Jun 12, 2014
Page: 1

Voice: (817) 546-7282
Fax: (817) 246-3361

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

Customer ID	Field Ticket #	Payment Terms	
SandR	63127	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-08	Medicine Lodge	Jun 12, 2014	7/12/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Mabel 3508 #2-9H AFE #DC13715		
100.00	CEMENT MATERIALS	Class A Common	17.90	1,790.00
240.00	CEMENT MATERIALS	505/50 Poz Blend	14.40	3,456.00
30.00	CEMENT MATERIALS	Super Flush	58.70	1,761.00
157.00	CEMENT MATERIALS	FL-160	18.90	2,967.30
21.00	CEMENT MATERIALS	SA-51 Suspension Agent	17.55	368.55
19.00	CEMENT MATERIALS	CD-31	10.30	195.70
351.83	CEMENT SERVICE	Cubic Feet Charge	2.48	872.54
603.16	CEMENT SERVICE	Ton Mileage Charge	2.60	1,568.22
1.00	CEMENT SERVICE	Intermediate	3,099.25	3,099.25
40.00	CEMENT SERVICE	Pump Truck Mileage	7.70	308.00
1.00	CEMENT SERVICE	Manifold Rental	275.00	275.00
40.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	176.00
1.00	CEMENT SERVICE	Circulating Iron	450.00	450.00
1.00	EQUIPMENT SALES	7 in Top Rubber Plug	99.45	99.45
1.00	EQUIPMENT OPERATOR	Scott Priddy		
1.00	OPERATOR ASSISTANT	Thomas Gibson		
1.00	OPERATOR ASSISTANT	Carl Sparks		
1.00	OPERATOR ASSISTANT	Robert Johnson		
1.00	JOB DISCOUNT	Job Discount if paid within terms	5,216.11	-5,216.11

Subtotal	12,170.90
Sales Tax	654.25
Total Invoice Amount	12,825.15
Payment/Credit Applied	
TOTAL	12,825.15

ALL PRICES ARE NET, PAYABLE
30 DAYS FOLLOWING DATE OF
INVOICE. 1 1/2% CHARGED
THEREAFTER. IF ACCOUNT IS
CURRENT, TAKE DISCOUNT OF

\$

ONLY IF PAID ON OR BEFORE
 Jul 12, 2014

5D Survey Report

SandRidge Energy

Field Name: SandRidge Energy - Harper County, KS S NAD 27 US FT
Site Name: Mabel 3508 2-9H
Well Name: Mabel 3508 2-9H
Survey: Definitive Survey (Geographic)

20 June 2014



Mabel 3508 2-9H

Field Name
 SandRidge Energy -
 Harper County, KS S
 NAD 27 US FT

Company Name : SandRidge Energy

Map Units : US ft

Vertical Reference Datum (VRD) : Mean Sea Level

Projected Coordinate System : NAD27 / Kansas South

Comment :

Site Name
 Mabel 3508 2-9H

Units : US ft North Reference : Grid
 Northing : 129587.00 US ft Convergence Angle : 0.19
 Easting : 2088839.00 US ft Latitude : 37° 1' 19.77"
 Longitude : -98° 11' 44.62"

Site TVD Reference : Ground Level
 Elevation above Mean Sea Level:1267.00 US ft
 Comment :

Slot Name
 Mabel 3508 2-9H

+N / -S : 0.00 US ft Northing :129587.00 US ft Position (Offsets relative to Site Centre)
 +E / -W : 0.00 US ft Easting :2088839.00 US ft Latitude : 37° 1' 19.77"
 Longitude : -98° 11' 44.62"

Slot TVD Reference : Ground Elevation
 Elevation above Mean Sea Level : 1267.00 US ft
 Comment :

Well Name
 Mabel 3508 2-9H

Type : Main well
 Rig Height *Drill Floor* : 15.00 US ft
 Relative to Mean Sea Level: 1282.00 US ft
 Closure Distance : 5228.76 US ft
 Vertical Section (Position of Origin Relative to Site)
 +N / -S : 0.00 US ft +E / -W : 0.00 US ft Az :187.84°
 UWI :
 Comment :
 Closure Azimuth : 187.816°

Target Set

Name : Mabel 3508 2-9H T1 Number of Targets : 1

Comment :

TargetName:

PBHL

Shape:

Cuboid

Position (Relative to Site centre)

Northing : 124391.00 US ft
Easting : 2088124.00US ft

Latitude : 37°0'28.42"
Longitude : -98°11'53.64"

TVD (Drill Floor) : 4827.30 US ft

SS : -3545.30 US ft

Orientation Azimuth : 0.00°
Dimensions Length : 20.00 US ft

Inclination : 0.00°
Breadth : 20.00 US ft

Height : 20.00 US ft

Survey Name : Definitive Survey

Date : 29/Apr/2014

Survey Tool :

Comment :

Company :

Magnetic Model

Model Name: IGRF

Date: 29/Apr/2014

Field Strength: 51599.9 nT Declination: 4.45°

Dip: 65.08°

Survey Tool Ranges

Name Start MD (us ft) End MD (us ft)

MWD

0.00

9873.00

Source Survey

Weatherford MWD Surveys

Well path created using minimum curvature

MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N. Offset (US ft)	E. Offset (US ft)	Northing (US ft)	Easting (US ft)	Latitude (° ' ")	Longitude (° ' ")
0.00	0.00	0.00	0.00	0.00	0.00	129587.00	2088839.00	37°1'19.77"	-98°11'44.62"
839.00	0.75	6.39	838.98	5.46	0.61	129592.46	2088839.61	37°1'19.82"	-98°11'44.61"
1342.00	0.53	357.85	1341.94	11.05	0.89	129598.05	2088839.89	37°1'19.88"	-98°11'44.60"
1779.00	0.56	19.92	1778.93	15.08	1.54	129602.08	2088840.54	37°1'19.92"	-98°11'44.60"
1871.00	1.82	287.97	1870.91	15.95	0.31	129602.95	2088839.31	37°1'19.93"	-98°11'44.61"
1963.00	3.50	288.96	1962.81	17.32	-3.74	129604.32	2088835.26	37°1'19.94"	-98°11'44.66"
2056.00	5.59	291.81	2055.51	19.92	-10.63	129606.92	2088828.37	37°1'19.97"	-98°11'44.75"
2149.00	7.33	287.05	2147.92	23.35	-20.51	129610.35	2088818.49	37°1'20.00"	-98°11'44.87"
2243.00	9.04	284.74	2240.95	26.98	-33.38	129613.98	2088805.62	37°1'20.04"	-98°11'45.03"
2336.00	11.00	283.67	2332.53	30.94	-49.07	129617.94	2088799.93	37°1'20.08"	-98°11'45.22"
2430.00	12.76	280.58	2424.52	34.97	-67.99	129621.97	2088771.01	37°1'20.12"	-98°11'45.45"
2523.00	14.18	279.88	2514.95	38.81	-89.31	129625.81	2088749.69	37°1'20.16"	-98°11'45.72"
2618.00	15.58	280.93	2606.77	43.22	-113.30	129630.22	2088725.70	37°1'20.20"	-98°11'46.01"

5D Survey Report

Survey Points (Relative to Site centre, TVD relative to Drill Floor)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N. Offset (US ft)	E. Offset (US ft)	Northing (US ft)	Easting (US ft)	Latitude (° ' ")	Longitude (° ' ")	
2713.00	16.51	281.24	2698.07	48.27	-139.07	129635.27	2088699.93	37°1'20.25"	-98°11'46.33"	
2807.00	15.74	281.94	2788.37	53.51	-164.64	129640.51	2088674.36	37°1'20.30"	-98°11'46.64"	
2902.00	16.32	287.28	2879.68	60.14	-190.00	129647.14	2088649.00	37°1'20.37"	-98°11'46.96"	
2997.00	16.26	288.12	2970.86	68.25	-215.38	129655.25	2088623.62	37°1'20.45"	-98°11'47.27"	
3092.00	13.76	286.57	3062.62	75.60	-238.86	129662.60	2088600.14	37°1'20.52"	-98°11'47.56"	
3186.00	13.86	286.35	3153.90	81.96	-260.38	129668.96	2088578.62	37°1'20.59"	-98°11'47.82"	
3281.00	15.40	285.17	3245.82	88.47	-283.47	129675.47	2088555.53	37°1'20.65"	-98°11'48.11"	
3376.00	15.58	282.27	3337.37	94.48	-308.11	129681.48	2088530.89	37°1'20.71"	-98°11'48.41"	
3470.00	14.64	284.75	3428.12	100.19	-331.93	129687.19	2088507.07	37°1'20.77"	-98°11'48.70"	
3565.00	14.74	284.65	3520.01	106.30	-355.24	129693.30	2088483.76	37°1'20.83"	-98°11'48.99"	
3660.00	16.90	286.31	3611.41	113.23	-380.18	129700.23	2088458.82	37°1'20.90"	-98°11'49.30"	
3754.00	14.86	284.96	3701.82	120.18	-404.95	129707.18	2088434.05	37°1'20.97"	-98°11'49.60"	
3848.00	15.93	285.89	3792.44	126.83	-429.00	129713.83	2088410.00	37°1'21.04"	-98°11'49.90"	
3944.00	14.83	281.96	3885.00	132.98	-453.69	129719.98	2088385.31	37°1'21.10"	-98°11'50.20"	
4038.00	16.01	278.01	3975.62	137.28	-478.30	129724.28	2088360.70	37°1'21.15"	-98°11'50.51"	
4070.00	14.93	277.09	4006.46	138.40	-486.76	129725.40	2088352.24	37°1'21.16"	-98°11'50.71"	
4102.00	13.60	271.02	4037.48	138.98	-494.61	129725.98	2088344.39	37°1'21.15"	-98°11'50.80"	
4133.00	13.01	258.75	4067.65	138.36	-501.68	129725.36	2088337.32	37°1'21.15"	-98°11'50.88"	
4164.00	13.22	249.32	4097.85	136.43	-508.42	129723.43	2088330.58	37°1'21.13"	-98°11'50.96"	
4196.00	14.15	241.29	4128.94	133.26	-515.27	129720.26	2088323.73	37°1'21.10"	-98°11'50.96"	
4228.00	15.14	235.61	4159.90	129.02	-522.15	129716.02	2088316.85	37°1'21.06"	-98°11'51.05"	
4259.00	16.91	229.48	4189.70	123.80	-528.92	129710.80	2088310.08	37°1'21.01"	-98°11'51.13"	
4291.00	18.71	222.70	4220.17	117.01	-535.94	129704.01	2088303.06	37°1'20.94"	-98°11'51.22"	
4334.00	21.77	216.91	4260.51	105.56	-545.41	129692.56	2088293.59	37°1'20.83"	-98°11'51.34"	
4378.00	24.67	213.50	4300.94	91.37	-555.38	129678.37	2088283.62	37°1'20.69"	-98°11'51.46"	
4422.00	27.30	209.88	4340.49	74.96	-565.48	129661.96	2088273.52	37°1'20.53"	-98°11'51.59"	
4466.00	30.69	210.76	4378.97	56.56	-576.25	129643.56	2088262.75	37°1'20.35"	-98°11'51.72"	
4509.00	33.94	208.92	4415.31	36.62	-587.67	129623.62	2088251.33	37°1'20.15"	-98°11'51.86"	
4553.00	36.92	206.68	4451.16	14.05	-599.55	129601.05	2088239.45	37°1'19.93"	-98°11'52.01"	
4597.00	39.56	205.12	4485.72	-10.45	-611.43	129576.55	2088227.57	37°1'19.69"	-98°11'52.16"	
4640.00	42.88	202.40	4518.06	-36.38	-622.82	129550.62	2088216.18	37°1'19.43"	-98°11'52.30"	
4684.00	46.16	199.93	4549.43	-65.15	-633.94	129521.85	2088205.06	37°1'19.15"	-98°11'52.43"	
4728.00	49.53	197.40	4578.96	-96.05	-644.36	129490.95	2088194.64	37°1'18.84"	-98°11'52.56"	
4772.00	52.34	194.24	4606.69	-128.91	-653.65	129458.35	2088185.35	37°1'18.52"	-98°11'52.68"	
4815.00	54.21	193.52	4632.40	-162.37	-661.92	129424.63	2088177.08	37°1'18.18"	-98°11'52.78"	
4859.00	57.20	192.12	4657.19	-197.81	-669.97	129389.19	2088169.03	37°1'17.83"	-98°11'52.88"	
4903.00	61.03	190.98	4679.77	-234.80	-677.53	129352.20	2088161.47	37°1'17.47"	-98°11'52.98"	
4946.00	62.99	190.31	4699.95	-272.12	-684.54	129314.88	2088154.46	37°1'17.10"	-98°11'53.07"	
4990.00	65.34	189.67	4719.13	-311.12	-691.40	129275.88	2088147.60	37°1'16.72"	-98°11'53.15"	
5034.00	68.36	187.87	4736.42	-351.09	-697.56	129235.91	2088141.44	37°1'16.32"	-98°11'53.23"	
5078.00	71.73	186.55	4751.44	-392.12	-702.75	129194.88	2088136.25	37°1'15.91"	-98°11'53.30"	

5D Survey Report

Survey Points (Relative to Site centre, TVD relative to Drill Floor)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	Latitude (° ' ")	Longitude (° ' ")	
5121.00	75.15	185.32	4763.69	-433.11	-707.01	129153.89	2088131.99	37°11'53.35"	-98°11'53.35"	
5165.00	78.68	183.32	4773.65	-475.83	-710.23	129111.17	2088128.77	37°11'53.39"	-98°11'53.39"	
5209.00	82.43	180.96	4780.87	-519.20	-711.84	129067.80	2088127.16	37°11'53.41"	-98°11'53.41"	
5296.00	87.97	180.07	4788.15	-605.85	-712.62	128981.15	2088126.38	37°11'53.80"	-98°11'53.43"	
5383.00	88.88	179.35	4790.54	-692.82	-712.18	128994.18	2088126.82	37°11'53.42"	-98°11'53.42"	
5471.00	89.09	179.65	4792.10	-780.80	-711.41	128906.20	2088127.59	37°11'53.42"	-98°11'53.42"	
5515.00	89.65	180.01	4792.58	-824.80	-711.28	128762.20	2088127.72	37°11'53.42"	-98°11'53.42"	
5588.00	90.63	179.42	4792.41	-897.80	-710.92	128689.20	2088128.08	37°11'53.42"	-98°11'53.42"	
5615.00	90.70	179.54	4792.09	-924.79	-710.67	128662.21	2088128.33	37°11'53.42"	-98°11'53.42"	
5659.00	90.28	179.30	4791.72	-968.79	-710.23	128618.21	2088128.77	37°11'53.41"	-98°11'53.41"	
5703.00	90.00	178.95	4791.61	-1012.78	-709.56	128574.22	2088129.44	37°11'53.40"	-98°11'53.40"	
5746.00	86.92	180.71	4792.76	-1055.76	-709.43	128531.24	2088129.57	37°11'53.41"	-98°11'53.41"	
5790.00	86.22	180.68	4795.40	-1099.68	-709.96	128487.32	2088129.04	37°11'53.41"	-98°11'53.41"	
5821.00	85.80	180.56	4797.55	-1130.60	-710.30	128456.40	2088128.70	37°11'53.42"	-98°11'53.42"	
5852.00	85.45	180.50	4799.92	-1161.51	-710.58	128425.49	2088128.42	37°11'53.41"	-98°11'53.42"	
5883.00	86.57	180.36	4802.08	-1192.43	-710.81	128394.57	2088128.19	37°11'53.43"	-98°11'53.43"	
5914.00	88.32	180.44	4803.46	-1223.40	-711.03	128363.60	2088127.97	37°11'53.43"	-98°11'53.43"	
5946.00	89.02	181.07	4804.20	-1255.39	-711.45	128331.61	2088127.55	37°11'53.44"	-98°11'53.44"	
5977.00	89.44	181.76	4804.62	-1286.38	-712.22	128300.62	2088126.78	37°11'53.45"	-98°11'53.45"	
6008.00	89.93	182.75	4804.79	-1317.35	-713.44	128269.65	2088125.56	37°11'53.46"	-98°11'53.46"	
6039.00	89.93	182.94	4804.82	-1348.31	-714.98	128238.69	2088124.02	37°11'53.49"	-98°11'53.49"	
6070.00	90.63	183.31	4804.67	-1379.27	-716.67	128207.73	2088122.33	37°11'53.51"	-98°11'53.51"	
6102.00	90.77	183.27	4804.28	-1411.21	-718.50	128175.79	2088120.50	37°11'53.53"	-98°11'53.53"	
6133.00	90.49	182.25	4803.94	-1442.17	-719.99	128144.83	2088119.01	37°11'53.55"	-98°11'53.55"	
6164.00	89.79	181.27	4803.87	-1473.16	-720.95	128113.84	2088118.05	37°11'53.56"	-98°11'53.56"	
6226.00	86.64	178.78	4805.80	-1535.11	-720.97	128051.89	2088118.03	37°11'53.57"	-98°11'53.57"	
6288.00	87.06	178.47	4809.20	-1597.00	-719.49	127990.00	2088119.51	37°11'53.55"	-98°11'53.55"	
6350.00	87.69	178.54	4812.04	-1658.92	-717.87	127928.08	2088121.13	37°11'53.39"	-98°11'53.53"	
6412.00	89.23	179.67	4813.71	-1720.88	-716.91	127866.12	2088122.09	37°11'53.52"	-98°11'53.52"	
6475.00	90.14	180.41	4814.06	-1783.88	-716.95	127803.12	2088122.05	37°11'53.53"	-98°11'53.53"	
6537.00	90.49	180.61	4813.72	-1845.88	-717.50	127741.12	2088121.50	37°11'53.54"	-98°11'53.54"	
6599.00	89.86	179.44	4813.53	-1907.88	-717.53	127679.12	2088121.47	37°11'53.54"	-98°11'53.54"	
6661.00	90.70	179.47	4813.22	-1969.87	-716.94	127617.13	2088122.06	37°11'53.53"	-98°11'53.53"	
6723.00	91.54	178.95	4812.01	-2031.85	-716.08	127555.15	2088122.92	37°0'59.70"	-98°11'53.53"	
6785.00	91.33	177.72	4810.46	-2093.81	-714.28	127493.19	2088124.72	37°0'59.09"	-98°11'53.51"	
6847.00	91.68	177.32	4808.83	-2155.73	-711.60	127431.27	2088127.40	37°0'58.48"	-98°11'53.48"	
6910.00	91.19	178.18	4807.25	-2218.66	-709.13	127368.34	2088129.87	37°0'57.86"	-98°11'53.45"	
6971.00	89.86	177.95	4806.69	-2279.62	-707.07	127307.38	2088131.93	37°0'57.25"	-98°11'53.42"	
7033.00	90.14	179.31	4806.69	-2341.60	-705.59	127245.40	2088133.41	37°0'56.64"	-98°11'53.41"	
7095.00	88.25	179.38	4807.56	-2403.60	-704.88	127183.41	2088134.12	37°0'56.03"	-98°11'53.40"	
7157.00	88.25	179.62	4809.46	-2465.56	-704.34	127121.44	2088134.66	37°0'55.41"	-98°11'53.40"	

5D Survey Report

Survey Points (Relative to Site centre, TVD relative to Drill Floor)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N. Offset (US ft)	E. Offset (US ft)	Northing (US ft)	Easting (US ft)	Latitude (° ' ")	Longitude (° ' ")	
7322.00	91.47	180.95	4809.64	-2540.54	-704.71	127046.46	2088134.29	37°0'54.67"	-98°11'53.41"	
7320.00	90.70	180.15	4807.97	-2628.52	-705.56	126958.48	2088133.44	37°0'53.80"	-98°11'53.42"	
7407.00	89.09	179.72	4808.13	-2715.52	-705.46	126871.48	2088133.54	37°0'52.94"	-98°11'53.42"	
7494.00	88.32	180.40	4810.10	-2802.50	-705.55	126784.50	2088133.45	37°0'52.08"	-98°11'53.43"	
7581.00	87.34	180.56	4813.39	-2889.43	-706.28	126697.57	2088132.72	37°0'51.22"	-98°11'53.44"	
7669.00	88.18	180.91	4816.83	-2977.35	-707.40	126609.65	2088131.60	37°0'50.35"	-98°11'53.46"	
7756.00	89.93	181.85	4818.27	-3064.31	-709.50	126522.69	2088129.50	37°0'49.49"	-98°11'53.49"	
7844.00	90.98	181.53	4817.57	-3152.27	-712.09	126434.73	2088126.91	37°0'48.63"	-98°11'53.52"	
7931.00	89.37	180.07	4817.30	-3239.26	-713.31	126347.74	2088125.69	37°0'47.77"	-98°11'53.54"	
8019.00	90.00	181.51	4817.79	-3327.24	-714.52	126259.76	2088124.48	37°0'46.90"	-98°11'53.56"	
8106.00	90.56	181.32	4817.36	-3414.21	-716.67	126172.79	2088122.33	37°0'46.04"	-98°11'53.59"	
8193.00	91.05	182.79	4816.14	-3501.15	-719.79	126085.85	2088119.21	37°0'45.18"	-98°11'53.63"	
8281.00	90.63	181.18	4814.85	-3589.08	-722.84	125997.92	2088116.16	37°0'44.31"	-98°11'53.67"	
8368.00	90.70	181.19	4813.84	-3676.06	-724.64	125910.94	2088114.36	37°0'43.45"	-98°11'53.70"	
8456.00	90.56	179.56	4812.87	-3764.05	-725.21	125822.95	2088113.79	37°0'42.58"	-98°11'53.71"	
8543.00	88.46	178.01	4813.62	-3851.02	-723.37	125735.98	2088115.63	37°0'41.72"	-98°11'53.69"	
8630.00	87.69	176.93	4816.54	-3937.88	-719.53	125649.12	2088119.47	37°0'40.86"	-98°11'53.64"	
8718.00	89.51	177.82	4818.69	-4025.76	-715.50	125561.24	2088123.50	37°0'39.99"	-98°11'53.60"	
8805.00	89.30	179.59	4819.59	-4112.73	-713.53	125474.27	2088125.47	37°0'39.13"	-98°11'53.58"	
8893.00	88.60	179.85	4821.47	-4200.71	-713.11	125386.29	2088125.89	37°0'38.26"	-98°11'53.58"	
8980.00	91.05	180.44	4819.16	-4287.70	-713.33	125299.30	2088125.67	37°0'37.40"	-98°11'53.58"	
9068.00	91.96	180.49	4819.16	-4375.67	-714.04	125211.33	2088124.96	37°0'36.53"	-98°11'53.59"	
9131.00	91.12	180.51	4817.47	-4438.64	-714.59	125148.36	2088124.41	37°0'35.91"	-98°11'53.60"	
9194.00	90.84	180.72	4816.39	-4501.63	-715.26	125085.37	2088123.74	37°0'35.28"	-98°11'53.61"	
9257.00	90.84	180.63	4815.47	-4564.62	-716.01	125022.38	2088122.99	37°0'34.66"	-98°11'53.63"	
9320.00	90.07	180.51	4814.97	-4627.61	-716.63	124959.39	2088122.37	37°0'34.04"	-98°11'53.64"	
9384.00	88.53	180.15	4815.75	-4691.61	-717.00	124895.39	2088121.83	37°0'33.41"	-98°11'53.65"	
9448.00	87.97	180.15	4817.70	-4755.58	-717.17	124831.42	2088121.83	37°0'32.77"	-98°11'53.65"	
9510.00	86.92	179.42	4820.47	-4817.51	-716.94	124769.49	2088122.06	37°0'32.16"	-98°11'53.65"	
9574.00	87.06	179.11	4823.83	-4881.42	-716.12	124705.58	2088122.88	37°0'31.53"	-98°11'53.64"	
9637.00	88.67	179.26	4826.17	-4944.37	-715.22	124642.63	2088123.78	37°0'30.91"	-98°11'53.63"	
9700.00	88.74	179.58	4827.60	-5007.35	-714.58	124579.65	2088124.42	37°0'30.28"	-98°11'53.63"	
9763.00	87.83	178.99	4829.48	-5070.31	-713.80	124516.69	2088125.20	37°0'29.66"	-98°11'53.62"	
9813.00	87.48	178.48	4831.53	-5120.26	-712.70	124456.74	2088126.30	37°0'29.17"	-98°11'53.61"	
9873.00	87.48	178.48	4834.17	-5180.18	-711.11	124406.82	2088127.89	37°0'28.58"	-98°11'53.59"	

Section 5
35S 8W

Section 4
35S 8W

MABEL 3508 1-4H

MABEL 3508 2-9H

BOB 3508 1-4H

BOB 3508 2-4H



SHAYNE SWD 3508 1-4

Miss Entry: 5086'

-98.198469 37.021071

BOB 3508 4-4H



Top Perf: 5100'
-98.19848 37.02096

BOB 3508 3-4H



Harper County

Section 8
35S 8W

Section 9
35S 8W

Bottom Perf: 9334'

-98.198178 37.009552

BHL: 9873'

-98.198115 37.00805

694' FWL

390' FSL



Actual Bottom-Hole Location of Mabel 3508 2-9H

T&R: 35S 8W

Section: 9, 694' FWL & 390' FSL

-98.198115 37.00805

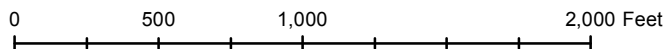
1 in = 667 ft

● Actual BH Location

* SandRidge Wells

--- Perf

□ Sections



Draftsman:

Dory Deines

Draft Date: 8/21/2014

Drawing Name/Number:

Addendum_Mabel 3508 2-9H.mxd

Coordinate System:

NAD 1927 State Plane
Kansas South FIPS: 1502