



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1205132
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: _____

1205132

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 <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

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> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Mohr 3406 1-21H
Doc ID	1205132

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	5637-5639	Frac - See Frac Focus Report	
5	5685-5687		
5	5736-5738		
5	5837-5839		
5	5928-5930		
5	5985-5987		
5	6031-6033		
5	6098-6100		

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	4/3/2014
Job End Date:	4/3/2014
State:	Kansas
County:	Harper
API Number:	15-077-22013-01-00
Operator Name:	SandRidge Energy
Well Name and Number:	Mohr 3406 1-21H
Longitude:	-97.96623000
Latitude:	37.07996000
Datum:	NAD27
Federal/Tribal Well:	NO
True Vertical Depth:	4,660
Total Base Water Volume (gal):	271,236
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	99.81383	
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	0.05796	SmartCare Product
NE-900, tote	Baker Hughes	Non-emulsifier	Methanol	67-56-1	30.00000	0.01376	SmartCare Product
			Nonyl phenyl polyethylene glycol ether	9016-45-9	10.00000	0.00459	SmartCare Product
Scaletrol 7208, 330 gal tote	Baker Hughes	Scale Inhibitor	Ethylene Glycol	107-21-1	30.00000	0.00726	
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		0.03669	
			Copolymer of Acrylamide and Sodium Acrylate	25987-30-8		0.02318	
			Copolymer	Trade Secret		0.01834	
			Hydrotreated Light Distillate	64742-47-8		0.01739	
			Sorbitan Monooleate	1338-43-8		0.00290	
			Nonyl Phenol Ethoxylate	127087-87-0		0.00290	

			Diethylene Glycol	111-46-6		0.00121	
			Potassium Chloride	7447-40-7			
			Calcium Chloride	10043-52-4			
			Sodium Chloride	7647-14-5			
			Polyacrylate	Trade Secret			
			2-Propenoic, Polymer with Sodium Phosphinate, Sodium Salt	71050-62-9			

* 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)

JOB SUMMARY			PROJECT NUMBER SOK 3442	TICKET DATE 03/03/14
COUNTY Harper	State Kansas	COMPANY Sandridge Exploration & Production	CUSTOMER REP Vince Brown	
LEASE NAME Mohr 3406	Well No. 1-21H	JOB TYPE Intermediate	EMPLOYEE NAME marcos quintana	

EMP NAME	Marcos Quintana				
	Wallace Berry				
	David Thomas				
	nate cotta				

Form. Name _____ Type: _____

Packer Type _____ Set At **3,650**

Bottom Hole Temp. **155** Pressure _____

Retainer Depth _____ Total Depth **5984**

	Called Out	On Location	Job Started	Job Completed
Date	3/1/2014	3/1/2014	3/3/2014	3/3/2014
Time	1830	2330	1000	1200

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

Well Data					
New/Used	Weight	Size	Grade	From	To
Casing	26#	7"		Surface	
Liner					
Liner					
Tubing		0			
Drill Pipe					
Open Hole		8 1/2"		Surface	6,009
Perforations					Shots/Ft.
Perforations					
Perforations					

Materials			
Mud Type	WBM	Density	9 Lb/Gal
Disp. Fluid	Fresh Water	Density	8.33 Lb/Gal
Spacer type	resh Wate BBL.		20 8.33
Spacer type	GEL	BBL.	10 10.00
Acid Type		Gal.	%
Acid Type		Gal.	%
Surfactant		Gal.	In
NE Agent		Gal.	In
Fluid Loss		Gal/Lb	In
Gelling Agent		Gal/Lb	In
Fric. Red.		Gal/Lb	In
MISC.		Gal/Lb	In

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
3/1	31.0	3/3	2.0	Intermediate
Total	31.0	Total	2.0	

Perfpac Balls _____ Qty. _____

Other _____

Other _____

Other _____

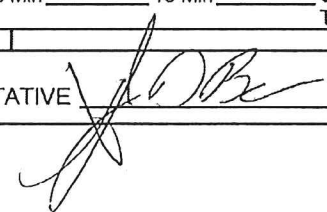
Other _____

Other _____

Pressures	
MAX	5.000 PSI
AVG	300
Average Rates in BPM	
MAX	8 BPM
AVG	5
Cement Left in Pipe	
Feet	45
Reason	SHOE JOINT

Cement Data							
Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal	
1	330	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	6.93	1.43	13.60	
2	100	Premium	0.2% FL-17 - 0.1% C-51 - 0.1% C-20 - 0.4% C-41P	5.19	1.19	15.60	
3	0	0		0	0.00	0.00	0.00

Summary								
Preflush	10	Type:	BENTONITE GEL	Preflush:	BBI	30.00	Type:	Gel Spacer
Breakdown		MAXIMUM	5,000 PSI	Load & Bkdn:	Gal - BBI	N/A	Pad:Bbl -Gal	N/A
		Lost Returns-N	NO/FULL	Excess /Return	BBI	N/A	Calc. Disp Bbl	222
		Actual TOC		Calc. TOC:		3.305	Actual Disp.	221.00
Average		Bump Plug PSI:	1,000	Final Circ.	PSI:	500	Disp:Bbl	
ISIP	5 Min.	10 Min	15 Min	Cement Slurry:	BBI	105.2		
				Total Volume	BBI	356.24		

CUSTOMER REPRESENTATIVE  SIGNATURE

JOB SUMMARY			PROJECT NUMBER SOK 3519	TICKET DATE 03/18/14
COUNTY Harper	State Kansas	COMPANY Bridge Exploration & Produc	CUSTOMER REP Vince Brown	
LEASE NAME Mohr 3406	Well No. 1-21H	JOB TYPE Misc Pumping	EMPLOYEE NAME Jared Sisco	

EMP NAME Jared Sisco	0				
0.00					
Randall Irvin					
Michael Bajo					

Form. Name _____ Type: _____
 Packer Type _____ Set At **0**
 Bottom Hole Temp. **150** Pressure _____
 Retainer Depth _____ Total Depth **0**

Date	Called Out 3/18/2014	On Location 3/18/2014	Job Started	Job Completed 3/18/2014
Time	4:00 AM	8:30 AM		1:30 PM

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

New/Used	Weight	Size	Grade	From	To	Max. Allow
Casing	11.6#	4 1/2"		Surface	0	1,500
Liner						
Liner						
Tubing		4"				
Drill Pipe						
Open Hole		6 1/8"		Surface	0	Shots/Ft.
Perforations						
Perforations						
Perforations						

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

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
3/18	5.0	3/18	0.0	Misc Pumping
Total	15.0	Total	0.0	

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

Cement Data						
Stage	Sacks	Cement	Additives	W/Rg.	Yield	Lbs/Gal
1	0	0		0	0.00	0.00
2	0	0		0	0.00	0.00
3	0	0		0	0.00	0.00

Summary					
Preflush Breakdown	Type: _____	MAXIMUM	1,500 PSI	Preflush: BBI	0.00
	Lost Returns-N	NO/FULL		Load & Bkdn: Gal - BBI	N/A
	Actual TOC	SURFACE		Excess /Return BBI	
Average	Bump Plug PSI:			Calc. TOC:	SURFACE
ISIP	5 Min. _____	10 Min. _____	15 Min. _____	Final Circ. PSI:	
				Cement Slurry: BBI	
				Total Volume BBI	0.00

CUSTOMER REPRESENTATIVE _____ SIGNATURE _____

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	5589	-332	5683
BHL	9200	90.70	0.50	4668.87	4230.24	-1152.56	4377.64	0.00	1342	3919	4578	705
Miss Entry	5594	86.65	356.80	4655.27	625.63	-1114.09	844.42	8.79	4947	314	4576	707
Top Perf	5637	88.73	357.72	4656.82	668.54	-1116.09	886.81	6.81	4904	357	4575	708
Bottom Perf	6211	88.64	0.63	4662.47	1242.26	-1128.85	1450.55	0.82	4330	931	4568	715

Survey Points	NW Corner XY Coord	X	Y	Surface XY	X	Y	m			
							North Line slope	0.0143885		
								East Line slope	-0.0112231	
									South Line slope	0.0183643
SE Corner XY Coord	2156022	145842	West Line slope	-0.0111785						

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
723	0.30	60.70	723.00	0.9	1.7	0.56	0.04	5588	-332	5685	-402
954	0.60	22.00	953.99	2.3	2.6	1.74	0.18	5586	-330	5686	-403
1416	0.70	48.90	1415.96	6.4	5.7	5.12	0.07	5582	-326	5689	-406
1889	0.60	46.90	1888.93	10.0	9.6	7.80	0.02	5579	-323	5693	-410
2362	0.50	43.60	2361.91	13.2	12.9	10.24	0.02	5576	-319	5696	-413
2836	0.30	49.70	2835.90	15.5	15.3	11.99	0.04	5573	-317	5699	-416
3311	0.40	15.80	3310.89	17.9	16.7	14.05	0.05	5571	-315	5700	-417
3595	0.50	23.20	3594.88	20.0	17.4	15.94	0.04	5569	-313	5701	-418
3659	1.30	189.10	3658.88	19.6	17.4	15.49	2.80	5569	-313	5701	-418
3691	3.50	211.50	3690.85	18.4	16.8	14.44	7.35	5571	-314	5700	-417
3723	5.50	229.30	3722.75	16.5	15.2	13.00	7.55	5572	-316	5699	-416
3755	7.90	235.10	3754.53	14.3	12.2	11.41	7.78	5575	-318	5696	-413
3787	10.50	238.10	3786.11	11.5	7.9	9.56	8.26	5577	-321	5691	-408
3818	13.00	241.00	3816.46	8.3	2.5	7.59	8.28	5580	-324	5686	-403
3849	15.30	245.30	3846.52	4.9	-4.3	5.68	8.15	5584	-327	5679	-396
3881	17.10	252.30	3877.25	1.7	-12.6	4.29	8.29	5587	-330	5671	-388
3913	18.40	261.60	3907.73	-0.5	-22.1	4.15	9.73	5589	-332	5661	-378
3944	18.70	272.20	3937.13	-1.0	-31.9	5.68	10.91	5589	-333	5652	-368
3975	20.80	277.70	3966.31	-0.1	-42.3	8.76	9.04	5588	-332	5641	-358
4007	24.00	277.80	3995.89	1.6	-54.4	12.90	10.00	5586	-330	5629	-346
4038	27.20	278.40	4023.84	3.5	-67.7	17.51	10.36	5584	-328	5616	-333
4070	30.30	278.10	4051.89	5.7	-82.9	22.85	9.70	5582	-325	5601	-318
4101	33.70	275.60	4078.18	7.6	-99.2	28.15	11.77	5580	-323	5584	-301
4133	36.90	272.60	4104.30	8.9	-117.6	33.28	11.37	5578	-321	5566	-283
4164	39.80	272.50	4128.60	9.8	-136.9	38.12	9.36	5577	-320	5547	-264
4196	42.10	274.60	4152.77	11.1	-157.8	43.77	8.38	5575	-318	5526	-243
4227	45.00	275.00	4175.24	12.9	-179.1	49.96	9.40	5573	-316	5505	-221
4259	47.70	273.90	4197.33	14.7	-202.1	56.53	8.80	5571	-314	5481	-198
4291	50.40	272.10	4218.30	15.9	-226.3	62.80	9.45	5569	-312	5457	-174
4322	52.90	270.90	4237.53	16.5	-250.6	68.49	8.62	5569	-311	5433	-150
4354	55.50	270.80	4256.25	16.9	-276.5	74.29	8.13	5568	-310	5407	-124
4385	56.50	270.50	4273.58	17.2	-302.2	79.94	3.32	5567	-310	5381	-98
4417	56.70	270.00	4291.20	17.3	-328.9	85.63	1.45	5567	-309	5355	-72
4448	56.60	270.40	4308.24	17.4	-354.8	91.12	1.13	5566	-308	5329	-46
4480	58.30	270.40	4325.46	17.6	-381.8	96.94	5.31	5566	-308	5302	-19
4512	61.10	270.60	4341.60	17.9	-409.4	102.94	8.77	5565	-307	5274	9
4543	64.10	270.90	4355.86	18.2	-436.9	109.04	9.72	5564	-306	5247	36
4575	65.40	272.80	4369.52	19.2	-465.9	115.99	6.73	5563	-305	5218	65
4606	65.00	275.40	4382.52	21.2	-493.9	123.82	7.72	5560	-302	5190	93
4638	64.60	278.00	4396.15	24.5	-522.7	133.12	7.46	5557	-298	5161	122
4670	64.90	281.30	4409.80	29.4	-551.2	143.82	9.37	5551	-293	5133	151
4701	65.40	283.90	4422.83	35.5	-578.7	155.55	7.78	5545	-286	5105	178
4733	66.50	287.00	4435.87	43.3	-606.8	169.05	9.49	5537	-278	5077	206
4764	67.60	289.90	4447.96	52.4	-633.9	183.54	9.32	5527	-268	5050	233
4796	67.60	292.80	4460.16	63.1	-661.5	199.82	8.38	5516	-257	5023	260
4827	67.60	293.50	4471.97	74.4	-687.8	216.34	2.09	5504	-245	4996	287
4859	67.40	293.10	4484.22	86.1	-715.0	233.45	1.31	5492	-233	4969	314
4891	69.00	293.40	4496.10	97.8	-742.3	250.62	5.08	5480	-221	4942	341
4922	69.70	295.70	4507.04	109.9	-768.6	267.91	7.30	5468	-208	4916	367
4954	69.90	298.40	4518.09	123.5	-795.4	286.85	7.94	5454	-194	4889	394
4985	70.50	301.20	4528.59	138.0	-820.7	306.31	8.72	5439	-179	4864	419
5017	71.30	303.60	4539.06	154.2	-846.2	327.48	7.52	5422	-163	4839	444
5049	71.70	306.30	4549.22	171.6	-871.1	349.67	8.10	5405	-145	4814	469
5080	72.90	308.70	4558.64	189.6	-894.5	372.15	8.33	5386	-126	4791	492
5112	73.70	311.30	4567.84	209.3	-918.0	396.31	8.17	5366	-106	4768	515
5143	74.70	314.40	4576.28	229.6	-939.9	420.72	10.15	5346	-86	4746	537
5175	75.50	317.40	4584.51	251.8	-961.4	446.92	9.40	5323	-63	4725	558
5206	76.10	320.20	4592.12	274.4	-981.2	473.17	8.97	5300	-40	4705	578
5238	77.20	323.30	4599.51	298.8	-1000.4	501.10	10.03	5275	-15	4686	597
5269	78.60	326.50	4606.01	323.6	-1017.9	528.99	11.06	5250	10	4669	614
5301	79.70	329.70	4612.03	350.3	-1034.5	558.55	10.41	5223	37	4653	630
5333	79.80	332.60	4617.73	377.9	-1049.7	588.69	8.92	5196	65	4638	645
5364	79.70	335.40	4623.25	405.3	-1063.0	618.29	8.89	5168	92	4625	658
5396	79.70	338.60	4628.97	434.3	-1075.3	649.20	9.84	5139	122	4613	670

Measured Depth (ft)	Sub-Sea Incl. (deg)	Vertical Azim. (ft)	True Vert Depth (ft)	Northings (+) Southings (-)		Eastings (+) Westings (-)		Vert Section (ft)	DLS deg/100' (deg)	FNL	FSL	FWL	FEL
				(ft)	(ft)	(ft)	(ft)						
5427	80.20	342.40	4634.38	463.0	-1085.5	679.46	12.18	5110	151	4603	680		
5459	81.40	345.20	4639.50	493.4	-1094.3	710.96	9.42	5080	181	4595	688		
5491	81.90	347.40	4644.15	524.1	-1101.8	742.60	6.98	5049	212	4587	696		
5522	82.60	351.50	4648.33	554.3	-1107.4	773.30	13.30	5018	242	4582	701		
5553	83.80	354.60	4652.00	584.9	-1111.2	803.96	10.66	4988	273	4579	704		
5585	86.00	356.50	4654.84	616.6	-1113.6	835.55	9.07	4956	305	4577	706		
5621	88.60	357.70	4656.54	652.6	-1115.5	871.05	7.95	4920	341	4575	708		
5721	89.40	357.80	4658.29	752.5	-1119.4	969.57	0.81	4820	441	4572	711		
5866	89.70	357.90	4659.42	897.4	-1124.8	1112.41	0.22	4675	586	4569	714		
5962	90.30	358.40	4659.42	993.3	-1127.9	1206.89	0.81	4579	682	4567	716		
6057	89.50	359.80	4659.59	1088.3	-1129.4	1300.09	1.70	4484	777	4566	717		
6152	88.70	0.20	4661.08	1183.3	-1129.4	1392.99	0.94	4389	872	4567	716		
6248	88.60	0.90	4663.34	1279.2	-1128.5	1486.65	0.74	4293	968	4569	714		
6342	88.10	1.10	4666.05	1373.2	-1126.9	1578.18	0.57	4199	1061	4572	711		
6437	88.30	1.10	4669.03	1468.1	-1125.0	1670.65	0.21	4104	1156	4575	708		
6532	88.60	0.80	4671.60	1563.1	-1123.5	1763.18	0.45	4009	1251	4577	706		
6627	89.10	359.70	4673.51	1658.1	-1123.0	1855.98	1.27	3914	1346	4579	704		
6652	88.90	359.60	4673.95	1683.1	-1123.2	1880.45	0.89	3889	1371	4579	704		
6746	90.30	359.40	4674.60	1777.0	-1124.0	1972.55	1.50	3795	1465	4579	704		
6841	90.70	359.30	4673.77	1872.0	-1125.1	2065.67	0.43	3700	1560	4579	704		
6936	91.10	358.80	4672.28	1967.0	-1126.7	2158.88	0.67	3605	1655	4579	704		
7031	90.80	358.80	4670.71	2062.0	-1128.7	2252.17	0.32	3510	1750	4578	705		
7127	90.20	359.40	4669.87	2158.0	-1130.2	2346.35	0.88	3414	1846	4577	706		
7221	91.20	358.80	4668.72	2251.9	-1131.6	2438.57	1.24	3320	1940	4577	706		
7316	91.30	359.60	4666.65	2346.9	-1133.0	2531.72	0.85	3225	2035	4577	706		
7411	90.70	359.80	4664.99	2441.9	-1133.5	2624.72	0.67	3130	2130	4577	706		
7506	90.80	359.50	4663.75	2536.9	-1134.0	2717.73	0.33	3035	2225	4578	705		
7600	90.40	0.50	4662.76	2630.9	-1134.0	2809.66	1.15	2941	2319	4579	704		
7695	90.40	0.60	4662.10	2725.9	-1133.1	2902.37	0.11	2846	2414	4581	702		
7787	89.60	0.20	4662.10	2817.9	-1132.5	2992.20	0.97	2755	2506	4582	701		
7883	89.30	359.60	4663.02	2914	-1133	3086.12	0.70	2659	2602	4583	700		
7977	89.50	359.10	4664.01	3008	-1134	3178.26	0.57	2564	2696	4583	700		
8072	88.30	358.10	4665.83	3103	-1136	3271.60	1.64	2470	2791	4582	701		
8167	92.40	358.50	4665.25	3198	-1139	3365.03	4.34	2375	2886	4580	703		
8263	92.80	358.80	4660.89	3294	-1141	3459.27	0.52	2279	2982	4579	704		
8358	90.80	358.10	4657.91	3389	-1144	3552.62	2.23	2184	3077	4578	705		
8453	90.00	358.70	4657.25	3483	-1146	3646.04	1.05	2089	3172	4576	707		
8548	89.60	359.20	4657.58	3578	-1148	3739.30	0.67	1994	3267	4575	708		
8643	88.10	359.00	4659.48	3673	-1150	3832.48	1.59	1899	3362	4575	708		
8738	88.10	359.40	4662.63	3768	-1151	3925.61	0.42	1804	3457	4575	708		
8832	87.70	359.30	4666.08	3862	-1152	4017.69	0.44	1710	3551	4575	708		
8927	89.10	359.60	4668.73	3957	-1153	4110.74	1.51	1615	3646	4575	708		
9022	89.40	359.70	4669.98	4052	-1153	4203.76	0.33	1520	3741	4575	708		
9116	90.70	0.50	4669.89	4146	-1153	4295.65	1.62	1426	3835	4577	706		
9173	90.70	0.50	4669.20	4203	-1153	4351.29	0.00	1369	3892	4578	705		
9200	90.70	0.50	4668.87	4230	-1153	4377.64	0.00	1342	3919	4578	705		

JOB SUMMARY			PROJECT NUMBER SOK 3422	TICKET DATE 02/17/14
COUNTY Harper	State Kansas	COMPANY Bridge Exploration & Produc	CUSTOMER REP Vince Brown	
LEASE NAME Mohr 3406	Well No. 1-21H	JOB TYPE Surface	EMPLOYEE NAME LOUIS ARNEY	

EMP NAME					
Louis Arney	0				
Vontray Watkins					
Randell Irvine					
0.00					

Form. Name _____ Type: _____

Packer Type _____ Set At 0

Bottom Hole Temp. 80 Pressure _____

Retainer Depth _____ Total Depth 700'

Date	Called Out 2/17/2014	On Location 2/17/2014	Job Started 2/17/2014	Job Completed 2/17/2014
Time	0000	0500	0700	0900

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

Well Data							
	New/Used	Weight	Size	Grade	From	To	Max. Allow
Casing		36#	9 5/8"		Surface	700'	1,500
Liner							
Liner							
Tubing			0				
Drill Pipe							
Open Hole			12 1/4"		Surface	700'	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

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
2/17	4.0	2/17	1.0	Surface
Total	4.0	Total	1.0	

Perfpac Balls _____ Qty. _____

Other _____

Other _____

Other _____

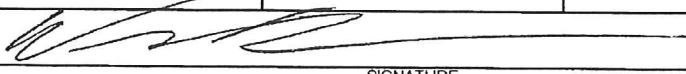
Other _____

Other _____

Pressures		
MAX	1,500 PSI	AVG. 200
Average Rates in BPM		
MAX	6 BPM	AVG 4
Cement Left in Pipe		
Feet	44	Reason SHOE JOINT

Cement Data						
Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	190	EX Lite Premium Plus 65	(6% Gel) 2% Calcium Chloride - 1/4pps Cello-Flake - .5% C-41P	11.11	2.01	12.40
2	160	Premium Plus (Class C)	2% 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: _____	MAXIMUM _____	Preflush: BBI _____	Type: Fresh Water	_____
	Lost Returns-N _____	NO/FULL _____	Load & Bkdn: Gal - BBI _____	Pad:Bbl -Gal _____	N/A
	Actual TOC _____	SURFACE _____	Excess /Return BBI _____	Calc.Disp Bbl _____	50
Average	Bump Plug PSI: _____	700 _____	Calc. TOC: _____	Actual Disp. _____	49.00
ISIP _____	5 Min. _____	10 Min. _____	Final Circ. PSI: _____	Disp:Bbl _____	
		15 Min. _____	Cement Slurry: BBI _____		
			Total Volume BBI _____		164.00

CUSTOMER REPRESENTATIVE  SIGNATURE

Section 16
34S 6W

Section 15
34S 6W

1420' FNL

824' FEL

BHL: 9200'
-97.96856 37.076506

Section 21
34S 6W

Section 22
34S 6W

Harper County

Bottom Perf: 6211'
-97.968264 37.068509

Top Perf: 5637'
-97.968174 37.066806

Miss Entry: 5594'
-97.968165 37.066708

Section 28
34S 6W

MOHR 3406 1-21H

RUTH 3406 1-22H

JOYCE 3406 1-27H

YOUNG 3406 1-28H

Section 27
34S 6W



Actual Bottom-Hole Location of Mohr 3406 1-21H
Harper County, Kansas
T&R: 34S 6W
Section: 21, 824' FEL & 1420' FNL
-97.96856 37.076506

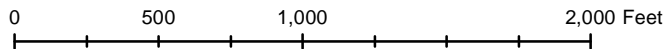
1

< Actual BH Location

| SandRidge Wells

1 in = 667 ft

--- Perf



□ Sections

Draftsman:

Aaron Birk

Draft Date: 5/21/2014

Drawing Name/Number:

Addendum_Mohr 3406 1-21H.mxd

Coordinate System:

NAD 1927 State Plane
Kansas South FIPS: 1502