GTLT - ____9___

(13&36)-11N-1W Sunoco Energy Development Corporation (Bernalillo County)

10-76-6 & 10-76-7

					Form G-	103
CT	90	2	· C		Adopted	10/1/74

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File 2	1	
N. M. B. M.	1	ļ.
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Operator	1	
Land Office		

NEW MEXICO OIL CONSERVATION COMMISSION

DISTRIBUTION			P. O. Box 20	088, Santa Fe 87501	
File 2	1	1		·	
N. M. B. M.	1		SUNDRY NOT	ICES AND REPORTS	
9 . G. S	1			ON	5. Indicate Type of Lease
Operator	1		GEOTHERMAL	RESOURCES WELLS	State Fee X
Land Office					5.a State Lease No.
Do Not Use This Form for For Permit —" (Form G-10)	Propos 1) for	als to Such i	Drill or to Deepen or Plug Back t Proposals.)	to a Different Reservoir. Use "Application	
1. Type of well Geot	hermal	Produ	ucer Temp. Observatio	on X	7. Unit Agreement Name · ·
Low-	Temp	Therm	nal 🔲 Injection/Disposal	ı 🗆	NONE
2. Name of Operator					8. Farm or Lease Name
SUNOCO ENE	RGY	DEV	ELOPMENT_CORPORATION		Alameda Grant
3. Address of Operator					9. Well No.
12700 PARK	CENT	RAL	PLACE, SUITE 1500, D	DALLAS, TX 75251	6
4. Location of Well				- ·	10. Field and Pool, or Wildcat
Unit Letter			400 Feet From The SOU	TH Line and 200 Feet From	NONE
:					
TheL	ine. Se	ction	13 Township	11N. IW. NMPM.	
	,				
	1111.	1111	15. Elevation (Show wh	hether DF, RT, GR, etc.)	12. County
			5610' (G.	L.)	Bernalillo
16.		Check	Appropriate Box To Indicate	e Nature of Notice, Report or Other Da	ta
NOTIC	E OF	INTEI	NTION TO:	SUBSEQUE	NT REPORT OF:
PERFORM REMEDIAL WO	rk []	PLUG AND ABANDON	REMEDIAL WORK	ALTERING CASING
TEMPORARILY ABANDON	v [COMMENCE DRILLING OPNS.	PLUG & ABANDONMENT
PULL OR ALTER CASING			CHANGE PLANS	CASING TEST AND CEMENT JOB	רח
				S. S	_
				OTHER	
OTHER			[

17. Describe Proposed or completed Operations (Clearly state all pertinent details, and give pertinenet dates, including estimated date of starting any proposed work) SEE RULE 203.

> This hole location was dropped from our drilling program and will not be drilled in the near future.

PROJECT SUPERVISOR SIGNED TITLE GEOTHERMAL SERVICES, INC.	9-10-78
APPROVED BY Carl Ulung TITLE SENIOR PETROLEUM GEOLOGIST CONDITIONS OF APPROVAL, IF ANY:	DATE 10-3-78

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Operator	1		
Land Office			Ì

NEW MEXICO OIL CONSERVATION COMMISSION P. O. Box 2088, Santa Fe 87501

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SUNDRY	NOTICES	AND	REPORT	rs
	ON			,
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5. Indi	cate	Туре	of	Lease	
State				Fee	X

S. G. S	1		ON .		5. Indicate Type of Lease
Operator	1	GEOTHERMA	L RESOURCES WELLS		State Fee X
Land Office				Ī	5.a State Lease No.
	-l!	I		1	
Do Not Use This Form for For Permit —" (Form G-101		Drill or to Deepen or Plug Back Proposals.)	to a Different Reservoir. Use "	'Application	
1. Type of well Geott	nermal Prod	ucer Temp. Observati	on [X]		7. Unit Agreement Name
Low-	Temp Therm	nal Injection/Dispos	at 🗀		none
2. Name of Operator					8. Farm or Lease Name
SUNOCO ENERG	Y DEVE	LOPMENT CORPORATI	ION	[Alameda Grant
3. Address of Operator					9. Well No.
12700 Park C	entral	Place., Suite 13	500, Dallas, TX 7	75251	10-76-6
4. Location of Well					10. Field and Pool, or Wildcat
Unit Letter M		400 Feet From The Sou	th Line and 200	Feet From	none
				NМРМ.	
		15. Elevation (Show w 5610 ft		1	12. County Bernalillo
16.	Check	Appropriate Box To Indica	te Nature of Notice, Report	or Other Data	a
NOTIC	E OF INTE	NTION TO:	1.	SUBSEQUEN	T REPORT OF:
PERFORM REMEDIAL WO			REMEDIAL WORK	0000000000	ALTERING CASING
TEMPORARILY ABANDON	<u></u>		COMMENCE DRILLI	VG OPNS	PLUG & ABANDONMENT
VILL OR ALTER CASING		CHANGE PLANS	CASING TEST AND		
			OTHER		
OTHER					• • • • • • • • • • • • • • • • • • • •
17. Describe Proposed or conproposed work) SEE RU	•	perations (Clearly state all perti	inent details, and give pertinen	et dates, includ	ling estimated date of starting any

The drilling of Temperature Observation Well has been postponed until Mid-1977. Anticipated start-up date will be August 1, 1977.

We will notify your office approximately two weeks prior to equipment move-in; until then this project is on inactive status.

APPROVAL VALID 180 DAYS UNLESS DRILLING COMMENCED 1,0/11

	EXPIRES 10/	/19/11
I hereby certify that the information above is true and cor	титье Chief Geologist,	
CONDITIONS OF APPROVAL, IF ANY:	Geothermal Services, TITLE SENIOR PETROLEUM GEOLOGIST	

€ 1	•		r		• • •	Form G-101 Adopted 10/1/
	, NE	w MEXICO OIL CONSER				
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.M	APPI	ICATION FOR PERM	IT TO DRILL, DEEPE		STATE [
perator /	1		MAL RESOURCES WI	,	5.a State Le	ase No.
and Office		•				~~~~
					7//////	
a. Type of Work Drill 🔀	•	Deepen 🗌	Plug Back 🔲			eement Name
. Type of Well Geotherm	al Producer 🔲	Te	emp Observation 🗶		8. Farm or I	one
Low-Temp	_		ection/Disposal			
		· '			Alamec 9. Well No.	la Grant
Name of Operator SUNOCO ENERGY I	DEVELOPMENT	CORPORATION			10-7	26 6
Address of Operator	DEVELOT FIGHT	COID ORALION	•			d Pool, or Wildcat
12700 Park Cent	tral Pl Si	uite 1500. Da	llas, TX 752	51		one
		TED 400 FEET FE		LINE	111111	
· ONT LETTE	ERLOCA	160 <u>-55</u> -661 F	ROM THE STATE	LINE		
ND 200 FEET FROM T	HEWEST LINE OF	SEC. 13 TWP. 11	V. RGE. 1W.	NMPM		
					12. County	
				111111	Bernali	110////////////////////////////////////
			19. Proposed Depth	19A. Formation		20. Rotary or C.T.
			500 ft	unkno		rotary
. Elevations (Show whether DF, I	RT. etc.) 21A. Kine	d & Status Plug. Bond 2	21B. Drilling Contractor	unkno		x. Date Work will start
5610 ft (GI			Geothermal Se	rvices	Oct.	1, 1976
	F	PROPOSED CASING AND	CEMENT PROGRAM			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF	CEMENT	EST. TOP
5-1/8"	3/4"	1.14#	500'	1.		6" BGL
	•		• .			
	Dromnom C	loo ottoobod l	IIC+ and and Cha	1 1 av. Ma	mn	no Chadiant
•		lole Drilling	"Standard Sha	TIOM 16	mperatu	re Gradient
			9			
	Note A - 1	ype of bond w	will be #\$10,	000 Mul	tiple-W	ell Low-
			ell or Geothe is in the pro			
•		bond number	will be furn	ished a	s soon	as available
			ions commence			
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W.	•				•	
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BOVE SPACE DESCRIBE PROP Give blowout preventer program		proposal is to deepen or	plug back, give data on p	resent produc	tive zone and	proposed new productive
eby certify that the information a	bove is true and com	plete to the best of my ki	nowledge and belief.			•
W Strol XI	ue Al	my Chief Coo	Geothe		Cant	1 1076
" May fr	Y	Title United Geo.	logist,Servic	es, inc	sept.	1,13/0
(This space for State	e Usej					
Carl 1.	0	crnius i	PETROLEUM GEOLOGIST		91	27/16
ROVED BY Carl U	wog	TITLE SEMION		D	ATE	~1/16

ROVED BY Carl Clong
DITIONS OF APPROVAL, IF ANY:

P. O. BOX 2088 SANTA FE 87501

Form G-102 Adopted 10/1/7

GEOTHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION PLAT

All distances must be from the outer boundaries of the Section. Well No. Lease Sunoco Energy Development Corp. Alameda Grant 10-76-6 County Range Bernalillo 1W. 11N. Actual Footage Location of Well: 400 200 West South feet from the line and feet from the Dedicated Acreage: Producing Formation Ground Level Elev. Pool None None None 5,610 ft. Acres 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one lease of different ownersip is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc? If answer is "yes," type of consolidation___ ☐ No If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission. CERTIFICATION I hereby certify that the information contained herein is true and complete to ny knowledge and belief. Steve Quiett Position Chief Geologist Geothermal Services, Inc. Date September 1, 1976 I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief. Date Surveyed W1/4,5W1/4 Registered Professional Engineer and/or Land Surveyor Certificate No.



GEOTHERMAL SERVICES, INC.

7860 CONVOY COURT, SAN DIEGO, CALIFORNIA 92111 • (714) 565-4712



STANDARD SHALLOW TEMPERATURE GRADIENT HOLE DRILLING PROGRAM (500'/150m; Rubber Tired Equipment; Rotary/Mud)

- 1. Coordinate "Special Stipulations" or other unusual requirements with the Project Geologist prior to set-up and spud.
- 2. Choose location and orientation of drilling rig so as to minimize surface disturbance.
- 3. Drill 4" to 6" hole to maximum depth of 500'/150m. Take cuttings samples, cores, etc. at direction of Project Geologist.
- 4. If drilling with mud, use regular Bentonite drilling mud. No toxic additives are to be used in drilling fluids without permission of Project Geologist. Have supply of lost circulation material available. Use portable mud pits unless specifically directed otherwise.
- 5. Have a supply of Barite available in case of artesian flow. If artesian flow is encountered, comply with United States Geological Survey's Stipulations.
- 6. Mud return temperature shall be measured and recorded on "Drilling History" every 10'/3m.
 - a. If temperature reaches 120°F/50°C, STOP DRILLING and circulate for 30 minutes, monitoring mudtemperature and pit volume for possible hot artesian flow. If no flow, run pipe at this depth after logging is completed.
 - b. If there is a sudden increase in temperature of the drilling mud (several degrees in only a few feet) STOP DRILLING and circulate for 30 minutes, monitoring mud temperature and pit volume for possible hot artesian flow. If no flow, continue drilling CAUTIOUSLY, keeping a careful watch on return temperature of drilling fluid. In no case shall drilling continue after mud return temperature reaches 120°F/50°C.

- 7. Run pipe immediately after running electric logs or reaching T.D. (if hole is not logged).
 - a. Install cap on bottom of first length of pipe. (If using steel pipe, seal each joint with teflon tape to ensure watertight).
 - b. Steel pipe must be used when air temperature is 40°F or below, as PVC cement will not adhere.
 - c. Steel pipe must be used if drilling fluid temperature exceeds 100°F/40°C.
 - d. When pipe is landed, top must be 6" to 12"/
 15cm to 30cm below ground level. (Cut and thread as necessary).
 - e. Fill pipe with <u>CLEAN</u> <u>WATER</u> (water that is oily or contains solvents such as gasoline <u>MUST</u> <u>NOT</u> be used) and install cap. Do not seal.
 - f. Set paper, rag or dirt bridge down open annulus at least 10'/3m below ground level. Fill annulus with cement up to base of cap on pipe.
- 8. Clean up location THOROUGHLY.
- 9. Any excavated pits or sumps must be backfilled to conform to the original topography.
- 10. When temperature surveys are completed, fill pipe with cement from 10'/3m to top of pipe, fill excavation to original ground topography and restore location as nearly as possible to original condition.

NO. OF COPIES RECEIVED NEW MEXICO OIL CONSERVATION COMMISSION	O n :
DISTRIBUTION P. O. Box 2088, Santa Fe 87501	OCT - 2 1978
File / IV	~ 1318
N. M. B. M. SUNDRY NOTICES AND REPORTS	
G. S ON	5. Indicate Type of Lease State Fee X
Operator / GEOTHERMAL RESOURCES WELLS	5.a State Lease No.
Land Office	3.a State Dease 140.
Do Not Use This Form for Proposals to Drill or to Deepen or Plug Back to a Different Reservoir. Use "Application For Permit —" (Form G-101) for Such Proposals.)	
1. Type of well Geothermal Producer Temp. Observation	7. Unit Agreement Name
Low-Temp Thermal	NONE '
2. Name of Operator	8. Farm or Lease Name
SUNOCO ENERGY DEVELOPMENT CORPORATION	Alameda Grant
3. Address of Operator	9. Well No.
12700 PARK CENTRAL PLACE, SUITE 1500, DALLAS, TX 75251	10. Field and Pool, or Wildcat
Unit Letter N 800 Feet From The SOUTH Line and 1500 Feet From	NONE
TheLine, Section36Township1NRange 1WNMPM.	
11. Elevation (Show whether DF, RT, GR, etc.)	12. County
5600' (G.L.)	Bernalillo
Check Appropriate Box To Indicate Nature of Notice, Report or Other Da	ita
	NT REPORT OF:
PERFORM REMEDIAL WORK PLUG AND ABANDON REMEDIAL WORK	ALTERING CASING L
COMMENCE DRILLING OPNS.	☐ PLUG & ABANDONMENT L
CASING TEST AND CEMENT JOB	
OTHER	
OTHER	
17. Describe Proposed or completed Operations (Clearly state all pertinent details, and give pertinenet dates, incli	uding estimated date of starting any
proposed work) SEE RULE 203.	
This hole location was dropped from our drilling program	and will not
be drilled in the near future.	
	•
	·
I hereby certify that the information above is true and complete to the best of my knowledge and belief.	
PROJECT SUPERVISOR	
IGNED COUNTY TITLE GEOTHERMAL SERVICES, INC.	DATE 9/10/78
APPROVED BY Carl Ulwa TITLE SENIOR PETROLEUM GEOLOGIST	DATE 10-3-78

CONDITIONS OF APPROVAL, IF ANY:

'Form			G.	1 (103		
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DIAGRAM OF THE PROPOSED TO CONTROL OF THE BOARD AGAING CONTRACT WORK IN SECURITY NOTICES AND REPORTS ON THE BOARD AGAING CONTRACT WORK IN PLUE A READMOND CONTRACT WI	DISTRIBUTION 1				Adopted 10,
SUNDRY NOTICES AND REPORTS ON GEOTHERMAL RESOURCES WELLS Sun State Leave No. Sun State Leave	SUNDRY NOTICES AND REPORTS ON GEOTHERMAL RISOURCES WELLS S. Hindicate Type of User Source Control of Decision of Child or to Deepen or Plug Back to a Different Reservoir. Use "Amplication Control of Decision of Child or Section of Child of Section of Child of Section of Child or Secti	NO. OF COPIES RECEIVED	NEW MEXICO OIL CONSE	ERVATION COMMISSION	- meaning of
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2. Name of Operation 2. Name of Operation 3. Address of Operation 3. Address of Operation 3. Address of Operation 4. Lines of Operation 5. Lines of Operation 12700 Park Central Place., Suite 1500, Dallas, TX 75251 10. 76-7 10. 10-76-7 10. Field and Pool, or Wilders 10. The West Line, Section 36 Township line and 1500 Feet From The West Line, Section 36 Township line Range live Name and 1500 Bernal illow 5600 ft. (GL) 10. Check Appropriate Box To Indicate Nature of Notice, Report of Other Data NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK COMMENCE DHILLING DAMS. ALTERING CASING CHANGE PLANS THE drilling of Temperature Observation Well has been postponed until Mid-1977. Anticipated start-up date will be August 1, 1977. We will In notify your office approximately two weeks prior to equipment move-in; until then this project is on inactive status. Thereby certify the beinformation for a is true and complete to the best of my knowledge and belief. Thereby certify the beinformation for a is true and complete to the best of my knowledge and belief. Thereby certify the beinformation for a is true and complete to the best of my knowledge and belief. Thereby certify the beinformation for a is true and complete to the best of my knowledge and belief. Thereby certify the beinformation for a is true and complete to the best of my knowledge and belief. Thereby certify the beinformation for a is true and complete to the best of my knowledge and belief. Thereby certify the beinformation for a is true and complete to the best of my knowledge and belief.	2. Name of Operator SUNCCE ENERGY DEVELOPMENT CORPORATION S. Address of Operator SUNCCE ENERGY DEVELOPMENT CORPORATION Alameda Grant O. Woll No. 12700 Park Central Place., Suite 1500, Dallas, TX 75251 10-76-7 10	·	— -	[Y]	7 Unit Agreement Name
2. Name of Operator 2. Name of Operator 3. Address of Operator 3. Address of Operator 12700 Park Central Place., Suite 1500, Dallas, TX 75251 4. Location of Well 10-76-7 10-76-	2. Name of Operator 2. Name of Operator 3. Address of Operator 3. Address of Operator 12700 Park Central Place., Suite 1500, Dallas, TX 75251 10-768-70 11-768-70 11-768-				
SUNCCO ENERGY DEVELOPMENT CORPORATION 3. Address of Operator 12700 Park Central Place., Suite 1500, Dallas, TX 75251 4. Location of Well Unit Letter, N. 8000 Feet From the South Line and 1500 Feet From The West Line, Section 36 To Tomoship IIN Range IW NAMPMA. 15. Devation (Rhow whether DF, RT, GR, etc.) 16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data NOTICE OF INTENTION TO: PERFORM REMIDIAL WORK COMMENCE DRILLING OPNS. CASING TEST AND CEMENT JOB OTHER OTHER 17. Describe Proposed or completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of stating un proposed with) SEE RULE 201. The drilling of Temperature Observation Well has been postponed until Mid-1977. Anticipated start-up date will be August 1, 1977. We will no. 76-7. We will no. 75. Alameda Grant 9. Well No. 10. 76-67. 10. Field and Pool, or Wildrat 10. Peet From 11. County 12. County 13. Devails (Rhow whether DF, RT, GR, etc.) 14. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data Sussecuent Report of Other Data Autening casing Commence Datalling OPNS. CASING TEST AND CEMENT JOB OTHER 11. Describe Proposed or completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of stating un proposed with SEE RULE 201. The drilling of Temperature Observation Well has been postponed until Mid-1977. Anticipated start-up date will be August 1, 1977. We will not fifty your office approximately two weeks prior to equipment move-in; until then this project is on inactive status. 10. 19. 19. 19. 19. 19. 19. 19. 19. 19. 19	SUNCCO ENERGY DEVELOPMENT CORPORATION Address of Ocerator 12700 Park Central Place., Suite 1500, Dallas, TX 75251 Legisles of Well Onlieter N 800 Feet From the South Line and 1500 Feet From The West Line, Section 36 Township IIN Range IW NAMPM. South Line and 1500 Feet From The West Line, Section 36 Township IIN Range IW NAMPM. South NAMPM. South Line and 1500 Feet From PREPARAM REMEDIAL WORK DEVELOPMENT REPORT OF: PERFORM REMEDIAL WORK Appropriate Box To Indicate Nature of Notice, Report or Other Data NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK APPROPRIATE CASING CHANGE PLANS CHANGE PLANS CHANGE PLANS The drilling of Deperature Observation Well has been postponed until Mid-1977. Anticipated start-up date will be August 1, 1977. We will not fifty your office approximately two weeks prior to equipment move-in; until then this project is on inactive status. I hereby certify that the information follow is true and complete to the best of my knowledge and belief. The Chief Geologist. Date 4/20/77 Geothermad Services, Inc. Date 4/20/77 Geothermad Services, Inc.	Low-remp merman	L Injection/Disposal		
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	Carl Ulus SENIOR PETROLFUM GEOLOGIST 4/27/			unerman services, i	11 °C

CONDITIONS OF APPROVAL, IF ANY:

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SUNOCO ENERGY	DEVELOPMENT	CORPORATION			10-76	-7
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SENIOR PETROLEUM GEOLOGIST

DATE 9/27/76

PROVED BY Carl Ulway
NDITIONS OF APPROVAL, IF ANY:

Form G-102 Adopted 10/1/74

NEW MEXICO OIL CONSERVATION COMMISSION P. O. BOX 2088 SANTA FE 87501

GEOTHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION PLAT

All distances must be from the outer boundaries of the Section. Sunoco Energy Development Corp. Alameda Grant Range County Section Township Bernalillo N 36 11N. IW. Actual Footage Location of Well: 800 South 1,500 West feet from the feet from the line and Dedicated Acreage: Ground Level Elev. Producing Formation Pool None None 5,600 ft. None Acres 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one lease of different ownersip is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc? If answer is "yes," type of consolidation___ □ No ☐ Yes If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission. CERTIFICATION I hereby certify that the information contained herein is true and complete to Steve Quiett Position Chief Geologist Company Geothermal Services, Inc. September 1, 1976 I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief. SE 1/4, SW1/4 Date Surveyed Registered Professional Engineer and/or Land Surveyor Certificate No. 930 000 1320 1650 1980 2310 2000 1500 1000 500



GEOTHERMAL SERVICES, INC.

7860 CONVOY COURT, SAN DIEGO, CALIFORNIA 92111 • (714) 565-4712



STANDARD SHALLOW TEMPERATURE GRADIENT HOLE DRILLING PROGRAM (500'/150m; Rubber Tired Equipment; Rotary/Mud)

- 1. Coordinate "Special Stipulations" or other unusual requirements with the Project Geologist prior to set-up and spud.
- 2. Choose location and orientation of drilling rig so as to minimize surface disturbance.
- 3. Drill 4" to 6" hole to maximum depth of 500'/150m. Take cuttings samples, cores, etc. at direction of Project Geologist.
- 4. If drilling with mud, use regular Bentonite drilling mud. No toxic additives are to be used in drilling fluids without permission of Project Geologist. Have supply of lost circulation material available. Use portable mud pits unless specifically directed otherwise.
- 5. Have a supply of Barite available in case of artesian flow. If artesian flow is encountered, comply with United States Geological Survey's Stipulations.
- 6. Mud return temperature shall be measured and recorded on "Drilling History" every 10'/3m.
 - a. If temperature reaches 120°F/50°C, STOP DRILLING and circulate for 30 minutes, monitoring mud temperature and pit volume for possible hot artesian flow. If no flow, run pipe at this depth after logging is completed.
 - b. If there is a sudden increase in temperature of the drilling mud (several degrees in only a few feet) STOP DRILLING and circulate for 30 minutes, monitoring mud temperature and pit volume for possible hot artesian flow. If no flow, continue drilling CAUTIOUSLY, keeping a careful watch on return temperature of drilling fluid. In no case shall drilling continue after mud return temperature reaches 120°F/50°C.

- 7. Run pipe immediately after running electric logs or reaching T.D. (if hole is not logged).
 - a. Install cap on bottom of first length of pipe. (If using steel pipe, seal each joint with teflon tape to ensure watertight).
 - b. Steel pipe must be used when air temperature is 40°F or below, as PVC cement will not adhere.
 - c. Steel pipe must be used if drilling fluid temperature exceeds 100°F/40°C.
 - d. When pipe is landed, top must be 6" to 12"/
 15cm to 30cm below ground level. (Cut and
 thread as necessary).
 - e. Fill pipe with <u>CLEAN WATER</u> (water that is oily or contains solvents such as gasoline <u>MUST NOT</u> be used) and install cap. Do not seal.
 - f. Set paper, rag or dirt bridge down open annulus at least 10'/3m below ground level. Fill annulus with cement up to base of cap on pipe.
- 8. Clean up location THOROUGHLY.
- 9. Any excavated pits or sumps must be backfilled to conform to the original topography.
- 10. When temperature surveys are completed, fill pipe with cement from 10'/3m to top of pipe, fill excavation to original ground topography and restore location as nearly as possible to original condition.