



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1150524
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: _____



1150524

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: 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> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Yarnell 3204 1-25H
Doc ID	1150524

All Electric Logs Run

Vertical Final
Boresight
Prizm
Density
Induction

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Yarnell 3204 1-25H
Doc ID	1150524

Tops

Name	Top	Datum
Base Heebner	2654	
Tonkawa	2971	
Cottage Grove	3282	
Oswego Limestone	3629	
Cherokee Group	3739	
Verdigris Limestone	3769	
Mississippi Unconformity	3930	
Mississippi Limestone	3933	

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Yarnell 3204 1-25H
Doc ID	1150524

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	7998-8248	36 bbls 15% HCL Acid, 4340 bbls Fresh Slickwater, Running TLTR 4487 bbls	
5	7618-7928	36 bbls 15% HCL Acid, 4173 bbls Fresh Slickwater, Running TLTR 8660 bbls	
5	7298-7532	36 bbls 15% HCL Acid, 4141 bbls Fresh Slickwater, Running TLTR 12921 bbls	
5	6904-7232	36 bbls 15% HCL Acid, 4126 bbls Fresh Slickwater, Running TLTR 17153 bbls	
5	6523-6845	36 bbls 15% HCL Acid, 4045 bbls Fresh Slickwater, Running TLTR 21332 bbls	
5	6163-6445	36 bbls 15% HCL Acid, 4004 bbls Fresh Slickwater, Running TLTR 25457 bbls	
5	5818-6092	36 bbls 15% HCL Acid, 4016 bbls Fresh Slickwater, Running TLTR 29543 bbls	
5	5438-5750	36 bbls 15% HCL Acid, 4028 bbls Fresh Slickwater, Running TLTR 33684 bbls	

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Yarnell 3204 1-25H
Doc ID	1150524

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	5131-5268	36 bbls 15% HCL Acid, 4156 bbls Fresh Slickwater, Running TLTR 37949 bbls	
5	4723-5052	36 bbls 15% HCL Acid, 4092 bbls Fresh Slickwater, Running TLTR 42129 bbls	

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



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

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

July 03, 2013

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

Re: ACO1
API 15-191-22684-01-00
Yarnell 3204 1-25H
NW/4 Sec.25-32S-04W
Sumner 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



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

INVOICE

INVOICE NO.: 214
 INVOICE DATE: 06/24/2013

SANDRIDGE ENERGY
 123 ROBERT S KERR AVE
 OKLAHOMA CITY, OK 73102-6406

YARD: WY WAYNOKA OK
 LEASE: Yarnell
 WELL#: 3204 1-25H
 RIG #: Lariat 45
 Co/St: SUMNER, KS

Tkt # WY-44-1 (10406) 06/07/2013-06/08/2013

DESCRIPTION	FOOTAGE	QUANTITY	RATE	AMOUNT
6/7-8/2013 DRILLED 30" CONDUCTOR HOLE				
6/7-8/2013 20" CONDUCTOR PIPE (.250 WALL)				
6/7-8/2013 DRILL & INSTALL 6' X 6' CELLAR TINHORN				
6/7-8/2013 6' X 6' CELLAR TINHORN WITH PROTECTIVE RING				
6/7-8/2013 DRILLED 20" MOUSE HOLE (PER FOOT)				
6/7-8/2013 16" CONDUCTOR PIPE (.250 WALL)				
6/7-8/2013 MOBILIZATION OF EQUIPMENT & ROAD PERMITTING FEE				
6/7-8/2013 WELDING SERVICES FOR PIPE & LIDS				
6/7-8/2013 PROVIDED EQUIPMENT & LABOR TO ASSIST IN PUMPING CONCRETE				
6/7-8/2013 PROVIDED METAL LIDS (1 FOR CONDUCTOR & 2 FOR MOUSEHOLE PIPE)				
6/7-8/2013 8 SACK GROUT				
6/7-8/2013 TAXABLE ITEMS				5,100.00
6/7-8/2013 BID + TAXABLE ITEMS				16,150.00
				Sub Total: 21,250.00 ✓
				Tax SUMNER COUNTY (6.8 %): 346.80
				PLEASE PAY THIS AMOUNT: <u>\$ 21,596.80</u>

JOB SUMMARY

COUNTY Sumner		State Kansas		COMPANY Bridge Exploration & Produc		PROJECT NUMBER SOK 2802	TICKET DATE 06/21/13
LEASE NAME Yarnell 3204		Well No. 1-25H		JOB TYPE Surface		CUSTOMER REP Felix Ortiz Jr.	
EMP NAME Daniel Wells						EMPLOYEE NAME Daniel Wells	

Daniel Wells	0			
Berry Wallace				
David Settlemier				
Scott Woods				

Form. Name _____ Type: _____

Packer Type _____ Set At 0

Bottom Hole Temp. 80 Pressure _____

Retainer Depth _____ Total Depth 300

Date	Called Out	On Location	Job Started	Job Completed
	6/21/2013	6/21/2013	6/21/2013	6/21/2013
Time	1100	1500	1915	2015

Type and Size	Qty	Make
Auto Fill Tube	0	IR
Insert Float Val	0	IR
Centralizers	0	IR
Top Plug	1	IR
HEAD	1	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		54.5#	13 1/2"		Surface	309.98'	1,500
Liner							
Liner							
Tubing			0				
Drill Pipe							
Open Hole			17 1/2"		Surface	305	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 Wate 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	
6/21	6.0	6/21	1.0	Surface
Total	6.0	Total	1.0	

Pressures			
MAX	1.500 PSI	AVG	100
		Average Rates in BPM	
MAX	6 BPM	AVG	5
		Cement Left in Pipe	
Feet	46.44'	Reason SHOE JOINT	

Cement Data			
Stage	Sacks	Cement	Additives
1	250	EX Lite Premium Plus 65	(6% Gel) 2% Calcium Chloride - 1/2pps Cello-Flake - .5% C-41P
2	140	Premium Plus (Class C)	2% Calcium Chloride - 1/2pps Cello-Flake
			W/Rq. Yield Lbs/Gal
			10.88 1.84 12.70
			6.32 1.32 14.80

Summary			
Preflush Breakdown	Type: _____	MAXIMUM _____	1500 PSI
	Lost Returns- n	NO/FULL	
	Actual TOC	SURFACE	
Average	Bump Plug PSI:	900	
ISIF _____ 5 Min.	10 Min _____	15 Min _____	
	Preflush: BBI	10.00	Type: Fresh Water
	Load & Bkdn: Gal - BBI	N/A	Pad:Bbl -Gal N/A
	Excess /Return BBI	40	Calc. Disp Bbl 41
	Calc. TOC:	SURFACE	Actual Disp. 40.70
	Final Circ. PSI:	200	Disp:Bbl 40.70
	Cement Slurry: BBI	114.8	
	Total Volume BBI	165.54	

CUSTOMER REPRESENTATIVE _____ *Felix Ortiz Jr.* SIGNATURE

JOB SUMMARY			PROJECT NUMBER SOK 2819	TICKET DATE 06/27/13
COUNTY Sumner	State Kansas	COMPANY Sandridge Exploration & Production	CUSTOMER REP Tommy Whitlow	
LEASE NAME Yarnell 3204	Well No. 1-25H	JOB TYPE Intermediate	EMPLOYEE NAME NATHAN COTTA	

EMP NAME NATHAN COTTA	BRETT A				
WESLEY T					
VONTREY W					
RICKY S					

Form. Name _____ Type: _____
 Packer Type _____ Set At **3,260'**
 Bottom Hole Temp. **145** Pressure _____
 Retainer Depth _____ Total Depth **4,689'**

	Called Out	On Location	Job Started	Job Completed
Date	6.26.13	6.27.13	6.27.13	6.27.13
Time	2300	300	652	900

Type and Size	Qty	Make
Auto Fill Tube	0	IR
Insert Float Val	0	IR
Centralizers	0	IR
Top Plug	1	IR
HEAD	1	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		5,000
Liner							
Liner							
Tubing			0				
Drill Pipe							
Open Hole			8 3/4"		Surface	4,699'	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	

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
6.27.13	6.0	6.27.13	3.0	Intermediate
Total	6.0	Total	3.0	

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

Pressures			
MAX	3500	AVG	500
Average Rates in BPM			
MAX	7 BPM	AVG	5
Cement Left in Pipe			
Feet	85	Reason	SHOE JOINT

Cement Data						
Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	230	50/50 POZ PREMIUM	4% Gel - 0.4% FL-17 - 0.2% C-51 - 0.1% C-20 - 0.1% C-37 - 0.5% C-41P	6.77	1.44	13.60
2	100	Premium	0.4% FL-17 - 0.1% C-51 - 0.1% C-20 - 0.4% C-41P	5.20	1.18	15.60
3	0	0		0.00	0.00	0.00

Summary					
Preflush	10	Type:	Caustic	Preflush:	BBI 30.00
Breakdown		MAXIMUM	5,000 PSI	Load & Bkdn:	Gal - BBI N/A
		Lost Returns-N	NO/FULL	Excess /Return	BBI N/A
		Actual TOC	4.034	Calc. TOC:	4.034
Average		Bump Plug PSI:	1,500	Final Circ. PSI:	1,000
	5 Min	10 Min	15 Min	Cement Slurry: BBI	11.0
				Total Volume	BBI 282.00
				Type:	10ppm Barite Spacer
				Pad:Bbl-Gal	N/A
				Calc. Disp Bbl	175
				Actual Disp.	175.00
				Disp:Bbl	175.00

CUSTOMER REPRESENTATIVE _____ SIGNATURE _____



Standard Wellpath Report
Sandridge
Sec 25 - 32S - 4W, Kansas
Sumner County
Wellbore: Yarnell 3204 1-25H (Actual)

Wellbore

Name	Created	Last Revised
Yarnell 3204 1-25H (Actual)	10-Jun-2013	3-Jul-2013

Well

Name	Government ID	Last Revised
Yarnell 3204 1-25H		10-Jun-2013

Slot

Name	Grid Northing	Grid Easting	Latitude	Longitude	North	East
Yarnell 3204 1-25H	207975.0000	2231904.0000	N37 14 6.4399	W97 42 12.4271	2418.99S	1975.99E

Installation

Name	Easting	Northing	Coord System Name	North Alignment
Sumner County	2229928.0000	210394.0000	KS-S on NORTH AMERICAN DATUM 1927 datum	Grid

Field

Name	Easting	Northing	Coord System Name	North Alignment
Sec 25 - 32S - 4W	2229928.0000	210394.0000	KS-S on NORTH AMERICAN DATUM 1927 datum	Grid

Created By

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Comments

FINAL Surveys. MD 8365 is a projection to bit @ TD



Standard Wellpath Report
Sandridge
Sec 25 - 32S - 4W, Kansas
Sumner County
Wellbore: Yarnell 3204 1-25H (Actual)

Wellpath (Grid) Report

MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	Easting	Northing
0.00	0.00	0.000	0.00	0.00N	0.00E		0.00	2231904.00	207975.00
502.00	1.00	45.100	501.97	3.09N	3.10E	0.20	3.09	2231907.10	207978.09
960.00	0.90	47.900	959.91	8.32N	8.60E	0.02	8.33	2231912.60	207983.32
1418.00	1.00	23.400	1417.85	14.40N	12.86E	0.09	14.41	2231916.86	207989.40
1880.00	0.70	0.600	1879.80	20.93N	14.49E	0.10	20.93	2231918.49	207995.93
2259.00	0.80	354.100	2258.77	25.87N	14.24E	0.03	25.88	2231918.24	208000.87
2734.00	0.50	344.900	2733.74	31.17N	13.36E	0.07	31.17	2231917.36	208006.17
3200.00	0.80	281.100	3199.71	33.76N	9.64E	0.16	33.76	2231913.64	208008.76
3240.00	0.70	304.000	3239.71	33.95N	9.16E	0.78	33.95	2231913.16	208008.95
3272.00	1.90	4.200	3271.70	34.59N	9.04E	5.21	34.59	2231913.04	208009.59
3304.00	4.90	15.100	3303.64	36.44N	9.43E	9.55	36.44	2231913.43	208011.44
3335.00	7.90	5.600	3334.44	39.84N	9.99E	10.23	39.84	2231913.99	208014.84
3367.00	11.60	358.100	3365.98	45.25N	10.10E	12.20	45.25	2231914.10	208020.25
3399.00	14.50	357.700	3397.15	52.47N	9.83E	9.07	52.47	2231913.83	208027.47
3430.00	17.20	357.100	3426.97	60.92N	9.44E	8.73	60.92	2231913.44	208035.92
3462.00	19.90	357.100	3457.30	71.09N	8.92E	8.44	71.09	2231912.92	208046.09
3493.00	22.30	357.600	3486.22	82.24N	8.41E	7.76	82.24	2231912.41	208057.24
3525.00	24.70	359.200	3515.57	94.99N	8.06E	7.76	94.99	2231912.06	208069.99
3556.00	27.40	0.200	3543.41	108.60N	8.00E	8.82	108.60	2231912.00	208083.60
3588.00	30.00	0.500	3571.48	123.97N	8.09E	8.14	123.97	2231912.09	208098.97
3620.00	32.50	0.400	3598.84	140.56N	8.22E	7.81	140.57	2231912.22	208115.57
3651.00	34.80	0.600	3624.64	157.74N	8.37E	7.43	157.74	2231912.37	208132.74
3683.00	36.40	0.100	3650.66	176.37N	8.49E	5.08	176.37	2231912.49	208151.37
3715.00	38.20	0.000	3676.11	195.76N	8.50E	5.63	195.76	2231912.50	208170.76
3746.00	39.50	359.200	3700.25	215.20N	8.37E	4.50	215.20	2231912.37	208190.20
3778.00	41.00	358.900	3724.68	235.88N	8.02E	4.73	235.88	2231912.02	208210.88
3809.00	43.10	0.000	3747.69	256.64N	7.83E	7.18	256.64	2231911.83	208231.64
3841.00	45.90	1.600	3770.52	279.06N	8.15E	9.43	279.06	2231912.15	208254.06
3873.00	48.30	2.400	3792.30	302.48N	8.97E	7.72	302.49	2231912.97	208277.49
3904.00	50.70	2.900	3812.43	326.03N	10.06E	7.84	326.03	2231914.06	208301.03
3936.00	53.40	2.100	3832.11	351.24N	11.16E	8.66	351.24	2231915.16	208326.24
3968.00	55.70	0.400	3850.67	377.29N	11.72E	8.39	377.30	2231915.72	208352.30
3999.00	58.50	359.700	3867.50	403.32N	11.74E	9.23	403.32	2231915.74	208378.32
4031.00	61.60	358.500	3883.48	431.04N	11.30E	10.22	431.04	2231915.30	208406.04
4062.00	63.50	358.200	3897.77	458.54N	10.51E	6.19	458.54	2231914.51	208433.54
4094.00	66.10	358.700	3911.39	487.48N	9.73E	8.25	487.48	2231913.73	208462.48
4126.00	68.50	358.700	3923.74	516.99N	9.06E	7.50	516.99	2231913.06	208491.99
4157.00	71.20	359.300	3934.42	546.08N	8.55E	8.90	546.09	2231912.55	208521.09
4189.00	74.50	0.100	3943.85	576.66N	8.39E	10.59	576.66	2231912.39	208551.66
4221.00	78.00	0.600	3951.46	607.73N	8.58E	11.04	607.74	2231912.58	208582.74
4252.00	81.40	1.000	3957.00	638.23N	9.01E	11.04	638.23	2231913.01	208613.23
4284.00	84.60	1.200	3960.90	669.98N	9.62E	10.02	669.98	2231913.62	208644.98
4315.00	86.80	0.900	3963.22	700.88N	10.19E	7.16	700.89	2231914.19	208675.89
4347.00	87.50	0.200	3964.81	732.84N	10.49E	3.09	732.84	2231914.49	208707.85
4379.00	88.50	359.800	3965.93	764.82N	10.49E	3.37	764.82	2231914.49	208739.83
4410.00	88.50	359.700	3966.74	795.81N	10.36E	0.32	795.81	2231914.36	208770.82
4442.00	88.50	359.800	3967.58	827.80N	10.22E	0.31	827.80	2231914.22	208802.80
4474.00	88.80	359.300	3968.33	859.79N	9.97E	1.82	859.79	2231913.97	208834.79
4505.00	88.80	358.900	3968.98	890.78N	9.48E	1.29	890.78	2231913.48	208865.78
4537.00	88.90	358.500	3969.63	922.77N	8.75E	1.29	922.77	2231912.75	208897.77
4569.00	88.80	357.900	3970.27	954.74N	7.75E	1.90	954.74	2231911.75	208929.75
4600.00	88.70	357.800	3970.94	985.71N	6.59E	0.46	985.71	2231910.59	208960.72
4632.00	88.70	357.800	3971.67	1017.68N	5.36E	==>	1017.68	2231909.36	208992.69
4649.00	88.60	357.600	3972.07	1034.66N	4.68E	1.32	1034.66	2231908.68	209009.67
4695.00	88.70	357.100	3973.15	1080.60N	2.55E	1.11	1080.60	2231906.55	209055.61
4790.00	90.90	358.200	3973.49	1175.51N	1.35W	2.59	1175.51	2231902.65	209150.52
4885.00	92.50	0.800	3970.67	1270.46N	2.17W	3.21	1270.46	2231901.83	209245.46
4979.00	92.50	359.800	3966.57	1364.36N	1.68W	1.06	1364.36	2231902.32	209339.37
5074.00	90.70	359.500	3963.91	1459.32N	2.26W	1.92	1459.32	2231901.74	209434.33
5169.00	92.00	0.100	3961.68	1554.29N	2.59W	1.51	1554.29	2231901.41	209529.30
5261.00	89.60	359.400	3960.39	1646.28N	3.00W	2.72	1646.27	2231901.00	209621.28
5352.00	89.70	0.500	3960.95	1737.27N	3.08W	1.21	1737.27	2231900.92	209712.28
5444.00	90.70	0.700	3960.63	1829.27N	2.11W	1.11	1829.26	2231901.89	209804.27
5536.00	92.10	1.300	3958.38	1921.22N	0.51W	1.66	1921.22	2231903.49	209896.23
5627.00	88.60	0.000	3957.82	2012.20N	0.52E	4.10	2012.20	2231904.52	209987.21
5719.00	87.60	359.800	3960.87	2104.15N	0.36E	1.11	2104.15	2231904.36	210079.15
5811.00	87.20	358.800	3965.05	2196.04N	0.76W	1.17	2196.04	2231903.24	210171.05
5903.00	90.90	0.500	3966.57	2288.01N	1.32W	4.43	2288.01	2231902.68	210263.02
5994.00	90.70	359.800	3965.30	2379.00N	1.08W	0.80	2379.00	2231902.92	210354.01
6086.00	91.40	359.800	3963.62	2470.98N	1.40W	0.76	2470.98	2231902.60	210445.99

All data is in Feet unless otherwise stated
Coordinates are from Slot MD's are from Slot and TVD's are from Slot (Yarnell 3204 1-25H 0.00ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 0.010 degrees
Bottom hole distance is 4749.58 Feet on azimuth 0.10 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by
Date Printed: 3-Jul-2013



Standard Wellpath Report
 Sandridge
 Sec 25 - 32S - 4W, Kansas
 Sumner County
 Wellbore: Yarnell 3204 1-25H (Actual)

Wellpath (Grid) Report

MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	Easting	Northing
6177.00	90.10	358.900	3962.42	2561.97N	2.43W	1.74	2561.97	2231901.57	210536.98
6269.00	88.10	0.400	3963.87	2653.95N	3.00W	2.72	2653.95	2231901.00	210628.96
6361.00	89.10	0.300	3966.12	2745.92N	2.44W	1.09	2745.91	2231901.56	210720.93
6452.00	89.60	0.300	3967.15	2836.91N	1.96W	0.55	2836.91	2231902.04	210811.92
6544.00	88.50	359.900	3968.68	2928.89N	1.80W	1.27	2928.89	2231902.20	210903.91
6636.00	89.10	359.300	3970.60	3020.87N	2.44W	0.92	3020.87	2231901.56	210995.88
6727.00	89.20	359.200	3971.95	3111.85N	3.63W	0.16	3111.85	2231900.37	211086.87
6819.00	89.60	359.800	3972.92	3203.84N	4.43W	0.78	3203.84	2231899.57	211178.86
6910.00	90.90	359.600	3972.52	3294.84N	4.91W	1.45	3294.84	2231899.09	211269.85
7005.00	91.50	0.100	3970.53	3389.82N	5.16W	0.82	3389.82	2231898.84	211364.83
7100.00	90.20	0.100	3969.12	3484.80N	4.99W	1.37	3484.80	2231899.01	211459.82
7195.00	89.20	1.100	3969.62	3579.80N	4.00W	1.49	3579.79	2231900.00	211554.81
7290.00	89.40	1.100	3970.78	3674.77N	2.18W	0.21	3674.77	2231901.82	211649.79
7385.00	89.50	0.900	3971.69	3769.75N	0.52W	0.24	3769.75	2231903.48	211744.77
7480.00	89.40	0.100	3972.60	3864.74N	0.31E	0.85	3864.74	2231904.31	211839.76
7575.00	90.10	0.100	3973.02	3959.74N	0.48E	0.74	3959.74	2231904.48	211934.76
7670.00	89.40	0.400	3973.43	4054.74N	0.89E	0.80	4054.74	2231904.89	212029.76
7765.00	89.90	0.900	3974.01	4149.73N	1.97E	0.74	4149.73	2231905.97	212124.75
7860.00	89.60	1.200	3974.43	4244.71N	3.71E	0.45	4244.71	2231907.71	212219.73
7955.00	89.70	1.200	3975.01	4339.69N	5.70E	0.11	4339.69	2231909.70	212314.71
8050.00	89.00	1.400	3976.08	4434.66N	7.86E	0.77	4434.66	2231911.86	212409.68
8145.00	88.80	0.300	3977.91	4529.63N	9.26E	1.18	4529.63	2231913.26	212504.65
8240.00	88.70	0.300	3979.98	4624.61N	9.76E	0.11	4624.61	2231913.76	212599.63
8316.00	89.60	358.700	3981.11	4700.59N	9.10E	2.42	4700.59	2231913.10	212675.61
8365.00	89.60	358.700	3981.45	4749.58N	7.99E	==>	4749.58	2231911.99	212724.60

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 Coordinates are from Slot MD's are from Slot and TVD's are from Slot (Yarnell 3204 1-25H 0.00ft above Mean Sea Level)
 Vertical Section is from 0.00N 0.00E on azimuth 0.010 degrees
 Bottom hole distance is 4749.58 Feet on azimuth 0.10 degrees from Wellhead
 Calculation method uses Minimum Curvature method
 Prepared by
 Date Printed: 3-Jul-2013



Standard Wellpath Report
Sandridge
Sec 25 - 32S - 4W, Kansas
Sumner County
Wellbore: Yarnell 3204 1-25H (Actual)

Comments

MD[ft]	TVD[ft]	North[ft]	East[ft]	Comment
8365.00	3981.45	4749.58N	7.99E	Projection to bit @ TD

All data is in Feet unless otherwise stated
Coordinates are from Slot MD's are from Slot and TVD's are from Slot (Yarnell 3204 1-25H 0.00ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 0.010 degrees
Bottom hole distance is 4749.58 Feet on azimuth 0.10 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by
Date Printed: 3-Jul-2013

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	7/31/2013
Job End Date:	8/2/2013
State:	Kansas
County:	Sumner
API Number:	15-191-22684-01-00
Operator Name:	SandRidge Energy
Well Name and Number:	Yarnell 3204 1-25H
Longitude:	-97.70340000
Latitude:	37.23510000
Datum:	NAD27
Federal/Tribal Well:	NO
True Vertical Depth:	3,981
Total Base Water Volume (gal):	1,900,099
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
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.							
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Water (Including Mix Water Supplied by Client)*	NA		95.30986	
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Crystalline silica	14808-60-7	96.15311	4.50972	
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Hydrogen chloride	7647-01-0	2.75697	0.12931	

HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Distillates (petroleum), hydrotreated light	64742-47-8	0.31762	0.01490	
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Acrylamide/ammonium acrylate copolymer	26100-47-0	0.24199	0.01135	
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Ammonium chloride	12125-02-9	0.15125	0.00709	
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Polyethylene glycol monohexyl ether	31726-34-8	0.10490	0.00492	
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Ethanol, 2,2',2''-nitrilotris-, 1,1',1''-tris(dihydrogen phosphate), sodium salt	68171-29-9	0.06811	0.00319	
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Ethoxylated oleic acid	9004-96-0	0.03025	0.00142	
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Sorbitan monooleate	1338-43-8	0.03025	0.00142	

HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Trisodium ortho phosphate	7601-54-9	0.02994	0.00140	
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Sodium erythorbate	6381-77-7	0.02115	0.00099	
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Methanol	67-56-1	0.01114	0.00052	
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Sorbitol Tetraoleate	61723-83-9	0.00907	0.00043	
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Ethane-1,2-diol	107-21-1	0.00852	0.00040	
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Fatty acids, tall-oil	61790-12-3	0.00818	0.00038	
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Sodium sulfocyanate	540-72-7	0.00786	0.00037	
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			2-Propenoic acid, ammonium salt	10604-69-0	0.00741	0.00035	

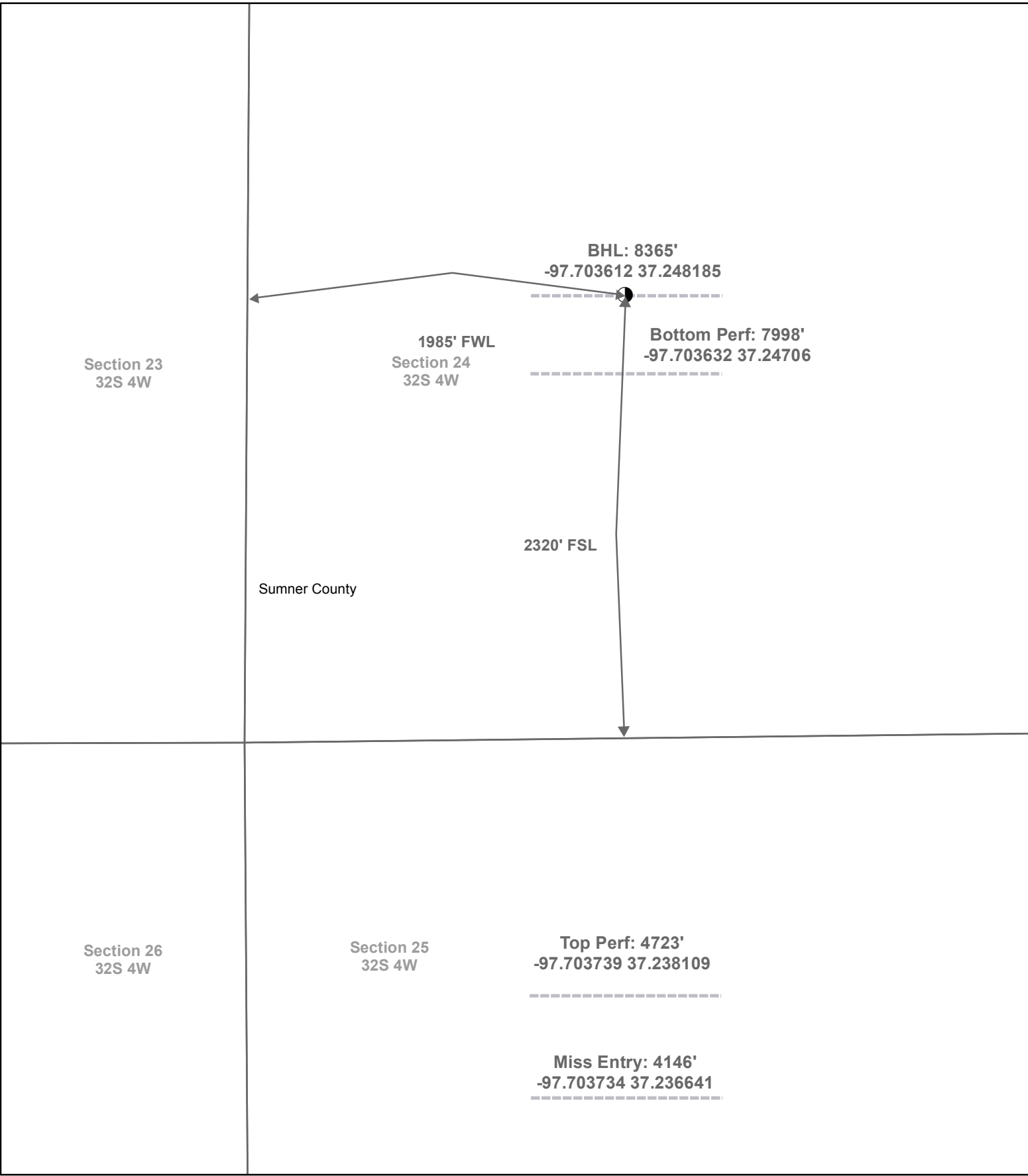
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Thiourea, polymer with formaldehyde and 1- phenylethanone	68527-49-1	0.00673	0.00032	
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Alcohols, C10-C16, ethoxylated	68002-97-1	0.00605	0.00028	
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Dicoco dimethyl quaternary ammonium chloride	61789-77-3	0.00460	0.00022	
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			C14 alpha olefin ethoxylate	84133-50-6	0.00454	0.00021	
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Alcohols, C12-C16, ethoxylated	68551-12-2	0.00454	0.00021	
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Alcohols, C12-C14, ethoxylated	68439-50-9	0.00454	0.00021	
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Alcohols, C14-15, ethoxylated (7EO)	68951-67-7	0.00313	0.00015	

HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Prop-2-yn-1-ol	107-19-7	0.00209	0.00010	
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Alkenes, C>10 a-	64743-02-8	0.00139	0.00007	
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			2-propenamid	79-06-1	0.00136	0.00006	
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Propan-2-ol	67-63-0	0.00092	0.00004	
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Potassium hydroxide	1310-58-3	0.00021	0.00001	

* 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
THE POWER OF US™

Actual Bottom-Hole Location of Yarnell 3204 1-25H
Summer County, Kansas
T&R: 32S 4W
Section: 24, 1985' FWL & 2320' FSL
-97.703612 37.248185

1 in = 667 ft

0 500 1,000 2,000 Feet

● Actual BH Location
 * SandRidge Wells
 --- Perf
 □ Sections

N

Draftsman: Aaron Birk	Draft Date: 9/20/2013
Drawing Name/Number: Addendum_Yarnell 3204 1-25H.mxd	
Coordinate System: NAD 1927 State Plane Kansas South FIPS: 1502	