


Noble Energy Inc.
 HIGH-PRESSURE SOLUTION INDUCTION
 SERVICES, INC.

City	State/Province	Colorado
Weld		
Wattenberg		
Id	Vista USX WW 33-08 D	
II		

SHL: 707 FNL & 2050 FEL NWNE BHL: 2002 FNL & 686 FEL SENE Sec - 33, Twp - 1N, Rge - 6W	Other Services Electricity Neutron Mitigation Elevation
--	---

CU	Elevation	5071	K.B. 5085
MB			D.F. 5074
MB			D.L. 5071
September 29, 2011	1		

	from electrical or other
	case of gross or willful
	from any interpretation
	general terms and condi
	mular volume
	Saxon
	thank you for n
	API #: 0
	No Repeat D

	7.7/10 ^a	
	Chem Gel	
	9.3/14 ^b	
	8.6/10.0	
	Flowline	
	3.46 @ 72 F	

2.76 @ 72 F	
4.14 @ 72 F	
Measure / Calc	
1.05 @ 235 F	
11.30	
2030	

State	2015 F	2016 F	2017 F	2018 F	2019 F	2020 F	2021 F	2022 F	2023 F	2024 F	2025 F	2026 F	2027 F	2028 F	2029 F	2030 F	2031 F	2032 F	2033 F	2034 F	2035 F	2036 F	2037 F	2038 F	2039 F	2040 F	2041 F	2042 F	2043 F	2044 F	2045 F	2046 F	2047 F	2048 F	2049 F	2050 F	2051 F	2052 F	2053 F	2054 F	2055 F	2056 F	2057 F	2058 F	2059 F	2060 F	2061 F	2062 F	2063 F	2064 F	2065 F	2066 F	2067 F	2068 F	2069 F	2070 F	2071 F	2072 F	2073 F	2074 F	2075 F	2076 F	2077 F	2078 F	2079 F	2080 F	2081 F	2082 F	2083 F	2084 F	2085 F	2086 F	2087 F	2088 F	2089 F	2090 F	2091 F	2092 F	2093 F	2094 F	2095 F	2096 F	2097 F	2098 F	2099 F	2100 F	2101 F	2102 F	2103 F	2104 F	2105 F	2106 F	2107 F	2108 F	2109 F	2110 F	2111 F	2112 F	2113 F	2114 F	2115 F	2116 F	2117 F	2118 F	2119 F	2120 F	2121 F	2122 F	2123 F	2124 F	2125 F	2126 F	2127 F	2128 F	2129 F	2130 F	2131 F	2132 F	2133 F	2134 F	2135 F	2136 F	2137 F	2138 F	2139 F	2140 F	2141 F	2142 F	2143 F	2144 F	2145 F	2146 F	2147 F	2148 F	2149 F	2150 F	2151 F	2152 F	2153 F	2154 F	2155 F	2156 F	2157 F	2158 F	2159 F	2160 F	2161 F	2162 F	2163 F	2164 F	2165 F	2166 F	2167 F	2168 F	2169 F	2170 F	2171 F	2172 F	2173 F	2174 F	2175 F	2176 F	2177 F	2178 F	2179 F	2180 F	2181 F	2182 F	2183 F	2184 F	2185 F	2186 F	2187 F	2188 F	2189 F	2190 F	2191 F	2192 F	2193 F	2194 F	2195 F	2196 F	2197 F	2198 F	2199 F	2200 F	2201 F	2202 F	2203 F	2204 F	2205 F	2206 F	2207 F	2208 F	2209 F	2210 F	2211 F	2212 F	2213 F	2214 F	2215 F	2216 F	2217 F	2218 F	2219 F	2220 F	2221 F	2222 F	2223 F	2224 F	2225 F	2226 F	2227 F	2228 F	2229 F	2230 F	2231 F	2232 F	2233 F	2234 F	2235 F	2236 F	2237 F	2238 F	2239 F	2240 F	2241 F	2242 F	2243 F	2244 F	2245 F	2246 F	2247 F	2248 F	2249 F	2250 F	2251 F	2252 F	2253 F	2254 F	2255 F	2256 F	2257 F	2258 F	2259 F	2260 F	2261 F	2262 F	2263 F	2264 F	2265 F	2266 F	2267 F	2268 F	2269 F	2270 F	2271 F	2272 F	2273 F	2274 F	2275 F	2276 F	2277 F	2278 F	2279 F	2280 F	2281 F	2282 F	2283 F	2284 F	2285 F	2286 F	2287 F	2288 F	2289 F	2290 F	2291 F	2292 F	2293 F	2294 F	2295 F	2296 F	2297 F	2298 F	2299 F	2300 F	2301 F	2302 F	2303 F	2304 F	2305 F	2306 F	2307 F	2308 F	2309 F	2310 F	2311 F	2312 F	2313 F	2314 F	2315 F	2316 F	2317 F	2318 F	2319 F	2320 F	2321 F	2322 F	2323 F	2324 F	2325 F	2326 F	2327 F	2328 F	2329 F	2330 F	2331 F	2332 F	2333 F	2334 F	2335 F	2336 F	2337 F	2338 F	2339 F	2340 F	2341 F	2342 F	2343 F	2344 F	2345 F	2346 F	2347 F	2348 F	2349 F	2350 F	2351 F	2352 F	2353 F	2354 F	2355 F	2356 F	2357 F	2358 F	2359 F	2360 F	2361 F	2362 F	2363 F	2364 F	2365 F	2366 F	2367 F	2368 F	2369 F	2370 F	2371 F	2372 F	2373 F	2374 F	2375 F	2376 F	2377 F	2378 F	2379 F	2380 F	2381 F	2382 F	2383 F	2384 F	2385 F
-------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------

Database File: 12577.db
Dataset Pathname: final
Elementation Format: nrt1

Dataset Creation: Charted by:		Thu Sep 29 21:11:34 2011 Depth in Feet scaled 1:240	
6	Density Caliper (in)	16	
30	Gamma Ray (GAPI)	130	
50	SP (mV)	150	
ABHV (ft)			
2	Deep Resistivity (Ohm-m)	200	Density Porosity (pu)
2	Medium Resistivity (Ohm-m)	200	Neutron Porosity (pu)
2	Shallow Resistivity (Ohm-m)	200	
2	Rt (Ohm-m)	200	

The image displays a well log plot with multiple curves plotted against depth. The curves include:

- Density Caliper (in)
- Gamma Ray (GAPI)
- SP (mV)
- ABHV (ft)
- Deep Resistivity (Ohm-m)
- Medium Resistivity (Ohm-m)
- Shallow Resistivity (Ohm-m)
- Rt (Ohm-m)
- Density Porosity (pu)
- Neutron Porosity (pu)

A vertical line at 3250 feet is labeled "2.66 SS Matrix".

