Confidentiality Requested: Yes No

### KANSAS CORPORATION COMMISSION **OIL & GAS CONSERVATION DIVISION**

1090742

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 #	API No. 15		
Name:	Spot Description:		
Address 1:			
Address 2:	Feet from Dorth / South Line of Section		
City: State: Zip:+	Feet from East / West Line of Section		
Contact Person:	Footages Calculated from Nearest Outside Section Corner:		
Phone: ()			
CONTRACTOR: License #	GPS Location: Lat:, Long:		
Name:	(e.g. xx.xxxxx) (e.gxxx.xxxxx)		
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84		
Purchaser:	County:		
Designate Type of Completion:	Lease Name: Well #:		
New Well Re-Entry Workover	Field Name:		
	Producing Formation:		
Oil WSW SWD SIOW	Elevation: Ground: Kelly Bushing:		
	Total Vertical Depth: Plug Back Total Depth:		
OG GSW Temp. Abd.     CM (Coal Bed Methane)	Amount of Surface Pipe Set and Cemented at: Feet		
Cathodic Other (Core, Expl., etc.):	Multiple Stage Cementing Collar Used?		
If Workover/Re-entry: Old Well Info as follows:	If yes, show depth set: Feet		
Operator:	If Alternate II completion, cement circulated from:		
Well Name:	feet depth to:w/sx cmt.		
Original Comp. Date: Original Total Depth:			
Deepening Re-perf. Conv. to ENHR Conv. to SWD	Drilling Fluid Management Plan		
Plug Back     Conv. to GSW     Conv. to Producer	(Data must be collected from the Reserve Pit)		
	Chloride content: ppm Fluid volume: bbls		
Commingled Permit #:	Dewatering method used:		
Dual Completion Permit #:			
SWD Permit #:	Location of fluid disposal if hauled offsite:		
ENHR Permit #:      GSW Permit #:	Operator Name:		
	Lease Name: License #:		
Spud Date or Date Reached TD Completion Date or	Quarter Sec TwpS. R East West		
Spud Date orDate Reached TDCompletion Date orRecompletion DateRecompletion Date	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 Approved by: Date:			

	Page Iwo	1090742
Operator Name:	Lease Name:	Well #:
Sec TwpS. 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 (Attach Additional She	ets)	Yes No		0	on (Top), Depth ar		Sample
Samples Sent to Geolog	ical Survey	Yes No	Nam	9		Тор	Datum
Cores Taken Electric Log Run		Yes No					
List All E. Logs Run:							
		CASING Report all strings set-c	RECORD Ne		ion, 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 / SQU	EEZE RECORD			

Purpose: Perforate	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
Protect Casing				
Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well?	Yes
Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?	Yes
Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?	Yes

 No
 (If No, skip questions 2 and 3)

 No
 (If No, skip question 3)

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			A		ement Squeeze Record d of Material Used)	Depth		
TUBING RECORD:	Siz	ze:	Set At:		Packe	r At:	Liner Ru	in: Yes	No	
Date of First, Resumed	I Product	ion, SWD or ENHF	ł.	Producing N	lethod:	ping	Gas Lift	Other <i>(Explain)</i>		
Estimated Production Per 24 Hours		Oil Bbl	S.	Gas	Mcf	Wate	er	Bbls.	Gas-Oil Ratio	Gravity
									1	
DISPOSITI	ION OF C	GAS:			METHOD	OF COMPLE	TION:		PRODUCTION INT	ERVAL:
Vented Solo	d 🗌 l	Used on Lease		Open Hole	Perf.	Dually		Commingled		
(If vented, Su	ıbmit ACC	)-18.)		Other <i>(Specify)</i>		(Submit /		(Submit ACO-4)		

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Vornauf 2-18H
Doc ID	1090742

### Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	10074-10076	1059 bbls water, 120 bbls acid, 1179 TLTR	
5	9756-9759	3214 bbls water, 48 bbls acid, 55M lbs sd, 4441 TLTR	
5	9436-9440	3175 bbls water, 48 bbls acid, 55M lbs sd, 7664 TLTR	
5	9118-9121	3177 bbls water, 48 bbls acid, 55M lbs sd, 10889 TLTR	
5	8800-8803	3163 bbls water, 48 bbls acid, 55M lbs sd, 14100 TLTR	
5	8482-8485	3139 bbls water, 48 bbls acid, 55M lbs sd, 17286 TLTR	
5	8163-8166	3109 bbls water, 48 bbls acid, 55M lbs sd, 20442 TLTR	
5	7849-7852	3099 bbls water, 48 bbls acid, 55M lbs sd, 23588 TLTR	
5	7530-7534	3116 bbls water, 48 bbls acid, 55M lbs sd, 26752 TLTR	
5	7213-7217	3207 bbls water, 48 bbls acid, 55M lbs sd, 30007 TLTR	

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Vornauf 2-18H
Doc ID	1090742

### Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	6895-6898	3130 bbls water, 48 bbls acid, 55M lbs sd, 33185 TLTR	
5	6577-6581	3294 bbls water, 46 bbls acid, 55M lbs sd, 36525 TLTR	
5	6260-6263	3117 bbls water, 48 bbls acid, 55M lbs sd, 39690 TLTR	
5	5942-5946	3148 bbls water, 48 bbls acid, 55M lbs sd, 42886 TLTR	
5	5626-5630	3132 bbls water, 48 bbls acid, 55M lbs sd, 46066 TLTR	

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Vornauf 2-18H
Doc ID	1090742

### 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	20	75	100	4500 PSI concrete	11	none
Surface	12.25	9.63	36	832	Extendace m and swiftcem systems	420	3% Calcium Chloride, .25 lbm Poly-E- Flake
Intermedia te	8.75	7	26	5404	50/50 Poz Standard/ Premium	290	.4% Halad(R)- 9, 2 lbm Kol-Seal, 2% Bentonite
Liner	6.12	4.5	11.6	9999	na	0	na



Phone: 316-337-6200 Fax: 316-337-6211 http://kcc.ks.gov/

Mark Sievers, Chairman Thomas E. Wright, Commissioner Sam Brownback, Governor

August 15, 2012

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

Re: ACO1 API 15-077-21859-01-00 Vornauf 2-18H NE/4 Sec.07-35S-07W Harper 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



### Survey **VORNAUF 2-18H**

123 Robert S. Kerr Ave.

### Oklahoma City, OK 73102 Step #1 - Create a Deviation Survey Step #2 - Attach the survey "Description" to the Wellbore - Deviation Survey Wellbores - Step #2 Actual Deviation Survey Wellbore Name **Original Hole** Vornauf 2-18H, Proposed? No **Deviation Surveys - Step #1** Description Date VS Dir (°) Comment Vornauf 2-18H 7/12/2012 **Tie-in Data** NSTie In (ft) TVDTie In (ftKB) EWTie In (ft) Azimuth North Type Convergence (°) Declination (°) MD Tie In (ftKB) Azimuth Tie In (°) Inclination Tie In (°) Survey Data MD (ftKB) Incl (°) Azm (°) Survey Company Method TVD (ftKB) VS (ft) NS (ft) EW (ft) DLS (°/100ft) Baker Hughes INTEQ 1.064 0.7 222.03 MWD 1,064 5 4.90 -4.41 0.07 1,526 0.3 MWD 1,526 8 -8.33 -5.93 0.13 162.99 Baker Hughes INTEQ -5.56 0.02 1,994 0.3 181.56 Baker Hughes INTEQ MWD 1,994 11 -10.97 -13.47 -5.82 0.01 2,469 0.3 191.00 Baker Hughes INTEQ MWD 2,469 13 2,944 MWD 15 -3.58 0.14 2.944 0.6 102.26 Baker Hughes INTEQ -15.19 3,418 0.6 30.33 Baker Hughes INTEQ MWD 3,418 14 -13.62 0.12 0.15 0.10 3.914 0.5 339.26 Baker Hughes INTEQ MWD 3,914 9 -9.39 0.64 3,964 0.8 265.02 **Baker Hughes INTEQ** 9 -9.22 0.23 1.59 MWD 3.964 3,996 3.3 209.87 Baker Hughes INTEQ MWD 3,996 10 -10.03 -0.44 9.09 4.028 6.5 **Baker Hughes INTEQ** MWD 4,028 13 -12.56 -1.40 10.54 196.17 -2.59 7.88 4,059 8.9 196.90 **Baker Hughes INTEQ** MWD 4,058 16 -16.53 -22.00 -4.21 4,091 11.6 196.33 **Baker Hughes INTEQ** MWD 4,090 22 8.54 -5.98 6.34 4,123 13.6 193.20 4,121 29 -28.75 Baker Hughes INTEQ MWD 4,154 15.0 190.85 Baker Hughes INTEQ MWD 4,151 36 -36.23 -7.56 5.07 4.186 16.8 189.32 Baker Hughes INTEQ MWD 4.182 45 -44.85 -9.09 5.65 4,218 186.33 Baker Hughes INTEQ -54.57 -10.41 7.36 18.9 MWD 4.212 54 4.249 21.6 185.00 Baker Hughes INTEQ MWD 4.242 -65.25 -11.46 8.61 4,281 23.9 182.32 MWD 77 -77.58 -12.24 7.85 Baker Hughes INTEQ 4,271 4,312 26.0 181.06 **Baker Hughes INTEQ** MWD 4,299 90 -90.65 -12.62 7.21 4,344 28.1 181.67 Baker Hughes INTEQ MWD 4,328 105 -105.19 -12.97 6.37 4,376 30.1 181.70 Baker Hughes INTEQ MWD 4,356 121 -120.73 -13.42 6.38 -137.22 4,408 32.0 180.70 **Baker Hughes INTEQ** MWD 4,383 137 -13.77 6.09 4,439 33.7 178.84 **Baker Hughes INTEQ** MWD 4,409 154 -154.02 -13.69 6.32 -172.14 -13.25 5.41 Baker Hughes INTEQ 172 4,471 35.4 178.37 MWD 4.435 4,502 37.2 178.25 Baker Hughes INTEQ MWD 4.460 190 -190.47-12.71 5.91 4,534 38.6 178.49 Baker Hughes INTEQ MWD 4,486 210 -210.12-12.154.52 -12.15 4.52 4,534 37.2 178.25 Baker Hughes INTEQ MWD 4,486 210 -210.12178.99 Baker Hughes INTEQ 230 -230.10 -11.67 9.24 4,566 40.1 MWD 4,511 251 -251.20 -11.39 7.22 4,598 42.4 179.46 **Baker Hughes INTEQ** MWD 4.535 272 4,629 43.7 179.11 **Baker Hughes INTEQ** MWD 4,557 -272.36 -11.124.30 4,661 45.6 178.97 Baker Hughes INTEQ MWD 4,580 295 -294.84 -10.75 5.76 4,693 48.3 178.80 **Baker Hughes INTEQ** MWD 4,602 318 -318.21 -10.29 873 4,738 50.7 177.87 Baker Hughes INTEQ MWD 4,631 352 -352.42 -9.29 5.41

4,788

4,833

4 874

4,915

4,946

4,946

4,976

5,010

5,042

5,073

5.105

5,137

50.7

50.2

49.9

49.9

52.8

52.8

55.3

58.2

61.7

65.1

68.7

72.0

177.48

176.49

175.92

175.45

176.65

176.65

178.69

179.29

178.64

179.36

Baker Hughes INTEQ

**Baker Hughes INTEQ** 

**Baker Hughes INTEQ** 

Baker Hughes INTEQ

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**Baker Hughes INTEQ** 

**Baker Hughes INTEQ** 

Baker Hughes INTEQ

178.72 Baker Hughes INTEQ

180.12 Baker Hughes INTEQ

MWD

4.663

4,692

4,718

4,744

4,764

4.764

4,781

4,800

4,816

4,830

4.842

4.853

391

426

457

488

512

512

537

565

593

621

650

680

-391.07

-425.73

-457.09

-488.37

-512.53

-512.53

-536.80

-565.22

-592.92

-620.63

-650.05

-680.18

-7.72

-5.90

-3.82

-1.46

0.20

0.20

1.19

1.68

2.19

2.83

3.32

3.45

0.61 2.00

1.38

0.89

9.80

9.80

9.93

8.60

11.23

10.87

11.21

10.77

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### Survey VORNAUF 2-18H

123 Robert S. Kerr Ave. Oklahoma City, OK 73102

Step #1 - Create a Deviation Survey #2 - Attach the survey "Description" to the Wellbore - Deviation Survey

Survey Data						() ( in the interview of the interview o	1204-01-11-11		· 日本的
MD (ftKB)	Incl (°)	Azm (°)	Survey Company	Method	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
5,169	74.6		Baker Hughes INTEQ	MWD	4,862	711	-710.83	3.36	8.13
5,200	77.2		Baker Hughes INTEQ	MWD	4,870	741	-740.89	3.20	8.24
5,232	79.8		Baker Hughes INTEQ	MWD	4,876	772	-772.24	3.01	8.16
5,264	82.2		Baker Hughes INTEQ	MWD	4,881	804	-803.85	2.78	7.67
5,295	84.1	180.32	Baker Hughes INTEQ	MWD	4,885	835	-834.63	2.57	6.15
5,327	85.2	180.21	Baker Hughes INTEQ	MWD	4,888	866	-866.48	2.42	3.24
5,359	87.5	180.02	Baker Hughes INTEQ	MWD	4,890	898	-898.42	2.36	7.34
5,427	89.6	181.11	Baker Hughes INTEQ	MWD	4,892	966	-966.39	1.69	3.44
5,491	89.8	181.19	Baker Hughes INTEQ	MWD	4,892	1,030	-1,030.37	0.40	0.31
5,554	89.2	181.33	Baker Hughes INTEQ	MWD	4,893	1,093	-1,093.35	-0.98	0.90
5,618	89.3	181.10	Baker Hughes INTEQ	MWD	4,893	1,157	-1,157.33	-2.34	0.39
5,681	88.9	181.37	Baker Hughes INTEQ	MWD	4,894	1,220	-1,220.31	-3.70	0.78
5,744	88.6	181.00	Baker Hughes INTEQ	MWD	4,896	1,283	-1,283.28	-5.00	0.70
5,808	88.5	181.11	Baker Hughes INTEQ	MWD	4,897	1,347	-1,347.25	-6.18	0.24
5,903	90.0	179.62	Baker Hughes INTEQ	MWD	4,899	1,442	-1,442.24	-6.78	2.18
5,998	89.5	179.55	Baker Hughes INTEQ	MWD	4,899	1,537	-1,537.23	-6.09	0.49
6,093	89.6	178.26	Baker Hughes INTEQ	MWD	4,900	1,632	-1,632.21	-4.28	1.36
6,188	89.9		Baker Hughes INTEQ	MWD	4,900	1,727	-1,727.19	-2.37	1.28
6,283	90.3		Baker Hughes INTEQ	MWD	4,900	1,822	-1,822.19	-2.09	0.91
6,378	90.1		Baker Hughes INTEQ	MWD	4,900	1,917	-1,917.19	-2.57	0.25
6,473	89.6		Baker Hughes INTEQ	MWD	4,900	2,012	-2,012.18	-3.51	0.66
6,568	89.2		Baker Hughes INTEQ	MWD	4,901	2,107	-2,107.17	-3.99	1.09
6,663	89.4		Baker Hughes INTEQ	MWD	4,902	2,202	-2,202.16	-3.51	0.31
6,758	88.4		Baker Hughes INTEQ	MWD	4,904	2,297	-2,297.14	-3.03	1.08
6,853	89.3		Baker Hughes INTEQ	MWD	4,906	2,392	-2,392.12	-2.48	1.00
6,949	90.5		Baker Hughes INTEQ	MWD	4,906	2,488	-2,488.11	-1.34	1.32
7,044	89.9		Baker Hughes INTEQ	MWD	4,906	2,583	-2,583.11	-0.13	0.70
7,139	89.3		Baker Hughes INTEQ	MWD	4,907	2,678	-2,678.09	1.12	0.81
7,193	90.2		Baker Hughes INTEQ	MWD	4,907	2,070	-2,732.09	1.98	1.78
7,257	91.5		Baker Hughes INTEQ	MWD	4,907	2,796	-2,796.07	2.84	2.05
7,352	91.8		Baker Hughes INTEQ	MWD	4,903	2,790	-2,891.03	4.00	0.29
7,447	92.3		Baker Hughes INTEQ	MWD	4,903	2,091	-2,985.95	5.74	0.29
7,542	91.7		Baker Hughes INTEQ	MWD			-3,080.87	7.64	0.82
7,542	91.9		Baker Hughes INTEQ	MWD	4,896	3,081			0.74
7,037	89.8		Baker Hughes INTEQ		4,893	3,176	-3,175.81	9.10	
7,732	89.2		•	MWD MWD	4,892	3,271	-3,270.78	10.75	2.34
			Baker Hughes INTEQ Baker Hughes INTEQ		4,893	3,367	-3,366.77	12.24	0.88
7,923	89.2			MWD	4,894	3,462	-3,461.75	13.13	0.12
8,018	91.5		Baker Hughes INTEQ	MWD	4,894	3,557	-3,556.74	12.88	2.81
8,113	91.1		Baker Hughes INTEQ	MWD	4,892	3,652	-3,651.71	11.56	0.49
8,208	91.1		Baker Hughes INTEQ	MWD	4,890	3,746	-3,746.68	10.20	0.00
8,303	90.3		Baker Hughes INTEQ	MWD	4,889	3,841	-3,841.67	9.64	1.30
8,398	90.7		Baker Hughes INTEQ	MWD	4,888	3,936	-3,936.66	8.73	1.51
8,493	90.9		Baker Hughes INTEQ	MWD	4,886	4,031	-4,031.64	7.24	0.79
8,588	88.6		Baker Hughes INTEQ	MWD	4,887	4,126	-4,126.63	6.72	2.46
8,683	88.4		Baker Hughes INTEQ	MWD	4,889	4,221	-4,221.59	7.88	1.63
8,778	90.4		Baker Hughes INTEQ	MWD	4,890	4,316	-4,316.51	11.55	2.58
8,873	90.6		Baker Hughes INTEQ	MWD	4,889	4,411	-4,411.47	13.63	3.56
8,968	90.9		Baker Hughes INTEQ	MWD	4,888	4,506	-4,506.46	13.63	0.96
9,063	87.6		Baker Hughes INTEQ	MWD	4,889	4,601	-4,601.43	14.55	3.50
9,158	88.3		Baker Hughes INTEQ	MWD	4,893	4,696	-4,696.36	15.90	0.82
9,253	90.2		Baker Hughes INTEQ	MWD	4,894	4,791	-4,791.34	17.26	1.92
9,348	91.0	179.27	Baker Hughes INTEQ	MWD	4,893	4,886	-4,886.33	18.47	0.92

Step

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### Survey VORNAUF 2-18H

123 Robert S. Kerr Ave. Oklahoma City, OK 73102

# Step #1 - Create a Deviation Survey #2 - Attach the survey "Description" to the Wellbore - Deviation Survey

Step

MD (ftKB)	Incl (°)	Azm (°)	Survey Company	Method	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
9,443	90.8	177.87	Baker Hughes INTEQ	MWD	4,892	4,981	-4,981.28	20.84	1.49
9,538	93.0	177.95	Baker Hughes INTEQ	MWD	4,888	5,076	-5,076.16	24.31	2.33
9,633	90.1		Baker Hughes INTEQ	MWD	4,886	5,171	-5,170.99	29.09	3.60
9,728	89.7	176.16	Baker Hughes INTEQ	MWD	4,886	5,266	-5,265.78	35.35	0.38
9,823	91.7	175.57	Baker Hughes INTEQ	MWD	4,885	5,361	-5,360.52	42.20	2.13
9,918	92.4	176.49	Baker Hughes INTEQ	MWD	4,882	5,455	-5,455.23	48.77	1.22
10,013	92.1	175.73	Baker Hughes INTEQ	MWD	4,878	5,550	-5,549.94	55.21	0.85
10,108	91.3	176.71	Baker Hughes INTEQ	MWD	4,875	5,645	-5,644.69	61.47	1.36
10,172	89.8	177.33	Baker Hughes INTEQ	MWD	4,874	5,709	-5,708.60	64.80	2.51
10,235	88.7	177.13	Baker Hughes INTEQ	MWD	4,875	5,772	-5,771.52	67.84	1.79
10,298	88.5	176.56	Baker Hughes INTEQ	MWD	4,877	5,835	-5,834.41	71.31	0.94
10,393	88.8	176.66	Baker Hughes INTEQ	MWD	4,879	5,930	-5,929.21	76.93	0.27
10,488	88.4	176.90	Baker Hughes INTEQ	MWD	4,881	6,025	-6,024.04	82.26	0.42
10,583	90.0	178.22	Baker Hughes INTEQ	MWD	4,883	6,120	-6,118.94	86.30	2.13
10,678	90.5	179.18	Baker Hughes INTEQ	MWD	4,882	6,215	-6,213.91	88.46	1.15
10,742	89.5	178.88	Baker Hughes INTEQ	MWD	4,882	6,279	-6,277.90	89.54	1.66
10,837	89.5	179.77	Baker Hughes INTEQ	MWD	4,883	6,374	-6,372.89	90.66	0.94
10,900	89.7	179.57	Baker Hughes INTEQ	MWD	4,884	6,437	-6,435.88	91.02	0.50
10,964	89.9	179.60	Baker Hughes INTEQ	MWD	4,884	6,501	-6,499.88	91.49	0.25
11,027	88.8	179.04	Baker Hughes INTEQ	MWD	4,885	6,564	-6,562.87	92.24	1.89
11,122	89.1	179.06	Baker Hughes INTEQ	MWD	4,886	6,659	-6,657.84	93.81	0.28
11,217	89.5	179.16	Baker Hughes INTEQ	MWD	4,887	6,753	-6,752.83	95.29	0.46
11,312	90.4	179.52	Baker Hughes INTEQ	MWD	4,888	6,848	-6,847.82	96.38	0.99
11,408	91.0	180.22	Baker Hughes INTEQ	MWD	4,886	6,944	-6,943.81	96.60	0.95
11,471	90.3	180.37	Baker Hughes INTEQ	MWD	4,886	7,007	-7,006.80	96.27	1.07
11,534	90.2	180.95	Baker Hughes INTEQ	MWD	4,885	7,070	-7,069.80	95.55	0.94
11,629	91.9	181.29	Baker Hughes INTEQ	MWD	4,884	7,165	-7,164.76	93.69	1.75
11,693	90.3	182.04	Baker Hughes INTEQ	MWD	4,882	7,229	-7,228.72	91.83	2.63



# \*\*\*Conductor, Rat and Mouse Hole Drilling Services\*\*\*

34

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Ticket

	r,	~ `	110100
Company: \	1	Date: 2	7/7/2012
Sandridge			
Drill Rig:	Location:	Lease Name: Vornaus 2-18 H	DC12033
Unit 310 100' of 30" Drilled	Harper County	Vomaus 2-18 H	JURIOUS
6'x6' Cellar Tinhon Drill & Install cella 75' of 20" Drilled I 75' of 16" Mousho Mobilization of Eq Welding Services f Provided Equipme Provided Personal	Noushole le Pipe Vipment & Road Permit	AFE Numb Well Name Code: ting Fee Co. Man:_ Co. Man S oval Notes: ne Call) r and 2 for the Mouse	199.50 Breist Stores Sig.: hole pipe)
	~		` <b>,</b>
oftenk trucks varinin	isiness nd (or) water is found addition n trucks, and cement pump truc resent then there will be a surcl	ks. Prices usured out non-loc	. Total\$19,950.00 e cost ky soil

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					The	Road to	Exce	ller			n Safet	У								
Sold To #: 3	0502	1		Ship T	o #:	293973	7		Que	ote #:				Sal	es (	Order #	<b>t:</b> 96	7289	5	
Customer:	SAND	RIDGE	ENER	RGY IN	C EI	BUSINES	S		Cus	stomer F	Rep: Ed	dwa	rds, Trip	р						
Well Name:							ell #: 2	2-18	Н				API/U	WI #	ł:					
Field:			City	(SAP	): Al	NTHONY				rish: Ha	rper			Sta	te:	Kansa	s			
Legal Desci	intio	n: Sect							<u> </u>											
Contractor:				1000110		Rig/Platf			e/Nun	a: 310										
Job Purpos				Cooin		Ng/1 lati	Unit	am	Critan											-
				Casil		Job Type	. Con	non	+ Qurfo	oo Coci	na									-
Well Type:												B	ABU ID E	mp	4.	475739	2			-
Sales Perso	n: N	GUYEN	N, VINF	1		Srvc Sup					FURD	IA		linb	Ħ.	473730	,			
							-		Persor		- "	-	1150		Man		Evel	Iro	Emp #	#
HES Emp			xp Hrs				Emp N			xp Hrs	Emp #		HESI				Exp H		514066	-
FINDLEY, C	BARE		5	52013	7	LEACH, C Alfred					475738		MALMGR M	EN, /	ААК	ON	0	Ľ	514000	5
MILLER, AF	RNOLE	) (	3	52048	8	TAVAI, M	ASON	Т		6	423521									
Ray								Fai	uipme	nt										
HES Unit #	Dict	tance-1	Way	HES U	nit #	Dietar	nce-1 v	-		ES Unit #	Dist	anc	e-1 way	HE	ESL	Init #	Dis	tance	e-1 wa	y
	Disi	lance-1	way		int #	Distai	100-11	ay						····						
									b Hou	KO										
						Data	0				rating	Т	Date		On	Locati	on	On	erating	3
Date	1000000	Locatio Hours		berating Hours		Date	0		ocatior ours		rating ours		Date			Hours			ours	2
7-17-12		6										_								_
TOTAL									Total	is the su	m of ea	ch c	olumn se	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	and the second	Constanting Street V		500 C	E. Charles	195
				Job									1111	ob T	ime		1			and a
Formation Na	ame												Da			Tim			e Zon	е
Formation D	epth (	MD) To	р			Botto	m			Called			17 - Jul			12:0			CST	
Form Type				10.0	HST						cation		17 - Ju			17:0			CST	
Job depth M	D	1	000. ft			epth TVD		1	000. ft	Job St			17 - Ju			21:0			CST	
Water Depth				V	/k Ht	t Above Fl	loor				omplete		17 - Ju			21:5			CST	
Perforation [	Depth	(MD) Fi	om			То		1.00			ted Loc	:	17 - Ju	- 20	12	23:0	10		CST	-
									ell Dat							B			D. 11	
Descriptio	on	New / Used	Ma: press	ure	ize in	ID in	Weigh Ibm/f			Thread		Gr	ade T	op Ⅳ ft	D	Botton MD ft	T	op VD ft	Botto TVD ft	
10.05" 0-	Lala		psi	9		12.25										850.				-
12.25" Open 9.625" Surfa		Unknow	1	9.	625	8.921	36.			LTC		J.	-55			850.	1			
Casing	2 March	<u>n</u>				操业的重要	Tools	an	d Acco	essories	S AND A				1355					
Туре	Size	Qty	Make	Dept	1	Туре	Size	-	Qty		Depth		Туре		S	ize	Qt	y	Mak	e
Guide Shoe						cker							p Plug				1			
Float Shoe						idge Plug						Bo	ttom Plu	g						
Float Collar						etainer							R plug se							
Insert Float												-	ug Contai				1			_
Stage Tool												Ce	ntralizers	3						
A start the second							Misce	llan	eous	Material	S	1								Non Con
A CARL AND A COMPANY AND A CARL									-							-		0	onc	0/
Gelling Agt			Co	nc		Surfa Inhibi				Con Con			id Type and Type			Qty Siz			lty	%

		No. 2010 March 1997	Fluid Data			and states		Reference de la companya de la compa	
Sta	age/Plug #: 1							a service a	
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density Ibm/gal	Yield ft3/sk	Mix Fluid Gal/sk		Total Mix Fluid Gal/sk

04- /01 // /

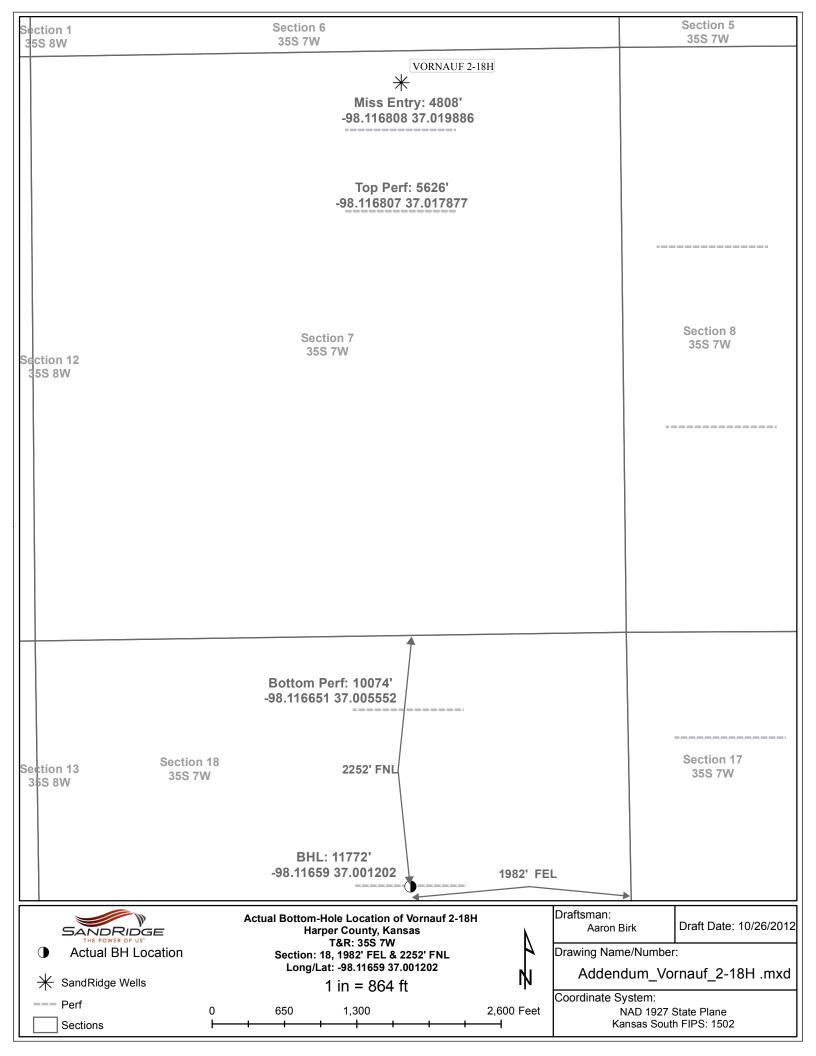
5

Fluid #	Stage 1	Гуре	and the second s	Fluid N	lame		Qty	Qty uom	Mixing Density Ibm/gal	Yield ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	Fresh Wa	iter					10	bbl	8.33	.0	.0	.0	
2	Halliburto		EXTE	ENDACEM (TM) \$	SYSTEM (4	152981)	220	sacks	12.4	2.12	11.68	.0	11.68
	3 %		CALC	CIUM CHLORIDE	, PELLET,	50 LB (	101509387	<b>'</b> )					
	0.25 lbm		POL	7-E-FLAKE (1012	16940)			/					
	11.676 Ga	l	FRES	SH WATER									
3	Standard		SWIF	TCEM (TM) SYS	TEM (4529	90)	200	sacks	15.6	1.2	5.32		5.32
	2 %			UUM CHLORIDE			01509387			1.24	0.02		0.02
	0.125 lbm			-E-FLAKE (1012		<u>`</u>		/					
	5.319 Gal		FRES	SH WATER	· · ·								
4	Displacen						61	bbl	8.33	.0	.0	.0	
Ca	Iculated \	/alues		Pressure	es					olumes		Station of	
	cement	61	S	hut In: Instant		Lost R	eturns		Cement SI			Pad	
	Cement		5	Min		Cemer	t Returns		Actual Dis		ent 61	Treatm	ent
Frac G	radient		1:	5 Min		Space	rs		Load and	-		Total J	
						F	Rates						
Circul				Mixing	5		Displac	ement	7		Avg. Jo	b	6
	ent Left In	Pipe	Amou	unt 46.39 ft Rea	son Shoe	Joint							
Frac F	Ring # 1 @		ID	Frac ring # 2	@	D	Frac Rin	g # 3 @	ID		Frac Ring #	#4@	ID
Th	e Informa	ation	State	ed Herein Is C	orrect	Custon	ner Represe	entative S	lignature				

Cold To #	2050	0.4			7	he Road	to Ex	celler			ith Sa	fety							
Sold To #				Sh	пр То	#: 29397	737	_		uote #:					ales	Order	#: 968	7487	
Customer			SE ENE	ERG	Y INC					ustome	r Rep:	Edv	wards, Tr	ipp					
Well Name	e: Vor	nauf					Vell #						API	/UWI	#: 1	5-077-	21859		
Field:			Ci	ity (S	SAP):	ANTHON	Y	Cour	nty/P	arish: ⊦	larper			S	tate	Kansa	as		
Legal Des	criptio	on: Se	ction 7	Tov	vnship														
Contracto						Rig/Pla	tform	Nam	e/Nu	m: Uni	t 310								
Job Purpo					ate Ca	sing											1.50		
Well Type:						Job Ty	pe: Ce	emen	t Inte	rmediat	e Casi	na							
Sales Pers	on: 1	NGUYE	EN, VIN	1H									MBU ID	Em	o #:	41841	7		
								Job F	Perso	onnel			1						
HES En			Exp Hr	s E	mp #	HES	Emp			Exp Hrs	Emp	#	HES	Emp	o Nai	ne	Ехр Ні	s En	np #
APPLEBE	E, SCO	DTT J	26	52	1237	CRAWF				26	4806		JOHNS				26		3417
DADAMO			00	10	0050	ANDRE	WВ						David						
PARAMOF Steven		ARIY	26	42	9352														
otoron				_				Eau	in	o. m.f.									
HES Unit #	Dis	stance-	1 wav	HE	S Unit	# Diet	ance-1		lipmo		# D:	- 4		1		1 14 14			
		Junoc	1 way		0 0111	# Dista	ance-i	way		ES Unit	# DI	star	nce-1 way	Н	ESI	Jnit #	Dista	nce-1	way
								1.1						_					
Date	On	Locati	on 0	pera	ting	Data			Hou										
Date		Hours		Hou		Date		On Lo	catio urs		erating Hours		Date		On	Locati	on	Operat	
07/23/2012		4		0	13	07/24/20	12		1.5		3.5	-			-	Hours		Hour	rs
OTAL	-					01124120	12			listhes		ach	column s	onara	toly				
				Jo	b	in the second second			1010			aon	and and a second s	Job 1		e			
ormation N	ame				N			11111		and designed		FERR	the second se	ate	inne	Tim	0 7	ime Z	ana
ormation D		(MD) T	ор			Botto	om			Calle	d Out		23 - Ju		12	12:3		CST	
orm Type		, , ,			BHS			1			ocation		23 - Ju			19:0		CST	
Job depth N	ID	E	5405. ft			Depth TVE	)	54	05. ft		Started		24 - Ju			08:1		CST	
Vater Depth						It Above F			5. ft		Comple	ted	24 - Ju			09:1		CST	
Perforation	Depth	(MD) F	rom			То					rted Lo		24 - Ju			11:3		CST	
								We	II Da								-		
Descripti	on	New /	Ma	x	Size	ID	Weig			Thread		G	ade 1	Гор М	1D	Botton	n Top	Bo	tton
		Used	press	sure	in	in	lbm/							ft		MD	TVE		VD
			psi	g												ft	ft		ft
3.75" Open I			_			8.75								850		5325.			
7" Intermedia	ate	Unknov	v		7.	6.276	26.			LTC		P	2-110			5325.			
∍asing 9.625" Surfa	ce	n Unknov	v		9.625	8.921	36.			LTC			J-55			050			
Casing		n	•		0.020	0.921	50.			LIC			J-55			850.			
		and the second	a de la compañía de la	1022			Tools	and	Acc	essorie	G	3			1.33		Past net	156000	5. A
Туре	Size	Qty	Make	De	oth	Туре	Size	and the second se	ty	Make	Depth	1	Туре		Si	ze	Qty	64	ake
uide Shoe						acker				mano	Bopu	-	p Plug			7	1		W SW
loat Shoe						ridge Plug							ottom Plu	a					
loat Collar						etainer							SR plug s						
nsert Float													ug Conta			7	1	0	QL
tage Tool													entralizers				~		
								llane	ous	Vateria	ls	A.S. S.A.	the state of			R. Store of	Section 1		
elling Agt			Co			Surfac				Con		A	cid Type			Qty		Conc	%
reatment FI	d		Co	nc		Inhibi	tor			Con			and Type			Size		Qty	

Sta	ge/Plug #: 1		Fluid Data					
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density Ibm/gal	Yield ft3/sk	Mix Fluid Gal/sk	Total Mix Fluid Gal/sk

1	Fresh Wa	iter					10.00	bbl	8.33	.0	.0	.0	
2	50/50 Poz	-	ECONO	CEM (TM) SY	STEM (452	.992)	110.0	sacks	13.6	1.54	7.36		7.3
	Standard												
	0.4 %		HALAD(	R)-9, 50 LB (1	00001617)								
	2 lbm		KOL-SE	AL, 50 LB BA	G (1000642	.32)							
	2 %			NITE, BULK (1									
	7.356 Gal		FRESH	WATER									
3	Premium		HALCE	M (TM) SYSTE	EM (452986	5)	180.0	sacks	15.6	1.19	5.08	1	5.0
	0.4 %			R)-9, 50 LB (1									
	2 lbm		KOL-SE	AL, 50 LB BAG	G (1000642	32)							
	5.076 Gal		FRESH	WATER		,							
4	Displacen	nent					203.00	bbl	8.33	.0	.0	.0	Ι
C	alculated \	<b>Values</b>		Pressur	es				and we	/olumes			
Displa	acement	203	Shu	t In: Instant		Lost R	eturns	0	Cement S	Blurry	68	Pad	
Гор С	of Cement	2989	9 <b>5 M</b> i	n		Cemen	t Returns	0	Actual D	isplaceme	nt 203	Treatn	nent
Frac (	Gradient		15 N	lin		Spacer	s			Breakdov		Total	Job
			的教室的	<b>244</b> 13、1947年3		R	ates						and the set
	ulating	4		Mixing	4		Displac	ement	6	;	Avg. J	ob	5
Cen	nent Left In	Pipe	Amount	42 ft Rea	son Shoe	Joint							
Frac	Ring # 1 @		ID	Frac ring # 2	@	D	Frac Rin	g # 3 @		D F	rac Ring	#4@	ID
Т	he Inform	ation	Stated	Herein Is C	Correct	Custor	her Represe			I <u>_</u>			



# Vornauf 2-18H (1090742)

Actions	Attachments	
View PDF	Two Year Confidentiality	View PDF
Delete	OPERATOR	Delete
Edit	Directional Survey	View PDF
Certify & Submit	OPERATOR	Delete
Request Confidentiality	Cement Reports	View PDF
	OPERATOR	Delete
	As Drilled Plat	View PDF
	OPERATOR	Delete
		Add Attachment

### Remarks

Remarks to KCC

Remarks	
Tiffany Golay 10/30/012 10:50	Fluid Mgmt Info: 12000 bbls soilfarmed by Blackrock Services in Oklahoma
am	
Tiffany Golay 10/23/012 02:10 pm	Cement Information: Conductor was set with 11 yds of concrete and Liner was set using packers instead of cement
Tiffany Golay 08/15/012 11:20 am	TMD@ 11,772' MD

Logo

Add Remar