



KANSAS CORPORATION COMMISSION 1093193  
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: Kathy Gentry  
Purchaser: DCP Midstream, LP (gas) NCRA (oil)

API No. 15 - 15-033-21659-01-00  
Spot Description:  
S2 SW SW Sec. 28 Twp. 31 S. R. 19  East  West  
330 Feet from  North /  South Line of Section  
660 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW  
County: Comanche  
Lease Name: Harlow 3119 Well #: 1-28H  
Field Name:  
Producing Formation: Mississippian  
Elevation: Ground: 2131 Kelly Bushing: 2151  
Total Depth: 9406 Plug Back Total Depth:  
Amount of Surface Pipe Set and Cemented at: 1098 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.

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 #:

8/19/2012	9/7/2012	9/10/2012
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

**Drilling Fluid Management Plan**  
(Data must be collected from the Reserve Pit)  
Chloride content: 26000 ppm Fluid volume: 3080 bbls  
Dewatering method used: Hauled to Disposal  
Location of fluid disposal if hauled offsite:  
Operator Name: LoJo Disposal  
Lease Name: Pit #1 License #: 99999  
Quarter SW Sec. 10 Twp. 26 S. R. 15  East  West  
County: Woods, OK Permit #: 563714

**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: 12/12/2012  
 Confidential Release Date:  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution  
ALT  I  II  III Approved by: NAOMI JAMES Date: 12/14/2012

Section 20  
31S 19W

Section 21  
31S 19W

635' FWL      272' FNL

BHL: 9406'  
-99.398342 37.322633

Section 29  
31S 19W

Bottom Perf: 7429'  
-99.398322 37.3172

Section 28  
31S 19W

Top Perf: 5540'  
-99.398397 37.31206

Miss Entry: 5206'  
-99.398416 37.311311

GREG 3119 1-33H  
\* \* HARLOW 3119 1-28H

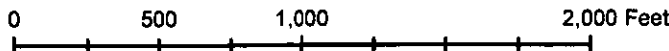
Section 32  
31S 19W

Section 33  
31S 19W



Actual Bottom-Hole Location of Harlow 31191-28H  
Comanche County, Kansas  
T&R: 31S 19W  
Section: 28, 635' FWL & 272' FNL  
Long/Lat: -99.398342 37.322633

1 in = 667 ft



● Actual BH Location

\* SandRidge Wells

--- Perf

□ Sections

Draftsman:

Aaron Birk

Draft Date: 11/20/2012

Drawing Name/Number:

Addendum\_Harlow\_1-28H.mxd

Coordinate System:

NAD 1927 State Plane  
Kansas South FIPS: 1502



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

**Survey**  
**HARLOW 3119 1-28H**

**Step #1 - Create a Deviation Survey**

**Step**

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

**Wellbores - Step #2**

Actual Deviation Survey Wellbore Name  
Survey, Proposed? No Original Hole

**Deviation Surveys - Step #1**

Description Date  
Survey 8/26/2012 VS Drr (') 0.83 Comment

**Tie-in Data**

Azimuth North Type	Convergence (')	Declination (')	MD Tie In (ftKB)	Azimuth Tie In (')	Inclination Tie In (')	TVD Tie In (ftKB)	NS Tie In (ft)	EW Tie In (ft)
Grid			0.00	0.00	0.00	0.00	0.00	0.00

**Survey Data**

MD (ftKB)	Incl (')	Azm (')	Survey Company	Method	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	CLS (*/100ft)
250	0.3								
500	0.5								
750	0.8								
1,000	0.6								
1,159	0.4	77.40	DrillRight	MWD	1,159	1	0.88	3.95	0.03
1,622	0.6	79.50	DrillRight	MWD	1,622	2	1.68	7.91	0.04
2,098	1.0	77.70	DrillRight	MWD	2,098	3	3.02	14.42	0.08
2,573	1.1	77.30	DrillRight	MWD	2,573	5	4.90	22.92	0.02
3,047	0.7	89.50	DrillRight	MWD	3,047	6	5.93	30.25	0.09
3,522	0.8	105.70	DrillRight	MWD	3,522	6	5.05	36.34	0.05
4,000	1.4	94.70	DrillRight	MWD	4,000	4	3.67	45.38	0.13
4,286	0.9	86.80	DrillRight	MWD	4,286	4	3.51	51.10	0.18
4,349	1.9	7.90	DrillRight	MWD	4,349	5	4.57	51.74	3.08
4,378	3.8	357.80	DrillRight	MWD	4,378	7	6.01	51.77	6.75
4,412	6.2	355.40	DrillRight	MWD	4,411	10	8.97	51.58	7.08
4,444	8.0	352.90	DrillRight	MWD	4,443	14	12.90	51.16	5.71
4,476	9.5	348.90	DrillRight	MWD	4,475	18	17.70	50.38	5.06
4,507	11.5	349.90	DrillRight	MWD	4,505	24	23.25	49.34	6.48
4,539	14.1	349.90	DrillRight	MWD	4,536	31	30.23	48.10	8.13
4,571	16.8	349.10	DrillRight	MWD	4,567	39	38.61	46.54	8.46
4,602	19.3	347.60	DrillRight	MWD	4,597	49	48.02	44.60	8.20
4,634	22.0	346.50	DrillRight	MWD	4,627	60	59.01	42.06	8.52
4,666	24.5	345.90	DrillRight	MWD	4,656	72	71.28	39.04	7.85
4,698	26.7	345.80	DrillRight	MWD	4,685	85	84.68	35.66	6.88
4,730	28.1	345.40	DrillRight	MWD	4,713	99	98.95	32.00	4.41
4,761	30.0	346.40	DrillRight	MWD	4,740	114	113.55	28.34	6.33
4,793	32.1	347.80	DrillRight	MWD	4,768	130	129.63	24.66	6.94
4,824	33.3	349.10	DrillRight	MWD	4,794	146	146.04	21.31	4.49
4,856	34.3	349.80	DrillRight	MWD	4,821	164	163.54	18.05	3.35
4,888	35.9	349.70	DrillRight	MWD	4,847	182	181.65	14.78	5.00
4,920	38.2	349.80	DrillRight	MWD	4,872	201	200.62	11.35	7.19
4,952	40.6	351.50	DrillRight	MWD	4,897	221	220.66	8.05	8.22
4,983	42.8	353.90	DrillRight	MWD	4,920	241	241.11	5.44	8.77
5,015	44.8	356.70	DrillRight	MWD	4,943	263	263.18	3.64	8.70
5,047	47.0	358.50	DrillRight	MWD	4,966	286	286.14	2.68	7.97
5,078	49.5	358.30	DrillRight	MWD	4,986	309	309.25	2.04	8.08
5,142	53.1	360.00	DrillRight	MWD	5,026	359	359.19	1.32	5.99
5,237	52.7	359.40	DrillRight	MWD	5,083	435	434.95	0.92	0.66
5,268	52.4	359.10	DrillRight	MWD	5,102	460	459.56	0.60	1.24
5,300	52.3	358.80	DrillRight	MWD	5,122	485	484.89	0.13	0.81
5,328	53.8	0.50	DrillRight	MWD	5,139	507	507.27	0.00	7.23
5,363	56.3	2.40	DrillRight	MWD	5,159	536	536.94	0.73	8.41
5,395	59.0	3.20	DrillRight	MWD	5,176	563	562.94	2.06	8.70
5,426	61.7	3.40	DrillRight	MWD	5,191	590	589.83	3.61	8.73
5,457	65.4	3.40	DrillRight	MWD	5,205	618	617.54	5.25	11.94



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**Survey**  
**HARLOW 3119 1-28H**

**Step #1 - Create a Deviation Survey**

**Step**

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

Survey Data										
MD (ft)	Incl (°)	Azn (°)	Survey Company	Method	TVD (ft)	VS (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	
5,490	68.7	3.00	DrillRight	MWD	5,218	648	647.87	6.95	10.06	
5,522	71.6	2.00	DrillRight	MWD	5,229	678	677.94	8.26	9.53	
5,553	74.2	0.90	DrillRight	MWD	5,238	708	707.56	9.01	9.05	
5,585	77.7	359.60	DrillRight	MWD	5,246	739	738.59	9.14	11.63	
5,617	81.1	359.70	DrillRight	MWD	5,252	770	770.04	8.95	10.63	
5,649	83.7	0.20	DrillRight	MWD	5,256	802	801.76	8.92	8.27	
5,675	86.2	0.90	DrillRight	MWD	5,258	828	827.65	9.17	9.98	
5,779	91.6	2.20	DrillRight	MWD	5,260	932	931.55	11.98	5.34	
5,810	91.7	2.30	DrillRight	MWD	5,259	963	962.52	13.20	0.46	
5,841	90.6	2.00	DrillRight	MWD	5,259	994	993.49	14.36	3.68	
5,873	90.3	1.30	DrillRight	MWD	5,258	1,026	1,025.48	15.28	2.36	
5,904	90.4	1.30	DrillRight	MWD	5,258	1,057	1,056.47	15.99	0.32	
5,936	89.3	1.80	DrillRight	MWD	5,258	1,089	1,088.45	16.85	3.78	
6,000	88.9	1.60	DrillRight	MWD	5,259	1,153	1,152.42	18.75	0.70	
6,094	88.3	1.00	DrillRight	MWD	5,261	1,247	1,246.36	20.88	0.90	
6,190	89.0	0.90	DrillRight	MWD	5,264	1,343	1,342.32	22.47	0.74	
6,286	89.8	1.80	DrillRight	MWD	5,265	1,438	1,438.29	24.73	1.25	
6,381	91.2	1.30	DrillRight	MWD	5,264	1,533	1,533.25	27.30	1.56	
6,477	90.3	1.20	DrillRight	MWD	5,263	1,629	1,629.22	29.40	0.94	
6,572	91.0	1.20	DrillRight	MWD	5,262	1,724	1,724.19	31.39	0.74	
6,666	90.5	1.00	DrillRight	MWD	5,260	1,818	1,818.16	33.19	0.57	
6,761	89.4	0.50	DrillRight	MWD	5,260	1,913	1,913.15	34.44	1.27	
6,857	90.4	1.60	DrillRight	MWD	5,261	2,009	2,009.14	36.19	1.55	
6,952	91.0	1.40	DrillRight	MWD	5,259	2,104	2,104.10	38.68	0.67	
7,046	90.2	1.60	DrillRight	MWD	5,258	2,198	2,198.06	41.14	0.88	
7,141	89.7	1.00	DrillRight	MWD	5,259	2,293	2,293.03	43.30	0.82	
7,237	90.0	1.10	DrillRight	MWD	5,259	2,389	2,389.02	45.06	0.33	
7,332	90.1	1.20	DrillRight	MWD	5,259	2,484	2,484.00	46.96	0.15	
7,427	90.8	1.10	DrillRight	MWD	5,258	2,579	2,578.97	48.87	0.74	
7,522	91.5	1.00	DrillRight	MWD	5,256	2,674	2,673.94	50.61	0.74	
7,617	91.1	0.30	DrillRight	MWD	5,254	2,769	2,768.91	51.69	0.85	
7,712	91.3	359.80	DrillRight	MWD	5,252	2,864	2,863.89	51.77	0.57	
7,807	92.0	359.70	DrillRight	MWD	5,249	2,959	2,958.84	51.36	0.74	
7,901	89.4	358.90	DrillRight	MWD	5,248	3,053	3,052.82	50.21	2.89	
7,996	88.7	358.80	DrillRight	MWD	5,250	3,148	3,147.79	48.30	0.74	
8,091	88.6	358.80	DrillRight	MWD	5,252	3,243	3,242.74	46.31	0.11	
8,186	89.8	359.40	DrillRight	MWD	5,253	3,338	3,337.72	44.82	1.41	
8,281	90.6	359.00	DrillRight	MWD	5,253	3,433	3,432.71	43.49	0.94	
8,376	91.6	359.00	DrillRight	MWD	5,251	3,528	3,527.67	41.84	1.05	
8,471	92.1	358.80	DrillRight	MWD	5,248	3,623	3,622.61	40.01	0.57	
8,567	91.9	358.60	DrillRight	MWD	5,245	3,719	3,718.52	37.84	0.29	
8,661	91.4	359.80	DrillRight	MWD	5,242	3,813	3,812.47	36.52	1.38	
8,756	90.4	1.30	DrillRight	MWD	5,240	3,908	3,907.45	37.44	1.90	
8,852	89.9	2.50	DrillRight	MWD	5,240	4,004	4,003.40	40.62	1.35	
8,947	89.6	2.30	DrillRight	MWD	5,241	4,099	4,098.31	44.60	0.38	
9,042	89.9	2.10	DrillRight	MWD	5,241	4,194	4,193.24	48.24	0.38	
9,138	90.0	1.60	DrillRight	MWD	5,241	4,289	4,289.19	51.34	0.53	
9,233	90.1	2.00	DrillRight	MWD	5,241	4,384	4,384.15	54.33	0.43	
9,329	90.2	2.30	DrillRight	MWD	5,241	4,480	4,480.08	57.93	0.33	
9,358	91.2	3.30	DrillRight	MWD	5,240	4,509	4,509.04	59.35	4.88	
9,406	91.2	3.30	DrillRight	MWD	5,239	4,557	4,556.95	62.11	0.00	