



COTTON DRAW UNIT 167H

WEST UNRESTRICTED

Perforation Summary

District		County		Field Name		Project Group		State/Province							
PERMIAN BASIN		EDDY		PADUCA		DELAWARE BASIN		NM							
Surface Legal Location		API/UWI		Latitude (°)		Longitude (°)		Ground Elev MSL (ft)		KB - Ground Level (ft)		Orig KB Elevation (ft)		Tubing Head Elevation (ft)	
SEC25 T24S R31E		3001541385		32° 10' 51.923" N		103° 43' 58.558" W		3,245.40		25.00		3,270.40			
Date	Zone	Top (ftKB)	Top (TVD) (ftKB)	Btm (ftKB)	Btm (TVD) (ftKB)	Current Status	Carrier Des	Gun Size (in)	Charge Type	Chg Sz (g)	Shot Dens (shots/ft)	Phasing (°)	Conveyance Method		
9/27/2013	DELAWARE, ST01	8,440.0	8,217.7	8,442.0	8,218.0			3 1/8	SHAPED	21.5	6.0	60	WIRELINE		
9/27/2013	DELAWARE, ST01	8,545.0	8,221.1	8,547.0	8,221.1			3 1/8	SHAPED	21.5	6.0	60	WIRELINE		
9/27/2013	DELAWARE, ST01	8,650.0	8,222.0	8,652.0	8,222.1			3 1/8	SHAPED	21.5	6.0	60	WIRELINE		
9/27/2013	DELAWARE, ST01	8,750.0	8,225.5	8,752.0	8,225.6			3 1/8	SHAPED	21.5	6.0	60	WIRELINE		
9/26/2013	DELAWARE, ST01	8,860.0	8,224.4	8,862.0	8,224.4			3 1/8	SHAPED	21.5	6.0	60	WIRELINE		
9/26/2013	DELAWARE, ST01	8,968.0	8,221.2	8,970.0	8,221.1			3 1/8	SHAPED	21.5	6.0	60	WIRELINE		
9/26/2013	DELAWARE, ST01	9,070.0	8,220.2	9,072.0	8,220.2			3 1/8	SHAPED	21.5	6.0	60	WIRELINE		
9/26/2013	DELAWARE, ST01	9,175.0	8,222.5	9,177.0	8,222.6			3 1/8	SHAPED	21.5	6.0	60	WIRELINE		
9/26/2013	DELAWARE, ST01	9,284.0	8,225.4	9,286.0	8,225.4			3 1/8	SHAPED	21.5	6.0	60	WIRELINE		
9/26/2013	DELAWARE, ST01	9,385.0	8,226.5	9,387.0	8,226.5			3 1/8	SHAPED	21.5	6.0	60	WIRELINE		
9/26/2013	DELAWARE, ST01	9,490.0	8,225.7	9,492.0	8,225.7			3 1/8	SHAPED	21.5	6.0	60	WIRELINE		
9/26/2013	DELAWARE, ST01	9,600.0	8,224.4	9,602.0	8,224.4			3 1/8	SHAPED	21.5	6.0	60	WIRELINE		
9/26/2013	DELAWARE, ST01	9,700.0	8,223.1	9,702.0	8,223.0			3 1/8	SHAPED	21.5	6.0	60	WIRELINE		
9/26/2013	DELAWARE, ST01	9,805.0	8,221.5	9,807.0	8,221.5			3 1/8	SHAPED	21.5	6.0	60	WIRELINE		
9/26/2013	DELAWARE, ST01	9,912.0	8,221.3	9,914.0	8,221.3			3 1/8	SHAPED	21.5	6.0	60	WIRELINE		
9/26/2013	DELAWARE, ST01	10,016.0	8,221.5	10,018.0	8,221.5			3 1/8	SHAPED	21.5	6.0	60	WIRELINE		
9/26/2013	DELAWARE, ST01	10,120.0	8,222.7	10,122.0	8,222.7			3 1/8	SHAPED	21.5	6.0	60	WIRELINE		
9/26/2013	DELAWARE, ST01	10,220.0	8,223.3	10,222.0	8,223.3			3 1/8	SHAPED	21.5	6.0	60	WIRELINE		
9/26/2013	DELAWARE, ST01	10,330.0	8,224.2	10,332.0	8,224.2			3 1/8	SHAPED	21.5	6.0	60	WIRELINE		
9/26/2013	DELAWARE, ST01	10,435.0	8,226.5	10,437.0	8,226.5			3 1/8	SHAPED	21.5	6.0	60	WIRELINE		
9/25/2013	DELAWARE, ST01	10,534.0	8,227.5	10,536.0	8,227.4			3 1/8	SHAPED	21.5	6.0	60	WIRELINE		
9/25/2013	DELAWARE, ST01	10,645.0	8,224.9	10,647.0	8,224.8			3 1/8	SHAPED	21.5	6.0	60	WIRELINE		
9/25/2013	DELAWARE, ST01	10,750.0	8,221.3	10,752.0	8,221.3			3 1/8	SHAPED	21.5	6.0	60	WIRELINE		
9/25/2013	DELAWARE, ST01	10,850.0	8,217.9	10,852.0	8,217.8			3 1/8	SHAPED	21.5	6.0	60	WIRELINE		
9/25/2013	DELAWARE, ST01	10,960.0	8,215.0	10,962.0	8,215.0			3 1/8	SHAPED	21.5	6.0	60	WIRELINE		
9/25/2013	DELAWARE, ST01	11,065.0	8,215.6	11,067.0	8,215.6			3 1/8	SHAPED	21.5	6.0	60	WIRELINE		
9/25/2013	DELAWARE, ST01	11,167.0	8,216.8	11,169.0	8,216.9			3 1/8	SHAPED	21.5	6.0	60	WIRELINE		
9/25/2013	DELAWARE, ST01	11,275.0	8,217.1	11,277.0	8,217.1			3 1/8	SHAPED	21.5	6.0	60	WIRELINE		
9/25/2013	DELAWARE, ST01	11,380.0	8,217.8	11,382.0	8,217.8			3 1/8	SHAPED	21.5	6.0	60	WIRELINE		
9/25/2013	DELAWARE, ST01	11,483.0	8,216.6	11,485.0	8,216.6			3 1/8	SHAPED	21.5	6.0	60	WIRELINE		
9/25/2013	DELAWARE, ST01	11,590.0	8,217.6	11,592.0	8,217.6			3 1/8	SHAPED	21.5	6.0	60	WIRELINE		
9/25/2013	DELAWARE, ST01	11,695.0	8,216.5	11,697.0	8,216.4			3 1/8	SHAPED	21.5	6.0	60	WIRELINE		
9/25/2013	DELAWARE, ST01	11,800.0	8,214.1	11,802.0	8,214.1			3 1/8	SHAPED	21.5	6.0	60	WIRELINE		
9/25/2013	DELAWARE, ST01	11,905.0	8,214.8	11,907.0	8,214.8			3 1/8	SHAPED	21.5	6.0	60	WIRELINE		
9/25/2013	DELAWARE, ST01	12,010.0	8,215.6	12,012.0	8,215.6			3 1/8	SHAPED	21.5	6.0	60	WIRELINE		
9/25/2013	DELAWARE, ST01	12,115.0	8,218.5	12,117.0	8,218.6			3 1/8	SHAPED	21.5	6.0	60	WIRELINE		
9/25/2013	DELAWARE, ST01	12,223.0	8,220.6	12,225.0	8,220.6			3 1/8	SHAPED	21.5	6.0	60	WIRELINE		
9/25/2013	DELAWARE, ST01	12,325.0	8,219.7	12,327.0	8,219.6			3 1/8	SHAPED	21.5	6.0	60	WIRELINE		
9/25/2013	DELAWARE, ST01	12,430.0	8,217.5	12,432.0	8,217.4			3 1/8	SHAPED	21.5	6.0	60	WIRELINE		
9/25/2013	DELAWARE, ST01	12,538.0	8,215.1	12,540.0	8,215.1			3 1/8	SHAPED	21.5	6.0	60	WIRELINE		



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Perforation Summary

District PERMIAN BASIN		County EDDY		Field Name PADUCA		Project Group DELAWARE BASIN				State/Province NM					
Surface Legal Location SEC25 T24S R31E		API/UWI 3001541385		Latitude (°) 32° 10' 51.923" N		Longitude (°) 103° 43' 58.558" W		Ground Elev MSL (ft) 3,245.40		KB - Ground Level (ft) 25.00		Orig KB Elevation (ft) 3,270.40		Tubing Head Elevation (ft)	
Date	Zone	Top (ftKB)	Top (TVD) (ftKB)	Btm (ftKB)	Btm (TVD) (ftKB)	Current Status	Carrier Des	Gun Size (in)	Charge Type	Chg Sz (g)	Shot Dens (shots/ft)	Phasing (°)	Conveyance Method		
9/24/2013	DELAWARE, ST01	12,640.0	8,213.6	12,642.0	8,213.6			3 1/8	SHAPED	21.5	6.0	60	WIRELINE		
9/24/2013	DELAWARE, ST01	12,745.0	8,215.3	12,747.0	8,215.4			3 1/8	SHAPED	21.5	6.0	60	WIRELINE		
9/24/2013	DELAWARE, ST01	12,845.0	8,216.9	12,847.0	8,216.9			3 1/8	SHAPED	21.5	6.0	60	WIRELINE		
9/24/2013	DELAWARE, ST01	12,955.0	8,217.5	12,957.0	8,217.5			3 1/8	SHAPED	21.5	6.0	60	WIRELINE		
9/24/2013	DELAWARE, ST01	13,060.0	8,218.8	13,062.0	8,218.9			3 1/8	SHAPED	21.5	6.0	60	WIRELINE		
9/24/2013	DELAWARE, ST01	13,165.0	8,220.9	13,167.0	8,221.0			3 1/8	SHAPED	21.5	6.0	60	WIRELINE		
9/24/2013	DELAWARE, ST01	13,275.0	8,219.0	13,277.0	8,219.0			3 1/8	SHAPED	21.5	6.0	60	WIRELINE		
9/24/2013	DELAWARE, ST01	13,375.0	8,218.5	13,377.0	8,218.5			3 1/8	SHAPED	21.5	6.0	60	WIRELINE		
9/24/2013	DELAWARE, ST01	13,480.0	8,219.4	13,482.0	8,219.4			3 1/8	SHAPED	21.5	6.0	60	WIRELINE		
9/24/2013	DELAWARE, ST01	13,585.0	8,219.9	13,587.0	8,220.0			3 1/8	SHAPED	21.5	6.0	60	WIRELINE		
9/24/2013	DELAWARE, ST01	13,690.0	8,220.9	13,692.0	8,221.0			3 1/8	SHAPED	21.5	6.0	60	WIRELINE		
9/24/2013	DELAWARE, ST01	13,795.0	8,221.4	13,797.0	8,221.4			3 1/8	SHAPED	21.5	6.0	60	WIRELINE		
9/23/2013	DELAWARE, ST01	13,900.0	8,218.8	13,902.0	8,218.8			3 1/8	SHAPED	21.5	6.0	60	WIRELINE		
9/23/2013	DELAWARE, ST01	14,005.0	8,218.0	14,007.0	8,218.0			3 1/8	SHAPED	21.5	6.0	60	WIRELINE		
9/23/2013	DELAWARE, ST01	14,110.0	8,219.5	14,112.0	8,219.5			3 1/8	SHAPED	21.5	6.0	60	WIRELINE		
9/23/2013	DELAWARE, ST01	14,215.0	8,221.1	14,217.0	8,221.1			3 1/8	SHAPED	21.5	6.0	60	WIRELINE		
9/20/2013	DELAWARE, ST01	14,320.0	8,221.0	14,322.0	8,220.9			3 1/8	SHAPED	21.5	6.0	60	TUBING		
9/20/2013	DELAWARE, ST01	14,425.0	8,219.7	14,427.0	8,219.7			3 1/8	SHAPED	21.5	6.0	60	TUBING		
9/20/2013	DELAWARE, ST01	14,530.0	8,219.8	14,532.0	8,219.8			3 1/8	SHAPED	21.5	6.0	60	TUBING		
9/20/2013	DELAWARE, ST01	14,635.0	8,219.3	14,637.0	8,219.2			3 1/8	SHAPED	21.5	6.0	60	TUBING		