



UNIVERSITY 52-23 7H

Data Cleanup Schematic

API/UWI 4210541757		Surface Legal Location S 23, BLK 52, ULS		Field Name LIN (WOLFCAMP)		Permit No. 759859		State/Province TX		Well Configuration Type HORIZONTAL															
Ground Elevation (MSL) (ft) 2,574.00		Casing Flange Elevation (ft)		KB - Ground Level (ft) 25.00		KB - Casing Flange (ft)		Original Drig Spud Date 5/11/2013 14:30		Original Drig Rig Release Date 6/4/2013 06:00															
HORIZONTAL - OH, 7/17/2013 6:51:36 AM				Wellbore Sections																					
MD (ftKB)		Vertical schematic (actual)		Wellbore Name		Section Des		Start Date		Act Top (ftKB)		Act Btm (ftKB)		Hole Size (in)											
				OH		SURFACE		5/11/2013		25.0		794.0		12 1/4											
				OH		PRODUCTION		5/26/2013		794.0		14,490.0		8 3/4											
24.0				Casing Strings																					
66.6				Csg Des		OD (in)		Wt/Len (lb/ft)		Grade		Top (ftKB)		Set Depth (ftKB)											
217.8				SURFACE		9 5/8		40.00		J-55		25.0		794.0											
752.3				PRODUCTION 1		5 1/2		20.00		P-110		25.0		14,480.0											
794.0				Cement Fluids																					
1,814.0				Des		Stg #		Fluid		Amount (sacks)		Class		Est Top (ftKB)		Est Btm (ftKB)		Yield (ft³/sack)		Dens (lb/gal)		Top (ftKB)		Top Meas Meth	
2,830.1				CEMENT PLUG		1		LEAD		250		C		25.0		218.0		1.33		14.80		25.0		RETURNS	
2,835.3				SURFACE CASING CEMENT		1		LEAD		340		C		25.0		794.0		1.75		13.50		25.0		RETURNS	
3,405.5				SURFACE CASING CEMENT		1		TAIL		1,930		H		4,459.0		14,091.0		1.28		14.20		25.0		RETURNS	
3,974.7				SURFACE CASING CEMENT		1		DISPLACEMENT		2% KCL				0.0		14,091.0				8.47		25.0		RETURNS	
4,514.8				PRODUCTION CASING CEMENT		1		LEAD		916		H		200.0		4,439.0		2.02		12.50		200.0		VOLUME CALCULATIONS	
5,025.3				PRODUCTION CASING CEMENT		1		TAIL		1,977		H		4,439.0		14,385.0		1.28		14.20		200.0		VOLUME CALCULATIONS	
5,480.0				PRODUCTION CASING CEMENT		1		DISPLACEMENT		2% KCL				0.0		14,385.0				8.47		200.0		VOLUME CALCULATIONS	
5,532.8				Zones																					
6,043.6				Zone Name		Top Depth (ftKB)		Bottom Depth (ftKB)		Current Status		Current Status Date													
6,074.5				WOLFCAMP		6,636.0		14,339.0																	
6,216.9				Stimulations & Treatment Stages																					
6,377.6				Type		Date		Total Clean Volume Pumped (bbl)		Proppant Frm (lb)		Min Top Depth (ftKB)		Max Btm Depth (ftKB)		Zone									
6,408.5				SLICKWATER FRAC		6/19/2013		4719.00		212,070.0		6,636.0		6,803.0		WOLFCAMP, OH									
6,636.2				SLICKWATER FRAC		6/19/2013		4839.00		238,360.0		6,856.0		7,023.0		WOLFCAMP, OH									
6,856.0				SLICKWATER FRAC		6/19/2013		4865.00		232,080.0		7,076.0		7,243.0		WOLFCAMP, OH									
7,076.1				SLICKWATER FRAC		6/18/2013		4934.00		233,600.0		7,296.0		7,463.0		WOLFCAMP, OH									
7,295.9				SLICKWATER FRAC		6/18/2013		4890.00		227,180.0		7,516.0		7,683.0		WOLFCAMP, OH									
7,516.1				SLICKWATER FRAC		6/18/2013		5106.00		226,820.0		7,736.0		7,903.0		WOLFCAMP, OH									
7,735.9				SLICKWATER FRAC		6/18/2013		4864.00		226,640.0		7,956.0		8,123.0		WOLFCAMP, OH									
7,956.0				SLICKWATER FRAC		6/18/2013		4894.00		225,700.0		8,176.0		8,343.0		WOLFCAMP, OH									
8,149.0				SLICKWATER FRAC		6/18/2013		4959.00		227,640.0		8,396.0		8,578.0		WOLFCAMP, OH									
8,175.9				SLICKWATER FRAC		6/18/2013		4941.00		226,720.0		8,636.0		8,818.0		WOLFCAMP, OH									
8,396.0				SLICKWATER FRAC		6/18/2013		4920.00		225,960.0		8,876.0		9,058.0		WOLFCAMP, OH									
8,636.2				SLICKWATER FRAC		6/18/2013		5183.00		228,000.0		9,116.0		9,778.0		WOLFCAMP, OH									
8,876.0				SLICKWATER FRAC		6/17/2013		5221.00		228,260.0		9,356.0		9,778.0		WOLFCAMP, OH									
9,116.1				SLICKWATER FRAC		6/17/2013		5026.00		226,980.0		9,596.0		9,778.0		WOLFCAMP, OH									
9,356.0				SLICKWATER FRAC		6/17/2013		5220.00		226,590.0		9,836.0		10,018.0		WOLFCAMP, OH									
9,596.1																									
9,836.0																									
10,076.1																									
10,315.9																									
10,556.1																									
10,795.9																									
11,036.1																									
11,275.9																									
11,516.1																									
11,755.9																									
11,996.1																									
12,235.9																									
12,476.0																									
12,715.9																									
12,956.0																									
13,195.9																									
13,436.0																									
13,675.9																									
13,916.0																									
14,155.8																									
14,335.3																									
14,384.5																									
14,385.8																									
14,432.4																									
14,480.0																									

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API/UWI 4210541757		Surface Legal Location S 23, BLK 52, ULS		Field Name LIN (WOLFCAMP)		Permit No. 759859		State/Province TX		Well Configuration Type HORIZONTAL									
Ground Elevation (MSL) (ft) 2,574.00		Casing Flange Elevation (ft)		KB - Ground Level (ft) 25.00		KB - Casing Flange (ft)		Original Drig Spud Date 5/11/2013 14:30		Original Drig Rig Release Date 6/4/2013 06:00									
HORIZONTAL - OH, 7/17/2013 6:51:37 AM						Other In Hole													
MD (ftKB)		Vertical schematic (actual)				Des		Run Date		Pull Date		OD (in)		ID (in)		Top (ftKB)		Btm (ftKB)	
						FRAC PLUG - COMPOSITE		6/18/2013				4.37				8,149.0		8,151.0	
24.0						Production Failures													
66.6						Failure Date		Failure Des		Part of item		Fail Typ		Cause		Total Est. Cost (Cost)			
217.8																			
752.3						Jobs													
794.0						Job Cat		Job SubTyp		Job Start		Job End		Total Fld Est (Cost)					
1,814.0						DRILLING/COMPLETIONS				5/10/2013				\$5,226,179					
2,830.1						Production Tests & Emissions													
2,835.3						Date		Q Oil (bbl/day)		Rate Gas (MCF/day)		Q Water (bbl/day)		Tub Pres (psi)		Cas Pres (psi)			
3,405.5						7/13/2013		384.00		1,576.00		847.00		280.0		280.0			
3,974.7						7/14/2013		306.00		1,519.00		787.00		255.0		930.0			
4,514.8						7/15/2013		310.00		1,436.00		715.00		235.0		940.0			
5,025.3								382.00		556.00		637.00		200.0		980.0			
5,480.0						Production Settings													
5,532.8						Method		Method Detail				Start Date		End Date					
6,043.6																			
6,074.5		SLICKWATER FRAC: 6,636.0-6,803.0				Perforations													
6,216.9		SLICKWATER FRAC: 6,856.0-7,023.0				Date		Top (ftKB)		Btm (ftKB)		Shot Dens (shots/ft)		Phasing (")		Zone			
6,377.6		SLICKWATER FRAC: 7,076.0-7,243.0				6/19/2013		6,636.0		6,803.0		6.0		60		WOLFCAMP, OH			
6,408.5		SLICKWATER FRAC: 7,296.0-7,463.0				6/19/2013		6,856.0		7,023.0		6.0		60		WOLFCAMP, OH			
6,636.2		SLICKWATER FRAC: 7,516.0-7,683.0				6/19/2013		7,076.0		7,243.0		6.0		60		WOLFCAMP, OH			
6,856.0		SLICKWATER FRAC: 7,736.0-7,903.0				6/18/2013		7,296.0		7,463.0		6.0		60		WOLFCAMP, OH			
7,076.1		SLICKWATER FRAC: 7,956.0-8,123.0				6/18/2013		7,516.0		7,683.0		6.0		60		WOLFCAMP, OH			
7,295.9		8,149.0; Other in Hole				6/18/2013		7,736.0		7,903.0		6.0		60		WOLFCAMP, OH			
7,516.1		SLICKWATER FRAC: 8,176.0-8,343.0				6/18/2013		7,956.0		8,123.0		6.0		60		WOLFCAMP, OH			
7,735.9		SLICKWATER FRAC: 8,396.0-8,578.0				6/18/2013		8,176.0		8,343.0		6.0		60		WOLFCAMP, OH			
7,956.0		SLICKWATER FRAC: 8,636.0-8,818.0				6/18/2013		8,396.0		8,578.0		6.0		60		WOLFCAMP, OH			
8,149.0		SLICKWATER FRAC: 8,876.0-9,058.0				6/18/2013		8,636.0		8,818.0		6.0		60		WOLFCAMP, OH			
8,175.9		SLICKWATER FRAC: 9,116.0-9,298.0				6/18/2013		8,876.0		9,058.0		6.0		60		WOLFCAMP, OH			
8,396.0		SLICKWATER FRAC: 9,356.0-9,538.0				6/18/2013		9,116.0		9,298.0		6.0		60		WOLFCAMP, OH			
8,636.2		SLICKWATER FRAC: 9,596.0-9,778.0				6/17/2013		9,356.0		9,538.0		6.0		60		WOLFCAMP, OH			
8,876.0		SLICKWATER FRAC: 9,956.0-10,138.0				6/17/2013		9,596.0		9,778.0		6.0		60		WOLFCAMP, OH			
9,116.1		SLICKWATER FRAC: 10,076.0-10,258.0				6/17/2013		9,836.0		10,018.0		6.0		60		WOLFCAMP, OH			
9,356.0		SLICKWATER FRAC: 10,316.0-10,498.0				6/17/2013		10,076.0		10,258.0		6.0		60		WOLFCAMP, OH			
9,596.1		SLICKWATER FRAC: 10,556.0-10,738.0				6/16/2013		10,316.0		10,498.0		6.0		60		WOLFCAMP, OH			
9,836.0		SLICKWATER FRAC: 10,796.0-10,978.0				6/16/2013		10,556.0		10,738.0		6.0		60		WOLFCAMP, OH			
10,076.1		SLICKWATER FRAC: 11,036.0-11,218.0				6/16/2013		10,796.0		10,978.0		6.0		60		WOLFCAMP, OH			
10,315.9		SLICKWATER FRAC: 11,276.0-11,458.0				6/16/2013		11,036.0		11,218.0		6.0		60		WOLFCAMP, OH			
10,556.1		SLICKWATER FRAC: 11,516.0-11,698.0				6/16/2013		11,276.0		11,458.0		6.0		60		WOLFCAMP, OH			
10,795.9		SLICKWATER FRAC: 11,756.0-11,938.0				6/15/2013		11,516.0		11,698.0		6.0		60		WOLFCAMP, OH			
11,036.1		SLICKWATER FRAC: 11,996.0-12,178.0				6/15/2013		11,756.0		11,938.0		6.0		60		WOLFCAMP, OH			
11,275.9		SLICKWATER FRAC: 12,236.0-12,418.0				6/15/2013		11,996.0		12,178.0		6.0		60		WOLFCAMP, OH			
11,516.1		SLICKWATER FRAC: 12,476.0-12,658.0				6/15/2013		12,236.0		12,418.0		6.0		60		WOLFCAMP, OH			
11,755.9		SLICKWATER FRAC: 12,716.0-12,898.0				6/15/2013		12,476.0		12,658.0		6.0		60		WOLFCAMP, OH			
11,996.1		SLICKWATER FRAC: 12,956.0-13,138.0				6/15/2013		12,716.0		12,898.0		6.0		60		WOLFCAMP, OH			
12,235.9		SLICKWATER FRAC: 13,196.0-13,378.0				6/15/2013		12,956.0		13,138.0		6.0		60		WOLFCAMP, OH			
12,476.0		SLICKWATER FRAC: 13,436.0-13,618.0				6/14/2013		13,196.0		13,378.0		6.0		60		WOLFCAMP, OH			
12,715.9		SLICKWATER FRAC: 13,676.0-13,858.0				6/14/2013		13,436.0		13,618.0		6.0		60		WOLFCAMP, OH			
12,956.0		SLICKWATER FRAC: 13,916.0-14,098.0				6/14/2013		13,676.0		13,858.0		6.0		60		WOLFCAMP, OH			
13,195.9		SLICKWATER FRAC: 14,156.0-14,278.0				6/14/2013		13,916.0		14,098.0		6.0		60		WOLFCAMP, OH			
13,436.0						6/7/2013		14,156.0		14,339.0		6.0		60		WOLFCAMP, OH			
13,675.9																			
13,916.0																			
14,155.8																			
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