



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1219443
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: _____

1219443

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> _____
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	Bob 3508 1-4H
Doc ID	1219443

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	5008-5010	Frac Sleeve Frac system	See Frac report
5	5131-5133		
5	5358-5360		
1	5671-5673		
1	5854-5856		
1	6031-6033		
1	6211-6389		
1	6568-6570		
1	6747-6749		
1	6923-6925		
1	7102-7104		
1	7280-7285		
1	7460-7462		
1	7640-7642		
1	7817-7819		
1	7995-7997		
1	8173-8175		
1	8351-8353		
1	8531-8533		
1	8712-8714		
1	8890-8892		
1	9069-9071		

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	7/6/2014
Job End Date:	7/7/2014
State:	Kansas
County:	Harper
API Number:	15-077-22017-01-00
Operator Name:	SandRidge Energy
Well Name and Number:	BOB 3508 1-4H
Longitude:	-98.18739900
Latitude:	37.02254200
Datum:	NAD27
Federal/Tribal Well:	NO
True Vertical Depth:	4,759
Total Base Water Volume (gal):	1,999,956
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	Archer	Carrier/Base Fluid					
			Water	7732-18-5	100.00000	94.93892	None
Sand (Proppant)	Archer	Proppant					
			Silica Substrate	NA	100.00000	4.07023	None
Hydrochloric Acid (15%)	Archer	Acidizing					
			Hydrochloric Acid	7647-01-0	15.00000	0.12657	None
			NONYL PHENOL, 4 MOL	104-40-5	10.00000	0.00435	None
			Methyl Alcohol	67-56-1	80.00000	0.00104	None
			thiourea-formaldehyde copolymer	68527-49-1	15.00000	0.00020	None
AIC	Archer	Liquid Acid Iron Control					
			Acetic Acid	64-19-7	50.00000	0.00232	None
			Citric Acid	77-92-9	30.00000	0.00139	None
Chemflush	Archer	Enviro-Friendly Chemical Flush					
			Hydrotreated Petroleum Distillate	64742-47-8	99.00000	0.00200	None
			Alcohol Ethoxylate Surfactants	NA	10.00000	0.00020	None
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		0.04870
		WATER	7732-18-5		0.02613
		Aliphatic Hydrocarbon	64742-47-8		0.02435
		Anionic Polymer	N/A		0.02435
		TRADE SECRET	N/A		0.01742
		Water	7732-18-5		0.01295
		ISOPROPANOL	67-63-0		0.00435
		METHANOL	67-56-1		0.00435
		Oxyalkylated Alcohol	68002-97-1		0.00406
		Polyol Ester	N/A		0.00406
		Acrylic Polymer	28205-96-1		0.00216
		Sodium Salt of Phosphate Ester	68131-72-6		0.00216
		Water	7732-18-5		0.00163
		Polyglycol Ester	N/A		0.00081
		Alcohol Ethoxylate Surfactants	N/A		0.00020
		n-olefins	N/A		0.00010
		Tetrasodium Ethylenediaminetetraacetate	64-02-8		0.00008
		Propargyl Alcohol	107-19-7		0.00008
		Buffer	N/A		
		Surfactant	N/A		
		Cinnamic Aldehyde	104-55-2		
		Acetic Acid	64-19-7		
		Water	7732-18-5		

* 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)

Sandridge

Location Kansas Installation Harper County
Field Sec 4 - 35S - 08W Well Bob 3508 1-4H

Installation Data

Name	Latitude	Longitude	Northing	Easting
Harper County	N37 1 21.15	W98 11 14.64	129735.00	2091270.00

Slot Data				
Name	North [ft]	East [ft]	Latitude	Longitude
Bob 3508 1-4H	0.00 N	0.00 E	N37 1 21.15	W98 11 14.64

Elevation Data				
Slot - Mean Sea Level [ft]	Mean Sea Level - Mudline/Ground level [ft]	Slot - Mudline/Ground level [ft]		
1293.00	-1275.00	18.00		

WELL PROFILE DATA

Point	MD	Inc	Azi	TVD	North	East	deg/100ft	V. Sect
KOP	8049.00	90.20	0.90	4804.18	3483.86	-487.93	0.00	3516.50
Target Hold Section	8248.86	93.32	358.40	4798.05	3683.58	-489.15	2.00	3715.11
Target Drop w/ 2" BRN	8368.86	93.32	358.40	4791.10	3803.33	-492.49	0.00	3834.50
Target Hold Section	8459.86	91.50	358.40	4787.27	3894.21	-495.03	2.00	3925.10
T.D. & Target PBHL Bob	9173.92	91.50	358.40	4768.60	4607.75	-514.98	0.00	4636.44

TARGET DATA

MD	Inc	Azi	TVD	North	East	Name	Position
9173.92	91.50	358.40	4768.60	4607.75	-514.98	PBHL Bob 3508 1-4H	2090754.99 East : 134343.00 North
8459.86	91.50	358.40	4787.27	3894.21	-495.03	Hold Section	2090774.94 East : 133629.43 North
8368.86	93.32	358.40	4791.10	3803.33	-492.49	Drop w/ 2" BRN	2090777.48 East : 133538.54 North
8248.86	93.32	358.40	4798.05	3683.58	-489.15	Hold Section	2090780.82 East : 133418.78 North
-	-	-	4804.18	3483.86	-487.93	Tie-on Point Build w/ 2" BRN	2090782.04 East : 133219.05 North

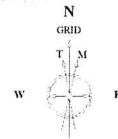
East (feet) ->

Scale 1 inch = 1000 ft

1500 -1000 -500 0 500

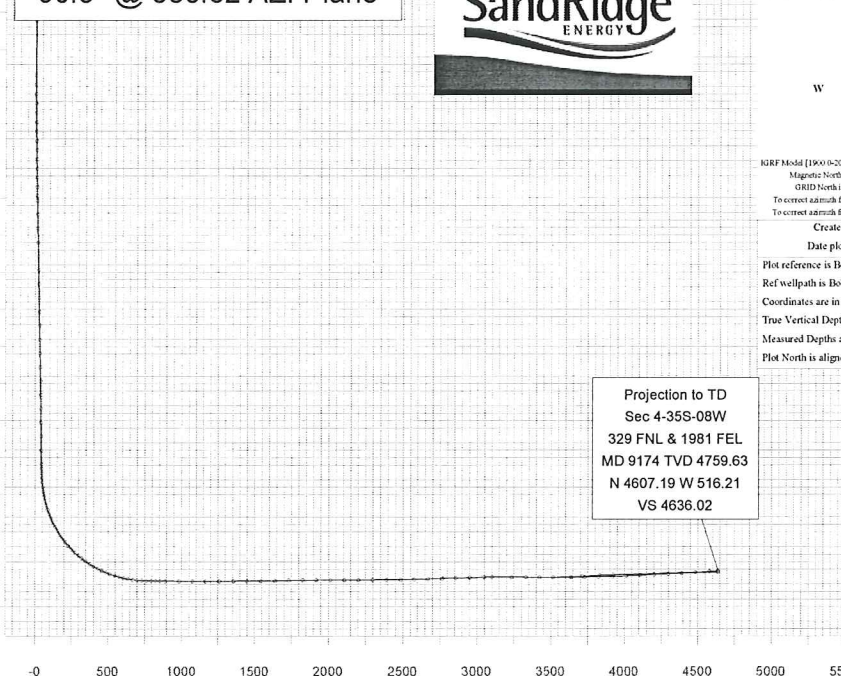
Projection to TD
Sec 4-35S-08W
329 FNL & 1981 FEL
MD 9174 TVD 4759.63
N 4607.19 W 516.21
VS 4636.02

Target Line: 05-14-14
TGT: 4845' KBTVD & 0' VS
90.5° @ 353.62 AZI Plane



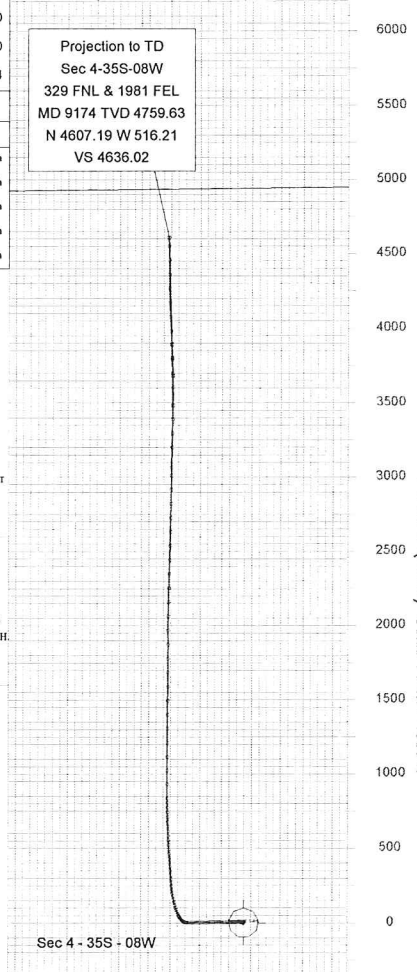
15-May-2014
NGRF Model [1900/0/2015 0] Dip: 65.08 deg Field: 51596 2xT
Magnetic North is 4.14 deg East of True North
GRID North is 0.19 deg East of True North
To correct azimuth from True to GRID subtract 0.19 deg
To correct azimuth from Magnetic to GRID add 4.25 deg
Created by admin
Date plotted 18-Jun-2014
Plot reference is Bob 3508 1-4H (PWB).
Ref wellpath is Bob 3508 1-4H (PWP#1).
Coordinates are in feet reference Bob 3508 1-4H.
True Vertical Depths are reference Bob 3508 1-4H.
Measured Depths are reference Slot.
Plot North is aligned to GRID North.

True Vertical Depth (feet) Scale 1 inch = 1000 ft



Projection to TD
Sec 4-35S-08W
329 FNL & 1981 FEL
MD 9174 TVD 4759.63
N 4607.19 W 516.21
VS 4636.02

V - North(feet) Scale 1 inch = 1000 ft



Sec 4 - 35S - 08W

Surface Location
Sec 4-35S-08W
350 FSL & 1490 FEL

Vertical Section (feet) ->
Azimuth 353.62 with reference 0.00 N, 0.00 E from Bob 3508 1-4H
Scale 1 inch = 1000 ft

Company: Sandridge
Well Name: Bob 3508 1-4H
Legals: Sec: 4 Township: 35S Range: 08W
County/State: Harper KS
Rig Name: Unit 9

Customer Rep	Position	Directional Driller	MWD Operator
Don Waight	Company Man	Bill Wright	Kenney Harris
Ronnie Hagood	Company Man	Christopher Moon	Jerry Wilkins

Bob 3508 1-4H Surveys

Type	M Depth	Incl.	Azimuth	TVD	North	East	V Section	Dogleg	B Rate	T Rate	Clos Azi	Clos Dist
TieInPoint	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0
Survey	811.00	0.90	25.40	810.97	5.75	2.73	5.41	0.11	0.11	3.13	25.40	6.37
Survey	1056.00	0.90	240.40	1055.96	6.54	1.88	6.29	0.70	0.00	59.18	16.04	6.80
Survey	1423.00	0.70	242.90	1422.92	4.10	-2.62	4.37	0.06	0.05	0.68	327.42	4.87
Survey	1486.00	0.50	225.60	1485.92	3.73	-3.16	4.06	0.42	0.32	27.46	319.73	4.89
Survey	1549.00	1.30	273.50	1548.91	3.58	-4.07	4.01	1.64	1.27	76.03	311.34	5.42
Survey	1612.00	2.80	279.50	1611.87	3.88	-6.30	4.56	2.40	2.38	9.52	301.63	7.40
Survey	1676.00	4.20	278.80	1675.75	4.50	-10.16	5.60	2.19	2.19	1.09	293.89	11.11
Survey	1739.00	5.20	278.90	1738.53	5.29	-15.26	6.95	1.59	1.59	0.16	289.12	16.15
Survey	1802.00	6.20	276.90	1801.22	6.14	-21.46	8.49	1.62	1.59	3.17	285.97	22.32
Survey	1865.00	6.80	273.10	1863.81	6.75	-28.56	9.88	1.17	0.95	6.03	283.30	29.35
Survey	1929.00	7.90	269.00	1927.29	6.88	-36.74	10.92	1.90	1.72	6.41	280.61	37.38
Survey	1991.00	8.80	269.00	1988.63	6.72	-45.74	11.76	1.45	1.45	0.00	278.36	46.23
Survey	2055.00	8.90	266.80	2051.87	6.36	-55.58	12.50	0.55	0.16	3.44	276.53	55.94
Survey	2117.00	9.10	267.00	2113.10	5.83	-65.26	13.05	0.33	0.32	0.32	275.10	65.52
Survey	2180.00	9.20	268.60	2175.30	5.45	-75.27	13.78	0.43	0.16	2.54	274.14	75.47
Survey	2244.00	10.30	270.00	2238.38	5.33	-86.11	14.87	1.76	1.72	2.19	273.54	86.27
Survey	2275.00	10.20	269.40	2268.89	5.30	-91.63	15.45	0.47	0.32	1.94	273.31	91.78
Survey	2370.00	9.60	264.40	2362.47	4.44	-107.92	16.40	1.10	0.63	5.26	272.36	108.01
Survey	2465.00	9.80	270.60	2456.12	3.75	-123.89	17.49	1.12	0.21	6.53	271.73	123.95
Survey	2560.00	8.60	273.80	2549.89	4.31	-139.06	19.74	1.37	1.26	3.37	271.78	139.13
Survey	2654.00	8.60	275.40	2642.83	5.44	-153.07	22.42	0.25	0.00	1.70	272.04	153.17
Survey	2749.00	9.40	269.30	2736.67	6.01	-167.90	24.63	1.31	0.84	6.42	272.05	168.01
Survey	2843.00	10.50	269.60	2829.25	5.86	-184.14	26.29	1.17	1.17	0.32	271.82	184.23
Survey	2938.00	10.40	268.80	2922.67	5.62	-201.37	27.96	0.19	0.11	0.84	271.60	201.45
Survey	3033.00	9.80	268.80	3016.20	5.27	-218.02	29.46	0.63	0.63	0.00	271.38	218.08
Survey	3128.00	9.00	264.90	3109.92	4.44	-233.50	30.36	1.08	0.84	4.11	271.09	233.54
Survey	3223.00	9.00	267.90	3203.76	3.51	-248.33	31.08	0.49	0.00	3.16	270.81	248.35
Survey	3318.00	9.20	271.30	3297.56	3.41	-263.35	32.65	0.60	0.21	3.58	270.74	263.37
Survey	3413.00	9.40	271.80	3391.32	3.83	-278.69	34.77	0.23	0.21	0.53	270.79	278.72
Survey	3507.00	9.20	270.00	3484.08	4.07	-293.88	36.70	0.38	0.21	1.91	270.79	293.91
Survey	3602.00	8.90	268.90	3577.90	3.93	-308.82	38.22	0.36	0.32	1.16	270.73	308.85
Survey	3696.00	9.30	269.30	3670.71	3.69	-323.69	39.64	0.43	0.43	0.43	270.65	323.71
Survey	3791.00	8.90	267.00	3764.52	3.22	-338.70	40.84	0.57	0.42	2.42	270.54	338.72
Survey	3885.00	8.80	266.40	3857.40	2.38	-353.14	41.61	0.14	0.11	0.64	270.39	353.15
Survey	3980.00	9.40	270.30	3951.20	1.97	-368.15	42.87	0.91	0.63	4.11	270.31	368.16
Survey	4075.00	9.50	274.10	4044.92	2.57	-383.73	45.19	0.67	0.11	4.00	270.38	383.74
Survey	4106.00	9.00	273.10	4075.51	2.88	-388.70	46.06	1.69	1.61	3.23	270.42	388.71
Survey	4138.00	8.70	275.00	4107.13	3.23	-393.61	46.95	1.31	0.94	5.94	270.47	393.62
Survey	4169.00	9.40	285.50	4137.75	4.11	-398.39	48.35	5.78	2.26	33.87	270.59	398.41
Survey	4201.00	10.50	293.10	4169.26	5.95	-403.59	50.76	5.35	3.44	23.75	270.84	403.63

Bob 3508 1-4H Surveys

Type	M Depth	Incl.	Azimuth	TVD	North	East	V Section	Dogleg	B Rate	T Rate	Clos Azi	Clos Dist
Survey	4233.00	11.60	296.40	4200.67	8.52	-409.15	53.93	3.96	3.44	10.31	271.19	409.24
Survey	4264.00	12.60	303.10	4230.98	11.76	-414.78	57.78	5.56	3.23	21.61	271.62	414.95
Survey	4296.00	14.40	313.00	4262.10	16.38	-420.61	63.02	9.14	5.63	30.94	272.23	420.93
Survey	4327.00	16.50	319.60	4291.98	22.36	-426.28	69.59	8.82	6.77	21.29	273.00	426.87
Survey	4359.00	18.40	324.00	4322.51	29.91	-432.20	77.75	7.22	5.94	13.75	273.96	433.23
Survey	4391.00	20.10	328.00	4352.72	38.66	-438.08	87.10	6.72	5.31	12.50	275.04	439.78
Survey	4422.00	22.40	332.30	4381.61	48.41	-443.65	97.41	8.96	7.42	13.87	276.23	446.28
Survey	4454.00	25.20	336.30	4410.89	60.05	-449.22	109.60	10.10	8.75	12.50	277.61	453.22
Survey	4485.00	27.50	339.50	4438.67	72.80	-454.38	122.84	8.72	7.42	10.32	279.10	460.17
Survey	4517.00	29.40	342.10	4466.81	87.20	-459.38	137.71	7.09	5.94	8.12	280.75	467.58
Survey	4548.00	31.80	344.00	4493.49	102.29	-463.97	153.21	8.35	7.74	6.13	282.43	475.11
Survey	4580.00	35.00	345.10	4520.20	119.27	-468.66	170.61	10.18	10.00	3.44	284.28	483.60
Survey	4611.00	37.90	346.90	4545.13	137.14	-473.10	188.86	9.97	9.35	5.81	286.17	492.58
Survey	4642.00	40.10	348.60	4569.22	156.20	-477.23	208.26	7.89	7.10	5.48	288.12	502.14
Survey	4674.00	43.10	350.00	4593.15	177.07	-481.17	229.44	9.81	9.38	4.37	290.20	512.72
Survey	4706.00	45.40	351.30	4616.07	199.11	-484.79	251.75	7.73	7.19	4.06	292.33	524.09
Survey	4737.00	47.90	352.80	4637.35	221.43	-487.90	274.28	8.80	8.06	4.84	294.41	535.80
Survey	4769.00	49.70	353.80	4658.42	245.34	-490.71	298.35	6.10	5.63	3.13	296.56	548.62
Survey	4800.00	52.20	354.40	4677.95	269.29	-493.18	322.43	8.20	8.06	1.94	298.64	561.91
Survey	4832.00	54.50	355.40	4697.05	294.86	-495.46	348.09	7.61	7.19	3.13	300.76	576.56
Survey	4864.00	57.50	355.60	4714.94	321.30	-497.54	374.60	9.39	9.38	0.63	302.85	592.27
Survey	4895.00	60.50	355.40	4730.91	347.79	-499.62	401.15	9.69	9.68	0.65	304.84	608.75
Survey	4927.00	63.30	355.30	4745.98	375.92	-501.91	429.37	8.75	8.75	0.31	306.83	627.08
Survey	4958.00	65.80	355.50	4759.30	403.82	-504.15	457.34	8.09	8.06	0.65	308.69	645.94
Survey	4990.00	68.40	356.00	4771.75	433.21	-506.34	486.79	8.25	8.13	1.56	310.55	666.37
Survey	5021.00	71.00	356.40	4782.51	462.22	-508.26	515.84	8.47	8.39	1.29	312.28	687.00
Survey	5053.00	72.60	356.30	4792.50	492.56	-510.20	546.20	5.01	5.00	0.31	313.99	709.17
Survey	5084.00	74.30	355.90	4801.33	522.20	-512.22	575.88	5.62	5.48	1.29	315.55	731.48
Survey	5116.00	76.50	356.50	4809.40	553.10	-514.27	606.82	7.11	6.88	1.88	317.08	755.24
Survey	5147.00	79.50	357.80	4815.85	583.38	-515.77	637.08	10.51	9.68	4.19	318.52	778.69
Survey	5179.00	82.60	358.30	4820.82	614.97	-516.85	668.59	9.81	9.69	1.56	319.95	803.32
Survey	5210.00	85.20	359.00	4824.11	645.78	-517.58	699.30	8.68	8.39	2.26	321.29	827.60
Survey	5242.00	88.00	359.40	4826.01	677.72	-518.02	731.09	8.84	8.75	1.25	322.61	853.02
Survey	5274.00	88.60	359.30	4826.96	709.70	-518.38	762.91	1.90	1.87	0.31	323.85	878.86
Survey	5305.00	88.60	359.00	4827.72	740.69	-518.84	793.76	0.97	0.00	0.97	324.99	904.33
Survey	5337.00	88.70	359.00	4828.47	772.67	-519.40	825.60	0.31	0.31	0.00	326.09	931.02
Survey	5369.00	88.80	358.80	4829.17	804.66	-520.01	857.46	0.70	0.31	0.62	327.13	958.06
Survey	5400.00	89.00	358.80	4829.76	835.65	-520.66	888.33	0.65	0.65	0.00	328.07	984.58
Survey	5496.00	89.30	358.90	4831.18	931.62	-522.59	983.92	0.33	0.31	0.10	330.71	1068.18
Survey	5588.00	90.00	0.40	4831.74	1023.61	-523.15	1075.40	1.80	0.76	1.63	332.93	1149.55
Survey	5680.00	90.30	0.40	4831.50	1115.61	-522.51	1166.76	0.33	0.33	0.00	334.90	1231.91
Survey	5775.00	90.40	359.90	4830.92	1210.61	-522.26	1261.15	0.54	0.11	0.53	336.66	1318.46
Survey	5870.00	90.50	0.50	4830.17	1305.60	-521.93	1355.51	0.64	0.11	0.63	338.21	1406.06
Survey	5965.00	90.60	0.90	4829.26	1400.59	-520.77	1449.78	0.43	0.11	0.42	339.60	1494.27
Survey	6059.00	90.90	1.00	4828.03	1494.57	-519.21	1543.01	0.34	0.32	0.11	340.84	1582.19
Survey	6154.00	91.10	0.10	4826.37	1589.55	-518.30	1637.30	0.97	0.21	0.95	341.94	1671.92
Survey	6249.00	91.40	359.80	4824.30	1684.53	-518.38	1731.70	0.45	0.32	0.32	342.90	1762.49
Survey	6344.00	90.10	0.90	4823.06	1779.52	-517.80	1826.04	1.79	1.37	1.16	343.78	1853.32

Bob 3508 1-4H Surveys

Type	M Depth	Incl.	Azimuth	TVD	North	East	V Section	Dogleg	B Rate	T Rate	Clos Azi	Clos Dist
Survey	6438.00	90.20	359.80	4822.81	1873.52	-517.23	1919.39	1.18	0.11	1.17	344.57	1943.61
Survey	6533.00	90.00	359.50	4822.65	1968.51	-517.81	2013.86	0.38	0.21	0.32	345.26	2035.48
Survey	6627.00	90.20	1.00	4822.49	2062.51	-517.40	2107.23	1.61	0.21	1.60	345.92	2126.42
Survey	6723.00	90.90	1.30	4821.57	2158.49	-515.47	2202.40	0.79	0.73	0.31	346.57	2219.19
Survey	6818.00	89.80	2.00	4820.99	2253.44	-512.74	2296.46	1.37	1.16	0.74	347.18	2311.04
Survey	6912.00	90.40	1.80	4820.83	2347.39	-509.62	2389.48	0.67	0.64	0.21	347.75	2402.07
Survey	7007.00	90.80	2.10	4819.84	2442.33	-506.39	2483.48	0.53	0.42	0.32	348.29	2494.27
Survey	7102.00	91.50	1.00	4817.93	2537.27	-503.82	2577.54	1.37	0.74	1.16	348.77	2586.81
Survey	7197.00	91.50	1.40	4815.44	2632.21	-501.83	2671.67	0.42	0.00	0.42	349.21	2679.62
Survey	7291.00	91.90	1.50	4812.65	2726.14	-499.45	2764.76	0.43	0.43	0.11	349.62	2771.51
Survey	7386.00	91.50	0.50	4809.83	2821.08	-497.80	2858.92	1.13	0.42	1.05	349.99	2864.66
Survey	7481.00	92.50	0.00	4806.52	2916.02	-497.38	2953.23	1.18	1.05	0.53	350.32	2958.13
Survey	7576.00	91.20	0.60	4803.45	3010.97	-496.88	3047.54	1.51	1.37	0.63	350.63	3051.69
Survey	7670.00	89.90	2.00	4802.55	3104.94	-494.75	3140.69	2.03	1.38	1.49	350.95	3144.11
Survey	7765.00	89.60	1.00	4802.96	3199.90	-492.27	3234.78	1.10	0.32	1.05	351.25	3237.54
Survey	7860.00	89.90	1.00	4803.38	3294.89	-490.61	3329.00	0.32	0.32	0.00	351.53	3331.22
Survey	7954.00	89.80	0.50	4803.62	3388.88	-489.38	3422.27	0.54	0.11	0.53	351.78	3424.03
Survey	8049.00	90.20	0.90	4803.62	3483.87	-488.22	3516.55	0.60	0.42	0.42	352.02	3517.91
Survey	8170.00	90.40	359.10	4802.99	3604.86	-488.22	3636.79	1.50	0.17	1.49	352.29	3637.77
Survey	8264.00	90.60	358.60	4802.17	3698.84	-490.10	3730.39	0.57	0.21	0.53	352.45	3731.17
Survey	8359.00	90.50	358.00	4801.26	3793.79	-492.92	3825.07	0.64	0.11	0.63	352.60	3825.68
Survey	8453.00	92.40	357.90	4798.88	3887.70	-496.28	3918.77	2.02	2.02	0.11	352.73	3919.25
Survey	8548.00	92.80	357.50	4794.57	3982.53	-500.09	4013.44	0.60	0.42	0.42	352.84	4013.81
Survey	8643.00	93.40	356.50	4789.43	4077.25	-505.06	4108.12	1.23	0.63	1.05	352.94	4108.41
Survey	8737.00	92.90	357.60	4784.26	4170.98	-509.89	4201.81	1.28	0.53	1.17	353.03	4202.03
Survey	8832.00	92.40	359.60	4779.87	4265.84	-512.21	4296.34	2.17	0.53	2.11	353.15	4296.48
Survey	8927.00	92.80	359.60	4775.56	4360.74	-512.87	4390.72	0.42	0.42	0.00	353.29	4390.80
Survey	9022.00	93.60	359.50	4770.26	4455.59	-513.61	4485.07	0.85	0.84	0.11	353.42	4485.10
Survey	9117.00	94.20	358.80	4763.80	4550.36	-515.02	4579.41	0.97	0.63	0.74	353.54	4579.41
PrjCalcPnt	9174	94.2	358.8	4759.63	4607.19	-516.21	4636.02	0	0	0	353.61	4636.02

JOB SUMMARY			PROJECT NUMBER SOK 3805	TICKET DATE 06/04/14
COUNTY Harper	State Kansas	COMPANY Bridge Exploration & Produc	CUSTOMER REP Don Waight	
LEASE NAME Bob 3508	Well No. 1-4H	JOB TYPE Surface	EMPLOYEE NAME marcos quintana	

EMP NAME	Marcos Quintana	0					
	Wallace Berry						
	David Settlemier						
	0.00						

Form. Name _____ Type: _____
Packer Type _____ Set At _____ 0
Bottom Hole Temp. _____ 80 Pressure _____
Retainer Depth _____ Total Depth _____ 800

Date	Called Out 6/4/2014	On Location 6/4/2014	Job Started 6/4/2014	Job Completed 6/4/2014
Time	0500	0800	1255	1358

Tools and Accessories		
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	800	1,500
Liner						
Liner						
Tubing			0			
Drill Pipe						
Open Hole			12 1/4"	Surface	800	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

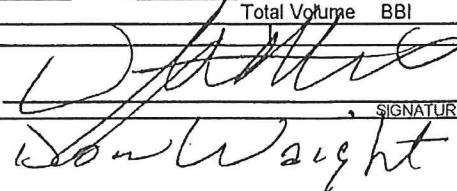
Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
6/4	6.0	6/4	1.0	Surface
Total	6.0	Total	1.0	

Perfpac Balls _____ Qty. _____
Other _____
Other _____
Other _____
Other _____
Other _____

Pressures			
MAX	1,500 PSI	AVG	100
Average Rates in BPM			
MAX	6 BPM	AVG	5bbbs
Cement Left in Pipe			
Feet	46	Reason	SHOE JOINT

Cement Data						
Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	230	EX Lite Premium Plus 65	(6% Gel) 2% Calcium Chloride - 1/2pps Cello-Flake - .4% C-41P	11.11	2.01	12.40
2	160	Premium Plus (Class C)	2% Calcium Chloride - 1/2pps 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	_____	Type:	_____	Preflush:	BBI	10.00	Type:	Fresh Water
Breakdown:	_____	MAXIMUM	1,500 PSI	Load & Bkdn:	Gal - BBI	N/A	Pad:Bbl -Gal	N/A
	_____	Lost Returns-N	NO/FULL	Excess /Return	BBI	62	Calc. Disp Bbl	55
	_____	Actual TOC	SURFACE	Calc. TOC:	_____	SURFACE	Actual Disp.	55.00
Average	_____	Bump Plug PSI:	500	Final Circ.	PSI:	120	Disp:Bbl	_____
ISIP	5 Min. _____	10 Min. _____	15 Min. _____	Cement Slurry:	BBI	120.0		
				Total Volume	BBI	185.00		

CUSTOMER REPRESENTATIVE _____

SIGNATURE

JOB SUMMARY			PROJECT NUMBER SOK 3833	TICKET DATE 06/11/14
COUNTY Harper	State Kansas	COMPANY Sandridge Exploration & Production	CUSTOMER REP Don Waight	
LEASE NAME Bob 3508	Well No. 1-4H	JOB TYPE Intermediate	EMPLOYEE NAME Arthur Setzer	

EMP NAME Arthur Seizer	Don Brown				
Jared Green					
Cody Bonitz					
Frank Reeves					

Form. Name _____ Type: _____

Packer Type _____ Set At _____ 0 _____

Bottom Hole Temp. 155 Pressure _____

Retainer Depth _____ Total Depth 5,556'

Date	Called Out	On Location	Job Started	Job Completed
	6/10/2014	6/11/2014	6/11/2014	6/11/2014
Time	2200	0600	0640	0830

Type and Size	Qty	Make
Auto Fill Tube	0	IR
Insert Float 1/2	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		26#	7"		Surface	5,500	5,000
Liner							
Liner							
Tubing			0				
Drill Pipe							
Open Hole			8 3/4"		Surface	5,556'	Shots/Ft.
Perforations							
Perforations							
Perforations							

Materials			
Mud Type	WBM	Density	9 Lb/Gal
Disp. Fluid	Fresh Water	Density	8.33 Lb/Gal
Spacer type	Fresh Water BBL.		20 8.33
Spacer type	Caustic BBL.		10 8.40
Acid Type	Gal.	%	
Acid Type	Gal.	%	
Surfactant	Gal.	In	
NE Agent	Gal.	In	
Fluid Loss	Gal/Lb	In	
Gelling Agent	Gal/Lb	In	
Fric. Red.	Gal/Lb	In	
MISC.	Gal/Lb	In	
Perfpac Balls	Qty.		
Other			
Other			
Other			
Other			
Other			

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
6/11	3.0	6/11	2.0	Intermediate
Total	3.0	Total	2.0	

Pressures	
MAX 5,000 PSI	AVG. 1500
Average Rates in BPM	
MAX 8 BPM	AVG 7
Cement Left in Pipe	
Feet 44	Reason SHOE JOINT

Cement Data						
Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	240	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

Summary					
Preflush Breakdown	10	Type: Caustic	Preflush: BBI	30.00	Type: Gel Spacer
		MAXIMUM 5,000 PSI	Load & Bkdn: Gal - BBI	N/A	Pad:Bbl -Gal N/A
		Lost Returns-1 NO/FULL	Excess /Return BBI	N/A	Calc.Disp Bbl 209
Average		Actual TOC	Calc. TOC:	2,700	Actual Disp. 209.00
ISIP 5 Min.		Bump Plug PSI: 1,500	Final Circ. PSI:	900	Disp:Bbl 209.00
		10 Min	Cement Slurry BBI	82.0	
		15 Min	Total Volume BBI	321.00	

CUSTOMER REPRESENTATIVE _____ SIGNATURE _____

Don Waight

