



KANSAS CORPORATION COMMISSION 1090742
OIL & GAS CONSERVATION DIVISION

Form ACO-1
June 2009

CONFIDENTIAL

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

Form Must Be Typed
Form must be Signed
All blanks must be Filled

OPERATOR: License # **34192**
Name: **SandRidge Exploration and Production LLC**
Address 1: **123 ROBERT S. KERR AVE**
Address 2:
City: **OKLAHOMA CITY** State: **OK** Zip: **73102 + 6406**
Contact Person: **Tiffany Golay**
Phone: (**405**) **429-6543**
CONTRACTOR: License # **33596**
Name: **Unit Petroleum Company**
Wellsite Geologist: **Tammy Alcorn**
Purchaser: **Plains Marketing, LP (oil) Atlas (gas)**

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
 Conv. to GSW
 Plug Back: Plug Back Total Depth
 Commingled Permit #:
 Dual Completion Permit #:
 SWD Permit #:
 ENHR Permit #:
 GSW Permit #:

7/10/2012	8/13/2012	8/17/2012
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - **15-077-21859-01-00**
Spot Description:
N2_N2_NW_NE Sec. **7** Twp. **35** S. R. **7** East West
300 Feet from North / South Line of Section
1980 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: **Harper**
Lease Name: **Vornauf** Well #: **2-18H**
Field Name:
Producing Formation: **Mississippian**
Elevation: Ground: **1323** Kelly Bushing: **1345**
Total Depth: **9999** Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: **832** 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: **17000** ppm Fluid volume: **9999** bbls
Dewatering method used: **Haul Off Pit**
Location of fluid disposal if hauled offsite:
Operator Name: **Blackrock Services**
Lease Name: **Soil Farmed** License #: **9999**
Quarter **SW** Sec. **20** Twp. **29** S. R. **8** East West
County: **Grant, OK** Permit #: **99999**

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

Letter of Confidentiality Received
Date: **11/07/2012**
 Confidential Release Date:
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
ALT I II III Approved by: **NAOMI JAMES** Date: **11/07/2012**



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

Survey VORNAUF 2-18H

Step #1 - Create a Deviation Survey

Step

#2 - Attach the survey "Description" to the Wellbore - Deviation Survey

Wellbores - Step #2

Actual Deviation Survey Vornauf 2-18H, Proposed? No	Wellbore Name Original Hole
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Deviation Surveys - Step #1

Description Vornauf 2-18H	Date 7/12/2012	VS Dir (°)	Comment
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Tie-In Data

Azimuth North Type	Convergence (°)	Declination (°)	MD Tie In (ftKB)	Azimuth Tie in (°)	Inclination Tie In (°)	TVD Tie In (ftKB)	NSTie In (ft)	EWTie In (ft)
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Survey Data

MD (ftKB)	Incl (°)	Azim (°)	Survey Company	Method	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
1,064	0.7	222.03	Baker Hughes INTEQ	MWD	1,064	5	-4.90	-4.41	0.07
1,526	0.3	162.99	Baker Hughes INTEQ	MWD	1,526	8	-8.33	-5.93	0.13
1,994	0.3	181.56	Baker Hughes INTEQ	MWD	1,994	11	-10.97	-5.56	0.02
2,469	0.3	191.00	Baker Hughes INTEQ	MWD	2,469	13	-13.47	-5.82	0.01
2,944	0.6	102.26	Baker Hughes INTEQ	MWD	2,944	15	-15.19	-3.58	0.14
3,418	0.6	30.33	Baker Hughes INTEQ	MWD	3,418	14	-13.62	0.12	0.15
3,914	0.5	339.26	Baker Hughes INTEQ	MWD	3,914	9	-9.39	0.64	0.10
3,964	0.8	265.02	Baker Hughes INTEQ	MWD	3,964	9	-9.22	0.23	1.59
3,996	3.3	209.87	Baker Hughes INTEQ	MWD	3,996	10	-10.03	-0.44	9.09
4,028	6.5	196.17	Baker Hughes INTEQ	MWD	4,028	13	-12.56	-1.40	10.54
4,059	8.9	196.90	Baker Hughes INTEQ	MWD	4,058	16	-16.53	-2.59	7.88
4,091	11.6	196.33	Baker Hughes INTEQ	MWD	4,090	22	-22.00	-4.21	8.54
4,123	13.6	193.20	Baker Hughes INTEQ	MWD	4,121	29	-28.75	-5.98	6.34
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	18.9	186.33	Baker Hughes INTEQ	MWD	4,212	54	-54.57	-10.41	7.36
4,249	21.6	185.00	Baker Hughes INTEQ	MWD	4,242	65	-65.25	-11.46	8.61
4,281	23.9	182.32	Baker Hughes INTEQ	MWD	4,271	77	-77.58	-12.24	7.85
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
4,408	32.0	180.70	Baker Hughes INTEQ	MWD	4,383	137	-137.22	-13.77	6.09
4,439	33.7	178.84	Baker Hughes INTEQ	MWD	4,409	154	-154.02	-13.69	6.32
4,471	35.4	178.37	Baker Hughes INTEQ	MWD	4,435	172	-172.14	-13.25	5.41
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	-12.15	4.52
4,534	37.2	178.25	Baker Hughes INTEQ	MWD	4,486	210	-210.12	-12.15	4.52
4,566	40.1	178.99	Baker Hughes INTEQ	MWD	4,511	230	-230.10	-11.67	9.24
4,598	42.4	179.46	Baker Hughes INTEQ	MWD	4,535	251	-251.20	-11.39	7.22
4,629	43.7	179.11	Baker Hughes INTEQ	MWD	4,557	272	-272.36	-11.12	4.30
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	8.73
4,738	50.7	177.87	Baker Hughes INTEQ	MWD	4,631	352	-352.42	-9.29	5.41
4,788	50.7	177.48	Baker Hughes INTEQ	MWD	4,663	391	-391.07	-7.72	0.61
4,833	50.2	176.49	Baker Hughes INTEQ	MWD	4,692	426	-425.73	-5.90	2.00
4,874	49.9	175.92	Baker Hughes INTEQ	MWD	4,718	457	-457.09	-3.82	1.38
4,915	49.9	175.45	Baker Hughes INTEQ	MWD	4,744	488	-488.37	-1.46	0.89
4,946	52.8	176.65	Baker Hughes INTEQ	MWD	4,764	512	-512.53	0.20	9.80
4,946	52.8	176.65	Baker Hughes INTEQ	MWD	4,764	512	-512.53	0.20	9.80
4,976	55.3	178.69	Baker Hughes INTEQ	MWD	4,781	537	-536.80	1.19	9.93
5,010	58.2	179.29	Baker Hughes INTEQ	MWD	4,800	565	-565.22	1.68	8.60
5,042	61.7	178.64	Baker Hughes INTEQ	MWD	4,816	593	-592.92	2.19	11.23
5,073	65.1	178.72	Baker Hughes INTEQ	MWD	4,830	621	-620.63	2.83	10.87
5,105	68.7	179.36	Baker Hughes INTEQ	MWD	4,842	650	-650.05	3.32	11.21
5,137	72.0	180.12	Baker Hughes INTEQ	MWD	4,853	680	-680.18	3.45	10.77



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

Survey VORNAUF 2-18H

Step #1 - Create a Deviation Survey

Step

#2 - Attach the survey "Description" to the Wellbore - Deviation Survey

Survey Data

MD (ftKB)	Incl (°)	Azm (°)	Survey Company	Method	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (*/100ft)
5,169	74.6	180.23	Baker Hughes INTEQ	MWD	4,862	711	-710.83	3.36	8.13
5,200	77.2	180.38	Baker Hughes INTEQ	MWD	4,870	741	-740.89	3.20	8.24
5,232	79.8	180.32	Baker Hughes INTEQ	MWD	4,876	772	-772.24	3.01	8.16
5,264	82.2	180.48	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	89.8	178.26	Baker Hughes INTEQ	MWD	4,900	1,632	-1,632.21	-4.28	1.36
6,188	89.9	179.44	Baker Hughes INTEQ	MWD	4,900	1,727	-1,727.19	-2.37	1.28
6,283	90.3	180.22	Baker Hughes INTEQ	MWD	4,900	1,822	-1,822.19	-2.09	0.91
6,378	90.1	180.36	Baker Hughes INTEQ	MWD	4,900	1,917	-1,917.19	-2.57	0.25
6,473	89.6	180.77	Baker Hughes INTEQ	MWD	4,900	2,012	-2,012.18	-3.51	0.66
6,568	89.2	179.81	Baker Hughes INTEQ	MWD	4,901	2,107	-2,107.17	-3.99	1.09
6,663	89.4	179.61	Baker Hughes INTEQ	MWD	4,902	2,202	-2,202.16	-3.51	0.31
6,758	88.4	179.81	Baker Hughes INTEQ	MWD	4,904	2,297	-2,297.14	-3.03	1.08
6,853	89.3	179.53	Baker Hughes INTEQ	MWD	4,906	2,392	-2,392.12	-2.48	1.01
6,949	90.5	179.11	Baker Hughes INTEQ	MWD	4,906	2,488	-2,488.11	-1.34	1.32
7,044	89.9	179.43	Baker Hughes INTEQ	MWD	4,906	2,583	-2,583.11	-0.13	0.70
7,139	89.3	179.06	Baker Hughes INTEQ	MWD	4,907	2,678	-2,678.09	1.12	0.81
7,193	90.2	179.11	Baker Hughes INTEQ	MWD	4,907	2,732	-2,732.09	1.98	1.78
7,257	91.5	179.36	Baker Hughes INTEQ	MWD	4,906	2,796	-2,796.07	2.84	2.05
7,352	91.8	179.24	Baker Hughes INTEQ	MWD	4,903	2,891	-2,891.03	4.00	0.29
7,447	92.3	178.66	Baker Hughes INTEQ	MWD	4,900	2,986	-2,985.95	5.74	0.82
7,542	91.7	179.04	Baker Hughes INTEQ	MWD	4,896	3,081	-3,080.87	7.64	0.74
7,637	91.9	179.20	Baker Hughes INTEQ	MWD	4,893	3,176	-3,175.81	9.10	0.31
7,732	89.8	178.81	Baker Hughes INTEQ	MWD	4,892	3,271	-3,270.78	10.75	2.34
7,828	89.2	179.41	Baker Hughes INTEQ	MWD	4,893	3,367	-3,366.77	12.24	0.88
7,923	89.2	179.52	Baker Hughes INTEQ	MWD	4,894	3,462	-3,461.75	13.13	0.12
8,018	91.5	180.78	Baker Hughes INTEQ	MWD	4,894	3,557	-3,556.74	12.88	2.81
8,113	91.1	180.82	Baker Hughes INTEQ	MWD	4,892	3,652	-3,651.71	11.56	0.49
8,208	91.1	180.82	Baker Hughes INTEQ	MWD	4,890	3,746	-3,746.68	10.20	0.00
8,303	90.3	179.85	Baker Hughes INTEQ	MWD	4,889	3,841	-3,841.67	9.64	1.30
8,398	90.7	181.25	Baker Hughes INTEQ	MWD	4,888	3,936	-3,936.66	8.73	1.51
8,493	90.9	180.55	Baker Hughes INTEQ	MWD	4,886	4,031	-4,031.64	7.24	0.79
8,588	88.6	180.07	Baker Hughes INTEQ	MWD	4,887	4,126	-4,126.63	6.72	2.46
8,683	88.4	178.53	Baker Hughes INTEQ	MWD	4,889	4,221	-4,221.59	7.88	1.63
8,778	90.4	177.05	Baker Hughes INTEQ	MWD	4,890	4,316	-4,316.51	11.55	2.58
8,873	90.6	180.43	Baker Hughes INTEQ	MWD	4,889	4,411	-4,411.47	13.63	3.56
8,968	90.9	179.58	Baker Hughes INTEQ	MWD	4,888	4,506	-4,506.46	13.63	0.96
9,063	87.6	179.30	Baker Hughes INTEQ	MWD	4,889	4,601	-4,601.43	14.55	3.50
9,158	88.3	179.08	Baker Hughes INTEQ	MWD	4,893	4,696	-4,696.36	15.90	0.82
9,253	90.2	179.27	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



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Survey VORNAUF 2-18H

Step #1 - Create a Deviation Survey

Step

#2 - Attach the survey "Description" to the Wellbore - Deviation Survey

Survey Data

MD (RKB)	Incl (°)	Azm (°)	Survey Company	Method	TVD (RKB)	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	176.28	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

Section 1
35S 8W

Section 6
35S 7W

Section 5
35S 7W

VORNAUF 2-18H



Miss Entry: 4808'
-98.116808 37.019886

Top Perf: 5626'
-98.116807 37.017877

Section 7
35S 7W

Section 8
35S 7W

Section 12
35S 8W

Bottom Perf: 10074'
-98.116651 37.005552

Section 13
35S 8W

Section 18
35S 7W

2252' FNL

Section 17
35S 7W

BHL: 11772'
-98.11659 37.001202

1982' FEL



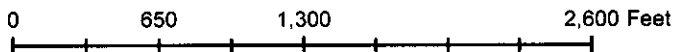
Actual Bottom-Hole Location of Vornauf 2-18H
Harper County, Kansas

T&R: 35S 7W

Section: 18, 1982' FEL & 2252' FNL

Long/Lat: -98.11659 37.001202

1 in = 864 ft



● Actual BH Location

* SandRidge Wells

--- Perf

□ Sections

Draftsman:

Aaron Birk

Draft Date: 10/26/2011

Drawing Name/Number:

Addendum_Vornauf_2-18H .mxd

Coordinate System:

NAD 1927 State Plane
Kansas South FIPS: 1502