

**McCulloch Geothermal Corporation**



January 9, 1980

Dee C. Hansen, State Engineer  
State of Utah  
Department of Natural Resources  
Division of Water Rights  
200 Empire Building  
231 East 400 South  
Salt Lake City, Utah 84111

Dear Mr. Hansen:

Enclosed is the well driller's report for McCulloch's  
Acord #1-26 well, Sec. 26, T26S, R10W, Beaver County,  
Utah. Also enclosed are copies of the well history,  
mud log and electric logs.

We trust this information will be kept in confidential  
status.

Sincerely,

*A. J. McNay*  
A. J. McNay  
Well Driller

AJMcN/ALS/als

Enc.

Date	Depth	Remarks
3-22-79		Location - 1320.00' from sough line and 1322.21' from west line, Sec. 26, T26S, R10W, SLM. Moving in rig.
3-23-79		Rigging up.
3-24-79		3/24/79---3/26/79 Rigging up.
3-27-79		3/27/79---3/29/79 Rigging up.
3-30-79		Rigging up. Will spud Saturday.
3-31-79		Rigging up.
4-01-79	615'	1 day. Chalk and clay. MW 8.8#/g. Vis 43. Spudded at 1:30 PM 3/31/79. Drilled from 50-615'. Lost 400 bbls of mud between 350-400'. Survey at 200' - 1/4°; at 505' - 1/2°. MT in 71°, out 77°.
4-02-79	1,130'	2 days. Clay. MW 9.2#/g. Vis 45. Drilled 615-1130'. Conditioned hole. POOH. Ran 28 jts 13-3/8" 54.5# K-55 buttress casing. Set casing at 1100'. B & W guide shoe at 1100'. B & W stab-in float at 754' - 1-1/4°; at 1130' - 2°. MT in 38°, out 87° Prep to cement casing.
4-03-79	1,130'	3 days. Mud: water. WOC. Installed wellhead. Installing BOPE. Cemented <del>9-5/8"</del> casing with 404 sx (856 cf) Class "G" cement with 1:1 Perlite, 40% silica flour, .5% CFR-2, 3% gel, followed by 200 sx (324 cf) Class "G" cement with 40% silica flour, .5% CFR-2. CIP at 8:30 AM 4/2/79. 150 sx cement returns to surface.
4-04-79	1,665'	4 days. Clay and claystone. ME 8.6#/g. Vis 33. Installed BOPE. Tested casing and BOPE to 1500#. O.K. RIH with 12-1/4" bit. Cleaned out cement 1055-1100'. Drilled 1130-1665'. Survey at 1447' - 2°. MT in 83°, out 96°.
4-05-79	2,780'	5 days. Sand and clay. MW 8.8#/g. Vis 34. Drilled 1665-2780'. Survey at 1840' 0 1-1/2°, at 2251' - 1-1/2°, at 2650' - 2-1/4°. MT in 95°, out 103°.
4-06-79	3,500'	6 days. Claystone and sandstone. MW 8.8#/g. Vis 35. Drilled 2780-3434'. Made trip for new 12-1/4" bit. Drilled 3434-3500'. Survey at 3025- 1/4°. MT in 110°, out 118°.

Acord #1-26  
Milford Prospect  
Beaver County, Utah

Date	Depth	Remarks
4-07-79	3,925'	7 days. Claystone and sandstone. MW 9.2#/g. Vis 34. Drilled 3500-3925'. Survey at 3770' - 1-1/2°. MT in 107°, out 119°.
4-08-79	4,110'	8 days. Claystone. MW 9.2#/g. Vis 34. Drilled 3925-4000'. Made trip for new 12-1/4" bit. Drilled 4000-4110'. Survey at 4000' - 1/2°. MT in 116°, out 128°.
4-09-79	4,585'	9 days. Claystone and sand. MW 9.4#/g. Vis 38. Drilled 4110-4585'. Survey at 4415' - 1°. BHT - 165°. MT in 118°, out 130°. Lost approx. 10 bbls. mud/hr. from 4320-4550'.
4-10-79	5,125'	10 days. Sand and volcanics. MW 9.2#/g. Vis 32. Survey at 4798' - 1/2°. Temp: 164° and 181°. Drilled 4585-5125'. MT in 114°, out 129°.
4-11-79	5,300'	11 days. Sand and siltstone. MW 9.2#/g. Vis 33. Drilled 5125-5271'. Made trip for new 12-1/4" bit. Drilled 5271-5300'. Survey at 5172' - 1-1/4°; temp 171°. MT in 118°, out 128°.
4-12-79	5,484'	12 days. Siltstone and clay. MW 9.2#/g. Vis 34. Drilled 5300-5484'. MT in 130°, out 142°.
4-13-79	5,810'	13 days. Sand and siltstone. MW 9.2#/g. Vis 37. Made trip for new 12-1/4" bit. Drilled 5484-5810'. Survey at 5484' - 3/4°. Survey at 5764' - 1-1/2°, temp 180°. MT in 131°, out 141°.
4-14-79	6,110'	14 days. Sand and siltstone. MW 9.3#/g. Vis 35. Drilled 5810-5980'. Made trip for new 12-1/4" bit. Drilled 5980-6110'. MT in 130°, out 138°.
4-15-79	6,335'	15 days. Sand and siltstone. MW 9.2#/g. Vis 34. Drilled 6110-6250'. Made trip for new 12-1/4" bit. Cleaned out 50' of fill. Drilled 6250-6335'. Survey at 6137' - 3/4°, temp 181°. MT in 131°, out 138°.
4-16-79	6,716'	16 days. Sand. MW 9.2#/g. Vis 34. Drilled 6335-6716'. Survey at 6446' - 1/2°, temp 188°. Survey at 6716' - 1/2°, temp 197°. MT in 133°, out 143°.
4-17-79	6,816'	17 days. Sand. MW 9.1#/g. Vis 34. Waited on. Kelly hose. Drilled 6716-6816'. MT in 133°, out 144°.

Acord #1-26  
Milford Prospec.  
Beaver County, Utah

Date	Depth	Remarks
4-18-79	7,191'	18 days. Sand. MW 9.2#/g. Vis 36. Drilled 6816-7191'. Survey at 7036' - 1/4°; temp 200°, 212°, and 215°. MT in 138°, out 150°.
4-19-79	7,500'	19 days. Formation: volcanics and sand. MW 9.1 Vis 36. MT in 144°, out 155°. Survey at 7378' - 1 1/2°; temp. 213°.
4-20-79	7,900'	20 days. Mud weight 9.1. Visc. 36. Drilled 7500-7900'. Survey 7690'. 1/2°. Temp. 224, 224, 230. Mud temp. in 146, out 155.
4-21-79	7,924'	24' footage. 21 days. MW 9.24/gallon. Visc. 37. Drilled 7900-7924'. Circ'd. Pulled out of hole. Ran temp. log and DIL. Running density log. 6-hour temperature 216, 216, 9-hour temp. 234, 234, 230, 12-hour temp. 240, 238, 240.
4-22-79	7,924'	0 footage. 22 days. MW 9.1, Visc. 37. Ran density log and temp. log. 18-hour temp. 256, 258, 260. 27 1/2-hour temp. 276, 276, 274. Ran in hole w/12 1/4" bit. Cond. mud. Pulled out of hole.
4-23-79	7,924'	23 days. MW 9.0. Visc. 32. Pulled out of hole. Ran 89 joints of 9 5/8" casing. 7909.01' total depth. Ran 34 joints 9 5/8" 47# Buttress casing (1398'). 37 joints 1526' 9 5/8" 43.5# N-80 Buttress casing. 58 joints 2524' 9 5/8" 40# L-80 Buttress casing and 34 joints 2454' 9 5/8", 40# K-55 Buttress casing. BNW guide shoe at 7906'. BNW float collar at 7822'. BNW stage collar 3974'. BNW stage collar 1,066'. Casing landed at 7906'. Circulated. Cemented 9 5/8" casing. First stage. Pumped 100 CF water, 100 CF pre-flush. 886 sacks 1868 CF Class G cement with 1 to 1 perlite. 40% silica flour. 3% gel. .5% CFR 2. 1% halade 22A. .1% HR 7. Displaced cement with 587 barrels mud. Bumped plug. Cement in place 2:40 a.m. 4/23/79. Open stage collar 3974 with 1,000 PSI. Circulated excess cement. WOC.

Date	Depth	Remarks
4-24-79	7,924'	24 days. MW 9.1#/g. Vis 37. WOC. Cemented through stage collar at 3974' with 894 sx (1896 cft) Class G cement, 1:1 perlite, 40% silica flour, .5% CFR-2, 3% gel, 1% Halad-22A. 130 bbls cement returns to surface. Plug bumped but did not close stage collar. Held pressure on casing. CIP at 11:00 A.M. 4/23/79. Will not be able to pen stage collar at 1066'. Unable to do third stage cement job. Raised BOPE. Set WKM centralizer-packoff around 9-5/8" casing. WOC.
4-25-79	7,924'	25 days. MW 8.7#/g. Vis 40. Installed wellhead and BOPE. Tested casing and BOPE to 1000#. O.K. RIH with 8-1/2" bit. Cleaned out cement 1060-1066'. Tested casing at 1000#. O.K. RIH to top of cement at 3836'. Prep to clean out cement.
4-26-79	8,120'	26 days. Basalt. MW 8.8#/g. Vis 38. Cleaned out cement 3836-3974'. Pressure tested stage collar with 1000#. O.K. RIH to 7820'. Cleaned out cement 7820-7906'. Drilled 7924'8120'. POOH. MT in 145°, out 163°.
4-27-79	8,240'	27 days. Basalt and sandstone. MW 8.6#/g. Vis 33. POOH. Replaced rotary table. RIH with 8-1/2" bit. Reamed 60'. Drilled 8120-8240'. Survey at 8120'-2°. MT in 131°, out 147°.
4-28-79	8,475'	28 days. Sandstone. MW 8.7#/g. Vis 32. Drilled 8240-8475'. Survey at 8289' - 1-3/4°, temp 250°. MT in 141°, out 154°.
4-29-79	8,730'	29 days. Sandstone. MW 8.8#/g. Vis 35. Drilled 8475-8730'. Survey at 8600' - 1-1/2°, temp 261°. MT in 140°, out 153°.
4-30-79	8,965'	30 days. Sandstone. MW 9.1#/g. Vis 34. Drilled 8730-8965'. Survey at 8818' - 1-1/4°, temps 260° and 266°. MT in 160°, out 159°.
5-01-79	9,103'	31 days. Sandstone. MW 9.0#/g. Vis 33. Drilled 8965-9003'. Made trip for new 8-1/2" bit. Reamed 70'. Drilled 9003-9103'. Survey at 9003' - 1-3/4". MT in 144°, out 152°.

Date	Depth	Remarks
5-02-79	9,230'	32 days. Sandstone. MW 9.1#/g. Vis 33. Drilled 9102-0230'. Drill collars parted. POH. Top of drill collar fish at 8720'. Wait on fishing tools. MT in 142°, out 159°.
5-03-79	9,235'	33 days. MW 9.0#/g. Vis 36. RIH with overshot. POOH and recovered fish. RIH with new 8-1/2" bit. Drilled 9230-9235'.
5-04-79	9,256'	34 days. Formation: Sandstone. MW 9.0#/gal. Vis. 38. Drilled 9235'-9256'. Pulled bit into casing shoe. 21 hrs. repairing rig. MT in 145°, out 155°.
5-05-79	9,380'	Footage 124'. 35 days. Formation sandstone. MW 9.1#/gal. Visc. 36. Finished rig repairs. Drilled 9256-9380'. Survey 9346' 2° 45". Temp. 270 and 280. Mud temp. in 158, out 164.
5-06-79	9,560'	Footage 180' 36 days. Formation sandstone. MW 9.0#/gal. Visc. 35. Mud temp. in 153, out 162.
5-07-79	9,590'	Footage 30' 37 days. Sandstone and siltstone. MW 9.1#/gal. Visc. 35. Drilled 9560-9564'. P Pulled out of hole. Checked drill collars. Found two bad collars. Installed flow line valve. Ran in hole with new 8 1/2" bit. Drilled 9564-9590'. Mud temp. in 145, out 158. 9564-9590' losing approximately 5 to 10 barrels/hour of mud to formation.
5-08-79	9,780'	38 days. Sandstone. MW 9.1#/gal. Vis. 37. Survey @ 9657' - 4-1/4°, temperature 298°. Drilled 9590'-9780'. MT in 154°, out 162°. No fluid loss to formation.
5-09-79	9,962'	40 days. Sandstone. MW 9.0#/gal. Vis 36. Drilled 9780'-9962'. Survey @ 9813' - 4°, temperature 285° and 295°. MT in 157°, out 169°. Gained approximately 1 to 2 bbls. mud per hr. from 9910'-9950'.

Acord #1-26  
Milford Prospect  
Beaver County, Utah

Date	Depth	Remarks
5-10-79	10,057'	41 days. Sandstone, MW 9.0#/gal. Visc. 36. Drilled 9962-9989'. Made trip for new 8 1/2" bit. Drilled 9989-10,057'. Mud temp. before trip in 161 out 172. Mud temp. at report time, in 152 out 162.
5-11-79	10,175'	42 days. Sandstone and conglomerate. MW 9.1#/g. Vis 36. Repaired rig. Drilled 10,057-10,175'. Survey at 10,155' - 3 <sup>0</sup> , temp 313 <sup>0</sup> and 305 <sup>0</sup> . MT in 159 <sup>0</sup> , out 169 <sup>0</sup> . Hole making approx. 1-4 bbls/hr of fluid.
5-12-79	10,375'	43 days. Conglomerate. MW 9.1#/g. Vis 37. Drilled 10,175-10,375'. MT in 164 <sup>0</sup> , out 176 <sup>0</sup> . Lost 3-8 bbls/hr of mud from 10,260-13,350'.
5-13-79	10,480'	44 days. Conglomerate and silica. MW 9.2#/g. Vis 36. Drilled from 10,375-10,415'. Made trip for new 8-1/2" bit. Drilled 10,415-10,480'. MT in 158 <sup>0</sup> , out 169 <sup>0</sup> .
5-14-79	10,660'	45 days. Conglomerate. MW 9.2#/g. Vis 36. Drilled from 10,480-10,660'. Making trip for new 8-1/2" bit. MT in 162 <sup>0</sup> , out 172 <sup>0</sup> . Lost 8-10 bbls/hr of mud from 10,510-10,600'.
5-15-79	10,835'	46 days. Conglomerate. MW 9.2#/g. Vis 37. RIH with 8-1/2" bit. Drilled 10,660-10,835'. MT in 165 <sup>0</sup> , out 178 <sup>0</sup> . Gained 1-3 bbls./hr of fluid from 10,780-10,810'.
5-16-79	10,905'	46 days. Quartz monzonite. MW 9.1#/g. Vis 35. Drilled 10,835-10,898'. Made trip for new 8-1/2" bit. Drilled 10,898-10,905'. Survey at 10,898 - 2-1/4 <sup>0</sup> . MT in 161 <sup>0</sup> , out 170 <sup>0</sup> . Gained 3-4 bbls/hr of fluid 10,835-10,898'.
5-17-79	11,110'	47 days. Quartz monzonite. MW 9.2#/g. Vis 36. Drilled 10,905-11,110'. MT in 171 <sup>0</sup> , out 179 <sup>0</sup> . Lost 1-4 bbls/hr 10,950-11,070'. Gained 1-4 bbls/hr of fluid 11,070-11,108'.
5-18-79	11,145'	48 days. Quartz monzonite. MW 9.2#/g. Vis 36. Drilled 11,110-11,112'. POOH. Strung up blocks with 10 lines. RIH with 8-1/2" bit. Drilled 11,112-11,145'. MT in 152 <sup>0</sup> , out 170 <sup>0</sup> .

Date	Depth	Remarks
5-19-79	11,310'	49 days. Quartz monzonite. MW 9.1#/g. Vis 35. Drilled from 11,145-11,310'. Survey at 11,271' - 5-1/4 <sup>0</sup> , temp 325 <sup>0</sup> . MT in 176 <sup>0</sup> , out 188 <sup>0</sup> . Lost 1-9 bbls/hr of fluid from 11,170-11,290'. Lost 30 bbls on survey at 11,271'.
5-20-79	11,330'	50 days. Quartz monzonite. MW 9.0#/g. Vis 34. Ran Agnew & Sweet temperature survey. Max. temp. 302 <sup>0</sup> 5-1/2 hrs after circulation. Drilled 11,310- 11,322'. Made trip for new 8-1/2" bit at 11,322'. Drilled 11,322-11,330'. MT in 135 <sup>0</sup> , out 144 <sup>0</sup> .
5-21-79	11,452'	51 days. Quartz monzonite. MW 9.1#/g. Vis 38. Drilled 11,330-11,452'. Conditioned hole for logs. POOH. Rigging up to run logs. MT in 165 <sup>0</sup> , out 178 <sup>0</sup> . Lost 1-4 bbls/hr of fluid from 11,326- 11,452'.
5-22-79	11,452'	52 days. Logging. Sonic survey 7906-11,451'. Temp 9-1/2 hrs after circulating - 335 <sup>0</sup> . Ran temp survey 0-11,451'. Temp from survey 371 <sup>0</sup> 18 hrs. after circulating. Ran DIL 7906-11,451'. Temp 366 <sup>0</sup> 24 hrs after circulating. Reran temp survey 9-11,451'. Temp from survey 375 <sup>0</sup> , from thermometers 382 <sup>0</sup> 31-1/2 hrs after circulating. Lost 25-35 bbls/mud to formation while logging.
5-23-79	11,535'	53 days. Quartz monzonite. MW 9.1#/g. Vis 37. Finished running temp. log. RIH with new 8-1/4" bit. Drilled 11,452-11,535'. MT in 167 <sup>0</sup> , out 177 <sup>0</sup> .
5-24-79	11,681'	54 days. Quartz monzonite. MW 9.1#/g. Vis 35. Drilled 11,535-11,681'. Making trip for new 8-1/2" bit. MT in 162 <sup>0</sup> , out 174 <sup>0</sup> .
5-25-79	11,805'	55 days. Quartz monzonite. MW 9.1#/g. Vis 38. RIH. Drilled 11,681-11,805'. MT in 167 <sup>0</sup> , out 177 <sup>0</sup> . CO <sub>2</sub> - 9000-2400 ppm. Lost 1-9 bbls/hr of mud 11,725-11,801'.
5-26-79	11,916'	56 days. Quartz monzonite. MW 9.0#/g. Vis 34. Drilled 11,805-11,916'. Made trip for new 8-1/2" bit. MT in 175 <sup>0</sup> , out 185 <sup>0</sup> . Max temp while circulating - 190 <sup>0</sup> . Lost 7 bbls/hr while circulat- ing 3 hrs.
5-27-79	12,072'	57 days. Quartz monzonite. MW 9.1#/g. Vis 38. RIH. Drilled 11,916-12,072'. MT in 173 <sup>0</sup> , out 185 <sup>0</sup> . Lost 1-4 bbls/hr of fluid 11,917-12,060'.



Date	Depth	Remarks
5-28-79	12,144'	58 days. Quartz monzonite. MW 9.1#/g. Vis 36. Drilled 12,072-12,144'. Circulated hole. Stopped circulation at 7 p.m. 5/27/79. POOH. Ran temp and caliper survey twice. Stopped both times at 8226'. Ran temp tool. Tool failed at 8430'. Survey at 12,082 - 4-1/4°. MT in 179°, out 189°. Lost 1-3 bbls/hr while drilling and circulating.
5-29-79	12,144'	59 days. Ran temp survey 7906-12,144'. Survey no good. Thermometer readings 370°, 370°, 374° 14-1/2 hrs. after circulating. Ran Gamma Ray Neutron Survey 7906-12,144'. Thermometer readings 378°, 378°, 381° 16-1/2 hrs after circulating. Ran Density Survey. Tool failed. Ran temp survey 7906-12,144'. Max. temp 389°; after 5 min. 410°. Thermometer readings 394°, 394° 26-1/2 hrs. after circulating. Ran temp survey 7906-12,144'. Max temp 413°; 5 min 423°. Thermometer readings 401°, 401°, 402° 36 hrs. after circulating. Lost approx. 15 bbls of mud while logging.
5-30-79	12,244'	60 days. MW 9.2#/g. Vis 37. Ran caliper log. Stopped at 8234'. RIH with 8-1/2" bit. Drilled 12,144-12,244'. MT in 178°, out 191°. Losing 1-2 bbls/hr of mud.
5-31-79	12,337'	61 days. Quartz monzonite. MW 9.2#/g. Vis 36. Drilled 12,244-12,337'. Making trip for new 8-1/2" bit. 8 hrs. repair pump drive shaft. MT in 185°, out 203°. Losing 1-2 bbls/hr while drilling.
6-01-79	12,437'	62 days. Quartz Monzonite. MW 9.2#/g. Vis 37. Finshied trip. Drilled 12,337-12,427'. MT in 176°, out 184°. Gained 30 bbls of fluid on trip at 12,337'. Losing 1-3 bbls/hr while drilling.
6-02-79	12,562'	63 days. Quartz monzonite. MW 9.3#/g. Vis 38. Drilled 12,437-12,562'. Making trip for new 8-1/2" bit. MT in 178°, out 194°. Losing 1-2 bbls/hr of mud while drilling.
6-03-79	12,617'	64 days. Quartz schist. MW 9.1#/g. Vis 38. Finished trip. Reamed 12,392-12,562'. Drilled 12,562-12,617'. MT in 172°, out 184°. Gained 20 bbls of fluid during trip. No loss while drilling.
6-04-79	12,646'	65 days. Schist. MW 9.0#/g. Vis 36. Drilled 12,617-12,646'. Conditoned hole for logs. POOH. Ran Temperature Caliper Log 7906-12,646'. BHT 375°. Thermometer readings 366°, 366°, 368°. Log on bottom 10 hrs 50 min after circulating. Ran Density Log 7906-12,646'. Thermometer readings 376°, 376°, 380°. Log on bottom 13-1/2 hrs after circulating. Running

Date	Depth	Remarks
		Gamma Ray Neutron Log. MT in 181 <sup>0</sup> , out 190 <sup>0</sup> . Hole took 12 bbls of fluid while logging.
6-05-79	12,646'	66 days. MW 9.1#/g. Vis 38. Ran Gamma Ray Neutron Log 12,000-12,646'. Thermometer reading 385 <sup>0</sup> , 386 <sup>0</sup> , 386 <sup>0</sup> 17-3/4 hrs after circulation. Ran temperature log 7906-12,646'. Maximum reading 412 <sup>0</sup> . 437 <sup>0</sup> after setting on bottom 10 min. Thermometer reading 400 <sup>0</sup> and 402 <sup>0</sup> 24-1/2 hrs. after circulating. RIH with open-ended drill pipe to 11,454'. Circulating.
6-05-79	12,646'	66 days. MW 9.1#/g. Vis 38. Ran Gamma Ray Neutron Log 12,000-12,646'. Thermometer reading 385 <sup>0</sup> , 386 <sup>0</sup> , 386 <sup>0</sup> 17-3/4 hrs after circulation. Ran temperature log 7906-12,646'. Maximum reading 412 <sup>0</sup> . 437 <sup>0</sup> after setting on bottom 10 min. Thermometer reading 400 <sup>0</sup> and 402 <sup>0</sup> 24-1/2 hrs. after circulating. RIH with open-ended drill pipe to 11,454'. Circulating.
6-06-79	12,646'	67 days. MW 9.0#/g. Vis 37. Circulated and conditioned mud at 11,454'. Pulled to 7900'. Wait on cementers. RIH with open-ended drill pipe at 11,464'. Cemented with 23 sx (49 cft) Class G cement, 1:1 perlite, 40% silica flour, 3% gel, .5% CFR-2 plus retarder. CIP at 7:40 p.m. 6/5/79. Pulled to 11,350'. Circulated. WOC. Located top of cement plug at 11,353'. POOH.
6-07-79	12,646'	68 days. MW 8.9#/g. Vis 33. Ran 91 jts (3667.77') 7" 29# N-80 LT&C liner. Hung liner at 11,350' with top of liner hanger at 7676.66'. B & W float shoe at 11,349' and float collar at 11,308'. Cemented liner with 543 sx (1151 cft) class "G" cement, 1:1 perlite, 40% silica flour, 3% gel, .5% CFR-2, .2% HR-7, 1% Halad 22 A. Displaced with 910 cft of mud. Cement set up. Lacked 460 cft of displacement. CIP at 10:25 P.M. 6/6/79. Pulled out of liner. Circulated 2 hrs. POOH.
6-08-79	12,646'	69 days. MW 8.8#/g. Vis 29. Laid down 49 stands 4-1/2" drill pipe. RIH with 8-1/2" bit to top of liner. No cement. Tested liner lap with 1500 psi for 15 min. O.K. POOH: Picking up 3-1/2" drill pipe.

Date	Depth	Remarks
6-09-79	12,646'	70 days. MW 8.5#/g. Vis 34. Picked up 3-1/2" drill pipe. Cleaned out cement 9117-9300'.
6-10-79	12,646'	71 days. MW 8.5#/g. Vis 35. Cleaned out cement 9300-9584'. Made trip for new 6" bit. Cleaned out cement 9584-9720'.
6-11-79	12,646'	72 days. MW 8.5/G. Vis 34. Cleaned out cement 9720-10,884'.
6-12-79	12,646'	73 days. Cleaned out cement 10,884-11,310'. Tested liner at 1500# for 15 min. O.K. Cleaned out cement to 11,350'. Cleaned out cement plug 11,350-11,450'. RIH to 12,646'. 8' of fill. Circulated hole clean. Changing over to water.
6-13-79	12,646'	74 days. Finished displacing hole with water. POOH. Laying down drill pipe.
6-14-79	12,646'	75 days. Finished laying down drill pipe and drill collars. Removed BOP. Installed 10" 600 Series steam valves. Released rig at 11 p.m. 6/13/79. Rig on standby. Rigging up to test well.
6-15-79	12,646'	76 days. Installed testing equipment.
6/16/79	12,646'	77 days. Installing test equipment.
6-17-79	12,646'	78 days. Rigged up Nowsco. RIH with coil tubing. Displaced water in hole with nitrogen to 5600'. Maximum temperature 180°.
6-18-79	12,646'	79 days. Ran coil tubing to 7676', top of 7" liner. Displaced water with nitrogen. Water temperature 200°. Wellhead pressure 100#. Unable to work tubing in liner. POOH.
6/19/79	12,646'	80 days. RIH with coil tubing to 7676', top of liner. Started to blow well with nitrogen. Found 2 holes in coil tubing. POOH with coil tubing. Prep to run temperature and pressure survey. Changing coil tubing units.

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Milford Prospect  
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Date	Depth	Remarks
6-20-79	12,646'	81 days. Ran Agnew and Sweet pressure and temperature Surveys. Stopped at 11,610'. Temperature at 11,610' - 394°. Temperature at 11,365' - 387°. Fluid level estimated at 6700'. Pressure bomb failed. Reran pressure survey. Stopped at 11,568'. Pressure at 11,568' - 1932#. Pressure at 11,365' - 1848#. Fluid level at 6650'. Rigging up Nowsco coil tubing unti.
6-21-79	12,646'	82 days. RIH with Nowsco coil tubing to 7700'. Started pumping nitrogen. RIH with tubing to 11,250'. Recovered no fluid. Stopped nitrogen. Pulled to 6600'. Started pumping nitrogen at 1000 cf/min. RIH to 7300'. Well unloaded water. RIH to 11,025' while pumping nitrogen. Well made fluid from 7300-10,300'. Well began loading up. Maximum water temp 180°. Pulled tubing to 8000' while pumping nitrogen. Shut off nitrogen. Well unloaded water. Max temp 210°. Well making small amount of steam. Temp 205°.
6-22-79	12,646'	83 days. Wait on nitrogen.
6-23-79	12,646'	84 days. RIH to 8200' with coil tubing. Started pumping nitrogen at 900 cf/min. RIH to 11,472', top of bridge. Cleaned out to 11,476'. Unable to clean out bridge. POOH. Rigged down Nowsco. Rigged down test equipment.
6-24-79	12,646'	85 days. Rigged down test equipment. Installing BOP.
6-25-79	12,646'	86 days. Installed BOP and rotating head. Took rig off standby at 7:00 A.M. 6/25/79. Picking up drill collars.
6-26-79	12,646'	87 days. Picked up drill pipe. Circulating at 11,350' with water.
6-27-79	12,646'	88 days. MW 8.5#/g. Vis 35. RIH with 6" bit. Cleaned out bridges from 11,540-12,295' with water. Stuck drill pipe at 12,295'. Worked drill pipe loose. Mudded up. Cleaned out 12,295-12,646'. Circulated hole clean. Pulled up to 7" liner.
6-28-79	12,646'	89 days. Pulled inside 7" liner. Waited 1-1/2 hrs. RIH to 12,646'. No fill. Circulated. Pulled into liner. Cleaned pits. RIH to 12,646'. Changed over from mud to water. Pulled to 2000'. Installing test lines.

Date	Depth	Remarks
6-29-79	12,646'	90 days. Rigged up test equipment. Started blowing well dry with air at 2000'. Temp 140°. 3500' - 1550, 4500' - 1500, 5500' - 1500, 6841' - 1500, 7854' - 1500. Bit jets plugged. POOH. Removed plugged jets. RIH. Blowing well dry at 6200'.
6-30-79	12,646'	91 days. RIH to 6476'. Started blowing well with air. Water temp 175°. RIH to 8525'. Blew well. Water temp 150°. RIH to 10,574'. Unable to lift water. Pulled to 9922'. Blew well. Water temp 150°. RIH to 11,219'. Unable to lift water. Pulled to 10,557'. Blew well. Water temp 170°. RIH to 11,313'. Blew well. Water temp 175°. RIH to 12,616'. No bridges. Pulled to 11,350'. Blew well. Recovered no fluid.
7-01-79	12,646'.	92 days. Rigged down test line. Installed flow line. Mixed mud. Laid down drill pipe.
7-02-79	12,646'	93 days. Laid down drill pipe and drill collars. Filled hole with mud. With drill pipe at 1200', cemented with 100 sx Class "H" cement, 2% CaCl <sub>2</sub> . CIP at 1:10 P.M. 7/1/79. Located top of cement at 1000'. POOH. With drill pipe at 50', cemented with 20 sx Class "H" cement, 2% CaCl <sub>2</sub> . CIP at 6:30 P.M. 7/1/79.
7-03-79		94 days. Loaded out equipment. Released rig at Noon, 7/2/79.