



APPLICATION FOR COMMINGLING OF PRODUCTION (K.A.R. 82-3-123) OR FLUIDS (K.A.R. 82-3-123a) *Commingling ID # _____*

OPERATOR: License # _____ API No. 15 - _____
Name: _____ Spot Description: _____
Address 1: _____ - - - - - Sec. _____ Twp. _____ S. R. _____ East West
Address 2: _____ Feet from North / South Line of Section
City: _____ State: _____ Zip: _____ + _____ Feet from East / West Line of Section
Contact Person: _____ County: _____
Phone: (_____) _____ Lease Name: _____ Well #: _____

1. Name and upper and lower limit of each production interval to be commingled:
Formation: _____ (Perfs): _____
Formation: _____ (Perfs): _____
Formation: _____ (Perfs): _____
Formation: _____ (Perfs): _____
Formation: _____ (Perfs): _____

2. Estimated amount of fluid production to be commingled from each interval:
Formation: _____ BOPD: _____ MCFPD: _____ BWPD: _____
Formation: _____ BOPD: _____ MCFPD: _____ BWPD: _____
Formation: _____ BOPD: _____ MCFPD: _____ BWPD: _____
Formation: _____ BOPD: _____ MCFPD: _____ BWPD: _____
Formation: _____ BOPD: _____ MCFPD: _____ BWPD: _____

3. Plat map showing the location of the subject well, all other wells on the subject lease, and all wells on offsetting leases within a 1/2 mile radius of the subject well, and for each well the names and addresses of the lessee of record or operator.

4. Signed certificate showing service of the application and affidavit of publication as required in K.A.R. 82-3-135a.

For Commingling of PRODUCTION ONLY, include the following:

- 5. Wireline log of subject well. Previously Filed with ACO-1: Yes No
- 6. Complete Form ACO-1 (*Well Completion form*) for the subject well.

For Commingling of FLUIDS ONLY, include the following:

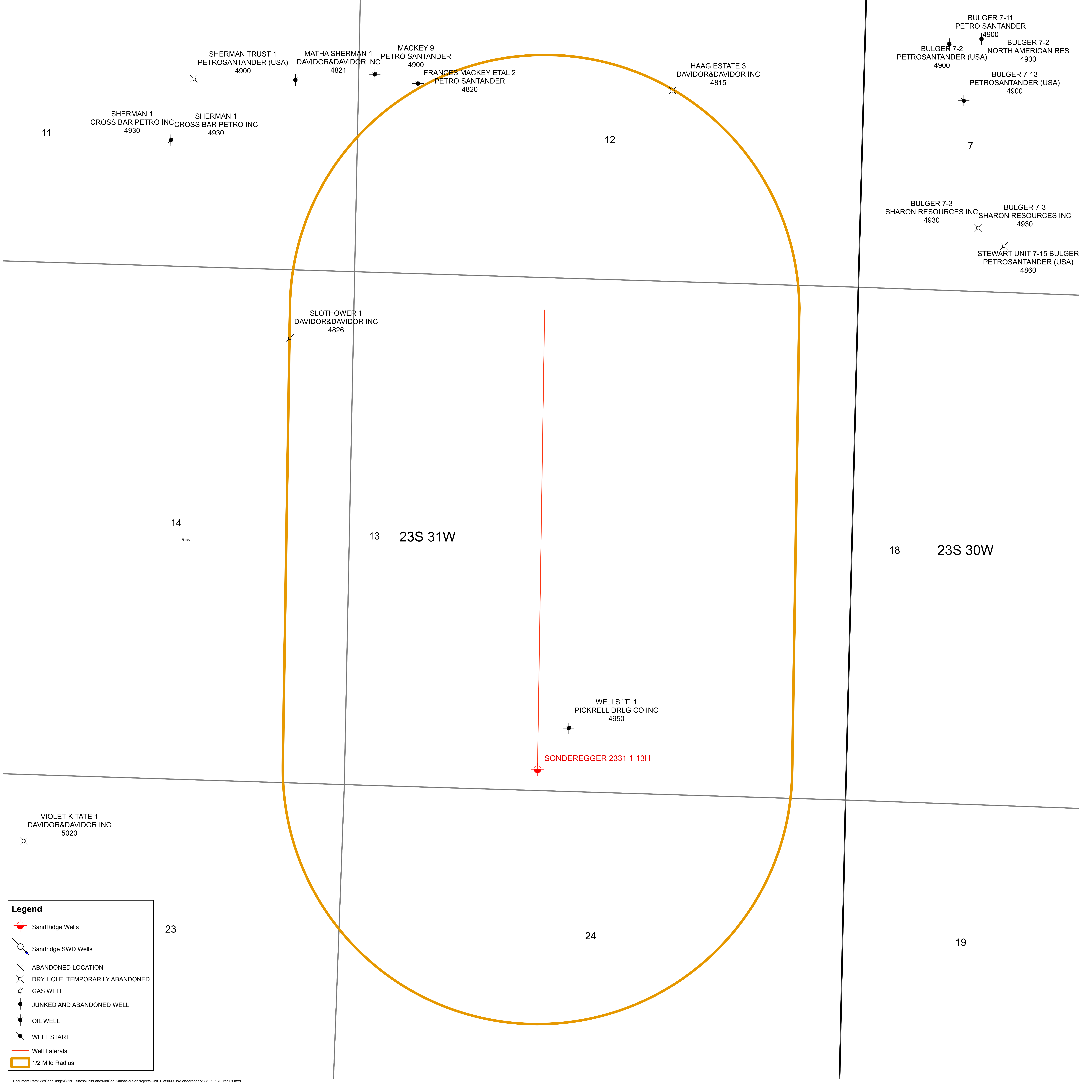
- 7. Well construction diagram of subject well.
- 8. Any available water chemistry data demonstrating the compatibility of the fluids to be commingled.

AFFIDAVIT: I am the affiant and hereby certify that to the best of my current information, knowledge and personal belief, this request for commingling is true and proper and I have no information or knowledge, which is inconsistent with the information supplied in this application.

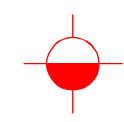
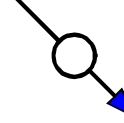
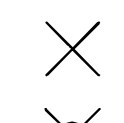
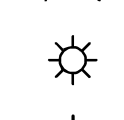
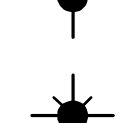
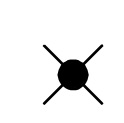

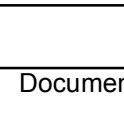

Submitted Electronically

KCC Office Use Only
 Denied Approved
15-Day Periods Ends: _____
Approved By: _____ Date: _____

Protests may be filed by any party having a valid interest in the application. Protests must be in writing and comply with K.A.R. 82-3-135b and must be filed within 15 days of publication of the notice of application.



Legend

-  SandRidge Wells
-  Sandridge SWD Wells
-  ABANDONED LOCATION
-  DRY HOLE, TEMPORARILY ABANDONED
-  GAS WELL
-  JUNKED AND ABANDONED WELL
-  OIL WELL
-  WELL START
-  Well Laterals
- 1/2 Mile Radius

SONDEREGGER 2331 I-13H

Unit Description	SW/4 14-235-31W, FINNEY COUNTY, KS
Surface Owner	Ray & Virginia Sonderegger
Well Name	1682 S. HWY 25
Operator	1682 S. HWY 25
Address	Eloti, KS 67861-6320

Well Name	Operator	Address	Location
Frances Mackey #2	PetroSantander (USA), INC.	6863 Woodway, Suite 350	Houston, TX 77050
Mackey #9	PetroSantander (USA), INC.	6863 Woodway, Suite 350	Houston, TX 77050

Lessee Name	Address	Location
Ray & Virginia Sonderegger	1682 S. HWY 25	Eloti, KS 67861-6320
Eileen & Melvin Rybert	820 E. Villa Rita Dr.	Phoenix, AZ 85022
Brian Gledt	2919 N. Camino Largo	Grande Prairie, TX 75054
Kevin Gledt	1612 Winter Pass Trail #1225	Arlington, TX 76002
Latie R. & Ruth Towner	522 SE 110th	Bellvue, WA 98004

Unleased Mineral Owners	Address	Location
Elaine S. Small, Trustee of the Elaine S. Small Living Trust 11/17/93	4505 Parker Rd. #209	Floresant, MD 63093
William A. Small, Jr., & Evelyn R. Small	P.O. Box 13	Parker, CO 80134

Certificate of Service

The undersigned hereby certifies that on March 20, 2015 a copy of the KCC Form ACO-4, Application for Commingling of Production was mailed to the following persons entitled to notice of the Application pursuant to §K.A.R. 82-3-135a:

Ray & Virginia Sonderegger
1682 S. Hwy 25
Eloti, KS 67861

PetroSantander (USA) Inc.
6363 Woodway, Suite 350
Houston, TX 77050

Eileen & Melvin Rybert
820 E. Villa Rite Dr.
Phoenix, AZ 85022

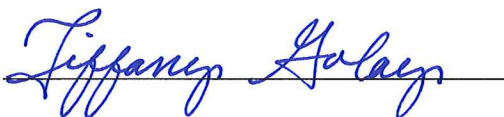
Brian Giedt
2919 N. Camino Lagos
Grand Prairie, TX 75054

Kevin Giedt
1612 Winter Pass Trail #1225
Arlington, TX 76002

Laile R & Ruth Towner
522 SE 110th
Bellvue, WA 98004

Elaine S. Small, Trustee
4505 Parker Rd. #209
Florissant, MO 63033

William A. Small Jr., & Evelyn R. Small
P.O. Box 13
Parker, CO 80134

A handwritten signature in blue ink that reads "Tiffany Golay". The signature is written in a cursive style and is positioned above a horizontal line.

Tiffany Golay
Senior Regulatory Technician

**THE STATE CORPORATION COMMISSION
OF THE STATE OF KANSAS**

IN THE MATTER OF THE APPLICATION)
OF **SANDRIDGE EXPLORATION AND**)
PRODUCTION, LLC FOR PERMISSION) KCC License No. 34192
TO COMMINGLE PRODUCTION FROM)
THE SONDEREGGER 2331 1-13H WELL)
IN FINNEY COUNTY, KANSAS,)
PURSUANT TO K.A.R. § 82-3-123) CONSERVATION DIVISION
_____)

**NOTICE OF PENDING APPLICATION
FOR PERMISSION TO COMMINGLE PRODUCTION**

TO: ALL OIL AND GAS PRODUCERS, UNLEASED MINERAL INTEREST OWNERS,
LANDOWNERS, AND ALL PERSONS WHOSOEVER CONCERNED.

You, and each of you, are hereby notified that SANDRIDGE EXPLORATION AND PRODUCTION, LLC has filed an Application with the State Corporation Commission of the State of Kansas (the "Commission"), pursuant to K.A.R. § 82-3-123, seeking permission to commingle production from the Marmaton and Cherokee formations in the following well located in Finney County, Kansas:

Sonderegger 2331 #1-13H well
API No. 15-055-22177-01-00
Surface Location: 200' FSL & 1,980' FWL of Section 13-23S-31W

The Application is pending before the Commission and will be granted without hearing unless, within fifteen (15) days from publication of this notice, a written protest is received by the Conservation Division of the Kansas Corporation Commission. Any protest to the Application must be in writing and should clearly state the grounds of objection. The written protest should be mailed to the Kansas Corporation Commission, Conservation Division, 266 North Main, Suite 220, Wichita, Kansas, 67202.

If a proper written protest is filed with the Commission within fifteen (15) days from the date of publication of this notice, this matter will be set for hearing by the Commission. The hearing will be held at the Commission Hearing Room, Kansas Corporation Commission, Conservation Division, 266 North Main, Suite 220, Wichita, Kansas, 67202.

All persons interested or concerned shall take notice of the foregoing and shall govern themselves accordingly.

David E. Bengtson (#12184)
STINSON LEONARD STREET LLP
1625 N. Waterfront Pkwy., Suite 300
Wichita, Kansas 67206-6620
(316) 265-8800
Fax: (316) 265-1349
Attorneys for SandRidge Exploration and
Production, LLC

AFFIDAVIT

STATE OF KANSAS \
- SS.
County of Sedgwick /

Mark Fletchall, of lawful age, being first duly sworn, deposeth and saith: That he is Record Clerk of The Wichita Eagle, a daily newspaper published in the City of Wichita, County of Sedgwick, State of Kansas, and having a general paid circulation on a daily basis in said County, which said newspaper has been continuously and uninterruptedly published in said County for more than one year prior to the first publication of the notice hereinafter mentioned, and which said newspaper has been entered as second class mail matter at the United States Post Office in Wichita, Kansas, and which said newspaper is not a trade, religious or fraternal publication and that a notice of a true copy is hereto attached was published in the regular and entire Morning issue of said The Wichita Eagle for _1_ issues, that the first publication of said notice was

made as aforesaid on the 23rd of

March A.D. 2015, with

subsequent publications being made on the following dates:

And affiant further says that he has personal knowledge of the statements above set forth and that they are true.

Mark Fletchall

Subscribed and sworn to before me this

23rd day of March, 2015



Rachel M. Wilson

Notary Public Sedgwick County, Kansas

Printers Fee: \$234.40

LEGAL PUBLICATION

Published In The Wichita Eagle
March 23, 2015 (3342377)
THE STATE CORPORATION COMMISSION OF THE STATE OF KANSAS
IN THE MATTER OF THE APPLICATION)
OF SANDRIDGE EXPLORATION AND)
PRODUCTION, LLC FOR PERMISSION) KCC License No.
TO COMMINGLE PRODUCTION FROM) 34192
THE SONDEREGGER 2331 1-13H WELL)
IN FINNEY COUNTY, KANSAS,)
PURSUANT TO K.A.R. § 82-3-123) CONSERVATION
DIVISION

NOTICE OF PENDING APPLICATION FOR PERMISSION TO COMMINGLE PRODUCTION

TO: ALL OIL AND GAS PRODUCERS, UNLEASED MINERAL INTEREST OWNERS, LANDOWNERS, AND ALL PERSONS WHOSEVER CONCERNED.

You, and each of you, are hereby notified that SANDRIDGE EXPLORATION AND PRODUCTION, LLC has filed an Application with the State Corporation Commission of the State of Kansas (the "Commission"), pursuant to K.A.R. § 82-3-123, seeking permission to commingle production from the Marmaton and Cherokee formations in the following well located in Finney County, Kansas:

Sonderegger 2331 #1-13H well
API No. 15-055-22177-01-00
Surface Location: 200' FSL & 1,980' FWL of Section 13-23S-31W

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All persons interested or concerned shall take notice of the foregoing and shall govern themselves accordingly.

David E. Bengtson (#12184)
STINSON LEONARD STREET LLP
1625 N. Waterfront Pkwy., Suite 300
Wichita, Kansas 67206-6620
(316) 265-8800
Fax: (316) 265-1349
Attorneys for SandRidge
Exploration and
Production, LLC

Part of Publication

State Of Kansas - Finney County

Dena A. Sattler, being first duly sworn, deposes and says that she is publisher of THE GARDEN CITY TELEGRAM, a weekly newspaper printed in the State of Kansas and published in and of general circulation in Finney County, Kansas, on a weekly basis in Finney County, Kansas, and that said newspaper is not a trade, religious, or fraternal publication.

THAT said newspaper is daily published at least weekly fifty (50) times a year; has been so published continuously and uninterruptedly in said county and state for a period of more than five (5) years prior to the first publication of said notice.

THAT the attached notice is a true copy thereof and was published in the regular and entire issue of said newspaper for 1 consecutive days/weeks. The first (1st) publication thereof being made as aforesaid on the 23 day of March, 2015.

With subsequent publications being made on the following dates:

- 2nd Publication made on the day of .20
3rd Publication made on the day of .20
4th Publication made on the day of .20

Publication Fee: \$77.56

Affidavits (Additional Copies): @ \$5 each \$

Total Publication Fee: \$77.56

Sign [Signature]

Witness my hand this 15 day of March

2015

SUBSCRIBED AND SWORN before me this 23rd day of March, 2015.

[Signature]

(Notary Public)

My commission expires 11-25-17

(Published in The Garden City Telegram Saturday, March 23, 2015)

THE STATE CORPORATION COMMISSION OF THE STATE OF KANSAS

IN THE MATTER OF THE APPLICATION OF SANDRIDGE EXPLORATION AND PRODUCTION, LLC FOR PERMISSION TO COMMINGLE PRODUCTION FROM THE SONDEREGGER 2331 1-13H WELL IN FINNEY COUNTY, KANSAS PURSUANT TO K.A.R. § 82-3-123 KCC License No. 34192 CONSERVATION DIVISION)

NOTICE OF PENDING APPLICATION FOR PERMISSION TO COMMINGLE PRODUCTION

TO: ALL OIL AND GAS PRODUCERS, UN-LEASED MINERAL INTEREST OWNERS, LAND-OWNERS, AND ALL PERSONS WHOSOEVER CONCERNED.

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David E. Bengtson (#12184) STINSON LEONARD STREET LLP 1625 N. Waterfront Pkwy., Suite 300 Wichita, Kansas 67206-6620 (316) 265-8800 Fax: (316) 265-1349 Attorneys for SandRidge Exploration and Production, LLC

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
									5100	200	1981	3242
SHL	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5100	200	1981	3242
BHL	9230	92.80	359.80	4879.83	4766.06	82.57	4766.74	0.00	331	4969	1964	3269
Miss Entry	4986	55.37	359.35	4798.85	545.24	-5.49	545.01	9.38	4555	745	1964	3260
Top Perf	5050	62.15	359.08	4832.14	599.82	-6.30	599.56	11.42	4500	800	1962	3262
Bottom Perf	9080	91.73	11.92	4886.27	4616.20	82.37	4616.92	2.63	481	4819	1967	3266

Survey Points	NW Corner XY Coord	X	Y	Surface XY	X	Y	m				
							North Line slope	East Line slope	South Line slope	West Line slope	
NW Corner XY Coord	1371859	514945					-0.0342256				
SW Corner XY Coord	1371749	509639					0.0229167				
NE Corner XY Coord	1377089	514766					-0.029316				
SE Corner XY Coord	1376968	509486					0.0207312				

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	
								5100	200	1981	3242	
0	0.0	0	0	0	0	0	0	5100	200	1981	3242	
1821	0.50	355.70	1820.98	8	-1	7.91	0.03	5092	208	1980	3243	
2044	0.60	21.10	2043.97	10	0	9.98	0.12	5090	210	1980	3243	
2520	0.50	36.90	2519.95	14	2	14.01	0.04	5086	214	1982	3241	
2994	0.30	23.40	2993.93	17	4	16.83	0.05	5083	217	1984	3239	
3470	0.60	34.10	3469.92	20	6	20.08	0.07	5080	220	1986	3237	
3903	0.50	5.80	3902.90	24	7	23.87	0.07	5076	224	1987	3236	
3915	0.50	16.00	3914.90	24	7	23.97	0.74	5076	224	1987	3236	
3946	0.80	359.80	3945.90	24	7	24.32	1.13	5075	225	1987	3236	
3978	2.60	356.40	3977.88	25	7	25.26	5.63	5074	226	1987	3236	
4009	4.80	354.90	4008.81	27	7	27.25	7.10	5072	228	1987	3236	
4042	7.20	352.60	4041.63	31	6	30.67	7.31	5069	231	1986	3236	
4073	9.30	355.40	4072.31	35	6	35.08	6.90	5065	235	1986	3237	
4105	11.40	358.10	4103.79	41	6	40.81	6.73	5059	241	1985	3237	
4136	13.70	359.10	4134.04	47	6	47.54	7.45	5052	248	1985	3238	
4168	15.90	360.00	4164.98	56	5	55.71	6.91	5044	256	1985	3238	
4199	17.90	360.00	4194.64	65	5	64.72	6.45	5035	265	1985	3238	
4231	20.00	359.50	4224.90	75	5	75.11	6.58	5025	275	1984	3239	
4263	22.10	358.70	4254.77	87	5	86.60	6.62	5013	287	1984	3239	
4295	23.80	359.30	4284.23	99	5	99.06	5.36	5001	299	1984	3239	
4327	24.50	359.80	4313.43	112	5	112.15	2.28	4987	313	1983	3240	
4358	25.70	0.40	4341.50	125	5	125.30	3.96	4974	326	1983	3240	
4390	27.50	0.70	4370.12	140	5	139.62	5.64	4960	340	1983	3240	
4421	28.60	0.60	4397.47	154	5	154.20	3.55	4945	355	1983	3241	
4453	30.70	358.80	4425.28	170	5	170.02	7.13	4930	370	1982	3241	
4484	33.00	357.50	4451.61	186	5	186.36	7.74	4913	387	1981	3242	
4516	34.90	357.60	4478.16	204	4	204.19	5.94	4895	405	1980	3243	
4548	36.70	357.20	4504.11	223	3	222.87	5.67	4877	423	1979	3244	
4580	39.20	357.40	4529.34	243	2	242.50	7.82	4857	443	1978	3246	
4612	42.40	358.10	4553.56	263	1	263.37	10.10	4836	464	1976	3247	
4643	45.70	358.40	4575.84	285	1	284.89	10.67	4815	485	1975	3248	
4675	48.20	358.60	4597.68	308	0	308.25	7.83	4791	509	1974	3249	
4707	49.50	359.10	4618.74	332	0	332.32	4.23	4767	533	1973	3250	
Top of Tangent @ 4727'	4739	49.50	359.00	4639.52	357	-1	356.64	0.24	4743	557	1972	3251
	4771	49.30	358.30	4660.35	381	-1	380.91	1.77	4719	581	1971	3252
	4803	48.50	358.00	4681.38	405	-2	404.99	2.60	4695	605	1970	3254
	4835	48.50	358.40	4702.59	429	-3	428.93	0.94	4671	629	1969	3255
	4867	48.60	358.40	4723.77	453	-4	452.88	0.31	4647	653	1968	3256
Btm of Tangent @ 4914'	4899	48.70	358.40	4744.91	477	-4	476.88	0.31	4623	677	1966	3258
	4931	50.10	358.80	4765.74	501	-5	501.15	4.48	4599	702	1965	3259
	4960	53.00	359.50	4783.77	524	-5	523.84	10.18	4576	724	1964	3260
	4994	56.10	359.30	4803.48	552	-6	551.52	9.13	4548	752	1964	3260
	5026	59.30	359.00	4820.58	579	-6	578.55	10.03	4521	779	1963	3261
	5058	63.10	359.10	4836.00	607	-6	606.57	11.88	4493	807	1962	3263
	5090	66.80	359.80	4849.54	636	-7	635.54	11.73	4464	836	1961	3264
	5121	68.30	359.90	4861.38	664	-7	664.18	4.85	4435	865	1960	3264
	5153	71.00	0.50	4872.51	694	-7	694.18	8.62	4405	895	1960	3265
	5185	74.10	1.10	4882.10	725	-6	724.70	9.85	4375	925	1959	3265
	5217	78.10	1.50	4889.79	756	-6	755.75	12.56	4344	956	1959	3265
	5249	81.20	2.10	4895.54	787	-5	787.23	9.86	4312	988	1960	3265
	5281	84.40	2.50	4899.55	819	-3	818.97	10.08	4281	1019	1960	3264
	5355	89.50	2.10	4903.48	893	0	892.82	6.91	4207	1093	1962	3263
	5386	89.50	1.70	4903.75	924	1	923.82	1.29	4176	1124	1962	3263
	5449	89.20	1.90	4904.47	987	3	986.81	0.57	4113	1187	1963	3262
	5511	89.50	1.50	4905.17	1049	5	1048.80	0.81	4051	1249	1963	3262
	5574	90.00	1.30	4905.45	1112	6	1111.80	0.85	3988	1312	1964	3262
	5636	90.50	1.30	4905.18	1174	7	1173.80	0.81	3926	1374	1964	3262
	5698	90.50	1.10	4904.63	1236	9	1235.80	0.32	3864	1436	1964	3262
	5760	90.20	1.00	4904.26	1298	10	1297.80	0.51	3802	1498	1964	3262
	5854	90.20	0.90	4903.93	1392	11	1391.80	0.11	3707	1592	1963	3263
	5916	90.00	1.30	4903.82	1454	13	1453.80	0.72	3645	1655	1963	3263
	5977	89.70	1.40	4903.98	1515	14	1514.80	0.52	3584	1716	1963	3263
	6008	89.60	1.30	4904.17	1546	15	1545.80	0.46	3553	1747	1963	3263
	6070	90.20	2.20	4904.28	1608	17	1607.79	1.74	3491	1809	1964	3262
	6132	91.80	2.40	4903.19	1670	19	1669.77	2.60	3429	1871	1965	3261

Legal Depth

4696' top perf.

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
6162	92.20	2.40	4902.15	1700	20	1699.74	1.33	3399	1901	1966	3261
6224	92.70	2.00	4899.50	1762	23	1761.68	1.03	3337	1963	1967	3260
6287	93.00	2.00	4896.36	1824	25	1824.59	0.48	3274	2025	1968	3259
6348	92.40	1.70	4893.49	1885	27	1885.52	1.10	3213	2086	1969	3258
6410	92.50	1.60	4890.84	1947	29	1947.46	0.23	3151	2148	1969	3258
6472	92.20	1.40	4888.30	2009	30	2009.41	0.58	3089	2210	1969	3258
6534	91.50	0.60	4886.30	2071	32	2071.38	1.71	3027	2272	1969	3258
6597	91.00	0.90	4884.92	2134	32	2134.36	0.93	2964	2335	1969	3259
6689	91.30	0.20	4883.08	2226	33	2226.33	0.83	2872	2427	1968	3260
6782	90.40	0.50	4881.70	2319	34	2319.31	1.02	2779	2520	1966	3262
6878	90.90	359.50	4880.61	2415	34	2415.28	1.16	2683	2616	1964	3264
6942	89.90	359.50	4880.16	2479	33	2479.25	1.56	2619	2680	1962	3266
6974	89.90	359.50	4880.22	2511	33	2511.24	0.00	2588	2712	1961	3267
7038	89.60	0.20	4880.50	2575	33	2575.22	1.19	2524	2776	1960	3268
7101	89.60	0.80	4880.94	2638	33	2638.21	0.95	2460	2839	1959	3269
7165	89.80	1.40	4881.27	2702	35	2702.21	0.99	2396	2903	1959	3270
7229	89.90	2.20	4881.44	2766	37	2766.21	1.26	2332	2967	1960	3269
7292	90.20	2.50	4881.38	2829	39	2829.20	0.67	2269	3030	1961	3268
7356	90.20	2.80	4881.16	2893	42	2893.17	0.47	2205	3094	1963	3266
7420	89.30	2.10	4881.44	2957	45	2957.16	1.78	2141	3158	1964	3265
7484	89.50	2.70	4882.11	3021	48	3021.14	0.99	2077	3222	1965	3264
7548	89.90	3.00	4882.44	3085	51	3085.11	0.78	2013	3287	1967	3262
7612	90.00	2.60	4882.50	3149	54	3149.09	0.64	1949	3351	1969	3261
7675	89.60	1.00	4882.72	3212	56	3212.08	2.62	1886	3414	1970	3260
7739	89.60	1.20	4883.17	3276	57	3276.08	0.31	1822	3478	1970	3260
7802	89.60	0.30	4883.61	3339	58	3339.07	1.43	1759	3541	1969	3261
7866	89.00	1.10	4884.39	3403	59	3403.07	1.56	1695	3605	1969	3262
7929	89.00	0.40	4885.49	3466	59	3466.05	1.11	1632	3668	1968	3262
7993	89.10	1.40	4886.55	3530	60	3530.04	1.57	1568	3732	1968	3263
8057	89.80	1.10	4887.16	3594	62	3594.04	1.19	1504	3796	1968	3263
8121	90.90	0.40	4886.77	3658	63	3658.04	2.04	1440	3860	1967	3263
8184	91.30	1.20	4885.56	3721	64	3721.02	1.42	1377	3923	1967	3264
8216	91.50	1.40	4884.78	3752	64	3753.01	0.88	1345	3955	1967	3264
8280	91.40	1.70	4883.16	3816	66	3816.99	0.49	1281	4019	1968	3264
8344	90.10	1.70	4882.32	3880	68	3880.98	2.03	1217	4083	1968	3263
8408	89.60	1.40	4882.49	3944	70	3944.98	0.91	1153	4147	1968	3263
8471	89.50	1.80	4882.99	4007	71	4007.98	0.65	1090	4210	1969	3263
8535	89.20	1.20	4883.71	4071	73	4071.97	1.05	1026	4274	1969	3262
8599	88.90	0.90	4884.77	4135	74	4135.96	0.66	962	4338	1969	3263
8663	89.50	1.60	4885.67	4199	76	4199.95	1.44	898	4402	1969	3263
8726	90.00	0.80	4885.94	4262	77	4262.95	1.50	835	4465	1969	3263
8790	89.90	1.10	4886.00	4326	78	4326.95	0.49	771	4529	1969	3263
8853	89.70	1.90	4886.22	4389	80	4389.95	1.31	708	4592	1969	3263
8917	89.80	0.60	4886.50	4453	81	4453.95	2.04	644	4656	1969	3263
8981	89.10	359.90	4887.11	4517	81	4517.94	1.55	580	4720	1968	3264
9045	90.90	1.00	4887.11	4581	82	4581.93	3.30	516	4784	1967	3265
9077	91.70	0.70	4886.39	4613	82	4613.92	2.67	484	4816	1967	3266
9173	92.80	359.80	4882.62	4709	83	4709.83	1.48	388	4912	1966	3267
9230	92.80	359.80	4879.83	4766	83	4766.74	0.00	331	4969	1964	3269



Spud: 9/16/2012

Current

Field: Stewart South
 County: Finney
 State: KS
 Well: **Sonderger 2331 1-13H**
 SH Location: SEC 13, TWP 23S, RNG 31W
 Elevations: 2899' KB; 2879' GL

Wellbore Schematic

Original Completion ()	X
Current	X
Workover	
Proposed	

15-065-22177
 API No.

Well Bore Data MD TVD



41 lbs 9.58" 36# J55 558 @ 1.788' 1.788'
 36# J55 Cpg OD = 10.625" ID = 8.921" Drill = 8.765" Collapse = 2020 Internal Yield = 3520
 Cmt'd w/ 425 ass Extensocom @ 12.4 ppg (Yield = 2.12), followed by 150 ass
 Swiftcom @ 15.6 ppg (Yield = 1.2)

Isa Detail LENGTH TOP

Tangent from 4727 to 4914'
 Top of Liner 49.4' Inclination
 Baker ZFPN w/ RH profile (4.276" ID) & 6.304" x 5-1/4" x 10' L. liaback extension
 TOG 7" Ext. @ 2631' calculated
 8-3/4" Hole MW: 8.4-9.1 ppg
 CIBP at 5015'
 TOG 7" Ext. @ 2631' calculated
 8-3/4" Hole MW: 8.4-9.1 ppg
 CIBP at 5015'
 6-1/8" Hole MW: 8.4-9.6 ppg
 TD: 9230' MD / 4880' TVD
 Tangent @ -55°
 4.915' 4.755'
 124 lbs 7" 26# P-110 258 @ 5.333' 4.902'
 28# P-110 Cpg OD = 7.655" ID = 6.276" Drill = 6.151" Collapse = 6210 Internal Yield = 9580
 Cmt w/ 290 ass Econocom mixed at 13.6 ppg (Yield = 1.54), followed by 100 ass Halcom @ 15.6 (Yield = 1.19), FR
 Sw @ 68'
 PRD @ 9.142' 4.884'
 101 lbs 4-1/2" 11.6# N-80 550 @ 9.230' 4.880'
 11.6# N-80 Cpg OD = 5.000" ID = 4.000" Drill = 3.875" Collapse = 6350 Internal Yield = 7780
 Cmt w/ 500 ass Econocom mixed at 13.6 ppg (Yield = 1.54); BP @ 1800# FR, FH

Chad Hunt - Senior Completions Engineer

9/14/2014



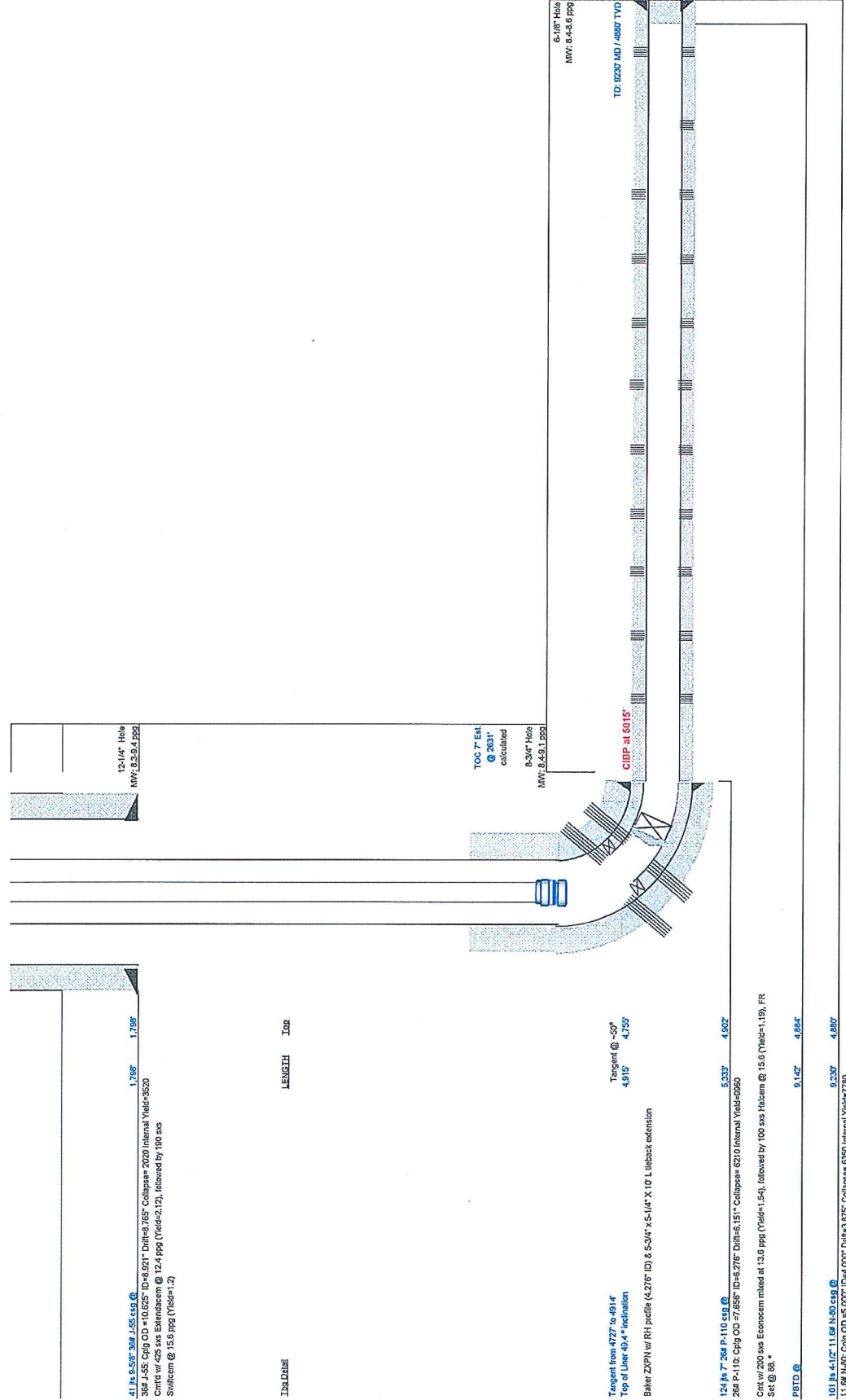
Wellbore Schematic

Field: Stewart South
County: Finney
State: KS
Well: Sonderegger 2331 1-13H
SH Location: SEC 13, TWP 23S, RNG 31W
Elevations: 2899 KB; 2879 GL

Original Completion ()	X
Current	X
Workover	
Proposed	

15-055-22177
APT No.

Well Bore Data



Conservation Division
266 N. Main St., Ste. 220
Wichita, KS 67202-1513



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

Shari Feist Albrecht, Chair
Jay Scott Emler, Commissioner
Pat Apple, Commissioner

Sam Brownback, Governor

April 7, 2015

Tiffany Golay
SandRidge Exploration & Production LLC
123 Robert S. Kerr Ave
Oklahoma City, OK 73102-6406

RE: Approved Commingling CO031515
Sonderegger 2331 1-13H
API No. 15-055-22177-01-00

Dear Ms. Golay:

Your Application for Commingling (ACO-4) for the above described well has been reviewed and approved by the Kansas Corporation Commission (KCC) per K.A.R. 82-3-123. Notice was examined and found to be proper per K.A.R. 82-3-135a. No protest had been filed within the 15-day protest period.

Based upon the depth of the Cherokee formation perforations, total oil production shall not exceed 200 BOPD and total gas production shall not exceed 50% of the absolute open flow (AOF).

File Form ACO-1 upon completion of the well to commingle.

Sincerely,

Rick Hestermann
Production Department