

STEAM RESERVE CORPORATION
Weekly Drilling Summary

Period: 8 a.m. 11 / 10 / 84 to 8 a.m. 11 / 17 / 84

Well: 88-11A Spud Date 11/10/84

Location: SE of SE Sec. 11 T 1S R 35E

County: Esmeralda State: Nevada

Projected Depth: 6,000' Depth: 919'

Contractor: SRC Rig: Willbros #10

Geologist: Deymonaz Drilling Supervisor Mara

Casing:	Interval	Hole Size	Casing
	<u>0-17'</u>	<u>36"</u>	<u>30"</u>
	<u>0-288'</u>	<u>26"</u>	<u>20"</u>
	_____	_____	_____
	_____	_____	_____

Hole Size: 17 1/2" From 288' To 919'

Bits: # 1 from 17 to 300 # 2 from 300 to 375 # 1 from 375 to 435; # 3 435-919'

Footage Cut: 919' Daily Average 153'

Circulating Medium: mud, 9.2 lb.

Temperature: (°F)	In	Out	Depth	Deviation	Depth
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Bit location relative to Kelly Bushing: e

Formation: Lithic crystal tuff and volcanic ss

Remarks: _____

STEAM RESERVE CORPORATION
Weekly Drilling Summary

Period: 8 a.m. 11/17/84 to 8 a.m. 11/24/84

Well: 88-11A Spud Date 11/10/84

Location: SE of SE Sec. 11 T 1S R 35E

County: Esmeralda State: Nevada

Projected Depth: 6,000' Depth: 1,926'

Contractor: SRC Rig: Willbros #10

Geologist: Deymonaz Drilling Supervisor Mara

Casing	Interval	Hole Size	Casing
	<u>0-17'</u>	<u>36"</u>	<u>30"</u>
	<u>0-288'</u>	<u>26"</u>	<u>20"</u>
	<u>0-1055'</u>	<u>17 1/2"</u>	<u>13 3/8"</u>

Hole Size: 12 1/4" From 1055' To 1926'

Bits: # 4 from 919 to 1085 # 5 from 1085 to 1504 # 6 from 1504 to 1926

Footage Cut: 1007' Daily Average 144'

Circulating Medium: mud @ 9.2lb

Temperature: (OF)	In	Out	Depth	Deviation	Depth
	<u>71</u>	<u>117</u>	<u>1085</u>		
	<u>63</u>	<u>132</u>	<u>1290</u>		
	<u>70</u>	<u>138</u>	<u>1504</u>	<u>1°</u>	<u>1478</u>
	<u>68</u>	<u>134</u>	<u>1658</u>	<u>2 1/4° N65E</u>	<u>1566</u>
	<u>68</u>	<u>128</u>	<u>1926</u>	<u>5 1/4° N65E</u>	<u>1878</u>

Bit location relative to Kelly Bushing: e

Formation: Lithic tuffs and volcan ss

Remarks: Employed turbo drill starting 1550 ft. to establish deviation.

**STEAM RESERVE CORPORATION
Weekly Drilling Summary**

Period: 8 a.m. 11 / 24 / 84 to 8 a.m. 12 / 1 / 84

Well: 88-11A Spud Date 11/10/84

Location: SE of SE Sec. 11 T 1S R 35E

County: Esmeralda State: Nevada

Projected Depth: 6,000' Depth: 4056'

Contractor: SRC Rig: Willbros #10

Geologist: Deymonaz Drilling Supervisor Mara

Casing:	Interval	Hole Size	Casing
	<u>0-17'</u>	<u>36"</u>	<u>30"</u>
	<u>0-288'</u>	<u>26"</u>	<u>20"</u>
	<u>0-1055'</u>	<u>17 1/2"</u>	<u>13 3/8"</u>

Hole Size: 12 1/4" From 1055' To 4056'

Bits: # 6 from 1504' to 2143' # 7 from 2143' to 3762' # 7 from 3762' to 4056'

Footage Cut: 2130' Daily Average 304'

Circulating Medium: Mud, 9.6 16/gal.

Temperature: (°F)	In	Out	Depth	Deviation	Depth
	<u>59</u>	<u>122</u>	<u>2143</u>	<u>8 3/4° N43E</u>	<u>2070</u>
	<u>109</u>	<u>142</u>	<u>2427</u>	<u>13 3/4° N37E</u>	<u>2393</u>
	<u>135</u>	<u>152</u>	<u>2858</u>	<u>14° N36E</u>	<u>2750</u>
Mud cooler on----- @ 3a.m.	<u>130</u>	<u>148</u>	<u>3152</u>		
	<u>135</u>	<u>156</u>	<u>3491</u>	<u>14° N37E</u>	<u>3366</u>
	<u>124</u>	<u>153</u>	<u>3762</u>	<u>14° N36E</u>	<u>3619</u>
	<u>117</u>	<u>142</u>	<u>4056</u>	<u>13 3/4° N34E</u>	<u>3991</u>

Bit location relative to Kelly Bushing: 588' N39E @ 4171'

Formation: Silicic Volcanics

Remarks: Drilling well; directional program on schedule.

STEAM RESERVE CORPORATION
Weekly Drilling Summary

Period: 8 a.m. 12 / 01 / 84 to 8 a.m. 12 / 08 / 84

Well: 88-11A Spud Date 11/10/84

Location: SE of SE Sec. 11 T 1S R 35E

County: Esmeralda State: Nevada

Projected Depth: 6,000' Depth: 5140'

Contractor: SRC Rig: Willbros #10

Geologist: Deymonaz Drilling Supervisor Mara

Casing	Interval	Hole Size	Casing
	<u>0- 17'</u>	<u>36"</u>	<u>30"</u>
	<u>0-288'</u>	<u>26:</u>	<u>20:</u>
	<u>0-1055'</u>	<u>17 1/2"</u>	<u>13 3/8"</u>

Hole Size: 12 1/4 From 4056' To 5140'

Bits: #7 from 4056' to 4572' # 8 from 4572' to 5140'

Footage Cut: 1084' Daily Average 155'

Circulating Medium: mud @ 9.7 lbs/gal

Temperature (OF)	In	Out	Depth	Deviation	Depth
	<u>113</u>	<u>140</u>	<u>4329</u>	<u>3 3/4° N31E</u>	<u>4237</u>
	<u>117</u>	<u>143</u>	<u>4558</u>	<u>4 1/2° N34E</u>	<u>4485</u>
	<u>131</u>	<u>158</u>	<u>4572</u>	<u>5 1/4° N35E</u>	<u>4547</u>
	<u>122</u>	<u>151</u>	<u>4663</u>	<u>5 1/4° N32E</u>	<u>4630</u>
	<u>119</u>	<u>138</u>	<u>4805</u>	<u>5° N31E</u>	<u>4753</u>
	<u>126</u>	<u>147</u>	<u>4948</u>	<u>5° N30E</u>	<u>4888</u>
	<u>134</u>	<u>153</u>	<u>5140</u>	<u>5 1/2° N32E</u>	<u>5013</u>

Bit location relative to Kelly Bushing: 900' N31E @ 5100'

Formation: Harkless (lower Cambrian) dominantly sandstones.

Remarks: Drilling progress slowed by need to inspect collars and subs;
shocksub replaced.

**STEAM RESERVE CORPORATION
Weekly Drilling Summary**

Period: 8 a.m. 12 / 8 / 84 to 8 a.m. 12 / 15 / 84

Well: 88-11A Spud Date 11/10/84

Location: SE of SE Sec. 11 T 1S R 35E

County: Esmeralda State: Nevada

Projected Depth: 7500' Depth: 6336'

Contractor: SRC Rig: Willbros #10

Geologist: Deymonaz Drilling Supervisor Mara

Casing	Interval	Hole Size	Casing
	<u>0-17'</u>	<u>36"</u>	<u>30"</u>
	<u>0-288'</u>	<u>26"</u>	<u>20"</u>
	<u>0-1055'</u>	<u>17½"</u>	<u>13 3/8"</u>

Hole Size: 12¼" From 1055' To 6336'

Bits: # 8 from 4572 to 5358 # 9 from 5358 to 5973 # 10 from 5973 to 6336

Footage Cut: 1196 Daily Average 171'

Circulating Medium: Mud, 9.4 lbs/gal.

Temperature: (°F)	In	Out	Depth	Deviation	Depth
	<u>126</u>	<u>148</u>	<u>5358</u>	<u>15½° N31E</u>	<u>5250</u>
		<u>174</u>	<u>"</u>	<u>15° N30E</u>	<u>5333</u>
	<u>136</u>	<u>155</u>	<u>5492</u>	<u>14 3/4° N30E</u>	<u>5507</u>
	<u>145</u>	<u>162</u>	<u>5748</u>	<u>14½° N26E</u>	<u>5657</u>
	<u>119</u>	<u>150</u>	<u>5973</u>	<u>11° N19E</u>	<u>5942</u>
	<u>143</u>	<u>169</u>	<u>6250</u>	<u>14° N9E</u>	<u>6188</u>
	<u>117</u>	<u>159</u>	<u>6336</u>	<u>15 3/4° N5E</u>	<u>6249</u>

Bit location relative to Kelly Bushing: 1060' N33°E @ 6311 (6176' vertical)

Formation: Harkless Formation, Cambrian meta sediments, dominantly silt-stones

Remarks: Minor lost circulation 5200-5492, est. 180 bbls.; Deviation satisfactorily close to specification of 1000' N23°E @ 6000' vertical depth; CO₂ and Methane buildup; replaced shock sub @ 5358'; Reduced WOB to maintain deviation

STEAM RESERVE CORPORATION
Weekly Drilling Summary

Period: 8 a.m. 12 / 15 / 84 to 8 a.m. 12 / 22 / 84

Well: 88-11A Spud Date 11/10/84

Location: SE of SE Sec. 11 T 1S R 35E

County: Esmeralda State: Nevada

Projected Depth: 8,000' Depth: 7653

Contractor: SRC Rig: Willbros #10

Geologist: Deymonaz Drilling Supervisor KELSO

Casing:	Interval	Hole Size	Casing
	<u>0 - 17'</u>	<u>36"</u>	<u>30"</u>
	<u>0 - 288'</u>	<u>26"</u>	<u>20"</u>
	<u>0 - 1055'</u>	<u>17½"</u>	<u>13 3/8"</u>

Hole Size: 12½" From 1055' To 7653'

Bits: # 10 from 6336 to 6894 # 11 from 6894 to 7625 # 12 from 7625 to 7653

Footage Cut: 1317' Daily Average 188

Circulating Medium: Mud @ 9.5 lb/gal

Temperature: (°F)	In	Out	Depth	Deviation	Depth
	<u>120 ?</u>	<u>165</u>	<u>6595</u>	<u>16½° N</u>	<u>6528</u>
	<u>145</u>	<u>172</u>	<u>6800</u>	<u>16½° N 10 W</u>	<u>6797</u>
Mud cooler off	<u>165</u>	<u>182</u>	<u>6894</u>	<u>14 3/4° N 15W</u>	<u>6869</u>
" "	<u>168</u>	<u>191</u>	<u>7112</u>	<u>13½° N 22 W</u>	<u>7087</u>
" "	<u>157</u>	<u>182</u>	<u>7361</u>	<u>10 3/4° N 31W</u>	<u>7334</u>
" "	<u>160</u>	<u>185</u>	<u>7625</u>	<u>13 3/4° N 40W</u>	<u>7535</u>
" "	<u>170</u>	<u>201</u>	<u>7653</u>	<u>15½° N 45 W</u>	<u>7628</u>

Bit location relative to Kelly Bushing: 1274' N 22° E @ 7628

Formation: Starting 6450': Frequent changes of rock type including phyllitic siltstones, dolomitic limestone, quartzitic siltstones, limestone

Remarks: Rock sequence somewhat resembles section above 88-11 production: CO₂ and methane picking up from 6800 down; no H₂S measured; recurring minor lost circulation (150 bbl, 250 bbl) starting at 7500'; probably have reservoir condition but will drill to larger lost circulation zone.

**STEAM RESERVE CORPORATION
Weekly Drilling Summary**

Period: 8 a.m. 12 / 22 / 84 to 8 a.m. 12 / 29 / 84

Well: 88-11A Spud Date 11/10/84

Location: SE of SE Sec. 11 T 1S R 35E

County: Esmeralda State: Nevada

Projected Depth: 8000' Depth: 7870'

Contractor: SRC Rig: Willbros #10

Geologist: Deymonaz Drilling Supervisor Mara

Casing	Interval	Hole Size	Casing
	<u>0-17'</u>	<u>36"</u>	<u>30</u>
	<u>0-288'</u>	<u>26"</u>	<u>20"</u>
	<u>0-1055'</u>	<u>17 1/2"</u>	<u>13 3/8"</u>

Hole Size: 12 1/4 From 1055' To 7870'

Bits: #12 from 7653 to 7870 # from to # from to

Footage Cut: 217' Daily Average 10'

Circulating Medium: mud 8.8 lb/gal

Temperature: (°F)	In	Out	Depth	Deviation	Depth
	<u>151</u>	<u>182</u>	<u>7653</u>	<u>15 3/4° N50W</u>	<u>7789</u>
	<u>155</u>	<u>184</u>	<u>7719</u>		
mud cooler off	<u>160</u>	<u>183</u>	<u>7870</u>		

Bit location relative to Kelly Bushing: 1274' N22°E @ 7628'

Formation: Phyllites and limestones

Remarks: Stuck bha 12/23, 3 days fishing; torqued back and spun off a 614' on 12/26, string dropped 16', 70 bent joints, remedied and resumed drilling on 12/29

**STEAM RESERVE CORPORATION
Weekly Drilling Summary**

Period: 8 a.m. 12 / 29 / 84 to 8 a.m. 1 / 5 / 85

Well: 88-11A Spud Date 11/10/84

Location: SE of SE Sec. 11 T 1S R 35E

County: Esmeralda State: Nevada

Projected Depth: 8589' Depth: 8589'

Contractor: SRC Rig: Willbros #10

Geologist: Deymonaz Drilling Supervisor Mara

Casing	Interval	Hole Size	Casing
	<u>0-17</u>	<u>36"</u>	<u>26"</u>
	<u>0-288'</u>	<u>26"</u>	<u>20"</u>
	<u>0-1055'</u>	<u>17 1/2"</u>	<u>13 3/8"</u>

Hole Size: 12 1/4" From 1055' To 8589'

Bits: # 12 from 7653 to 8589 # from to # from to

Footage Cut: 719' Daily Average 240

Circulating Medium: mud 9 lb/gal

Temperature: (°F)	In	Out	Depth	Deviation	Depth
	<u>162</u>	<u>193</u>	<u>8093</u>	<u>17° N50W</u>	<u>8031</u>
	<u>165</u>	<u>189</u>	<u>8329</u>	<u>16 1/4° N55W</u>	<u>8315</u>
mud cooler off	<u>170</u>	<u>193</u>	<u>8586</u>		
	<u> </u>	<u> </u>	<u> </u>		
	<u> </u>	<u> </u>	<u> </u>		
	<u> </u>	<u> </u>	<u> </u>		
	<u> </u>	<u> </u>	<u> </u>		

Bit location relative to Kelly Bushing: 1349' N10°E @ 8589'

Formation: Phyllite, siltstone, last 100' recrystallized limestone

Remarks: Complete loss of returns 8589' (took 1300 bbls), set 100' sand plug, 200' cmt plug, 10 hrs circ and cond well, commence logging 1/4/85

STEAM RESERVE CORPORATION
Weekly Drilling Summary

Period: 8 a.m. 1 / 5 / 85 to 8 a.m. / / 85

Well: 88-11A Spud Date 11/10/84

Location: SE of SE Sec. 11 T 1S R 35E

County: Esmeralda State: Nevada

Projected Depth: 6,000' Depth: 8589

Contractor: SRC Rig: Willbros #10

Geologist: Deymonaz Drilling Supervisor Mara

Casing:	Interval	Hole Size	Casing
	<u>0-17</u>	<u>36"</u>	<u>30"</u>
	<u>0-288</u>	<u>26"</u>	<u>20"</u>
	<u>0-1055</u>	<u>17 1/2"</u>	<u>13 3/8"</u>
	<u>723-8342</u>	<u>12 1/4"</u>	<u>9 5/8"</u>

Hole Size: From To

Bits: # from to # from to # from to

Footage Cut: Daily Average

Circulating Medium:

Temperature: (°F)	In	Out	Depth	Deviation	Depth
	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>

Bit location relative to Kelly Bushing: @

Formation:

Remarks: Completed logging 1/7; completed casing and cementing 1/10; rigged for
flow test; drilled out plug 1/11; commenced unloading well with air.

STEAM RESERVE CORPORATION
Weekly Drilling Summary

Period: 8 a.m. 1 / 12 / 85 to 8 a.m. 1 / 19 / 85

Well: 88-11A Spud Date 11/10/84

Location: SE of SE Sec. 11 T 1S R 35E

County: Esmeralda State: Nevada

Projected Depth: 8589 Depth: 8589

Contractor: SRC Rig: Willbros #10

Geologist: Deymonaz Drilling Supervisor Day

Casing:	Interval	Hole Size	Casing
	<u>0-17</u>	<u>36"</u>	<u>30"</u>
	<u>0-288</u>	<u>26"</u>	<u>20"</u>
	<u>0-1055</u>	<u>17 1/2"</u>	<u>13 3/8"</u>
	<u>723-8342</u>	<u>12 1/4"</u>	<u>9 5/8"</u>

Hole Size: _____ From _____ To _____

Bits: # _____ from _____ to _____ # _____ from _____ to _____ # _____ from _____ to _____

Footage Cut: _____ Daily Average _____

Circulating Medium: _____

Temperature: (°F)	In	Out	Depth	Deviation	Depth
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Bit location relative to Kelly Bushing: _____ e _____

Formation: _____

Remarks: Temporary flow 1/13; commenced rig down; rig released 1/18; preparing for sustained flow test - scheduled to start 1/28