



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

Wellbore Schematic

VC 1-23H

HORIZONTAL - Sidetrack 1, 3/7/2012 8:44:31 AM		Wellbore Sections										
Vertical schematic (actual)		Section Des		Size (in)		Act Top (ftKB)		Act Blm (ftKB)				
		Production		6 1/8		6,370.0		9,456.0				
		Casing										
		Csg Desc	Jts	Item Des	OD (in)	Wt (lb/ft)	Grade	Top Thread	Len (ft)	Top (ftKB)	Blm (ftKB)	Com
		Conductor		Casing-Joints	20	94.00	J-55	LT&C	90.00	0.0	90.0	
		Surface	20	Casing-Joints	9 5/8	36.00	J-55	LT&C	844.08	-31.0	813.0	
		Surface	1	Casing-Joints	9 5/8	36.00	J-55	LT&C	41.72	814.2	856.0	
		Surface	1	Shoe	9 5/8	36.00	J-55	LT&C	1.05	856.0	857.0	
		Intermediate	102	Casing-Joints	7	29.00	N-80		4,049.62	-3.3	4,046.3	
		Intermediate	32	Casing-Joints	7	29.00	P-110		1,344.38	4,046.3	5,390.7	
		Intermediate	2	Casing-Joints	7	29.00	P-110		84.53	5,391.9	5,476.4	
Intermediate	1	Shoe	7	29.00	P-110		1.60	5,476.4	5,478.0			
Liner	0	Casing-Joints	4 1/2	11.60	P-110	LT&C	0.00	5,041.1	5,041.1			
Liner	111	Casing-Joints	4 1/2	11.60	P-110	LT&C	4,318.48	5,059.1	9,377.6			
Liner	2	Casing-Joints	4 1/2	11.60	P-110	LT&C	75.39	9,379.1	9,454.5			
Liner	1	Guide Shoe	4 1/2	11.60	P-110	LT&C	1.50	9,454.5	9,456.0			
Cement												
Des		Top (ftKB)		Blm (ftKB)		Com						
Conductor Cement		19.5		90.0								
Surface Casing Cement		19.5		857.0								
Intermediate Casing Cement		4,118.0		5,478.0								
Liner Cement		5,041.1		9,456.0								
Tubing												
Des		Item Des		OD (in)	ID (in)	EUE Wt (lb/ft)	Grade	Jts	Top (ftKB)	Blm (ftKB)	Com	
Rod Components												
Jts	Item Description	OD (in)	Top Coupling	Grade	Guide Des	Len (ft)	Top (ftKB)	Blm (ftKB)	Comment			
Perforations												
Date	Top (ftKB)	Blm (ftKB)	Zone Name			Shot Dens (shots/ft)	Current Status		Com			
1/28/2012	9,365.0	9,367.0	Miss Lime			6.0	Active					
1/28/2012	9,281.0	9,283.0	Miss Lime			6.0	Active					
1/28/2012	9,196.0	9,198.0	Miss Lime			6.0	Active					
1/28/2012	9,112.0	9,114.0	Miss Lime			6.0	Active					
1/28/2012	9,027.0	9,029.0	Miss Lime			6.0	Active					
2/16/2012	8,943.0	8,945.0	Miss Lime			6.0	Active					
2/16/2012	8,859.0	8,861.0	Miss Lime			6.0	Active					
2/16/2012	8,774.0	8,776.0	Miss Lime			6.0	Active					
2/16/2012	8,690.0	8,692.0	Miss Lime			6.0	Active					
2/16/2012	8,606.0	8,608.0	Miss Lime			6.0	Active					
2/16/2012	8,521.0	8,523.0	Miss Lime			6.0	Active					
2/16/2012	8,437.0	8,439.0	Miss Lime			6.0	Active					
2/16/2012	8,352.0	8,354.0	Miss Lime			6.0	Active					
2/16/2012	8,268.0	8,270.0	Miss Lime			6.0	Active					
2/16/2012	8,184.0	8,186.0	Miss Lime			6.0	Active					
2/16/2012	8,099.0	8,101.0	Miss Lime			6.0	Active					
2/16/2012	8,015.0	8,017.0	Miss Lime			6.0	Active					
2/16/2012	7,930.0	7,932.0	Miss Lime			6.0	Active					
2/16/2012	7,846.0	7,848.0	Miss Lime			6.0	Active					
2/16/2012	7,762.0	7,764.0	Miss Lime			6.0	Active					
2/17/2012	7,677.0	7,679.0	Miss Lime			6.0	Active					
2/17/2012	7,593.0	7,595.0	Miss Lime			6.0	Active					
2/17/2012	7,508.0	7,510.0	Miss Lime			6.0	Active					
2/17/2012	7,424.0	7,426.0	Miss Lime			6.0	Active					

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HORIZONTAL - Sidetrack 1, 3/7/2012 8:44:31 AM		Perforations						
Vertical schematic (actual)		Date	Top (ftKB)	Blm (ftKB)	Zone Name	Shot Dens (shots/ft)	Current Status	Com
Conductor; 90; 11/28/2011		2/17/2012	7,340.0	7,342.0	Miss Lime	6.0	Active	
Conductor; 20-90; 90		2/17/2012	7,255.0	7,257.0	Miss Lime	6.0	Active	
Conductor Cement; 20		2/17/2012	7,171.0	7,173.0	Miss Lime	6.0	Active	
Surface; 857; 12/15/2011		2/17/2012	7,087.0	7,089.0	Miss Lime	6.0	Active	
Surface Casing Cement; 20		2/17/2012	7,002.0	7,004.0	Miss Lime	6.0	Active	
Surface; 20-857; 857		2/17/2012	6,918.0	6,920.0	Miss Lime	6.0	Active	
Intermediate; 5,478; 12/21/2011		2/17/2012	6,833.0	6,835.0	Miss Lime	6.0	Active	
Slickwater Frac; 5,230-5,570		2/17/2012	6,749.0	6,751.0	Miss Lime	6.0	Active	
Intermediate; 20-5,478; 5,478		2/17/2012	6,665.0	6,667.0	Miss Lime	6.0	Active	
Intermediate Casing Cement; 4,118		2/17/2012	6,580.0	6,582.0	Miss Lime	6.0	Active	
Slickwater Frac; 5,652-5,991		2/17/2012	6,496.0	6,498.0	Miss Lime	6.0	Active	
Production; 6,370; 12/26/2011		2/17/2012	6,411.0	6,413.0	Miss Lime	6.0	Active	
Slickwater Frac; 6,074-6,413		2/17/2012	6,327.0	6,329.0	Miss Lime	6.0	Active	
Kick-off; 6,370		2/17/2012	6,243.0	6,245.0	Miss Lime	6.0	Active	
Sidetrack - Sidetrack 1; 6,370		2/17/2012	6,074.0	6,076.0	Miss Lime	6.0	Active	
		2/17/2012	6,158.0	6,160.0	Miss Lime	6.0	Active	
		2/17/2012	5,989.0	5,991.0	Miss Lime	6.0	Active	
		2/17/2012	5,905.0	5,907.0	Miss Lime	6.0	Active	
		2/17/2012	5,821.0	5,823.0	Miss Lime	6.0	Active	
		2/17/2012	5,736.0	5,738.0	Miss Lime	6.0	Active	
		2/17/2012	5,652.0	5,654.0	Miss Lime	6.0	Active	
		2/17/2012	5,568.0	5,570.0	Miss Lime	6.0	Active	
		2/17/2012	5,483.0	5,485.0	Miss Lime	6.0	Active	
		2/18/2012	5,399.0	5,401.0	Miss Lime	6.0	Active	
		2/18/2012	5,314.0	5,316.0	Miss Lime	6.0	Active	
		2/18/2012	5,230.0	5,232.0	Miss Lime	6.0	Active	
Stimulations & Treatments								
Date	Zone Name	Vol Slurry...	Total Fluid Type	Prop Type	Prop Pumpe...	Frac Grad (psi...		
2/14/2012	Miss Lime			40/70	75,000.0	0.98		
Final ISIP (psi)	Avg Treat Pr...	Q Treat Avg...	Comment					
	5,600.0	88.00	40bbls 15%HCL, 4492 bbls slickwater, 4532TTL					
Date	Zone Name	Vol Slurry...	Total Fluid Type	Prop Type	Prop Pumpe...	Frac Grad (psi...		
2/18/2012	Miss Lime			40/70	75,000.0	0.93		
Final ISIP (psi)	Avg Treat Pr...	Q Treat Avg...	Comment					
2,524.0	4,548.0	100.00	45 bbls 15% HCL & 4335 bbls fresh slickwater. TLTR: 46809.					
Date	Zone Name	Vol Slurry...	Total Fluid Type	Prop Type	Prop Pumpe...	Frac Grad (psi...		
2/16/2012	Miss Lime			40/70	75,000.0	0.91		
Final ISIP (psi)	Avg Treat Pr...	Q Treat Avg...	Comment					
	5,522.0	100.00	36bbls 15%HCL, 4346 bbls slickwater, 11088TTL					
Date	Zone Name	Vol Slurry...	Total Fluid Type	Prop Type	Prop Pumpe...	Frac Grad (psi...		
2/16/2012	Miss Lime			40/70	74,200.0	0.85		
Final ISIP (psi)	Avg Treat Pr...	Q Treat Avg...	Comment					
	3,996.0	100.00	35bbls 15%HCL, 4335 freshwater, tltr 15678					
Date	Zone Name	Vol Slurry...	Total Fluid Type	Prop Type	Prop Pumpe...	Frac Grad (psi...		
2/16/2012	Miss Lime			40/70	74,500.0	0.98		
Final ISIP (psi)	Avg Treat Pr...	Q Treat Avg...	Comment					
2,765.0	5,312.0	99.00	35bbls 15%HCL, 4330 bbls freshwater, tltr 20301					
Date	Zone Name	Vol Slurry...	Total Fluid Type	Prop Type	Prop Pumpe...	Frac Grad (psi...		
2/17/2012	Miss Lime			40/70	75,000.0	0.99		
Final ISIP (psi)	Avg Treat Pr...	Q Treat Avg...	Comment					
2,855.0	4,722.0	100.00	36 bbls 15% HCl & 4232 bbls fresh slickwater. TLTR: 24894.					
Date	Zone Name	Vol Slurry...	Total Fluid Type	Prop Type	Prop Pumpe...	Frac Grad (psi...		
2/17/2012	Miss Lime			40/70	75,400.0	0.88		
Final ISIP (psi)	Avg Treat Pr...	Q Treat Avg...	Comment					
2,279.0	4,411.0	100.00	36 bbls 15% HCl & 4245 bbls fresh slickwater. TLTR: 29319.					
Liner; 5,041-9,456; 9,456								
TD - Sidetrack 1; 9,456; 1/4/2012								
Production Casing Cement; 5,041								



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