GTLT - ____2_

NMSU UL:J 33-13S-04W Sierra County

SOUTHWEST TECHNOLOGY DEVELOPMENT INSTITUTE

Box 30001/Dept. 3SOL/Las Cruces, New Mexico 88003-0001 Telephone: (505) 646-1846 Telefax: (505) 646-2960 OIL CONSERVATION DIVISIONEXICO RECTIVED

- InFormation Copy -FEDERAL LAND/MINERALS

18 July 1991

Mr. Roy Johnson District Supervisor Oil Conservation Division P. O. Box 2088 Santa Fe, New Mexico 87501

Dear Roy:

Please find the enclosed Form G-103 in triplicate for the abandonment of the TORC1 temperature gradient borehole.

Sineerely,

James C. Witcher Geologist

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STATE OF NEW MEXIC ENERGY AND MINERALS DEPA	.0	DIL CONSERVÄ P. O. BOX SANTA FE, NEW				Form G-101 Adupted 10-1-74 Revised 10-1-78
NO, OF COPIES RECEIVED						
DISTRIBUTION .		APPLICATION FOR PERMIT TO DRILL, DEEPEN,			5. Indicate	Type of Lease
File	APPLI				STATE] none fee [
N.M.B.M.		LUG BACK-GEOTHERMAL RESOURCES WELL			5.a State Lease No.	
U.S.G.S.						N/A
Operator					MM	
Land Office						
1a. Type of Work Drill	<u>с</u>	eepen	Plug Back		7. Unit Agr	cement Name
						N/A
b. Type of Well Geotherma	al Producer 🔲	1	Temp Observation 🖾		8. Farm or	Lease Name
Low-Temp	Thermal 🛛	l r	njection/Disposal 🛛		Citv	of T. or C.
2. Name of Operator New Mex	ico State Univ	ersity		·····	9. Well No.	
Southwe	st Technology	Development In	nstitute			TORC 1
3. Address of Operator				00000	10. Field an	d Pool, or Wildcat
P. O. B	ox 30001 Dept	3 SOL Las Cru	ces, New Mexico	88003		T. or C.
4. Location of Well UNIT LETTE	J LOCAT		FROM THE <u>south</u>	LINE	<u>IIIIII</u>	
	EUCAT		FROM THE		//////	
AND 1470 FEET FROM TH	HE EASTLINE OF S	SEC. 33 TWP. 13	south _{RGE.} 4 west	NMPM	///////	
	MMMMM	1111111111	MMMMM	<u>TIIIIII</u>	12. County	
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					IIIII	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	+++++++++++	19. Proposed Depth		111111	
			300 feet	19A. Formatic Santa Fe		20. Rotary or C.T. rotary
21. Elevations (Show whether DF, 1 4290 feet		& Status Plug. Bond To IOK MULTI-	21B. Drilling Contractor Larjon		22. Appro May	ox. Date Work will start 1990
	Were B	OND FORTNEUMI	~6			· · ·
•	PI	ROPOSED CASING A	ND CEMENT PROGRAM			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF	CEMENT	EST. TOP

6 inch

1-2 inch

-

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. Give blowout preventer program, if any.

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thereby certify that the information above is rue and con-	mplete to the best of my knowledge and belief.	Due 4 MAJ 1990
APPROVED BY APPROVAL, IF ANY:	SIGTOLOT SLIPPRVISOR	DATE 5-24-90

. '	and the second		
	OIL CONSERVA	TION DIVISION	. !
STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT	Р. О. ВО	X 2088	Form G-103 Adopted 10-1-74
	SANTA FE, NÉV	MEXICO 87501	Revised 10-1-78
DISTRIBUTION			
File			
N. M. B. M.	SUNDRY NOTICES	· ··=· • ··· •	5. Indicate Type of Lease
U. S. G. S	GEOTHERMAL RES		State 🗌 (NONE) Fee 🗌
Operator			5.a State Lease No.
Land Office			
Do Not Use This Form for Proposals to Drill or For Permit —" (Form G-101) for Such Proposal	s.)		
1. Type of well Geothermal Producer			7. Unit Agreement Name Not applicable
Low-Temp Thermal 2. Name of Operator	Injection/Disposal		8. Farm or Lease Name City of
New Mexico State University/	Southwest Technolog	y Development Institute	Truth or Consequences
 Address of Operator P.O. Box 30001, Department 3 			9. Well No. TORCI
Location of Well			10. Field and Pool, or Wildcat
Unit LetterJ1970	Feet From TheSouth	Line andFeet From	T. or C.
The East Line, Section	33Township 13 So	uth 4 West	
,0000	15. Elevation (Show whethe	r DF, RT, GR, etc.)	12. County
	4290 (Surface)		Sierra
6. Check Appr	opriate Box To Indicate Na	ture of Notice, Report or Other D	ata
NOTICE OF INTENTION	-	· -	ENT REPORT OF:
		REMEDIAL WORK	
TEMPORARILY ABANDON	_	COMMENCE DRILLING OPNS.	XX PLUG & ABANDONMENT
PULL OR ALTER CASING		CASING TEST AND CEMENT JOE	3 🗖 [*] ,
	_	OTHER Information (S	See attached log)
OTHER			
7. Describe Proposed or completed Operation	ns (Clearly state all pertinent	details, and give pertinenet dates, incl	uding estimated date of starting any
 Describe Proposed or completed Operation proposed work) SEE RULE 203. Borehole was drilled to 68 was encountered. Abandonm 	meters depth June ent consisted of cu	1990, and abandoned July tting PVC one inch casin	y 1990. No water
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Table 4Depth, logged temperature, and general lithologies for
TORC-1, Truth or Consequences, New Mexico

Location: Unit letter J located 1,933 feet from the South line and 3,850 feet from West line, Section 33, Township 13S, Range 4W, New Mexico; Elevation 4283 feet; Temperature logged, 6/22/90; Total depth, 68 meters; Bottom-hole temperature, 24.91 °C.

Depth (M)	Temperature ℃	Lithology
0		Pebbly sand: Terrace deposit.
10	22.30	Pebble conglomerate: Palomas Formation (fluvial facies-?)
15 20	22.25 22.43	Clay to clayey pebble conglomer- ate: Palomas Formation.
25 30 35 4 0 45 50 55 60 65	22.67 22.89 23.11 23.30 23.58 23.89 24.18 24.37 24.74	Muddy, cobble-boulder conglom- erate and mudstone: Palomas Formation (older proximal piedmont facies-?).
68	24.91	

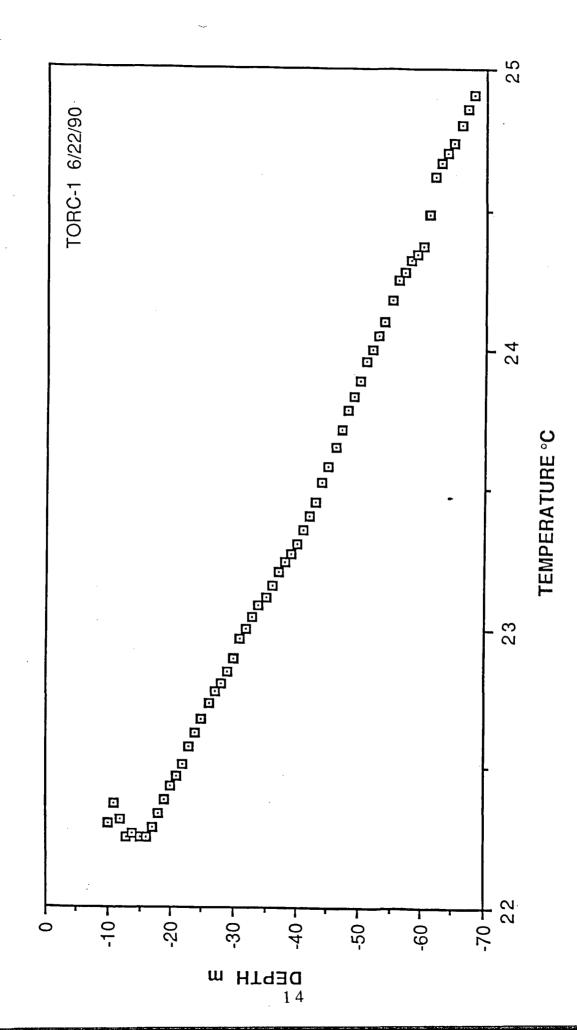


Figure 4b. Depth versus temperature plot for TORC-1.

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT	OIL CONSERVATION DIVISION P. O. BOX 2088 SANTA FE, NEW MEXICO 87501	Form G-103 Adopted 10-1-74 Revised 10-1-78
NO, OF COPIES RECEIVED DISTRIBUTION File N. M. B. M. U. S. G. S Operator Land Office	SUNDRY NOTICES AND REPORTS ON GEOTHERMAL RESOURCES WELLS	5. Indicate Type of Lease State (NONE) Fee 5.a State Lease No.
Do Not Use This Form for Proposals to Drill on For Permit –" (Form G-101) for Such Proposal 1. Type of well Geothermal Producer Low-Temp Thermal	to Deepen or Plug Back to a Different Reservoir. Use "Appendent of the second s	Polication 7. Unit Agreement Name Not applicable
3. Address of Operator	Southwest Technology Development Inst SOL, Las Cruces, New Mexico 88003-0	9. Well No.
4. Location of Well Unit LetterJ1970 TheEastLine, Section	Feet From The South Line and 1470 F	Feet From 10. Field and Pool, or Wildcat T. OT C. NMPM. 12. County
NOTICE OF INTENTION PERFORM REMEDIAL WORK C PLU TEMPORARILY ABANDON	opriate Box To Indicate Nature of Notice, Report or	SUBSEQUENT REPORT OF:
OTHER	- OTHER Information	tion (See attached log)
proposed work) SEE RULE 203. Borehole was drilled to 68 was encountered. Abandonm	meters depth June 1990, and abandon meters depth June 1990, and abandon dent consisted of cutting PVC one incl was then backfilled to surface.	ed July 1990. No water

18. I here	by certify that the information above is true and $\int \int \frac{1}{1 + 1} \int \frac{1}{2} \int \frac{1}{2$	i complete to the be WITCHEL	est of my knowledge and belief.	, ,
SIGNED	AChthles	TITLE	Geologist	DATE 7/18/91
	V			

DATE_

__TITLE

. .

Table 4Depth, logged temperature, and general lithologies for
TORC-1, Truth or Consequences, New Mexico

Location: Unit letter J located 1,933 feet from the South line and 3,850 feet from West line, Section 33, Township 13S, Range 4W, New Mexico; Elevation 4283 feet; Temperature logged, 6/22/90; Total depth, 68 meters; Bottom-hole temperature, 24.91 °C.

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25 30 35 4 0 45 50 55 60 65	22.67 22.89 23.11 23.30 23.58 23.89 24.18 24.37 24.74	Muddy, cobble-boulder conglom- erate and mudstone: Palomas Formation (older proximal piedmont facies-?).
68	24.91	

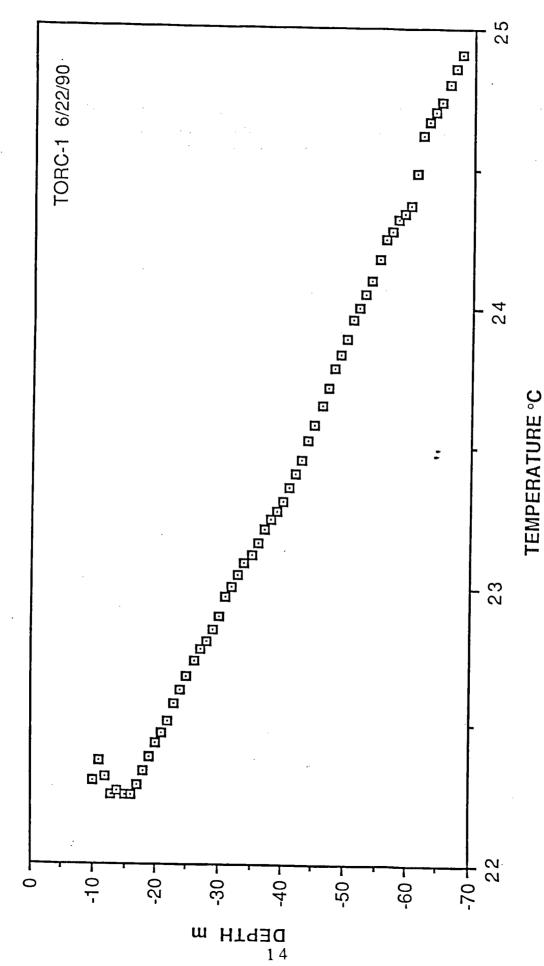


Figure 4b. Depth versus temperature plot for TORC-1.

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OIL C	ONSERVATION DIVISION	
STATE OF NEW MEXICO	P. O. BOX 2088	Form G-103 Adopted 10-1-74
	TA FE, NEW MEXICO 87501	Adopted 10-1-74 Revised 10-1-78
NO, OF COPIES RECEIVED		
DISTRIBUTION		
	DRY NOTICES AND REPORTS	
N. M. B. M.	ON	5. Indicate Type of Lease
U. S. G. S GEO		State 🗌 (NONE) Fee 🗌
Operator GEU		5.a State Lease No.
Land Office		
Do Not Use This Form for Proposals to Drill or to Deepen of For Permit —" (Form G-101) for Such Proposals.)	Plug Back to a Different Reservoir. Use "Application	
	D. Observation	7. Unit Agreement Name
,	tion/Disposal	Not applicable
2. Name of Operator		8. Farm or Lease Name City of
New Mexico State University/Southwest 3. Address of Operator	Technology Development Institute	Truth or Consequences 9. Well No.
P.O. Box 30001, Department 3SOL, Las	G Cruces, New Mexico 88003-0001	TORC1
4. Location of Well Unit Letter	The South Line and 1470 Feet From	10. Field and Pool, or Wildcat T. or C.
	۲.	VIIIIIIIIIIIIII
The East Line, Section33To	wynship <u>13 South</u> Range <u>4 West</u> NMPM.	
~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	on (Show whether DF, RT, GR, etc.)	12. County
<u> </u>	(Surface)	Sierra
16 Check Appropriate Box	To Indicate Nature of Notice, Report or Other Da	ata
	-	
PERFORM REMEDIAL WORK PLUG AND ABAN		
TEMPORARILY ABANDON	COMMENCE DRILLING OPNS.	PLUG & ABANDONMENT
PULL OR ALTER CASING CHANGE PLANS	CASING TEST AND CEMENT JOE	3 LJ
	- OTHER Information (S	See attached log)
	OTHER Intormation (
OTHER	Lui	
17. Describe Proposed or completed Operations (Clearly st	1 190 all noppingent datable and air in the	hading protocol in the first first
proposed work) SEE RULE 203. Borehole was drilled to 68 meters	depth June 1990, and abandoned July	y 1990. No water
	isted of cutting PVC one inch casir	ug DELOW SUITACE
and capping. The borehole was the	n packfilled to surface.	
x		
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18. I hereby certify that the information above is true and co		· · · · · · · · · · · · · · · · · · ·
A P I A Jomes C. U	ITCHER	/ /
SIGNED A Cital	Geologist	DATE 7/18/91
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CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY

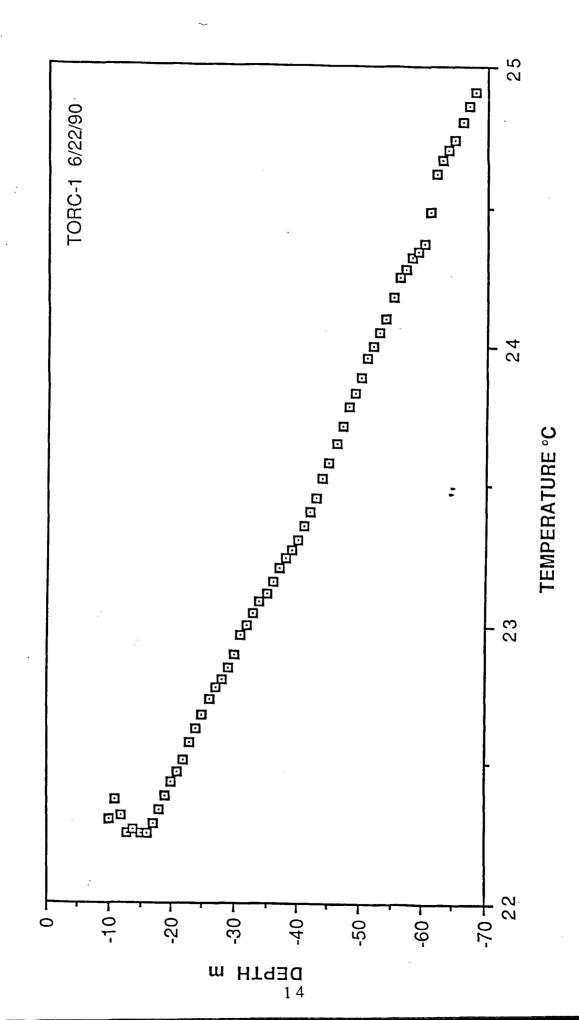
___TITLE _

___DATE _

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Temperature °C	Lithology
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22.30	Pebble conglomerate: Palomas Formation (fluvial facies-?)
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	€ 22.30 22.25 22.43 22.67 22.89 23.11 23.30 23.58 23.89 24.18 24.37



474 1317

547.47 53 · · ·

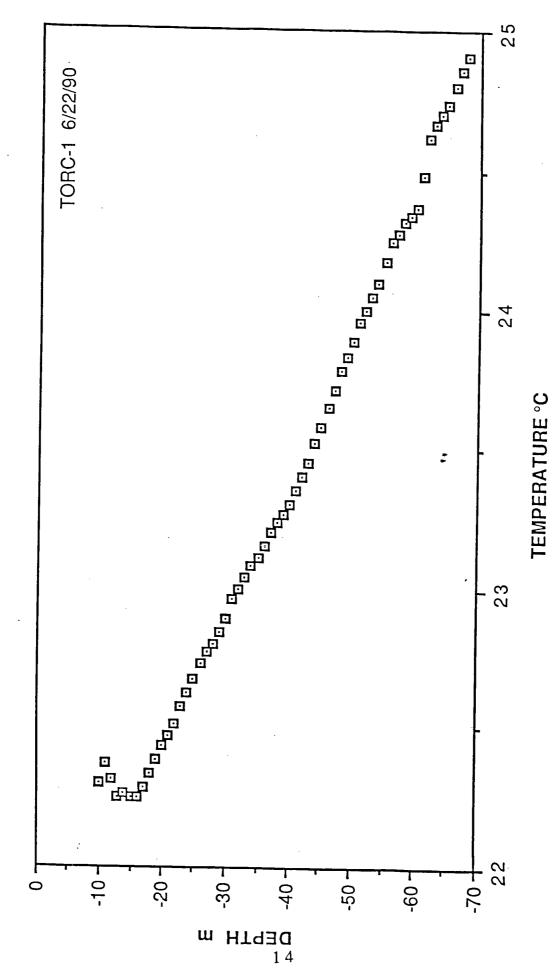
Figure 4b. Depth versus temperature plot for TORC-1.

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT	OIL CONSERVATION DIVISION P. O. BOX 2088 SANTA FE, NEW MEXICO 87501	N Form G-103 Adopted 10-1-74 Revised 10-1-78
NO, OF COPIES RECEIVED	SANTA FE, NEW MEXICO 87501	KEA1260 10-1-10
DISTRIBUTION		
File ,	SUNDRY NOTICES AND REPORTS	
N. M. B. M.	ON	5. Indicate Type of Lease
U. S. G. S	GEOTHERMAL RESOURCES WELLS	State 🗌 (NONE) Fee 🗌
Operator		5.a State Lease No.
Land Office		
Do Not Use This Form for Proposals to Drill or to For Permit —" (Form G-101) for Such Proposals.)	Deepen or Plug Back to a Different Reservoir. Use "A	pplication
1. Type of well Geothermal Producer	Temp. Observation	7. Unit Agreement Name
Low-Temp Thermal	Injection/Disposal	Not applicable
2. Name of Operator		8. Farm or Lease Name City of
New Mexico State University/So	outhwest Technology Development Ins	stitute Truth or Consequences
3. Address of Operator P.O. Box 30001, Department 3SO	DL, Las Cruces, New Mexico 88003-	-0001 9. Well No. TORC 1
4. Location of Well		10. Field and Pool, or Wildcat
Unit LetterJ 1970	Feet From The South Line and 1470	Feet From
	3Township13 South 4 West	NМРМ.
<u> </u>	15. Elevation (Show whether DF, RT, GR, etc.)	12. County
AIIIIIIIIIIIIIIIIIIIIIIIIIIII	4290 (Surface)	Sierra
16. Check Appropri	riate Box To Indicate Nature of Notice, Report o	or Other Data
NOTICE OF INTENTION TO	-	SUBSEQUENT REPORT OF:
	<u> </u>	
· · · · · · · · · · · · · · · · · · ·		G OPNS.
TEMPORARILY ABANDON	GE PLANS COMMENCE DRILLIN	_ · · · · ·
	- OTHER Informa	ation (See attached log)
OTHER		
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Table 4Depth, logged temperature, and general lithologies for
TORC-1, Truth or Consequences, New Mexico

Location: Unit letter J located 1,933 feet from the South line and 3,850 feet from West line, Section 33, Township 13S, Range 4W, New Mexico; Elevation 4283 feet; Temperature logged, 6/22/90; Total depth, 68 meters; Bottom-hole temperature, 24.91 °C.

Depth (M)	Temperature ℃	Lithology
0	-	Pebbly sand: Terrace deposit.
10	22.30	Pebble conglomerate: Palomas Formation (fluvial facies-?)
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25 30 35 4 0 45 50 55 60 65 68	22.67 22.89 23.11 23.30 23.58 23.89 24.18 24.37 24.74 24.91	Muddy, cobble-boulder conglom- erate and mudstone: Palomas Formation (older proximal piedmont facies-?).



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Figure 4b. Depth versus temperature plot for TORC-1.

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NEW MEXICO ENERGY, MINERALO & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131

May 21, 1996

United States Fidelity and Guaranty Co. PO Box 7 Denver, Co. 80201-0007

Attention: Julie M. Folwell

Re: \$5,000 One-Well Geothermal Bond City of Truth or Consequences, Principal United States Fidelity and Guaranty Company, Surety Bond No. 01-0130-320-80

Dear Ms. Folwell:

The Oil Conservation Division hereby approves cancellation of the above-referenced plugging bond and releases United States Fidelity and Guaranty Company of any liability.

Sincerely, WILLIAM J. ALEMAY, Director dr/

cc: Oil Conservation Division Santa Fe, New Mexico

STATE OF NEW ME ENERGY AND MINERALS DE	NICO	DIL CONSERVA P. O. BOX SANTA FE, NEW	2088			Form G-101 Adopted 10-1-74 Revised 10-1-78
NO, OF COPIES RECEIVED						
DISTRIBUTION .				Γ	5. Indicate	Type of Lease
File .						none FEE
N.M.B.M.			RMAL RESOURCES WI		5.a Stato Le	
U.S.G.S.						N/A
Operator				[IIIII	
Land Office				E	///////	
ta. Type of Work Drill	 X	Deepen 🔲	Plug Back 🔲	p	7. Unit Agre	cement Name
	Later La					N/A
b. Type of Well Geother	mal Producer 🔲		emp Observation		8. Farm or I	Lease Name
	mp Thermal		ijection/Disposal		City o	of T. or C.
2. Name of Operator New Me	exico State Univ	resity			9. Well No.	
South	west Technology	Development Ir	istitute			TORC 1
3. Address of Operator	2 20001 D (Nor Movico	8003	10. Field and	d Pool, or Wildcat
P. 0.	Box 30001 Dept	5 SOL Las cruc	ces, New Mexico 8		· · · · · · · · · · · · · · · · · · ·	I. or C.
4. Location of Well UNIT LET	TER JLOCAT	ED. 1970 FEET F	ROM THE <u>south</u>	LINE		
					//////	
AND 1470 FEET FROM	THE east LINE OF	_{SEC.} 33 _{TWP.} 13	south _{RGE.} 4 west	NMPM	<u>IIIII</u>	
					12. County	
]]]]]]]]]	Sierr	a ////////////////////////////////////
				///////		
				19A. Formation		20. Rotary or C.T.
			300 feet	Santa Fe	Group	rotary
21. Elevations (Show whether DI 4290 feet		& Status Plug. Bond To IOK MULTI-	21B. Drilling Contractor Larjon		22. Approx May	x. Date Work will start 1990
•	Were B	OND FORTNOUMI			·	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF	CEMENT	EST. TOP
6 inch	1_2 inch					

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. Give blowout preventer program, if any.

..

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s. i hereby certify that the information above is rue and con-	mplete to the best of my knowledge and belief.	- MA- 1990
APPROVED BY	DISTRICT SUPERVISOR	DATE5=24-90

· S	TATE OF NEW MEXICO	
ÉNERGY	AND MINERALS DEPARTI	MENT

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

Form G-102 Adopted 10-1-74 Revised 10-1-78

GEOTHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION PLAT

perator New M	exico State	University / Development I	Lease nstitute	City of T. c		Well No. TORC 1
nit Letter	Section	Township	Range	County		
J	33	13 sout	h 4 west	St	ierra	
ctual Footage Lo	ocation of Well:					
1970	feet from the		line and 1470	feet from the		líne
Fround Level Flev		Formation	Pool		ł	ated Acreage:
290 feet			coupT.c			1.0 Acres
1. Outlin	e the acreage ded	licated to the subject	well by colored pencil	or hachure marks	on the plat below	۷.
	e than one lease yalty).	is dedicated to the	well, outline each and	identify the own	ership thereof (bo	th as to working intere
		e of different owners zation, force-pooling,	sip is dedicated to the , etc?	well, have the int	erests of all own	ers been consolidated
[] Ye	s 🗆 No 🛛	f answer is "yes," ty	pe of consolidation			
If answer necessary.		owners and tract de	escriptions which have	actually been con	solidated. (Use re	verse side of this form
		-	ll until all interests F ndard unit, eliminating :			
]	· .			CE	RTIFICATION
	1		1		I hereby cert	ify that the informatio
	I I		I			in is true and complete t
	1		i		the best of my	knowledge and belief.
	ł		1		$ \land \land$	1 AD
	1		1		MLC.	Will
	·				Name	
			·		James C	. Witcher
ŀ.	i t		ł		Position	
	1		I		Geologi	st
	1	1	1	1	Company	
	l) 			
) 		SWTDI-N	IMSTJ
) 		SWTDI-N	MSTI 24 1990
) 		SWTDI-N Date 4 m.	y 1990
	 				SWTDI-N Date 4 mi I hereby certi	fy that the well location
			TORC 1		SWTDI-N Date / m. I hereby certi shown on this	fy that the well location of the state of th
	 		TORC 1		SWTDI-N Date I hereby certi shown on this notes of actua	fy that the well location plat was plotted from fie I surveys made by me
	 		TORC 1 2701		SWTDI-N Date I hereby certi shown on this notes of actua under my supe	fy that the well location plat was plotted from fie I surveys made by me or rvision, and that the san
			TORC 1 Zzol		SWTDI-N Date I hereby certi shown on this notes of actua under my supe is true and co	fy that the well location plat was plotted from fie I surveys made by me of rvision, and that the sam precet to the best of m
			TORC 1 Z>OI	 	SWTDI-N Date I hereby certi shown on this notes of actua under my supe	fy that the well location plat was plotted from fie I surveys made by me of rvision, and that the sam precet to the best of m
			TORC 1 2701		SWTDI-N Date I hereby certi shown on this notes of actua under my supe is true and co	fy that the well location plat was plotted from fiel I surveys made by me of rvision, and that the sam precet to the best of me
			TORC 1 -2701		SWTDI-N Date I hereby certi shown on this notes of actua under my supe is true and co	fy that the well location plat was plotted from fiel I surveys made by me of rvision, and that the same prrect to the best of m
			TORC 1 2701		SWTDI-N Date I hereby certi shown on this notes of actua under my supe is true and co knowledge and Date Surveyed	fy that the well locatio plat was plotted from fiel I surveys made by me o rvision, and that the sam prect to the best of m belief.
			Torc 1 2701		SWTDI-N Date I hereby certi shown on this notes of actua under my supe is true and co knowledge and	fy that the well location plat was plotted from field I surveys made by me of rvision, and that the san prrect to the best of mo- belief.
			TORC 1 2701		SWTDI-N Date I hereby certi shown on this notes of actua under my supe is true and co knowledge and Date Surveyed Registered Profess.	fy that the well location plat was plotted from field I surveys made by me of rvision, and that the san prrect to the best of mo- belief.

SOUTHWEST TECHNOLOGY DEVELOPMENT INSTITUTE

Box 30001/Dept. 3SOL/Las Cruces, New Mexico 88003-0001 Telephone: (505) 646-1846 Telefax: (505) 646-2960



10 May 1990

Mr. Roy Johnson Oil Conservation Division P. O. Box 2088 Santa Fe, New Mexico 87501

Dear Roy:

Please find the enclosed OCD Forms G-101 and G-102 for a temperature-gradient hole drilling project in Truth or Consequences. Also, enclosed is a multiple-well bond to cover the drilling. A rider to this bond covering the T. or C. well is forthcoming in a few days. I am at 646-3949 if you need more information or have questions concerning the TORC-1 borehole. Thank you.

Sincerely, n ht

James C. Witcher geologist

EIVED SOUTHWEST TECHNOLOGY DEVELOPMENT INSTITUTE

Box 30001/Dept. 3SOL/Las Cruces, New Mexico 89003-0001 AM 9 04 Telephone: (505) 646-1846 Telefax: (505) 646-2960

61 233



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CELECTRICE DIVISION

Sincerely,

James C. Witcher geologist

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT			OIL CONSERVATION DIVISION P. O. BOX 2088 SANTA FE, NEW MEXICO 87501						Form G-101 Adopted 10-1-74 Revised 10-1-78	
NO. OF COPIES RECE	IVED									
DISTRIBUTION								5. Indicate	Type of Lease	
File			APPL	ICATION F	ORPERA	AIT TO DRILL, DE	FPEN	STATE	none FEE	
N.M.B.M.						RMAL RESOURCE		5.a State Le		
U.S.G.S.			011120	O BROK V			-3 11666		N/A	
Operator								IIIII	<u>MMMMM</u>	
Land Office	l							$\nabla U U U$		
1a. Type of Work	Drill 🛙	X	ť	Deepen]	Plug Back		7. Unit Agreement Name		
					-		¥ ¥	N/A		
b. Type of Well		mal Produce				Temp Observation	XX.	8. Farm or Lease Name		
	Low-Ten	np Thermal			Ir	njection/Disposal		City of T. or C.		
2. Name of Operator	New Me	exico Sta	te Univ	versity				9. Well No.		
	Southw	est Tecl	nology	Develop	ment In	nstitute		TORC 1		
3. Address of Operator		n 2000	1	2 001 1		Nor Mori	88003	10. Field and Pool, or Wildcat		
; 	P. 0.	Box 3000	u vept		as cru	ces, New Mexi			T. or C.	
4. Location of Well	UNIT LET	TERJ·	LOCAT	ED 1970	FEET I	FROM THE <u>50U</u>	thLINE			
AND 1470 FE	ET FROM	тне east	LINE OF	_{sec.} 33	_{тwp.} 13	south _{RGE.} 4 w	est _{NMPM}			
		<u> </u>						12. County Sierr		
	++++++	HHH	+++++	++++++	+++++	+++++++++	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	X TTTTT	HHHH	
timmt,	11111	111111	11111	111117	11111	19. Proposed Depth	19A. Format		20. Rotary or C.T.	
	//////	HHHH	HHH	HHHH		300 feet	Santa F	⊇ Group	rotary	
21. Elevations (Show 4290 feet		, RT, etc.)	21A. Kinu	l & Status Pl	ug. Bond	21B. Drilling Contra Larjon	стог	22. Appro May	x. Date Work will start 1990	

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
6_inch	1-2_inch		•		
·) 				
	<u> </u>	l	l	l	

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. Give blowout preventer program, if any.

i hereby certify that the information above is rue and complete to the best of my knowledge and belief. 4 MA- 1990 uned -Jan Tille Geologist . Dute ... Witcher (This space for State Use)

DATE

TITLE

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OIL CONSERVATION DIVISION STATE OF NEW MEXICO OIL CONSERVATION DIVISIO P. O. 40X 2014 ENERGY AND MINERALS DEPARTMENT SANTA FE, NEW MEXICO 87501

Form G-1	102
Adopted	10-1-74
Revised	10-1-78

GEOTHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION PLAT

	cico State U Technology	Development In	nstitute	City of	T. or C.	Welt No. TORC 1
it lætter	Section	Township	Range		unty	l
J	33	13 sout	n 4 w	vest	Sierra	
tual Footage Loca				10		1 12
	feet from the Producing F	south	line and 147		from the east	line Dedicated Acreage:
290 feet		y Santa Fe Gr	מווכ	T.or C.		Acres
1. Outline t		ated to the subject				
2. If more and roya		s dedicated to the	well, outline each	and identify th	ne ownership thereo	f (both as to working inte
commun	itization, unitiza	tion, force-pooling,	etc?			owners been consolidated
2 Yes	□ No If	answer is "yes," ty	pe of consolidation	n		
If answer is necessary.) .		wners and tract de	scriptions which I	nave actually be	en consolidated. (U	se reverse side of this for
					•	communitization, unitizat ed by the Division.
			1			CERTIFICATION
	1				L hereby	certify that the informati
	1		I.			herein is true and complete
	1 .		1		the best	of my knowledge and belief.
	1		1		$ _{\mathcal{A}}$	Cuth
					Name	es C. Witcher
	I		ļ		Position	es c. witchei
	i		1		Geo	logist
	1) 		Company	
	1		l		Date	DI-NMSIJ
	1		1			MAY 1990
		7	TORC 1 2701		shown or notes of under my is true a	certify that the well locati o this plat was plotted from fid actual surveys made by me r supervision, and that the sai nd correct to the best of r e and belief.
	+ 					
	1 · ·	ľ.	1		Date Survey	ed
			1 		Registered P and/or Land	rofessional Engineer Surveyor
	<u> </u>		<u>_</u>			
				The second s	111111 Certificate N	ο.

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OIL CONSERVATION DIVISION P.O. HOX 2088 SANTA FE, NEW MEXICO 87501

Form G-102 Adopted 10-1-74 Revised 10-1-78

GEOTHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION PLAT

Southwes	exico State U t Technology	Development Institu	ite C:	ity of T. or C.	Well No. TORC 1
it Letter	Section	Township	Range	County	
J	33	13 south	4 west	Sierra	
tual Footage Lo	cation of Well:				
1970	feet from the	south line a	nd 1470	feet from the east	line
ound Level Hev	. Producing Fo	ormation	Pool		Dedicated Acreage:
90 feet	Tertiar	y Santa Fe Group	<u> </u>	С.	<u> </u>
1. Outline		ated to the subject well by			
	e than one lease i yalty).	s dedicated to the well, or	atline each and ide	entify the ownership the	cof (both as to working inter
	unitization, unitiza	tion, force-pooling, etc?			ll owners been consolidated
[] Yes	s 🗆 No 🛛 If	answer is "yes," type of co	onsolidation	·······	
If answer necessary.]		wners and tract descriptio	ns which have act	ually been consolidated.	(Use reverse side of this form
No allow:	able will be assi	gned to the well until or until a non-standard un			communitization, unitizati oved by the Division.
			-		
	1		t		CERTIFICATION
			l	I here	by certify that the informati
			I	contai	ned herein is true and complete
	1		l	the be	st of my knowledge and belief.
	1				N DI LA
	1			IN	1 William
	I		I	Name	
	1				
	+				mee C. Wircher
. <u> </u>			1		mes C. Witcher
· ·	+		1	Position	
· <u> </u>	+		1	Position	mes C. Witcher
· <u> </u>				Position Ge Company	
· <u> </u>				Position Ge Company	ologist ITDI-NMSU
· · ~ ~ ~ ~				Position Ge Company SV	ologist
·				Position Ge Company SV	ologist NTDI-NMSU
· · · · · · · · · · · · · · · · · · ·				Position Ge Company Sk Date	MTDI-NMSU 4 May 1990
· · · · · · · · · · · · · · · · · · ·				Position 'Ge Company SV Date I here	NTDI-NMSU 4 May 1990 by certify that the well location
· ·		TORC	2	Position 'Ge Company SV Date I here shown	by certify that the well locate on this plat was plotted from fi
·		TORC	. <u>1</u> 	Position Ge Company Date I here shown notes	NTDI-NMSU May 1990 by certify that the well locate on this plat was plotted from fi of actual surveys made by me
		TORC	-1 -2->01	Position Ge Company SV Date I here shown notes under	NTDI-NMSU May 1990 by certify that the well location on this plat was plotted from fill of actual surveys made by me my supervision, and that the sa
		TORC	. 1 - 2-> 0	Position Ge Company SV Date I here shown notes under is true	NTDI-NMSU May 1990 by certify that the well location on this plat was plotted from file of actual surveys made by me my supervision, and that the same and correct to the best of i
· · · · · · · · · · · · · · · · · · ·		Torc	- <u>1</u> - 2 - 2 - 2 - 2 - 1	Position Ge Company SV Date I here shown notes under is true	bologist ITDI-NMSU I
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· · · · · · · · · · · · · · · · · · ·		Torc		Position Ge Company SV Date I here shown notes under is true	DIDI-NMSU May 1990 by certify that the well locati on this plat was plotted from file of actual surveys made by me my supervision, and that the same and correct to the best of r edge and belief.
· · · · · · · · · · · · · · · · · · ·		TORC	- <u>1</u> - 2 - -	Position Ge Company SV Date I here shown notes under is true knowle Date Surv	tologist TDI-NMSU May 1990 by certify that the well locati on this plat was plotted from file of actual surveys made by me my supervision, and that the sam and correct to the best of r odge and belief. eyed
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· · · · · · · · · · · · · · · · · · ·		TORC	. 1 - 2→⊙ 	Position Ge Company SV Date I here shown notes under is true knowle Date Surv Registered	tologist TDI-NMSU May 1990 by certify that the well locati on this plat was plotted from fic of actual surveys made by me my supervision, and that the sam and correct to the best of r odge and belief. eyed
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OIL CONSERVATION DIVISION P. O. HOX 2000 SANTA FE, NEW MEXICO 07501

Form G-102 Adopted 10-1-74 Revised 10-1-78

GEOTHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION PLAT

		All distances	must be from th	ne outer bounda	ries of the Sectio	n.	
Operator New Mez	xico State Un Technology D	iversity	Institute	С	ity of T.	or C.	Well No. TORC 1
Unit Letter	Section	Township		Range	County		
.T	33	13 sou		4 west		ierra	
Actual Footage Loca	tion of Well:				I		
1970	feet from the	south	line and	1470	feet from the	east	line
Ground Level Elev.	Producing For		Pool				Dedicated Acreage:
4290 feet		_Santa_Fe_C					<u> 1.0 Acres</u>
1. Outline	the acreage dedical	ed to the subje	ct well by cold	ored pencil or	hachure marks	on the plat	below.
2. If more and roya		dedicated to th	e well, outlin	e each and id	entify the own	ership thereo	of (both as to working interest
commun	iitization, unitizati	on, force-poolin	g, etc?				owners been consolidated by
🗋 Yes	□ No If a	nswer is "yes,"	type of consol	idation			
If answer is necessary.)		mers and tract	descriptions w	hich have act	ually been con	isolidated. (U	lse reverse side of this form if
No allowat	ole will be assign						communitization, unitization. ed by the Division.
	 ! }						CERTIFICATION
	1 1 1	-				contained	certify that the information I herein is true and complete to of my knowledge and belief.
	 +			 		Name	Cuth
	1 			 1		Position	es C. Witcher logist
						SWT Date	DI-NMSU MRy 1990
	<u> </u> 						certify that the well location
	 		TORC 1 Z	7 ⊙ 		notes of under m is true a	n this plat was plotted from field actual surveys made by me or a supervision, and that the same and correct to the best of my me and belief.
	1 1 1			1		Date Survey	ed
	t j			- 		Registered P and/or Land	rofessional Engineer Surveyor
······································	41 0201 (Set Ge	00 2310 2640	2000	1:00 1000	NOO 0	Cortificate N	la.

STATE DI ENERGY AND MII	F NEW MEX NERALS DEI	KICU .	DIL CONSERVA P. O. BO) SANTA FE, NEW	K 20	88				Form G-101 Adupted 10-1-74 Revised 10-1-78
NO. OF COPIES REC	EIVED								
DISTRIBUTIO	ч. I						[5. Indicate	Type of Lease
File		APPLI	ICATION FOR PERMIT TO DRILL, DEEPEN,					STATE	none FEE
N.M.B.M.									ase No.
U.S.G.S.						** •			N/A
Operator							Γ	IIIII	
Land Office									
la. Type of Work	Drill 🕅		Deepen		Plug Back	7	^	7. Unit Agre	ement Name
							l l		N/A
b. Type of Well	Geother	mal Producer 🔲			-	3		8. Farm or Lease Name	
	Low-Ten	np Thermal 🛛 🗖	h	njec	tion/Disposal [City of T. or C.	
2. Name of Operator	New Me Southw	exico State Univ vest Technology	Persity Development In	nst	itute	•		9. Well No.	FORC 1
3. Address of Operation	эг Р. О.	Box 30001 Dept	3 SOL Las Cru	ces	s, New Mexico	, 88	3003		f Pool, or Wildcat F. or C.
4. Location of Well	UNIT LET	TERLOCAT	ed <u>1970</u> feet	FRO	M THE <u>sout</u>	1	LINE		
and 1470 F	EET FROM	THE EastLINE OF	_{SEC.} 33 _{тwp.} 13	so	outh _{RGE.} 4 wes	st	NMPM		
MMMMM	IIIII			\prod	MMMM	Π	<u>IIIIII</u>	12. County	
				Π		$\overline{//}$		Sierr	a ())))))))
				19.	Proposed Depth 300 feet		9A. Formation Santa Fe		20. Rotary or C.T. rotary
21. Elevations (Show 4290 fee			& Status Plug. Bond To 10K MULTI-	211	B. Drilling Contracto Larjon	эг		22. Appro May	x. Date Work will start 1990
•	·	were &	ROPOSED CASING A)	м			
SIZE OF HO	LE	SIZE OF CASING	WEIGHT PER FOOT	-	SETTING DEPTH	1	SACKS OF	CEMENT	EST. TOP

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
6 inch	1-2 inch				
	<u> </u>				

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. Give blowout preventer program, if any.

۰.

a hereby certif hat the information aboye is/rue and complete to the best of my knowledge and belief. 4 MAJ 1990 igned -Jane 4 _ Tille_Geologist - Date . Witcher (This space for State Use) DATE 5-24-90 **DISTRICT SUPERVISOR** APPROVED BY 24 TITLE CONDITIONS OF APPROVAL, IF ANY:

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-	ENERGY	ND	MINERA	LS DE	EPARTMENT	

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OIL CONSERVATION DIVISION P. O. 110 X 2044 SANTA FE, NEW MEXICO 87501

Form G-102 Adopted 10-1-74 Revised 10-1-78

GEOTHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION PLAT

perator New Me	exico State U	All distances must be fr Jniversity	Lease	ity of T. or C.	Well No.		
		Development Instit	· · · · · · · · · · · · · · · · · · ·		TORC 1		
nit Letter J	Section 33	Township 13 south	Range 4 west	County Sierra			
tual Footage Loo	cation of Well:						
1970	feet from the	south line		feet from the east	line		
ound Level Elev. 290 feet			Pool		Dedicated Acreage:		
		ry Santa Fe Group					
1. Outline	e the acreage dedic	cated to the subject well by	/ colored pencil or	hachure marks on the plat	below.		
	e than one lease i yalty).	is dedicated to the well, o	utline each and ide	entify the ownership there	of (both as to working inter		
		of different ownersip is de ation, force-pooling, etc?	edicated to the wel	ll, have the interests of all	owners been consolidated		
[] Yes	s 🗌 No If	answer is "yes," type of c	onsolidation				
	is "no," list the o	owners and tract description	ons which have act	ually been consolidated. (I	Jse reverse side of this form		
No allow:	able will be ass	signed to the well until) or until a non-standard u		-	communitization, unitizatived by the Division.		
				1	CERTIFICATION		
	1		, I	I hereb	, y certify that the information		
	1		l I		contained herein is true and complete to		
	ł .		1	the best	of my knowledge and belief.		
	1		1		Clittle		
				Name			
	ł		1	Position	<u>es C. Witcher</u>		
	1		i i		logist		
	i		I	Company	109150		
	1		1	SWI	DI-NMSU		
	1			Date	/ 100		
	1		İ		1 May 1990		
				I hereby	r certify that the well locati		
	I	TOR	21	shown o	n this plat was plotted from fie		
	1		2701		actual surveys made by me		
	1		- / 01		y supervision, and that the sai		
	1		1		and an example of the first first		
	 		1		and correct to the best of n ge and belief.		
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				Date Survey	ed 'rofessional Engineer		
				Date Survey	ge and belief. red Professional Engineer		