

GTLT - _____2_____

**NMSU-SW Tech.
UL: E 5-16N-16E
San Miguel County**

**DRILLED:
~1995-96**

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 RECEIVED	
DISTRIBUTION	
File	
N.M.B.M.	
U.S.G.S.	
Operator	
Land Office	

APPLICATION FOR PERMIT TO DRILL, DEEPEN,
OR PLUG BACK---GEOTHERMAL RESOURCES WELL

5. Indicate Type of Lease
STATE ☐ FEE ☐
5.a State Lease No.
N/A

1a. Type of Work Drill ☒ Deepen ☐ Plug Back ☐
b. Type of Well Geothermal Producer ☐ Temp Observation ☒
Low-Temp Thermal ☐ Injection/Disposal ☐
1. Name of Operator
New Mexico State University - SW Tech. Dev. Inst.
3. Address of Operator
P.O. Box 30001, Dept. 3SOL Las Cruces, New Mexico 88003
4. Location of Well UNIT LETTER E LOCATED 700 (E) FEET FROM THE West LINE
AND 2400 (E) FEET FROM THE North LINE OF SEC. 5 (U) TWP. 16N (U) RGE. 16E (U) NMJM

7. Unit Agreement Name
N/A
8. Farm or Lease Name
United World College
9. Well No.
UWC #1
10. Field and Pool, or Wildcat
Montezuma Hot Spring
12. County
San Miguel

19. Proposed Depth 400 Feet 19A. Formation Precambrian 20. Rotary or C.T. Air Rotary
1. Elevations (Show whether DF, RT, etc.) Est 6740 Feet (Surface) 21A. Kind & Status Plug, Bond Geothermal Observation 21B. Drilling Contractor To Be Selected 22. Approx. Date Work will start January 96

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12 1/4 in	9 5/8 in	36	10 feet	3	Surface
8 3/4 in	7 in	23	50 feet	12	Surface
6 1/8 in	Open	N/A	400 feet	N/A	50 feet

Purpose of the UWC #1 well is to obtain hydrologic, geologic, and temperature information for ongoing geothermal evaluation of the Montezuma Hot Springs area. An 8 3/4 in hole to about 50 feet depth will be cased with 7 inch casing. This surface casing will be cemented through the casing with about 100 percent excess volume of cement. An annular BOPE will be nipped-up to the surface casing and tested to 250 psi. Air -rotary 6 1/8 inch drilling to a maximum of 400 feet depth will complete the test hole. If sufficient fluids are encountered the hole will be cased with a 4 1/2 inch production casing and re-permitted as a geothermal low-temperature well. If no fluid is encountered the well will be abandoned per OCD regulation.

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

reby certify that the information above is true and complete to the best of my knowledge and belief.

ed James C. Witcher Title Geologist Date 11/15/95

ROVED BY [Signature] TITLE DISTRICT SUPERVISOR DATE 2/22/96
DITIONS OF APPROVAL IF ANY:

GEOHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION PLAT

All distances must be from the outer boundaries of the Section.

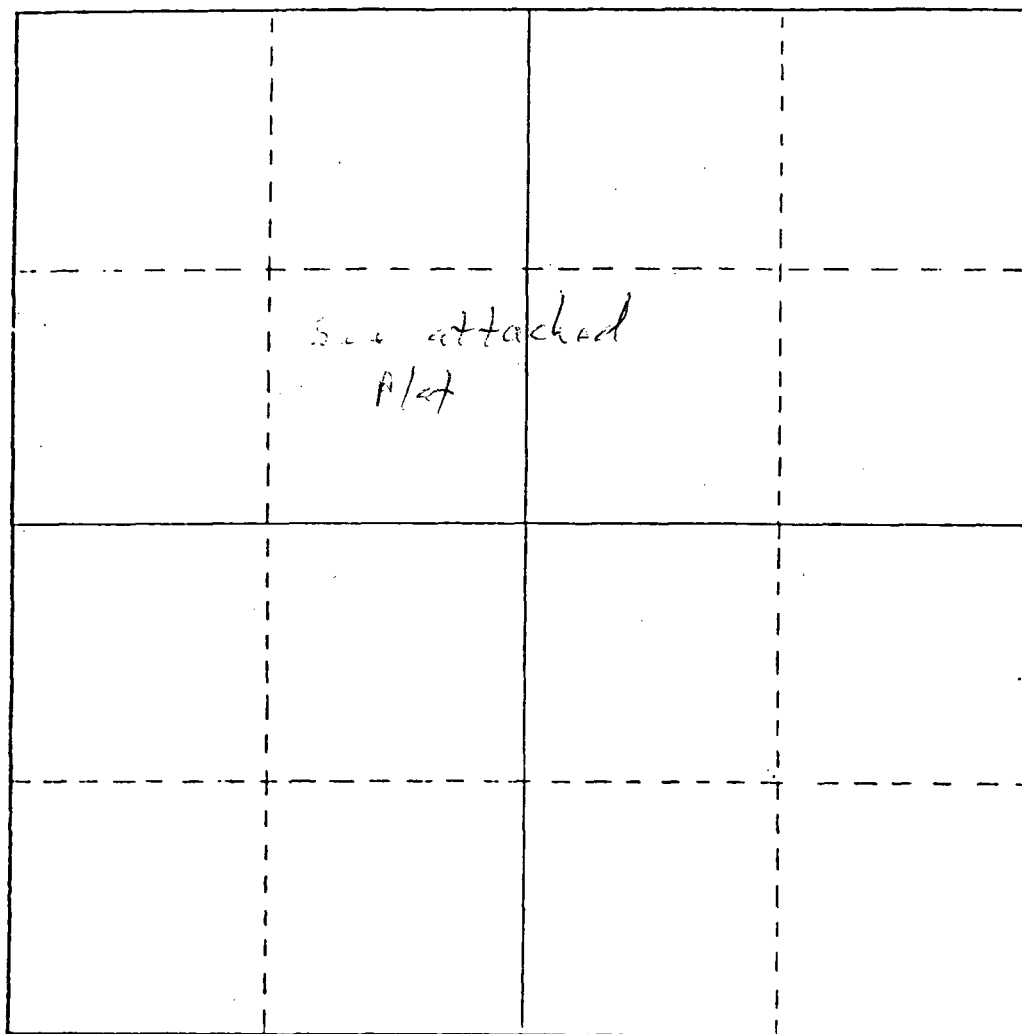
Operator New Mexico State University			Lease United World College			Well No. UWC #1		
Unit Letter E (Projected)	Section 5(Projected)	Township 16N (Projected)	Range 16E(Projected)	County San Miguel				
Actual Footage Location of Well: 240 (Est) feet from the North line and 700 (Est) feet from the West line								
Ground Level Elev. 6740 (Est)		Producing Formation Precambrian		Pool Montezuma Hot Springs			Dedicated Acreage: 10 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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 ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation N/A

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) N/A

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 Division.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name James C. Witcher
Position Geologist
Company New Mexico State University
Date 11/15/95

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.

12-8-95

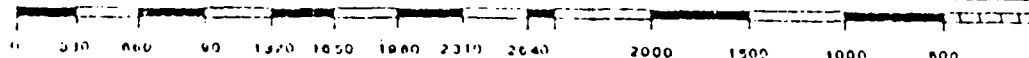
Date Surveyed

Registered Professional Engineer and/or Land Surveyor

Edward G. W. [Signature]

Certificate No.

NMPS 6999



n m State Univ.

OIL CONSERVATION DIVISION
SOUTHWEST TECHNOLOGY DEVELOPMENT INSTITUTE RECEIVED

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

96 JAN 4 AM 8 52



January 2, 1996

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

Dear Roy:

Enclosed are permit application, survey plot and plugging bond for a geothermal test at Montezuma, N.M. I am unsure if purchasing here at NMSU has properly executed the plugging bond. Please contact me if it is insufficient. Thank You.

Sincerely,

A handwritten signature in cursive script, appearing to read 'J. Witcher'.

James C. Witcher
Geologist

1-9-96

Talked w/ Jim on bond - does not want
to place this well on other NMSU bonds
- will file a single one well bond.
- mail bond form back.

NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

February 21, 1996

New Mexico State University
Box 30001
Dept. 3SOL
Las Cruces, New Mexico 88003-8001

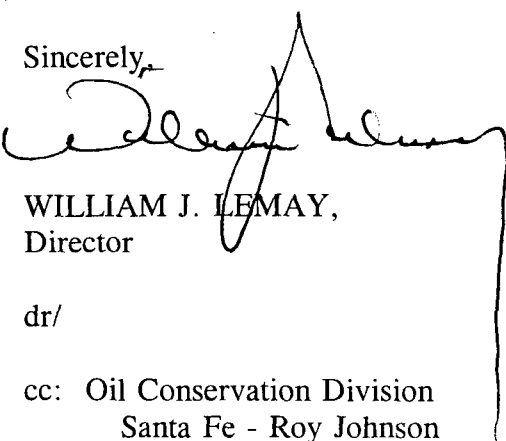
Attention: Tom Crawford

Re: \$2,000 One-Well Low-Temperature Thermal Well
or Geothermal Observation Well Bond
United World college Well No. 1
Unit E, Sec. 5, T-16-N, R-16-E,
Bond No. NGF 79316

Dear Mr. Crawford:

The Oil Conservation Division hereby approves the above-referenced geothermal bond.

Sincerely,



WILLIAM J. LEMAY,
Director

dr/

cc: Oil Conservation Division
Santa Fe - Roy Johnson

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 <input type="checkbox"/>	Fee <input type="checkbox"/>
5.a State Lease No. N/A	

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 <input type="checkbox"/> Temp. Observation <input checked="" type="checkbox"/> Low-Temp Thermal <input type="checkbox"/> Injection/Disposal <input type="checkbox"/>		7. Unit Agreement Name N/A
2. Name of Operator New Mexico State University-Southwest Technology Development Inst.		8. Farm or Lease Name United World College
3. Address of Operator P.O. Box 30001, Dept 3SOL Las Cruces, NM 88003		9. Well No. UWC #1
4. Location of Well Unit Letter E 700(E) Feet From The West Line and 2400 (E) Feet From North 5 (UNS) 16N (UNS) 16E (UNS) The Line, Section Township Range NMPM.		10. Field and Pool, or Wildcat Montezuma Hot Springs
15. Elevation (Show whether DF, RT, GR, etc.) EST 6740 Feet (Surface)		12. County San Miguel

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input checked="" type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG & ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>		CASING TEST AND CEMENT JOB <input type="checkbox"/>	
OTHER <input type="checkbox"/>		OTHER _____	

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

The UWC #1 well will not be drilled. Geothermal exploration activities by NMSU at Montezuma Hot Springs have terminated.

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

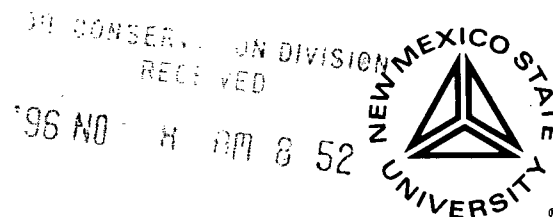
SIGNED James C. Mitcher  TITLE Geologist DATE 10/21/96

APPROVED BY  TITLE DISTRICT SUPERVISOR DATE 11/12/96

CONDITIONS OF APPROVAL, IF ANY:

SOUTHWEST TECHNOLOGY DEVELOPMENT INSTITUTE

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



21 October, 1996

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

Dear Roy:

Enclosed is a Sundry Report Notice, informing the OCD of the termination of exploration activities by NMSU at Montezuma Hot Springs (United World College). The currently permitted observation well will not be drilled.

Sincerely,

A handwritten signature in cursive script, appearing to read "J. Witcher".

James C. Witcher
Geologist/Project Manager