



HOBBS OCD
AUG 24 2017
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Perforation Summary

Well Name SALADO DRAW WE 23 FED P25 002H	Lease NMNM118723	Field Name JENNINGS	Business Unit Mid-Continent	Surface UWI 3002543461	Surface ChevNo PJ8996
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Perforations

Date	Perforation Type	Top (ftKB)	Btm (ftKB)	Phasing (*)	Gun Size (in)	Chg Sz (g)	Charge Make	Carrier Make	Shot Dens (shots/ft)	Entered Shot Total	# Shots Misfired	Perf Comp	Com
6/10/2017	Shaped Charge	9,144.0	9,145.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	6.0	6	0	Halliburton	Stage 49
6/10/2017	Shaped Charge	9,170.0	9,171.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 49
6/10/2017	Shaped Charge	9,195.0	9,196.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 49
6/10/2017	Shaped Charge	9,220.0	9,221.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 49
6/10/2017	Shaped Charge	9,245.0	9,246.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 49
6/10/2017	Shaped Charge	9,265.0	9,266.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 49
6/10/2017	Shaped Charge	9,295.0	9,296.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 49
6/10/2017	Shaped Charge	9,320.0	9,321.0	120	3 1/8	22.7	Halliburton Energy Services	Halliburton	3.0	3	0	Halliburton	Stage 49
6/9/2017	Shaped Charge	9,345.0	9,346.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	6.0	6	0	Halliburton	Stage 48
6/9/2017	Shaped Charge	9,370.0	9,371.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 48
6/9/2017	Shaped Charge	9,395.0	9,396.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 48
6/9/2017	Shaped Charge	9,420.0	9,421.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 48
6/9/2017	Shaped Charge	9,445.0	9,446.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 48
6/9/2017	Shaped Charge	9,470.0	9,471.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 48
6/9/2017	Shaped Charge	9,495.0	9,496.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 48
6/9/2017	Shaped Charge	9,520.0	9,521.0	120	3 1/8	22.7	Halliburton Energy Services	Halliburton	3.0	3	0	Halliburton	Stage 48
6/9/2017	Shaped Charge	9,545.0	9,546.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	6.0	6	0	Halliburton	Stage 47
6/9/2017	Shaped Charge	9,570.0	9,571.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 47
6/9/2017	Shaped Charge	9,595.0	9,596.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 47
6/9/2017	Shaped Charge	9,620.0	9,621.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 47
6/9/2017	Shaped Charge	9,645.0	9,646.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 47



Perforation Summary

Well Name SALADO DRAW WE 23 FED P25 002H	Lease NMNM118723	Field Name JENNINGS	Business Unit Mid-Continent	Surface UWI 3002543461	Surface ChevNo PJ8996
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Perforations

Date	Perforation Type	Top (ftKB)	Btm (ftKB)	Phasing (°)	Gun Size (in)	Chg Sz (g)	Charge Make	Carrier Make	Shot Dens (shots/ft)	Entered Shot Total	# Shots Misfired	Perf Comp	Com
6/9/2017	Shaped Charge	9,670.0	9,671.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 47
6/9/2017	Shaped Charge	9,695.0	9,696.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 47
6/9/2017	Shaped Charge	9,720.0	9,721.0	120	3 1/8	22.7	Halliburton Energy Services	Halliburton	3.0	3	0	Halliburton	Stage 47
6/8/2017	Shaped Charge	9,745.0	9,746.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	6.0	6	0	Halliburton	Stage 46
6/8/2017	Shaped Charge	9,770.0	9,771.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 46
6/8/2017	Shaped Charge	9,795.0	9,796.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 46
6/8/2017	Shaped Charge	9,820.0	9,821.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 46
6/8/2017	Shaped Charge	9,845.0	9,846.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 46
6/8/2017	Shaped Charge	9,870.0	9,871.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 46
6/8/2017	Shaped Charge	9,895.0	9,896.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 46
6/8/2017	Shaped Charge	9,920.0	9,921.0	120	3 1/8	22.7	Halliburton Energy Services	Halliburton	3.0	3	0	Halliburton	Stage 46
6/8/2017	Shaped Charge	9,945.0	9,946.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	6.0	6	0	Halliburton	Stage 45
6/8/2017	Shaped Charge	9,965.0	9,966.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 45
6/8/2017	Shaped Charge	9,995.0	9,996.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 45
6/8/2017	Shaped Charge	10,020.0	10,021.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 45
6/8/2017	Shaped Charge	10,045.0	10,046.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 45
6/8/2017	Shaped Charge	10,070.0	10,071.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 45
6/8/2017	Shaped Charge	10,095.0	10,096.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 45
6/8/2017	Shaped Charge	10,120.0	10,121.0	120	3 1/8	22.7	Halliburton Energy Services	Halliburton	3.0	3	0	Halliburton	Stage 45
6/7/2017	Shaped Charge	10,145.0	10,146.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	6.0	6	0	Halliburton	Stage 44
6/7/2017	Shaped Charge	10,170.0	10,171.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 44
6/7/2017	Shaped Charge	10,195.0	10,196.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 44



Perforation Summary

Well Name SALADO DRAW WE 23 FED P25 002H	Lease NMNM118723	Field Name JENNINGS	Business Unit Mid-Continent	Surface UWI 3002543461	Surface ChevNo. PJ8996
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Perforations

Date	Perforation Type	Top (ftKB)	Btm (ftKB)	Phasing (°)	Gun Size (in)	Chg Sz (g)	Charge Make	Carrier Make	Shot Dens (shots/ft)	Entered Shot Total	# Shots Misfired	Perf Comp	Com
6/7/2017	Shaped Charge	10,223.0	10,224.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 44
6/7/2017	Shaped Charge	10,245.0	10,246.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 44
6/7/2017	Shaped Charge	10,270.0	10,271.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 44
6/7/2017	Shaped Charge	10,295.0	10,296.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 44
6/7/2017	Shaped Charge	10,320.0	10,321.0	120	3 1/8	22.7	Halliburton Energy Services	Halliburton	3.0	3	0	Halliburton	Stage 44
6/7/2017	Shaped Charge	10,348.0	10,349.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	6.0	6	0	Halliburton	Stage 43
6/7/2017	Shaped Charge	10,370.0	10,371.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 43
6/7/2017	Shaped Charge	10,395.0	10,396.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 43
6/7/2017	Shaped Charge	10,420.0	10,421.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 43
6/7/2017	Shaped Charge	10,445.0	10,446.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 43
6/7/2017	Shaped Charge	10,470.0	10,471.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 43
6/7/2017	Shaped Charge	10,495.0	10,496.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 43
6/7/2017	Shaped Charge	10,520.0	10,521.0	120	3 1/8	22.7	Halliburton Energy Services	Halliburton	3.0	3	0	Halliburton	Stage 43
6/6/2017	Shaped Charge	10,545.0	10,546.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	6.0	6	0	Halliburton	Stage 42
6/6/2017	Shaped Charge	10,570.0	10,571.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 42
6/6/2017	Shaped Charge	10,595.0	10,596.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 42
6/6/2017	Shaped Charge	10,620.0	10,621.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 42
6/6/2017	Shaped Charge	10,645.0	10,646.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 42
6/6/2017	Shaped Charge	10,670.0	10,671.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 42
6/6/2017	Shaped Charge	10,695.0	10,696.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 42
6/6/2017	Shaped Charge	10,717.0	10,718.0	120	3 1/8	22.7	Halliburton Energy Services	Halliburton	3.0	3	0	Halliburton	Stage 42
6/6/2017	Shaped Charge	10,745.0	10,746.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	6.0	6	0	Halliburton	Stage 41



Perforation Summary

Well Name SALADO DRAW WE 23 FED P25 002H	Lease NMNM118723	Field Name JENNINGS	Business Unit Mid-Continent	Surface UWI 3002543461	Surface ChevNo PJ8996
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Perforations													
Date	Perforation Type	Top (ftKB)	Btm (ftKB)	Phasing (*)	Gun Size (in)	Chg Sz (g)	Charge Make	Carrier Make	Shot Dens (shots/ft)	Entered Shot Total	# Shots Misfired	Perf Comp	Com
6/6/2017	Shaped Charge	10,770.0	10,771.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 41
6/6/2017	Shaped Charge	10,795.0	10,796.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 41
6/6/2017	Shaped Charge	10,820.0	10,821.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 41
6/6/2017	Shaped Charge	10,845.0	10,846.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 41
6/6/2017	Shaped Charge	10,870.0	10,871.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 41
6/6/2017	Shaped Charge	10,895.0	10,896.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 41
6/6/2017	Shaped Charge	10,920.0	10,921.0	120	3 1/8	22.7	Halliburton Energy Services	Halliburton	3.0	3	0	Halliburton	Stage 41
6/5/2017	Shaped Charge	10,945.0	10,946.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	6.0	6	0	Halliburton	Stage 40
6/5/2017	Shaped Charge	10,970.0	10,971.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 40
6/5/2017	Shaped Charge	10,995.0	10,996.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 40
6/5/2017	Shaped Charge	11,020.0	11,021.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 40
6/5/2017	Shaped Charge	11,047.0	11,048.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 40
6/5/2017	Shaped Charge	11,070.0	11,071.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 40
6/5/2017	Shaped Charge	11,095.0	11,096.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 40
6/5/2017	Shaped Charge	11,120.0	11,121.0	120	3 1/8	22.7	Halliburton Energy Services	Halliburton	3.0	3	0	Halliburton	Stage 40
6/5/2017	Shaped Charge	11,145.0	11,146.0	0	3 1/8	22.7	Halliburton Energy Services	Geodynamics	0.0	0	0	Weatherford	Stage 39
6/5/2017	Shaped Charge	11,169.0	11,170.0	0	3 1/8	22.7	Halliburton Energy Services	Geodynamics	0.0	0	0	Weatherford	Stage 39
6/5/2017	Shaped Charge	11,195.0	11,196.0	0	3 1/8	22.7	Halliburton Energy Services	Geodynamics	0.0	0	0	Weatherford	Stage 39
6/5/2017	Shaped Charge	11,220.0	11,221.0	0	3 1/8	22.7	Halliburton Energy Services	Geodynamics	0.0	0	0	Weatherford	Stage 39
6/5/2017	Shaped Charge	11,245.0	11,246.0	0	3 1/8	22.7	Halliburton Energy Services	Geodynamics	0.0	0	0	Weatherford	Stage 39
6/5/2017	Shaped Charge	11,270.0	11,271.0	0	3 1/8	22.7	Halliburton Energy Services	Geodynamics	0.0	0	0	Weatherford	Stage 39
6/5/2017	Shaped Charge	11,295.0	11,296.0	0	3 1/8	22.7	Halliburton Energy Services	Geodynamics	0.0	0	0	Weatherford	Stage 39



Perforation Summary

Well Name SALADO DRAW WE 23 FED P25 002H	Lease NMNM118723	Field Name JENNINGS	Business Unit Mid-Continent	Surface UWI 3002543461	Surface ChevNo PJ8996
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Perforations													
Date	Perforation Type	Top (ftKB)	Btm (ftKB)	Phasing (*)	Gun Size (in)	Chg Sz (g)	Charge Make	Carrier Make	Shot Dens (shots/ft)	Entered Shot Total	# Shots Misfired	Perf Comp	Com
6/5/2017	Shaped Charge	11,316.0	11,317.0	0	3 1/8	22.7	Halliburton Energy Services	Geodynamics	0.0	0	0	Weatherford	Stage 39
6/4/2017	Shaped Charge	11,345.0	11,346.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	6.0	6	0	Halliburton	Stage 38
6/4/2017	Shaped Charge	11,370.0	11,371.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 38
6/4/2017	Shaped Charge	11,395.0	11,396.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 38
6/4/2017	Shaped Charge	11,420.0	11,421.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 38
6/4/2017	Shaped Charge	11,445.0	11,446.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 38
6/4/2017	Shaped Charge	11,470.0	11,471.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 38
6/4/2017	Shaped Charge	11,493.0	11,494.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 38
6/4/2017	Shaped Charge	11,520.0	11,521.0	120	3 1/8	22.7	Halliburton Energy Services	Halliburton	3.0	3	0	Halliburton	Stage 38
6/4/2017	Shaped Charge	11,545.0	11,546.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	6.0	6	0	Halliburton	Stage 37
6/4/2017	Shaped Charge	11,570.0	11,571.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 37
6/4/2017	Shaped Charge	11,595.0	11,596.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 37
6/4/2017	Shaped Charge	11,620.0	11,621.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 37
6/4/2017	Shaped Charge	11,645.0	11,646.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 37
6/4/2017	Shaped Charge	11,670.0	11,671.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 37
6/4/2017	Shaped Charge	11,695.0	11,696.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 37
6/4/2017	Shaped Charge	11,720.0	11,721.0	120	3 1/8	22.7	Halliburton Energy Services	Halliburton	3.0	3	0	Halliburton	Stage 37
6/4/2017	Shaped Charge	11,745.0	11,746.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	6.0	6	0	Halliburton	Stage 36
6/4/2017	Shaped Charge	11,770.0	11,771.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 36
6/4/2017	Shaped Charge	11,795.0	11,796.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 36
6/4/2017	Shaped Charge	11,820.0	11,821.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 36
6/4/2017	Shaped Charge	11,845.0	11,846.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 36



Perforation Summary

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Perforations

Date	Perforation Type	Top (ftKB)	Btm (ftKB)	Phasing (°)	Gun Size (in)	Chg Sz (g)	Charge Make	Carrier Make	Shot Dens (shots/ft)	Entered Shot Total	# Shots Misfired	Perf Comp	Com
6/4/2017	Shaped Charge	11,870.0	11,871.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 36
6/4/2017	Shaped Charge	11,895.0	11,896.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 36
6/4/2017	Shaped Charge	11,920.0	11,921.0	120	3 1/8	22.7	Halliburton Energy Services	Halliburton	3.0	3	0	Halliburton	Stage 36
6/3/2017	Shaped Charge	11,945.0	11,946.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	6.0	6	0	Halliburton	Stage 35
6/3/2017	Shaped Charge	11,970.0	11,971.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 35
6/3/2017	Shaped Charge	11,995.0	11,996.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 35
6/3/2017	Shaped Charge	12,020.0	12,021.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 35
6/3/2017	Shaped Charge	12,045.0	12,046.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 35
6/3/2017	Shaped Charge	12,070.0	12,071.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 35
6/3/2017	Shaped Charge	12,095.0	12,096.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 35
6/3/2017	Shaped Charge	12,117.0	12,118.0	120	3 1/8	22.7	Halliburton Energy Services	Halliburton	3.0	3	0	Halliburton	Stage 35
6/3/2017	Shaped Charge	12,145.0	12,146.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	6.0	6	0	Halliburton	Stage 34
6/3/2017	Shaped Charge	12,170.0	12,171.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 34
6/3/2017	Shaped Charge	12,195.0	12,196.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 34
6/3/2017	Shaped Charge	12,220.0	12,221.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 34
6/3/2017	Shaped Charge	12,243.0	12,244.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 34
6/3/2017	Shaped Charge	12,270.0	12,271.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 34
6/3/2017	Shaped Charge	12,295.0	12,296.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 34
6/3/2017	Shaped Charge	12,320.0	12,321.0	120	3 1/8	22.7	Halliburton Energy Services	Halliburton	3.0	3	0	Halliburton	Stage 34
6/3/2017	Shaped Charge	12,345.0	12,346.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	6.0	6	0	Halliburton	Stage 33
6/3/2017	Shaped Charge	12,374.0	12,375.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 33
6/3/2017	Shaped Charge	12,395.0	12,396.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 33



Perforation Summary

Well Name SALADO DRAW WE 23 FED P25 002H	Lease NMNM118723	Field Name JENNINGS	Business Unit Mid-Continent	Surface UWI 3002543461	Surface ChevNo PJ8996
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Perforations

Date	Perforation Type	Top (ftKB)	Btm (ftKB)	Phasing (°)	Gun Size (in)	Chg Sz (g)	Charge Make	Carrier Make	Shot Dens (shots/ft)	Entered Shot Total	# Shots Misfired	Perf Comp	Com
6/3/2017	Shaped Charge	12,420.0	12,421.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 33
6/3/2017	Shaped Charge	12,445.0	12,446.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 33
6/3/2017	Shaped Charge	12,470.0	12,471.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 33
6/3/2017	Shaped Charge	12,495.0	12,496.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 33
6/3/2017	Shaped Charge	12,520.0	12,521.0	120	3 1/8	22.7	Halliburton Energy Services	Halliburton	3.0	3	0	Halliburton	Stage 33
6/2/2017	Shaped Charge	12,545.0	12,546.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	6.0	6	0	Halliburton	Stage 32
6/2/2017	Shaped Charge	12,570.0	12,571.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 32
6/2/2017	Shaped Charge	12,595.0	12,596.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 32
6/2/2017	Shaped Charge	12,621.0	12,622.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 32
6/2/2017	Shaped Charge	12,645.0	12,646.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 32
6/2/2017	Shaped Charge	12,670.0	12,671.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 32
6/2/2017	Shaped Charge	12,695.0	12,696.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 32
6/2/2017	Shaped Charge	12,720.0	12,721.0	120	3 1/8	22.7	Halliburton Energy Services	Halliburton	3.0	3	0	Halliburton	Stage 32
6/2/2017	Shaped Charge	12,745.0	12,746.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	6.0	6	0	Halliburton	Stage 31
6/2/2017	Shaped Charge	12,770.0	12,771.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 31
6/2/2017	Shaped Charge	12,795.0	12,796.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 31
6/2/2017	Shaped Charge	12,820.0	12,821.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 31
6/2/2017	Shaped Charge	12,845.0	12,846.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 31
6/2/2017	Shaped Charge	12,871.0	12,872.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 31
6/2/2017	Shaped Charge	12,895.0	12,896.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 31
6/2/2017	Shaped Charge	12,920.0	12,921.0	120	3 1/8	22.7	Halliburton Energy Services	Halliburton	3.0	3	0	Halliburton	Stage 31
6/2/2017	Shaped Charge	12,945.0	12,946.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	6.0	6	0	Halliburton	Stage 30



Perforation Summary

Well Name SALADO DRAW WE 23 FED P25 002H	Lease NMNM118723	Field Name JENNINGS	Business Unit Mid-Continent	Surface UWI 3002543461	Surface ChevNo PJ8996
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Perforations													
Date	Perforation Type	Top (ftKB)	Btm (ftKB)	Phasing (°)	Gun Size (in)	Chg Sz (g)	Charge Make	Carrier Make	Shot Dens (shots/ft)	Entered Shot Total	# Shots Misfired	Perf Comp	Com
6/2/2017	Shaped Charge	12,970.0	12,971.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 30
6/2/2017	Shaped Charge	12,998.0	12,999.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 30
6/2/2017	Shaped Charge	13,020.0	13,021.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 30
6/2/2017	Shaped Charge	13,045.0	13,046.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 30
6/2/2017	Shaped Charge	13,070.0	13,071.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 30
6/2/2017	Shaped Charge	13,095.0	13,096.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 30
6/2/2017	Shaped Charge	13,116.0	13,117.0	120	3 1/8	22.7	Halliburton Energy Services	Halliburton	3.0	3	0	Halliburton	Stage 30
6/2/2017	Shaped Charge	13,145.0	13,146.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	6.0	6	0	Halliburton	Stage 29
6/2/2017	Shaped Charge	13,170.0	13,171.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 29
6/2/2017	Shaped Charge	13,195.0	13,196.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 29
6/2/2017	Shaped Charge	13,220.0	13,221.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 29
6/2/2017	Shaped Charge	13,245.0	13,246.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 29
6/2/2017	Shaped Charge	13,270.0	13,271.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 29
6/2/2017	Shaped Charge	13,295.0	13,296.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 29
6/2/2017	Shaped Charge	13,320.0	13,321.0	120	3 1/8	22.7	Halliburton Energy Services	Halliburton	3.0	3	0	Halliburton	Stage 29
6/1/2017	Shaped Charge	13,345.0	13,346.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	6.0	6	0	Halliburton	Stage 28
6/1/2017	Shaped Charge	13,367.0	13,368.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 28
6/1/2017	Shaped Charge	13,395.0	13,396.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 28
6/1/2017	Shaped Charge	13,420.0	13,421.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 28
6/1/2017	Shaped Charge	13,445.0	13,446.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 28
6/1/2017	Shaped Charge	13,470.0	13,471.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 28
6/1/2017	Shaped Charge	13,493.0	13,494.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 28



Perforation Summary

Well Name SALADO DRAW WE 23 FED P25 002H	Lease NMNM118723	Field Name JENNINGS	Business Unit Mid-Continent	Surface UWI 3002543461	Surface ChevNo PJ8996
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Perforations

Date	Perforation Type	Top (ftKB)	Btm (ftKB)	Phasing (")	Gun Size (in)	Chg Sz (g)	Charge Make	Carrier Make	Shot Dens (shots/ft)	Entered Shot Total	# Shots Misfired	Perf Comp	Com
6/1/2017	Shaped Charge	13,518.0	13,519.0	120	3 1/8	22.7	Halliburton Energy Services	Halliburton	3.0	3	0	Halliburton	Stage 28
6/1/2017	Shaped Charge	13,545.0	13,546.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	6.0	6	0	Halliburton	Stage 27
6/1/2017	Shaped Charge	13,570.0	13,571.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 27
6/1/2017	Shaped Charge	13,595.0	13,596.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 27
6/1/2017	Shaped Charge	13,618.0	13,619.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 27
6/1/2017	Shaped Charge	13,645.0	13,646.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 27
6/1/2017	Shaped Charge	13,670.0	13,671.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 27
6/1/2017	Shaped Charge	13,695.0	13,696.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 27
6/1/2017	Shaped Charge	13,720.0	13,721.0	120	3 1/8	22.7	Halliburton Energy Services	Halliburton	3.0	3	0	Halliburton	Stage 27
6/1/2017	Shaped Charge	13,745.0	13,746.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	6.0	6	0	Halliburton	Stage 26
6/1/2017	Shaped Charge	13,770.0	13,771.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 26
6/1/2017	Shaped Charge	13,795.0	13,796.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 26
6/1/2017	Shaped Charge	13,820.0	13,821.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 26
6/1/2017	Shaped Charge	13,845.0	13,846.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 26
6/1/2017	Shaped Charge	13,869.0	13,870.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 26
6/1/2017	Shaped Charge	13,895.0	13,896.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 26
6/1/2017	Shaped Charge	13,920.0	13,921.0	120	3 1/8	22.7	Halliburton Energy Services	Halliburton	3.0	3	0	Halliburton	Stage 26
5/31/2017	Shaped Charge	13,945.0	13,946.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	6.0	6	0	Halliburton	Stage 25
5/31/2017	Shaped Charge	13,970.0	13,971.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 25
5/31/2017	Shaped Charge	13,995.0	13,996.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 25
5/31/2017	Shaped Charge	14,020.0	14,021.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 25
5/31/2017	Shaped Charge	14,045.0	14,046.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 25



Perforation Summary

Well Name SALADO DRAW WE 23 FED P25 002H	Lease NMNM118723	Field Name JENNINGS	Business Unit Mid-Continent	Surface UWI 3002543461	Surface ChevNo PJ8996
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Perforations													
Date	Perforation Type	Top (ftKB)	Btm (ftKB)	Phasing (")	Gun Size (in)	Chg Sz (g)	Charge Make	Carrier Make	Shot Dens (shots/ft)	Entered Shot Total	# Shots Misfired	Perf Comp	Com
5/31/2017	Shaped Charge	14,070.0	14,071.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 25
5/31/2017	Shaped Charge	14,095.0	14,096.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 25
5/31/2017	Shaped Charge	14,118.0	14,119.0	120	3 1/8	22.7	Halliburton Energy Services	Halliburton	3.0	3	0	Halliburton	Stage 25
5/30/2017	Shaped Charge	14,145.0	14,146.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	6.0	6	0	Halliburton	Stage 24
5/31/2017	Shaped Charge	14,170.0	14,171.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 24
5/31/2017	Shaped Charge	14,195.0	14,196.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 24
5/31/2017	Shaped Charge	14,220.0	14,221.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 24
5/31/2017	Shaped Charge	14,245.0	14,246.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 24
5/31/2017	Shaped Charge	14,270.0	14,271.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 24
5/31/2017	Shaped Charge	14,295.0	14,296.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 24
5/31/2017	Shaped Charge	14,317.0	14,318.0	120	3 1/8	22.7	Halliburton Energy Services	Halliburton	3.0	3	0	Halliburton	Stage 24
5/31/2017	Shaped Charge	14,345.0	14,346.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	6.0	6	0	Halliburton	Stage 23
5/31/2017	Shaped Charge	14,370.0	14,371.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 23
5/31/2017	Shaped Charge	14,394.0	14,395.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 23
5/31/2017	Shaped Charge	14,418.0	14,419.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 23
5/31/2017	Shaped Charge	14,445.0	14,446.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 23
5/31/2017	Shaped Charge	14,470.0	14,471.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 23
5/31/2017	Shaped Charge	14,495.0	14,496.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 23
5/31/2017	Shaped Charge	14,520.0	14,521.0	120	3 1/8	22.7	Halliburton Energy Services	Halliburton	3.0	3	0	Halliburton	Stage 23
5/30/2017	Shaped Charge	14,545.0	14,546.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	6.0	6	0	Halliburton	Stage 22
5/30/2017	Shaped Charge	14,570.0	14,571.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 22
5/30/2017	Shaped Charge	14,595.0	14,596.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 22



Perforation Summary

Well Name SALADO DRAW WE 23 FED P25 002H	Lease NMNM118723	Field Name JENNINGS	Business Unit Mid-Continent	Surface UWI 3002543461	Surface ChevNo PJ8996
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Perforations

Date	Perforation Type	Top (ftKB)	Btm (ftKB)	Phasing (")	Gun Size (in)	Chg Sz (g)	Charge Make	Carrier Make	Shot Dens (shots/ft)	Entered Shot Total	# Shots Misfired	Perf Comp	Com
5/30/2017	Shaped Charge	14,620.0	14,621.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 22
5/30/2017	Shaped Charge	14,645.0	14,646.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 22
5/30/2017	Shaped Charge	14,671.0	14,672.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 22
5/30/2017	Shaped Charge	14,695.0	14,696.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 22
5/30/2017	Shaped Charge	14,720.0	14,721.0	120	3 1/8	22.7	Halliburton Energy Services	Halliburton	3.0	3	0	Halliburton	Stage 22
5/30/2017	Shaped Charge	14,745.0	14,746.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	6.0	6	0	Halliburton	Stage 21
5/30/2017	Shaped Charge	14,770.0	14,771.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 21
5/30/2017	Shaped Charge	14,795.0	14,796.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 21
5/30/2017	Shaped Charge	14,820.0	14,821.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 21
5/30/2017	Shaped Charge	14,845.0	14,846.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 21
5/30/2017	Shaped Charge	14,870.0	14,871.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 21
5/30/2017	Shaped Charge	14,895.0	14,896.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 21
5/30/2017	Shaped Charge	14,920.0	14,921.0	120	3 1/8	22.7	Halliburton Energy Services	Halliburton	3.0	3	0	Halliburton	Stage 21
5/30/2017	Shaped Charge	14,945.0	14,946.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	6.0	6	0	Halliburton	Stage 20
5/30/2017	Shaped Charge	14,970.0	14,971.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 20
5/30/2017	Shaped Charge	14,995.0	14,996.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 20
5/30/2017	Shaped Charge	15,020.0	15,021.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 20
5/30/2017	Shaped Charge	15,045.0	15,046.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 20
5/30/2017	Shaped Charge	15,070.0	15,071.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 20
5/30/2017	Shaped Charge	15,095.0	15,096.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 20
5/30/2017	Shaped Charge	15,120.0	15,121.0	120	3 1/8	22.7	Halliburton Energy Services	Halliburton	3.0	3	0	Halliburton	Stage 20
5/29/2017	Shaped Charge	15,145.0	15,146.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	6.0	6	0	Halliburton	Stage 19



Perforation Summary

Well Name SALADO DRAW WE 23 FED P25 002H	Lease NMNM118723	Field Name JENNINGS	Business Unit Mid-Continent	Surface UWI 3002543461	Surface ChevNo PJ8996
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Perforations													
Date	Perforation Type	Top (ftKB)	Btm (ftKB)	Phasing (°)	Gun Size (in)	Chg Sz (g)	Charge Make	Carrier Make	Shot Dens (shots/ft)	Entered Shot Total	# Shots Misfired	Perf Comp	Com
5/29/2017	Shaped Charge	15,174.0	15,175.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 19
5/29/2017	Shaped Charge	15,195.0	15,196.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 19
5/29/2017	Shaped Charge	15,220.0	15,221.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 19
5/29/2017	Shaped Charge	15,245.0	15,246.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 19
5/29/2017	Shaped Charge	15,270.0	15,271.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 19
5/29/2017	Shaped Charge	15,295.0	15,296.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 19
5/29/2017	Shaped Charge	15,318.0	15,319.0	120	3 1/8	22.7	Halliburton Energy Services	Halliburton	3.0	3	0	Halliburton	Stage 19
5/28/2017	Shaped Charge	15,345.0	15,346.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	6.0	6	0	Halliburton	Stage 18
5/28/2017	Shaped Charge	15,370.0	15,371.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 18
5/28/2017	Shaped Charge	15,395.0	15,396.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 18
5/28/2017	Shaped Charge	15,420.0	15,421.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 18
5/28/2017	Shaped Charge	15,445.0	15,446.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 18
5/28/2017	Shaped Charge	15,470.0	15,471.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 18
5/28/2017	Shaped Charge	15,495.0	15,496.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 18
5/28/2017	Shaped Charge	15,520.0	15,521.0	120	3 1/8	22.7	Halliburton Energy Services	Halliburton	3.0	3	0	Halliburton	Stage 18
5/27/2017	Shaped Charge	15,545.0	15,546.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	6.0	6	0	Halliburton	Stage 17
5/27/2017	Shaped Charge	15,570.0	15,571.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 17
5/27/2017	Shaped Charge	15,595.0	15,596.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 17
5/27/2017	Shaped Charge	15,620.0	15,621.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 17
5/27/2017	Shaped Charge	15,645.0	15,646.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 17
5/27/2017	Shaped Charge	15,670.0	15,671.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 17
5/27/2017	Shaped Charge	15,695.0	15,696.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 17



Perforation Summary

Well Name SALADO DRAW WE 23 FED P25 002H	Lease NMNM118723	Field Name JENNINGS	Business Unit Mid-Continent	Surface UWI 3002543461	Surface ChevNo PJ8996
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Perforations													
Date	Perforation Type	Top (ftKB)	Btm (ftKB)	Phasing (°)	Gun Size (in)	Chg Sz (g)	Charge Make	Carrier Make	Shot Dens (shots/ft)	Entered Shot Total	# Shots Misfired	Perf Comp	Com
5/27/2017	Shaped Charge	15,720.0	15,721.0	120	3 1/8	22.7	Halliburton Energy Services	Halliburton	3.0	3	0	Halliburton	Stage 17
5/27/2017	Shaped Charge	15,745.0	15,746.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	6.0	6	0	Halliburton	Stage 16
5/27/2017	Shaped Charge	15,770.0	15,771.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 16
5/27/2017	Shaped Charge	15,795.0	15,796.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 16
5/27/2017	Shaped Charge	15,820.0	15,821.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 16
5/27/2017	Shaped Charge	15,845.0	15,846.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 16
5/27/2017	Shaped Charge	15,869.0	15,870.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 16
5/27/2017	Shaped Charge	15,895.0	15,896.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 16
5/27/2017	Shaped Charge	15,920.0	15,921.0	120	3 1/8	22.7	Halliburton Energy Services	Halliburton	3.0	3	0	Halliburton	Stage 16
5/26/2017	Shaped Charge	15,945.0	15,946.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	6.0	6	0	Halliburton	Stage 15
5/26/2017	Shaped Charge	15,970.0	15,971.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 15
5/26/2017	Shaped Charge	15,993.0	15,994.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 15
5/26/2017	Shaped Charge	16,020.0	16,021.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 15
5/26/2017	Shaped Charge	16,045.0	16,046.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 15
5/26/2017	Shaped Charge	16,070.0	16,071.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 15
5/26/2017	Shaped Charge	16,095.0	16,096.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 15
5/26/2017	Shaped Charge	16,117.0	16,118.0	120	3 1/8	22.7	Halliburton Energy Services	Halliburton	3.0	3	0	Halliburton	Stage 15
5/26/2017	Shaped Charge	16,145.0	16,146.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	6.0	6	0	Halliburton	Stage 14
5/26/2017	Shaped Charge	16,170.0	16,171.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 14
5/26/2017	Shaped Charge	16,195.0	16,196.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 14
5/26/2017	Shaped Charge	16,220.0	16,221.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 14
5/26/2017	Shaped Charge	16,245.0	16,246.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 14



Perforation Summary

Well Name SALADO DRAW WE 23 FED P25 002H	Lease NMNM118723	Field Name JENNINGS	Business Unit Mid-Continent	Surface UWI 3002543461	Surface ChevNo PJ8996
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Perforations

Date	Perforation Type	Top (ftKB)	Botm (ftKB)	Phasing (")	Gun Size (in)	Chg Sz (g)	Charge Make	Carrier Make	Shot Dens (shots/ft)	Entered Shot Total	# Shots Misfired	Perf Comp	Com
5/26/2017	Shaped Charge	16,270.0	16,271.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 14
5/26/2017	Shaped Charge	16,295.0	16,296.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 14
5/26/2017	Shaped Charge	16,316.0	16,317.0	120	3 1/8	22.7	Halliburton Energy Services	Halliburton	3.0	3	0	Halliburton	Stage 14
5/26/2017	Shaped Charge	16,345.0	16,346.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	6.0	6	0	Halliburton	Stage 13
5/26/2017	Shaped Charge	16,370.0	16,371.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 13
5/26/2017	Shaped Charge	16,393.0	16,394.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 13
5/26/2017	Shaped Charge	16,420.0	16,421.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 13
5/26/2017	Shaped Charge	16,445.0	16,446.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 13
5/26/2017	Shaped Charge	16,470.0	16,471.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 13
5/26/2017	Shaped Charge	16,497.0	16,498.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 13
5/26/2017	Shaped Charge	16,520.0	16,521.0	120	3 1/8	22.7	Halliburton Energy Services	Halliburton	3.0	3	0	Halliburton	Stage 13
5/25/2017	Shaped Charge	16,545.0	16,546.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	6.0	6	0	Halliburton	Stage 12
5/25/2017	Shaped Charge	16,570.0	16,571.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 12
5/25/2017	Shaped Charge	16,595.0	16,596.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 12
5/25/2017	Shaped Charge	16,620.0	16,621.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 12
5/25/2017	Shaped Charge	16,645.0	16,646.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 12
5/25/2017	Shaped Charge	16,670.0	16,671.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 12
5/25/2017	Shaped Charge	16,695.0	16,696.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 12
5/25/2017	Shaped Charge	16,720.0	16,721.0	120	3 1/8	22.7	Halliburton Energy Services	Halliburton	3.0	3	0	Halliburton	Stage 12
5/25/2017	Shaped Charge	16,748.0	16,749.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	6.0	6	0	Halliburton	Stage 11
5/25/2017	Shaped Charge	16,770.0	16,771.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 11
5/25/2017	Shaped Charge	16,795.0	16,796.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 11



Perforation Summary

Well Name SALADO DRAW WE 23 FED P25 002H	Lease NMNM118723	Field Name JENNINGS	Business Unit Mid-Continent	Surface UWI 3002543461	Surface ChevNo PJ8996
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Perforations

Date	Perforation Type	Top (ftKB)	Btm (ftKB)	Phasing (°)	Gun Size (in)	Chg Sz (g)	Charge Make	Carrier Make	Shot Dens (shots/ft)	Entered Shot Total	# Shots Misfired	Perf Comp	Com
5/25/2017	Shaped Charge	16,820.0	16,821.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 11
5/25/2017	Shaped Charge	16,845.0	16,846.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 11
5/25/2017	Shaped Charge	16,870.0	16,871.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 11
5/25/2017	Shaped Charge	16,895.0	16,896.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 11
5/25/2017	Shaped Charge	16,920.0	16,921.0	120	3 1/8	22.7	Halliburton Energy Services	Halliburton	3.0	3	0	Halliburton	Stage 11
5/25/2017	Shaped Charge	16,945.0	16,946.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	6.0	6	0	Halliburton	Stage 10
5/25/2017	Shaped Charge	16,970.0	16,971.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 10
5/25/2017	Shaped Charge	16,995.0	16,996.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 10
5/25/2017	Shaped Charge	17,020.0	17,021.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 10
5/25/2017	Shaped Charge	17,045.0	17,046.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 10
5/25/2017	Shaped Charge	17,070.0	17,071.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 10
5/25/2017	Shaped Charge	17,095.0	17,096.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 10
5/25/2017	Shaped Charge	17,120.0	17,121.0	120	3 1/8	22.7	Halliburton Energy Services	Halliburton	3.0	3	0	Halliburton	Stage 10
5/25/2017	Shaped Charge	17,145.0	17,146.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	6.0	6	0	Halliburton	Stage 9
5/25/2017	Shaped Charge	17,170.0	17,171.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 9
5/25/2017	Shaped Charge	17,195.0	17,196.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 9
5/25/2017	Shaped Charge	17,220.0	17,221.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 9
5/25/2017	Shaped Charge	17,245.0	17,246.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 9
5/25/2017	Shaped Charge	17,270.0	17,271.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 9
5/25/2017	Shaped Charge	17,295.0	17,296.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 9
5/25/2017	Shaped Charge	17,320.0	17,321.0	120	3 1/8	22.7	Halliburton Energy Services	Halliburton	3.0	3	0	Halliburton	Stage 9
5/24/2017	Shaped Charge	17,345.0	17,346.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	6.0	6	0	Halliburton	Stage 8



Perforation Summary

Well Name SALADO DRAW WE 23 FED P25 002H	Lease NMNM118723	Field Name JENNINGS	Business Unit Mid-Continent	Surface UWI 3002543461	Surface ChevNo PJ8996
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Perforations														
Date	Perforation Type	Top (ftKB)	Btm (ftKB)	Phasing (")	Gun Size (in)	Chg Sz (g)	Charge Make	Carrier Make	Shot Dens (shots/ft)	Entered Shot Total	# Shots Misfired	Perf Comp	Com	
5/24/2017	Shaped Charge	17,370.0	17,371.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 8	
5/24/2017	Shaped Charge	17,395.0	17,396.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 8	
5/24/2017	Shaped Charge	17,420.0	17,421.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 8	
5/24/2017	Shaped Charge	17,448.0	17,449.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 8	
5/24/2017	Shaped Charge	17,470.0	17,471.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 8	
5/24/2017	Shaped Charge	17,495.0	17,496.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 8	
5/24/2017	Shaped Charge	17,520.0	17,521.0	120	3 1/8	22.7	Halliburton Energy Services	Halliburton	3.0	3	0	Halliburton	Stage 8	
5/14/2017	Shaped Charge	17,545.0	17,546.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	6.0	6	0	Halliburton	Stage 7	
5/14/2017	Shaped Charge	17,568.0	17,569.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 7	
5/14/2017	Shaped Charge	17,595.0	17,596.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 7	
5/14/2017	Shaped Charge	17,620.0	17,621.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 7	
5/14/2017	Shaped Charge	17,645.0	17,646.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 7	
5/14/2017	Shaped Charge	17,670.0	17,671.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 7	
5/14/2017	Shaped Charge	17,693.0	17,694.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 7	
5/14/2017	Shaped Charge	17,720.0	17,721.0	120	3 1/8	22.7	Halliburton Energy Services	Halliburton	3.0	3	0	Halliburton	Stage 7	
5/14/2017	Shaped Charge	17,745.0	17,746.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	6.0	6	0	Halliburton	Stage 6	
5/14/2017	Shaped Charge	17,770.0	17,771.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 6	
5/14/2017	Shaped Charge	17,795.0	17,796.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 6	
5/14/2017	Shaped Charge	17,820.0	17,821.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 6	
5/14/2017	Shaped Charge	17,845.0	17,846.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 6	
5/14/2017	Shaped Charge	17,870.0	17,871.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 6	
5/14/2017	Shaped Charge	17,895.0	17,896.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 6	



Perforation Summary

Well Name SALADO DRAW WE 23 FED P25 002H	Lease NMNM118723	Field Name JENNINGS	Business Unit Mid-Continent	Surface UWI 3002543461	Surface ChevNo PJ8996
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Perforations													
Date	Perforation Type	Top (ftKB)	Btm (ftKB)	Phasing (")	Gun Size (in)	Chg Sz (g)	Charge Make	Carrier Make	Shot Dens (shots/ft)	Entered Shot Total	# Shots Misfired	Perf Comp	Com
5/14/2017	Shaped Charge	17,920.0	17,921.0	120	3 1/8	22.7	Halliburton Energy Services	Halliburton	3.0	3	0	Halliburton	Stage 6
5/13/2017	Shaped Charge	17,945.0	17,946.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	6.0	6	0	Halliburton	Stage 5
5/13/2017	Shaped Charge	17,970.0	17,971.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 5
5/13/2017	Shaped Charge	17,995.0	17,996.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 5
5/13/2017	Shaped Charge	18,020.0	18,021.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 5
5/13/2017	Shaped Charge	18,045.0	18,046.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 5
5/13/2017	Shaped Charge	18,070.0	18,071.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 5
5/13/2017	Shaped Charge	18,095.0	18,096.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 5
5/13/2017	Shaped Charge	18,120.0	18,121.0	120	3 1/8	22.7	Halliburton Energy Services	Halliburton	3.0	3	0	Halliburton	Stage 5
5/13/2017	Shaped Charge	18,145.0	18,146.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	6.0	6	0	Halliburton	Stage 4
5/13/2017	Shaped Charge	18,170.0	18,171.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 4
5/13/2017	Shaped Charge	18,196.0	18,197.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 4
5/13/2017	Shaped Charge	18,220.0	18,221.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 4
5/13/2017	Shaped Charge	18,245.0	18,246.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 4
5/13/2017	Shaped Charge	18,268.0	18,269.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 4
5/13/2017	Shaped Charge	18,295.0	18,296.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 4
5/13/2017	Shaped Charge	18,315.0	18,316.0	120	3 1/8	22.7	Halliburton Energy Services	Halliburton	3.0	3	0	Halliburton	Stage 4
5/13/2017	Shaped Charge	18,345.0	18,346.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	6.0	6	0	Halliburton	Stage 3
5/13/2017	Shaped Charge	18,370.0	18,371.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 3
5/13/2017	Shaped Charge	18,395.0	18,396.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 3
5/13/2017	Shaped Charge	18,420.0	18,421.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 3
5/13/2017	Shaped Charge	18,445.0	18,446.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 3



Perforation Summary

Well Name SALADO DRAW WE 23 FED P25 002H	Lease NMNM118723	Field Name JENNINGS	Business Unit Mid-Continent	Surface UWI 3002543461	Surface ChevNo PJ8996
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Perforations

Date	Perforation Type	Top (ftKB)	Btm (ftKB)	Phasing (°)	Gun Size (in)	Chg Sz (g)	Charge Make	Carrier Make	Shot Dens (shots/ft)	Entered Shot Total	# Shots Misfired	Perf Comp	Com
5/13/2017	Shaped Charge	18,470.0	18,471.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 3
5/13/2017	Shaped Charge	18,495.0	18,496.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 3
5/13/2017	Shaped Charge	18,520.0	18,521.0	120	3 1/8	22.7	Halliburton Energy Services	Halliburton	3.0	3	0	Halliburton	Stage 3
5/12/2017	Shaped Charge	18,545.0	18,546.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	6.0	6	0	Halliburton	Stage 2
5/12/2017	Shaped Charge	18,570.0	18,571.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 2
5/12/2017	Shaped Charge	18,595.0	18,596.0	60	3 1/8	22.7	Halliburton Energy Services	Halliburton	5.0	5	0	Halliburton	Stage 2
5/12/2017	Shaped Charge	18,620.0	18,621.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 2
5/12/2017	Shaped Charge	18,645.0	18,646.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 2
5/12/2017	Shaped Charge	18,670.0	18,671.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 2
5/12/2017	Shaped Charge	18,695.0	18,696.0	90	3 1/8	22.7	Halliburton Energy Services	Halliburton	4.0	4	0	Halliburton	Stage 2
5/12/2017	Shaped Charge	18,720.0	18,721.0	120	3 1/8	22.7	Halliburton Energy Services	Halliburton	3.0	3	0	Halliburton	Stage 2
5/6/2017	Shaped Charge	18,745.0	18,746.0	120	3 1/8	22.7	Titan Specialties Inc.	Geodynamics	3.0	3	0	Weatherford	Stage 1
5/6/2017	Shaped Charge	18,770.0	18,771.0	90	3 1/8	22.7	Titan Specialties Inc.	Geodynamics	4.0	4	0	Weatherford	Stage 1
5/6/2017	Shaped Charge	18,795.0	18,796.0	90	3 1/8	22.7	Titan Specialties Inc.	Geodynamics	4.0	4	0	Weatherford	Stage 1
5/6/2017	Shaped Charge	18,820.0	18,821.0	90	3 1/8	22.7	Titan Specialties Inc.	Geodynamics	4.0	4	0	Weatherford	Stage 1
5/6/2017	Shaped Charge	18,845.0	18,846.0	90	3 1/8	22.7	Titan Specialties Inc.	Geodynamics	4.0	4	0	Weatherford	Stage 1
5/6/2017	Shaped Charge	18,870.0	18,871.0	60	3 1/8	22.7	Titan Specialties Inc.	Geodynamics	5.0	5	0	Weatherford	Stage 1
5/6/2017	Shaped Charge	18,895.0	18,896.0	60	3 1/8	22.7	Titan Specialties Inc.	Geodynamics	5.0	5	0	Weatherford	Stage 1
5/6/2017	Shaped Charge	18,920.0	18,921.0	60	3 1/8	22.7	Titan Specialties Inc.	Geodynamics	6.0	6	0	Weatherford	Stage 1