

THERMOGENETICS, INC.
GEOTHERMAL WELL HISTORY

CONFIDENTIAL

WELL NAME Klau Mines K1A FIELD The Klau Mines
SECTION 1, TOWNSHIP 10N, RANGE 8W, M.D.B & M, COUNTY Lake STATE California
DATE _____ SIGNED J. Copman
TITLE Drilling Engineer

DATE: 1978

12/14/77 to RIG: Big "O" Drilling Company, Inc. Rig No. 2.
1/20/78

PUMPS: 1 IDECO M600 with 1 set fo GMC 6-110 twin 600 hp.
2 National C 250 with 1 set of GMC 6-110 twin 600 hp.

DRAWWORKS: National 75CA Double Drum.

DERRICK: 127' late style bender 450,000 G.N.C.

SUBSTRUCTURE ELEVATION: All measurements taken from top of Kelly Bushing which is 23' above ground level.

CONDUCTOR PIPE: 26" conductor was set at 57' in a 30" hole by Judd Drilling of Richmond, CA.

FORMATION: Sepentine and greywacke.

1/20 Depth 57': Finished rigging up and spudded well at 10:55 am. Date 1/20/78.

1/21 Depth 241': Drilled 184' of 17 1/2" hole to 241' with mud.

1/22 Depth 361': Drilled 120' of 17 1/2" hole to 361' with mud. Preparing to open 17 1/2" hole to 24 1/2" hole.

1/23 Depth 361': Opening 17 1/2" hole to 24 1/2" hole at 141'.

1/24 Depth 361': Opening 17 1/2" hole to 24 1/2" hole at 239'.

1/25 Depth 361': Opening 17 1/2" hole to 24 1/2" hole at 259'.

1/26 Depth 361': Opening 17 1/2" hole to 24 1/2" hole at 269'.

1/27 Depth 361': Opening 17 1/2" hole to 24 1/2" hole to 295'. Pulled out of hole and changed hole opening to 22". Opened hole to 22" down to 361'. Pulled out of the hole and picked up 24 1/2", opened 22" hole to 24 1/2" at 301'.

1/28 Depth 361': Finished opening hole to 24 1/2" to 357'. Circulated and conditioned with mud for casing. Rigged up and ran 9 joints of 20", H-40 conductor casing, 94 lb/ft., plain-end line pipe casing. Set shoe at 347' due to fill on bottom. Rigged up Halliburton and cemented casing with 375 sacks of class "G" cement blended with 3% CaCl₂ displaced with 35 cu. ft. of water. Cement in place at 5:50 am. Had good cement returns to surface. Cementing done through drill pipe.

1/29 Depth 361': Waiting on cement. Cut off 26" conductor and 20" casing, welded on 20" casing head. Nippled up blow our preventors.

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1/30 Depth 504': Finished nipping up blow out preventors. Tagged top of cement at 345'. Closed hydril. Test 20" casing, wellhead, and hydril to 250 psi for 15 minutes. Held good. Drilled out cement and shoe. Drilled 157' of 17 1/2" hole to 504' with mud.

1/31 Depth 717': Drilled 213' of 17 1/2" hole to 717' with mud.

2/1 Depth 985': Drilled 268' of 17 1/2" hole to 985' with mud.

2/2 Depth 1300': Drilled 315' of 17 1/2" hole to 1300' with mud.

2/3 Depth 1428': Drilled 128' of 17 1/2" hole to 1428' with mud.

2/4 Depth 1622': Drilled 194' of 17 1/2" hole to 1622' with mud.

2/5 Depth 1782': Drilled 160' of 17 1/2" hole to 1782' with mud.

2/6 Depth 1954': Drilled 172' of 17 1/2" hole to 1954' with mud.

2/7 Depth 2164': Drilled 210' of 17 1/2" hole to 2164' with mud.

2/8 Depth 2310': Drilled 146' of 17 1/2" hole to 2310' with mud.

2/9 Depth 2473': Drilled 163' of 17 1/2" hole to 2473' with mud.

2/10 Depth 2564': Drilled 91' of 17 1/2" hole to 2564' with mud.

2/11 Depth 2703': Drilled 139' of 17 1/2" hole to 2703' with mud.

2/12 Depth 2819': Drilled 116' of 17 1/2" hole to 2819' with mud.

2/13 Depth 2904': Drilled 85' of 17 1/2" hole to 2904' with mud.

2/14 Depth 2952': Drilled 48' of 17 1/2" hole to 2952' with mud. Pulled out of the hole and ran Eastman multi-shot survey. Prepare to run 13 3/8" casing.

2/15 Depth 2952': Rigged up and running 13 3/8" casing. Run 2952', 74 joints of K-55 surface casing, 54.5 lb/ft., 13 3/8" casing. Shoe at 2952', float collar at 2889'. Pump in 300 cubic feet of water. Mix and pump in 1776 sacks of class "G" cement with 1-1 perlite, 40% silica flour, 3% Gel and 0.5% CFR-2 followed by 185 sacks of class "G" cement with 40% silica flour and 0.5% CFR-2. Release top plug and displace with 2428 cubic feet of mud and water. Cement in place at 2:50 pm.

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- 2/16 Depth 2952': Cut off 13 3/8" casing. Weld wellhead on casing. Nippling up blow out preventors.
- 2/17 Depth 2952': Finished nippling up blow out preventors. Running in hole and tagged top of cement at 2646'.
- 2/18 Depth 2952': Tested blow out preventors stack for 15 minutes to 700 psi. Held ok. Drill cement with 12 1/4" bit from 2643' to 2664'.
- 2/19 Depth 3069': Drilled cement from 2664' to 2952'. Float at 2885' and shoe at 2952' were drilled out. Drilled 117' of 12 1/4" hole to 3069' with mud.
- 2/20 Depth 3210': Drilled 141' of 12 1/4" hole to 3210' with mud.
- 2/21 Depth 3342': Drilled 132' of 12 1/4" hole to 3342' with mud. Survey at 3321'.
- 2/22 Depth 3496': Drilled 154' of 12 1/4" hole to 3496' with mud. Survey at 3444'. Survey at 3496'.
- 2/23 Depth 3588': Drilled 92' of 12 1/4" hole to 3588' with mud. Lost 150-250± barrels (42 gallons/barrel) of mud at 3565'.
- 2/24 Depth 3707': Drilled 119 12 1/4" hole to 3707' with mud. Surveyed at 3690'.
- 2/25 Depth 3833': Drilled 47' 12 1/4" hole to 3754' with mud. Circulated at 2852'. Reamed from 3739' to 3754'. Drilled 74' of 12 1/4" hole to 3833' with mud. Survey at 3818'.
- 2/26 Depth 3881': Drilled 48' fo 12 1/4" hole to 3881' with mud. Survey at 3879'.
- 2/27 Depth 3953': Reamed from 3866' to 3881'. Drilled 72' of 12 1/4" hole from 3881' to 3953' with mud.
- 2/28 Depth 4085': Drilled 132' of 12 1/4" hole to 4085' with mud. Survey at 3966'. Survey at 4058'.
- 3/1 Depth 4180': Drilled 95' of 12 1/4" hole to 4180' with mud. Logging at 4180'.
- 3/2 Depth 4180': Finished induction and temperature log. Running in hole and clean out fill from 4165' to 4180'. PULLED out of hole, survey out at 4176', 3902', 3622', 3339', and 3059'. Rig to run 9 5/8" casing.
- 3/3 Depth 4180': Run 9 5/8" casing (N-80, 40 lb/ft., buttress thread, 1461.37 ft. of casing) casing hanger at 2704' and shoe at 4180'. Pumping in 200 cubic feet H₂O, mix and pump 376 sacks class "G" cement with 1-1 perlite and 40% Silica flour and 3% Gez and 0.75% CFR-2 plus 0.2% HP-7. Followed by 125 sacks class "G" cement with 40% silica flour

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- 3/3 continued Depth 4180': plus 0.75% CFR-2 plus 0.4% HR-7. Displaced with 827 cubic feet of mud. Cement in place at 7:00 am. Test liner to 900 psi. Held OK. Nippling up for air.
- 3/4 Depth 4180': Finish nippling up. Change from 12 1/4" to 8 3/4" bit.
- 3/5 Depth 4180': Blow hole dry at 555'. Stage in hole and blow dry at 1111'. Pulled out of hole to unplug bit and dropped bottom hole assembly in hole. Tagged top of fish at 2649' and recovered same. Tear out rotary head to rig for mud.
- 3/6 Depth 4180': Circulate and clean out hole. Stage in hole.
- 3/7 Depth 4180': Continued to circulate. Pulled out of hole to unplug float sub, stabilizers and drill collars. Re-nippling for air. Running in hole and blow hole clear of water.
- 3/8 Depth 4519': Finished blowing hole dry. Drilled 339' of 8 3/4" hole to 4159' with air. Survey at 4476'. Started misting with 3-4 barrels soap.
- 3/9 Depth 4745': Drilled 226' of 8 3/4" hole to 4745' with air. Survey at 4594'.
- 3/10 Depth 5021': Reamed from 4533' to 4745'. Drilled 276' of 8 3/4" hole to 5021' with air. Surveyed 4914'. Weight reduced to 10,000 at 5011'.
- 3/11 Depth 5154': Drilled 110' of 8 3/4" hole to 5131' with air and surveyed. Drilled 23' of 8 3/4" hole to 5154' and surveyed.
- 3/12 Depth 5262': Reamed from 4990' to 5147'. Drilled 115' of 8 3/4" hole to 5262' with air. Surveyed at 5247'.
- 3/13 Depth 5373': Drilled 111' of 8 3/4" hole to 5373' with air. Surveyed at 5341'. Pulled out of the hole and then went in and reamed from 5015' to 5070'.
- 3/14 Depth 5573': Finished reaming from 5070' to 5373'. Drilled 190' of 8 3/4" hole to 5563' with air.
- 3/15 Depth 5721': Drilled 158' of 8 3/4" hole to 5721' with air. Surveyed at 5659'. Reamed from 5512' to 5571'.
- 3/16 Depth 5839': Finished reaming from 5571' to 5721'. Drilled 118' of 8 3/4" hole to 5839' with air. Surveyed at 5782'. Ream from 5815' to 5835'.
- 3/17 Depth 5907': Drilled 68' of 8 3/4" hole to 5907' with air. Surveyed at 5907'.

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- 3/18 Depth 6127': Ream from 5690' to 5906'. Drilled 220' of 8 3/4" hole to 6127' with air. Survey at 5908'. Survey at 6093'.
- 3/19 Depth 6310': Drilled 183' of 8 3/4" hole to 6310' with air. Survey at 6217'. Ream from 5959' to 6079'.
- 3/20 Depth 6475': Finished reaming from 6079' to 6295'. Drilled 165' of 8 3/4" hole to 6475' with air. Survey at 6406'.
- 3/21 Depth 6665': Drilled 150' of 8 3/4" hole to 6665 with air.
- 3/22 Depth 6938': Ream from 6365' to 6665'. Drilled 273' of 8 3/4" hole to 6938' with air.
- 3/23 Depth 7100': Drilled 162' of 8 3/4" hole to 7100' with air. Ran temperature log. (Agnew & Sweet)
- 3/24 Depth 7100': Finished temperature survey. Run in to shoe and pump water in hole.
- 3/25 Depth 7100': Finished pumping water in hole. Set plug at 4600'. Mix and pump 84 sacks class "G" cement with 40% silica flour plus 0.75% CFR-2. Pump 20 cubic feet water behind. Cement in place at 7:00 pm. Open end on drill pipe band at 4562'. Wait on cement.
- 3/26 Depth 7100': Run in hole to 4421' and set formation plug. Pull out of hole. Run in hole open end drill pipe to 4376' and rig up Haliburton. Lay sand plug at 4472'. Bridge plug at 4515'. Pump in 40 sacks sand and mix and plug through open end drill pipe 84 sacks class "G" cement with 40% silica flour plus 0.75% CFR-2 followed with 20 cubic feet of water. Cement in place at 9:00 am. Rig Haliburton to cement plug at 4439'. Run in hole to feel for plug. Plug at 4472'. Pull out of hole to shoe and wait on cement. Run in hole to 4376' open end drill pipe, pump in sand plug. (40 sacks) Feel for sand plug. Plug at 4416'. Mix and pump cement plug at 4376' and 4097'. Layed two cement plugs 4376' and 4097' through open end drill pipe. Mix and pump 84 sacks class "G" cement with 1-1 perlite plus 40% silica flour plus 3% GEZ plus 0.75% CFR-2. First plug in place at 7:20 pm; second plug in place at 7:40 am. Followed with 20 cubic feet of water. Wait on cement.
- 3/27 Depth 4207': Feel for cement. Top of cement at 4039'. Drilled out cement 4039' to 4207'. Feel for plug at 4442'. Run in hole to 4439' and pump cement. Cement through open end drill pipe at 4439'. Mix and pump in 100 sacks class "G" cement, 100 sacks sand, plus 25 sacks perlite with 2% CaCl₂ plus 0.75% CFR-2. Displaces with 300 cubic feet water. Pull out of hole to 3986'. Wait on cement.

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- 3/27 continued Depth 4207': Feel for cement at 3993'. Clean out cement from 3993' to 4275'. Circulate and condition mud.
- 3/28 Depth 4325': Cleaned out cement from 4275' to 4325'. Rig to cement at 4314'. Open end drill pipe hung at 4314'. Pump in 300 cubic feet of water. Mix and pump in 98 sacks class "G" cement with 15% silica flour, 15% sand, 0.75% CFR-2, 0.3% HR-7 displaced with 240 cubic feet water. Cement in place at 8:20 am. Pull out of hole to 3755' to wait on cement. Feel for plug. Top at 4159'. Pull out of hole and wait on cement. Run in hole and polish off cement to 4181'. Circulate and condition mud.
- 3/29 Depth 4210': Finish circulating and conditioning mud. Drilled cement from 4180' to 4210'. Survey at 4181'. Dyna drill to start shoulder at 4210'. 8 3/4" hole with mud.
- 3/30 Depth 4283': Dyna drill 8 3/4" hole (73') to 4283' with mud. Survey and orient tool at 4225'. Survey and orient tool at 4251'.
- 3/31 Depth 4402': Dyna drill 119' of 8 3/4" hole to 4402' with mud. Survey at 4336'. Pull out of hole on even stand.
- 4/1 Depth 4528': Survey at 4402'. Dyna drill 126' of 8 3/4" hole to 5428' with mud. Pull out of hole and wait on orders.
- 4/2 Depth 4528': Run in hole and ream from 4210' to 4528'. Magna flux drill collar, subs, and stabilizer.
- 4/3 Depth 4928': Blow hole dry from 990' to 4552'. Drill 8 3/4" hole (376') to 4928' with mud. Survey at 4772'. Survey at 4928'.
- 4/4 Depth 5253': Ream from 4904' to 4928'. Drill 310' of 8 3/4" hole from 4943' to 5253' with air. Survey at 5221'.
- 4/5 Depth 5442': Drilled 130' of 8 3/4" hole to 5383'. Reamed from 5280' to 5383'. Drilled 59' of 8 3/4" hole from 5383' to 5442' with air.
- 4/6 Depth 5767': Drilled 385' of 8 3/4" hole to 5767' with air. Survey at 5535'. Survey at 5659'.
- 4/7 Depth 5767': Pulled out of the hole. Change bit and stabilizers. Run in the hole, stuck at 5650'. Got pipe lose. Reaming from 5682' to 5697' pin on Kelly saver sub twisted off and string fell down hole. Trip for fishing tools. Run in hole with overshot, engaged fish at 115'. Pulled up. Rig up lay down machine and layed down 132 joints of bent drill pipe.

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- 4/8 Depth 5767': Milling from 5255' to 5257'. Pull out of the hole. Make up fishing tools and engaged fish. Pulled out of the hole with same.
- 4/9 Depth 5767': Lay down fish. Recovered one 6-1/4" drill pipe tool joint, two cross over subs and three 6-1/2" drill collars. Run in hole and set on fish at 5336'. Pulled out of hole, recovered 11 drill collars, 2 stabilizers and 1 cross over. Break down fishing tool. Run in hole with mill and mill on fish at 5735' to 5736'. Pull out of the hole and make up fishing tools.
- 4/10 Depth 5767': Run in hole and engaged fish. Chain out, no recovery. Run in hole and mill from 5737' to 5740'. Run in hole to fish. Chain out, no recovery. Make up sizing mill and run in hole.
- 4/11 Depth 5767': Run in hole and mill. Pull out of hole and run in hole with overshot. Got over fish and jarring on same. Pull out of hole with overshot, it had pulled off top of fish at 5740'. Rig and run temperature gage. Work over fish and jar at 5737'.
- 4/12 Depth 5767': Finish jarring on fish. Rig up McCullough to run free point and ran same. Run in with string shot. Run in no good, it stopped at 2780'. Run spud bar, OK. Run string shot and stopped at 2370'. Try to back off fish.
- 4/13 Depth 5767': With drill pipe at 5700'± and 5340'±, set 2 equal plugs. Pumped in 330 cubic feet sump water. Mix and pump 112 sacks class "G" cement 1:1:1 perlite plus sand 0.75% CFR-2 displaced with 375 cubic feet and 330 cubic feet water. Cement in place at 2:22 pm and 2:45 pm. From drill hung at 5210', pumped 500 cubic feet of sump water, followed by 500 cubic feet fresh water. Mixed and pumped 98 sacks class "G" cement blended with 15% silica flour and 15% sand and 0.75% CFR-2. Displaced with 350 cubic feet fresh water. Cement in place at 11:15 pm.
- 4/14 Depth 5767': Pull out of the hole and wait on cement.
- 4/15 Depth 5084': Stage in well and blow hole dry. Make up Whipstock and run in hole. Drilling off Whipstock from 5077' to 5084'.
- 4/16 Depth 5089': Finish drilling off Whipstock. Pull out of the hole and blow well dry. Open Whipstock hole from 6 1/2" to 8 3/4". Pull out of hole and measure out. Run in hole and drill off Whipstock at 5087' to 5089'. Pull out of hole.
- 4/17 Depth 5728': Run in hole and drill off face of Whipstock. Circulate and clean out hole at 5092'. Orient pipe and drill off face of Whipstock at 5723'.

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- 4/18 Depth 5136': Drilling off Whipstock from 5128' to 5134'. Pull out of hole and run in hole with 2 point hole opener to 5129'. Open hole from 5129' to 5136'. Pull out of hole.
- 4/19 Depth 5144': Run in hole with Whipstock and drill off same from 5128' to 5144'. Run in hole with hole opener and open hole from 5139' to 5144'. (6 1/2" to 8 3/4"). Survey at 5143'. Run in hole with reamer and ream from 5137' to 5144'. Drill from 5144' to 5145'. Pull out of hole.
- 4/20 Depth 5196': Make up Whipstock and drill off face from 5145' to 5196'. Pull out of hole. Make up dyna drill assembly. Run in hole.
- 4/21 Depth 5204': Dyna drill with water from 5149' to 5158'. No returns. Pull out of hole and try to break circulation at 3900'. Orient dyna drill and drill from 5159' to 5204' with no returns.
- 4/22 Depth 5348': Wait on water. Dyna drill from 5204' to 5237' with water. Pull out of hole, run in hole in stages and blow hole dry at 1200'. Pull out of hole, run in hole in stages and blow hole dry at 2000'. Pull out of hole, run in hole in stages and blow hole dry at 3200'. Pull out of hole, run in hole in stages and blow hole dry at 4686'. Ream from 5059' to 5237'. Drill 111' of 8 3/4" hole to 5348' with air. Survey at 5307'.
- 4/23 Depth 5581': Drilled 62' of 8 3/4" hole to 5410' with air. Survey at 5410'. Ream from 5124' to 5410'. Drilled 171' of 8 3/4" hole to 5581' with air. Surveys at 5490' and 5581'.
- 4/24 Depth 5800': Drilled 93' of 8 3/4" hole to 5674' with air. Pull out of hole. Ream from 5409' to 5674'. Drilled 126' of 8 3/4" hole to 5800' with air. Survey at 5768'.
- 4/25 Depth 6189': Drilled 398' of 8 3/4" hole to 6198' with air. Circulate and survey at 5862'. Circulate and survey at 5894'. Pull out of hole.
- 4/26 Depth 6508': Run in hole and ream from 5916' to 6169'. Drilled 310' of 8 3/4" hole to 6508' with air. Circulate and surveyed at 5979'. Circulate and surveyed at 6070'. Circulate and surveyed at 6198'. Circulate and surveyed at 6305'.
- 4/27 Depth 6773': Drilled 265' of 8 3/4" hole to 6773' with air. Reamed from 6578' to 6695'. Circulated and surveyed at 6587'.

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- 4/28 Depth 7212': Drilled 439' of 8 3/4" hole to 7212' with air. Circulated and surveyed at 6776'. Circulated and surveyed at 6870'. Circulated and surveyed at 6955'. Circulated and surveyed at 7052'. Pulled out of the hole.
- 4/29 Depth 7308': Stuck pipe at 7082'. Pulled to 6925'. Ream from 6925' to 7212'. Drilled 96' of 8 3/4" hole to 7308' with air.
- 4/30: Depth 7579': Drilled 271' of 8 3/4" hole to 7579' with air. Circulated and surveyed at 7304'. Circulated and surveyed at 7409'. Circulated and surveyed at 7501'. Pulled out of hole. Shut well in (25 psi). Wait on temperature loggers.
- 5/1 Depth 7579': Rig to run temperature survey and run same.
- 5/2 Depth 7634': Finished running temperature survey. Run in hole and blow well dry every 8 strands. Ream at 7492' to 7579'. Drilled 55' of 8 3/4" hole to 7634' with air.
- 5/3 Depth 7953': Drilled 319' of 8 3/4" hole to 7953' with air. Circulated and surveyed at 7657'. Circulated and surveyed at 7816'. Circulated and surveyed at 7953'. Pull out of hole.
- 5/4 Depth 8097': Finished pulling out of hole. Run in hole and ream from 7803' to 7953'. Drilled 144' of 8 3/4" hole to 8097' with air. Circulate and survey at 8091'.
- 5/5 Depth 8254': Drilled 142' of 8 3/4" hole to 8239' with air. Survey at 8129'. Ream from 8088' to 8234'. Drilled 15' of 8 3/4" hole to 8254' with air.
- 5/6 Depth 8595': Drilled 341' of 8 3/4" hole to 8595' with air. Circulate and survey at 8286'. Pull out of the hole.
- 5/7 Depth 8719': Finished pulling out of the hole. Run in the hole to ream from 8531' to 8595'. Drilled 124' of 8 3/4" hole to 8719' with air. Circulate and survey at 8696'.
- 5/8 Depth 8849': Drilled 125' of 8 3/4" hole to 8844' with air. Pull out of hole. Run in hole to ream from 8684' to 8844'. Drilled 5' of 8 3/4" hole to 8849' with air.
- 5/9 Depth 9119': Drilled 270' of 8 3/4" hole to 9119' with air. Pulled out of hole.

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- 5/10 Depth 9275': Run in hole to ream from 8899' to 9119'. Drilled 156' of 8 3/4" hole to 9275' with air. Pulled out of the hole.
- 5/11 Depth 9275': Finished pulling out of the hole. Wait on loggers to run temperature survey. Run same.
- 5/12 Depth 9275': Running temperatures log. Wire line broke. Rig spear on sandline. Recovered wire line and temperature tools. Suspended operations on May 12, 1978. Rig released at 12:30 midnight, May 12, 1978.