SUBMIT IN TRIPLICATE.

(Other instruction reverse side,

Form approved. Budget Bureau No. 1004-0136 Expires August 31, 1985

	DEPARTMENT	5. LEASE DESIGNATION AND SERIAL NO.		
	BUREAU OF	USA NM 67402		
APPLICATION	FOR PERMIT	6. IF INDIAN, ALLOTTER OR TRIBE NAME		
la. TYPE OF WORK				N/A
DRI	LL X	DEEPEN 🗌	PLUG BAC	CK 7. UNIT AGREEMENT NAME
b. TYPE OF WELL			SINGLE [ ] MULTIPI	N/A
WELL A W	ELL OTHER		ZONE ZONE	O. FARM OR BRADE NAME
2. NAME OF OPERATOR	ain Production	Company		Federal
3. ADDRESS OF OPERATOR	an rroduction	Company		
	394 408 Petrol	eum Rlda Ril	lings, MT 59103	NO. 1 10. FIELD AND POOL, OR WILDCAT
LOCATION OF WELL (R	eport location clearly and	In accordance with any	State requirements.*)	Wildcat
A A = " a a a	' FSL, 2000' FE		,	11. SEC., T., B., M., OR BLE.
	Townshin 1	6 North-Range	7 West	AND SURVEY OR AREA
At proposed prod. zon		County, New Mex		NW SE Sec. 6: T16N-R7W
4. DISTANCE IN MILES /	IND DIRECTION FROM NEA	BEST TOWN OR POST OFF	icn*	12. COUNTY OR PARISH   13. STATE
	orth of San Mat			McKinley NM
D. DISTANCE FROM PROPU	SED*		NO. OF ACRES IN LEASE	17. NO. OF ACRES ASSIGNED
PROPERTY OR LEASE L	INE, FT.	1700'		40 acres
(Also to nearest drig	OSED LOCATION®		PROPOSED DEPTH	20. ROTARY OR CABLE TOOLS
TO NEAREST WELL, DI OR APPLIED FOR, ON THE		1700'	2880'	Rotary
21. ELEVATIONS (Show whe			2000	22. APPROX. DATE WORK WILL START*
6780' GR	DRILLING OFFICE A			This action is subject to technical and
23.	SUBJECT TO T	PROPOSED CASING A	ND CEMENTING PROGRA	Amprocedural review pursuant to 43 CFR 3165.3
				and appeal pursuant to 43 OFR 3165.3
SIZE OF HOLE	BIZE OF CABING	WEIGHT PER FOOT	SETTING DEPTH	and appeal NUMBER decis OFR 3155.4
12-1/4"	8-5/8"	24# New	100 <sup>1</sup>	40 sacks "G" + 2% CaCl2. Yield:
7-7/8"	5-1/2"	14# New	2880	270 sacks 50/50 Pozmix.+ 6% Gel
				10% salt. Yield:1.38 ft <sup>3</sup> /sack
	<u>.</u>	en berton	add Al	Weight: 13.1 ppg Top of cement @ 1300' (est.)
	£-	1000	750	Top of cement & 1300 (est.)
رت مــــ	£3	D. L. A.D.		
÷ €	See at	FEFT I	- <del>4</del>	E70 × 1.38 × 5.77:2149
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CO William R		- Come -	m week	
9	4	1.00		
	in g	fee		
[-dia-	•	n. la le	ad Sheet	
		March 2	in weel	<u> </u>
		proposal is to deepen or	plug back, give data on pr	resent productive sone and proposed new productive
one. If proposal is to	drill or deepen directions			nd measured and true vertical depths. Give blowout
reventer program, if any	7/		loo Duk	
// //	/ / /			
/ [ <i>M</i> ] /	luk.		Joe Dyk	inoor Echnusmy 22 100
SIGNED	lyk	TITLE	Petroleum Eng	ineer February 23, 198

UNILED STATES

CONDITIONS OF APPROVAL, IF ANY:

AE1)

FARMENICATION

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false. fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Application for Permit to Drill Federal No. 1 NWSE Section 6-T16N-R7W McKinley County, New Mexico

- 1. Surface Formation is the Menefee.
- 2. Anticipated Geologic Markers are: Hosta/872', U. Hospah/1522', Gallup/1782', Greenhorn/2392', Dakota/2472', Morrison/2862', Total Depth/2880'.
- 3. Oil is Anticipated in the upper and lower Hospah. Oil and gas are possible in the Dakota.
- 4. Proposed casing program: See item no. 23 above.
- 5. Pressure control equipment: See attached Well Control Plan and Schematic of Drilling Contractor's BOP Stack. BOP's will be tested before drilling out from under surface casing and checked daily.
- 6. Fresh water and gel will be used to drill the surface hole. A chemical-gel type mud will be used to drill to total depth.
- 7. Auxiliary equipment: See Well Contol Plan.
- 8. The logging program will consist of a DIL and GR-FDC-CNL log from total depth to the base of the surface casing.
- 9. No abnormal pressures or temperatures are anticipated. No poisonous gas is anticipated.
- 10. Anticipated spud date is March 15, 1989. Completion operations should commence within 30 days of rig release.
- 11. Survey plats are attached.
- 12. Oil will be sold to Farmington area refineries. Gas will be used as fuel or reinjected for pressure maintenance.
- 13. Designation of Operator from Conoco to Lone Mountain Production Company is attached.

SEC. 6, 7	T. 16 N. R. 7 W. OF THE N.M.P.M.	LOCATION PLAT
<b>6</b>	540 .05 DUE EAST	(6)
		81.80
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		PARTING DESCRIPTIONS
		19 May 11.
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	SEC. 6	\h\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
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<b></b>		·(g)
	1'00X-11A1 5313.32 GR.	WATE PRODUCTION CO
HIS WELL LOC D LOCATE THE	CATION PLAT WAS PREPARED FOR LONE MOUN	TAIN PRODUCTION CO.
	IN THE SEA, OF SECTION	6 ,T. 16N , R. 7 W NEW MEXICO
THE WALLS	1/2 - M/K	NEW PIEXICO
/	STATE OF THE NEW PORTS	
	((7001))	2 A (1)
/	DENNIS L. MII	RABAL, V.L.S. LIC 700
is is to ce	DENNIS L. MII ert (A) that am a Registered Land Surv one from field notes by me or under my	veyor and that this
ırvey was do ı <b>d i</b> s true a	one fidm"field notes by me or under my and correct to the best of my knowledge	y direct supervision e and belief.
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rveyed awn	MIRABAL SURVEYING CO. 824 MT. TAYLOR GRANTS, NM 8702	scale 1"=1000 job no.
ecked	824 MT. TAYLOR GRANTS, NM 8702	sheet of

#### WELL CONTROL PLAN

- 1. Surface Casing: 8-5/8" O.D., 24#, L.S., STC, set at 100', cemented with pump and plug method back to the surface.
- 2. Casinghead Flange: 8-5/8" x 10" 600 series casinghead with two 2", 2000psi L.P. outlets.
- 3. Blowout Preventer: A 10" 2000 psi W.P. hydraulic Annular Preventor capable of closing in on itself.
- 4. Auxiliary Equipment: (a) Drill pipe floats will be allowed at contractor's discretion. (b) Visual monitoring of pit levels will be maintained. (c) Upper kelly cock will be used. (d) Stabbing valve will be kept on the floor.
- 5. Anticipated bottom hole pressure is 950 psi at 2880 or 0.33 psi/ft. No abnormal temperatures or hydrogen sulfide gas are anticipated.

LONE MOUNTAIN PRODUCTION COMPANY

By:

Joe V. Dy)

Petroleum Engineer

# LONE MOUNTAIN PRODUCTION COMPANY

# Drilling Program

WELL NAME: Federal No. 1 LOCATION: (NW/4 SE/4) 1700 COUNTY: McKinley	PROSPECT/FIELD: Padilla Prospect  O FSL, 2000 / FEL, SECTION 6 , T16N , R7W  STATE: New Mexico TOTAL DEPTH: 2880 ft
HOLE SIZE:	DEVIATION SURVEYS:
12.25 " to 100 '	Every 30 from 0 to 100 .
<b>7.875 "</b> to 2880 /	Every 200 ' from 100 ' to 2880 '
* "to * '	Every & 1 Can
* "to * '	Discourse M. 2 F
* " to * '	Ell'appropriate de la grandia
	Every * 'from * 'to * '

### CASING/CEMENTING PROGRAM:

Type String	Depth		Casing		Cement	
	From	Tα	Size	Weight	Grade	Cament
SURFACE	0 ′	100′	8 5/8"	24 #/'	K-55	the plant had been the property and the plant and the plan
*	*	*	*	*-'T TI/ **	κ	CEMENT TO SURFACE WITH 40 SX FREM
*	*	*	*	*	*	*
PRODUCTION	28801	Φ'	5 1/2"	14.0 #/	′J-55	270 sx 50/50 Poz +
*	*	*	*	*	*	6% Ge1 + 2% CaC1
₩	*	*	₩.	*	*	*
₩.	₩	*	*	*	*	··

### DRILLING FLUID PROGRAM:

Type	Depth						
Alter place upon below bodge minor back have Alter man, buff 1000 block have	From	To	Weight	Vis.	W.L.	Comments	
Spud Mud Water Chem Gel *	1300 ′ 100 ′ 100 ′	100 ' 1300 '	8.4-8.8 8.4-8.6 8.6-9.6	28 32-40	NC	* * 8-12 cc for :	cones
*	*	*	*	*	*	of interest	

#### COMMENTS:

Mudlogger on above Hospah.

DST's are possible in the Hospah and Dakota.

\*

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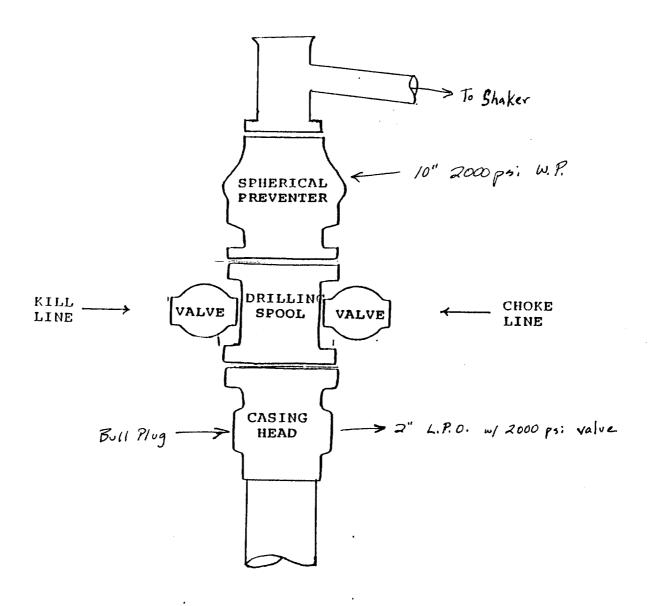
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PREPARED BY: Joe Dyk

DATE: February 10, 1989

# BLOWOUT PREVENTER STACK ARRANGEMENT



## Hydril MSP

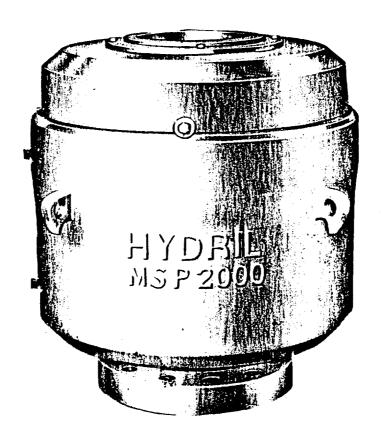
# Operating Features

 Will close on open hole. (but not recommended)

2) Primary usage is in diverter systems.

3) Automatically returns to the open position when closing is released.

closing is released.
4) Sealing assistance is gained from the well pressure.



#### SURFACE USE PLAN

Lone Mountain Production Company Federal No. 1 NWSE Section 6-T16N-R7W McKinley County, New Mexico

#### 1. EXHISTING ROADS

See Maps #1 and #2 and Plat #1. This proposed well is located approximately 10 miles north of San Mateo, New Mexico.

2. ACCESS ROADS TO BE CONSTRUCTED

See Map #1 and Plat #2

3. LOCATION OF EXISTING WELLS

See Map #3.

4. LOCATION OF PRODUCTION FACILITIES

Submitted in the event the well is completed.

5. LOCATION AND TYPE OF WATER SUPPLY

The source of water for this well is the Demitro Flores Water well located in SWSW of Section 9-T16N-R7W. It is used to water livestock on the Lee Ranch.

6. SOURCE OF CONSTRUCTION MATERIALS

No construction materials will be used other than native materials. Soil from cuts will be used in fills. No outside material will be brought in.

#### 7. METHODS FOR HANDLING WASTE MATERIAL

Cuttings will be buried in the reserve pit at cleanup. Garbage and other waste material will be contained in a trash cage. This cage will be dumped at an approved sanitary landfill. Human waste will be contained and will be disposed of at an approved sanitary landfill.

Drilling fluids will be contained in the reserve pit and left to evaporate. Any fluids produced during testing operations will be collected in a test tank. If a test tank is not available, the fluids will be contained in the reserve pit. Any spills of oil, gas, saltwater, or noxious fluid will be cleaned up and removed. If the well is productive, produced water will be disposed of on site for 30 days only or 90 days with the permission of the State Petroleum Engineer. After that time application will be made for approval of permanent disposal method in compliance with the rules and regulations of the State of New Mexico.

#### 8. ANCILLARY FACILITIES

No ancillary facilities are planned.

#### 9. WELLSITE LAYOUT

See Plat #2 - Pit and Pad Layout See Plat #2A - Cross Sections of Pit and Pad See Plat #3 - Rig Layout

The location will be constructed large enough to accommodate the drilling rig and associated equipment with allowance made for future completion and production equipment.

Topsoil will be stripped to a depth of 8 - 12 inches and stockpiled on the north edge of the location. No topsoil stripping will be done when soils are moisture saturated to a depth of 3 inches, or frozen below the stripping depth.

The reserve pit will be fenced on three sides prior to drilling activity at the request of the Lee ranch and closed off on the fourth side after drilling is finished. Fencing will be four strands of barb wire or 48 inch woven wire with one strand of barb wire above the woven wire. All corners will be braced with a wooden H-type brace. The fence construction will be on cut or undisturbed surface.

The backslope of the location will not exceed 2:1.

All construction activities will be confined to the minimum area necessary. The exterior boundaries of the construction area will be clearly flagged prior to any surface disturbing activities or vegetation removal.

The proposed access road will be flat bladed as necessary. No traffic will be allowed outside of the right of way.

#### 10. PLANS FOR RECLAMATION OF THE SURFACE

A biodegradeable mulch may be required if soil erosion or vegetation establishment is determined to be a problem by the authorized officer on the access or location reclamation.

All disturbed areas will be seeded with the seed mixture as outlined in the stipulations.following mixture. Application

Lone Mountain will prepare seedbed by contour cultivating 4 - 6 inches deep and drilling seed 1/2 to 1 inch deep following the contour. In areas that cannot be drilled, seed will be broadcast at 1.5 times the application rate and covered 1/2 to 1 inch deep with a harrow or drag bar.

Seeding will be completed during the approved time frame.

If the well is a producer:

Lone Mountain will upgrade and maintain access roads as necessary to prevent soil erosion and accomodate year-round traffic. Lone Mountain will reshape areas unnecessary to operation, rip or disk on the contour, and seed all disturbed areas outside the work area according to the approved seed mixture. The top soil will be saved for use during final reclamation unless the site can be recontoured to blend with the natural topography as required for final abandonment. Perennial vegetation will be established. Additional work will be required in case of seeding failures. All permanent facilities placed on the placed on the location will be painted the color specified by the BLM to blend with the natural environment.

If the well is abandoned/dryhole:

Lone Mountain will restore the access road and location to blend with the natural topography. During reclamation of the site, fill material will be pushed into cuts and up over the backslope. No depressions will be left that could trap water or form ponds. Topsoil will be distributed evenly over the location and seeding according to the above seed mixture. The access road and location will be ripped or disked prior to seeding.

The area is considered to be satisfactorily reclaimed when:

- A) Soil erosion resulting from the operation has been stabilized.
- B) A vegetative cover at least equal to that present prior to disturbence and a plant species composition at least as desireable as that present prior to disturbance has been established. Establishment of seeded species in the approved seed formula will be considered as acceptance.

Additional work will be required until these conditions are satisfied.

#### 11. SURFACE OWNERSHIP

Owned By Iona Lee.

#### 12. OTHER INFORMATION

Lone Mountain will contact the Farminton BLM Manager at least 24 hours prior to commencing construction or maintenance of the access road and well pad.

Lone Mountain will immediately bring to the attention of the Farmington Resource Area Manager any and all antiquities or other objects of historic or prehistoric ruins, artifacts, or fossils discovered as a result of operations under this permit. Lone Mountain will immediately suspend all activities in the area of the object and will leave such discoveries intact until told to proceed by the Area Manager. Notice to proceed will be based upon evaluation of the cultural significance of the object. Evaluation will be by a qualified professional selected by the Area Manager from a federal agency insofar as practical. When not practical, Lone Mountain will follow the mitigation requirements set forth by the Area Manager concerning protection, preservation, or diposition of any sites or material discovered. In those situations where the Area Manager determines that data recovery and/or salvage excavations are necessary, Lone Mountain will bear the cost of such data recovery and/or salvage operations.

The Farmington Resource Area Manager will be notified at least 24 hours prior to commencing reclamation work.

#### 13. LESSEE'S OR OPERATOR'S REPRESENTATIVES AND CERTIFICATION

James G. Routson
Lone Mountain Production Company
P.O. Box 3394
Billings, Montana 59103
Office Phone: 406-245-5077
Home Phone: 406-245-8797

Joe Elledge Field Consultant P.O. Box 111

Farmington, New Mexico 87499

Phone: 505-327-9267

I hereby certify that I, or persons under my supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with operations proposed herein will be performed by Lone Mountain Production Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

February 23, 1989

Date

ames G. Routso

PIT & PAD LAYOUT

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50'RP . B

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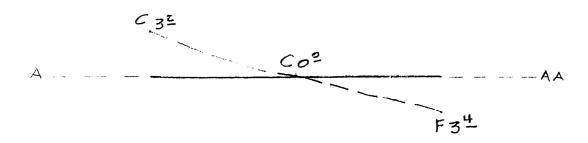
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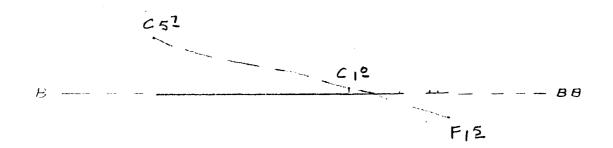
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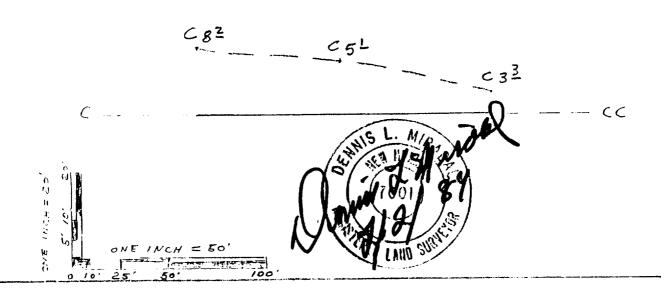
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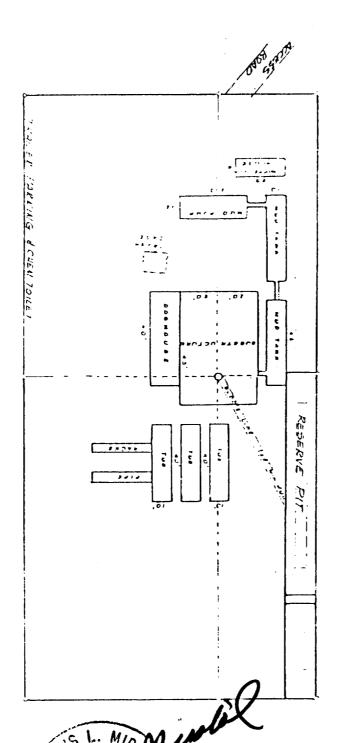
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# CROSS SECTIONS PIT & PAD

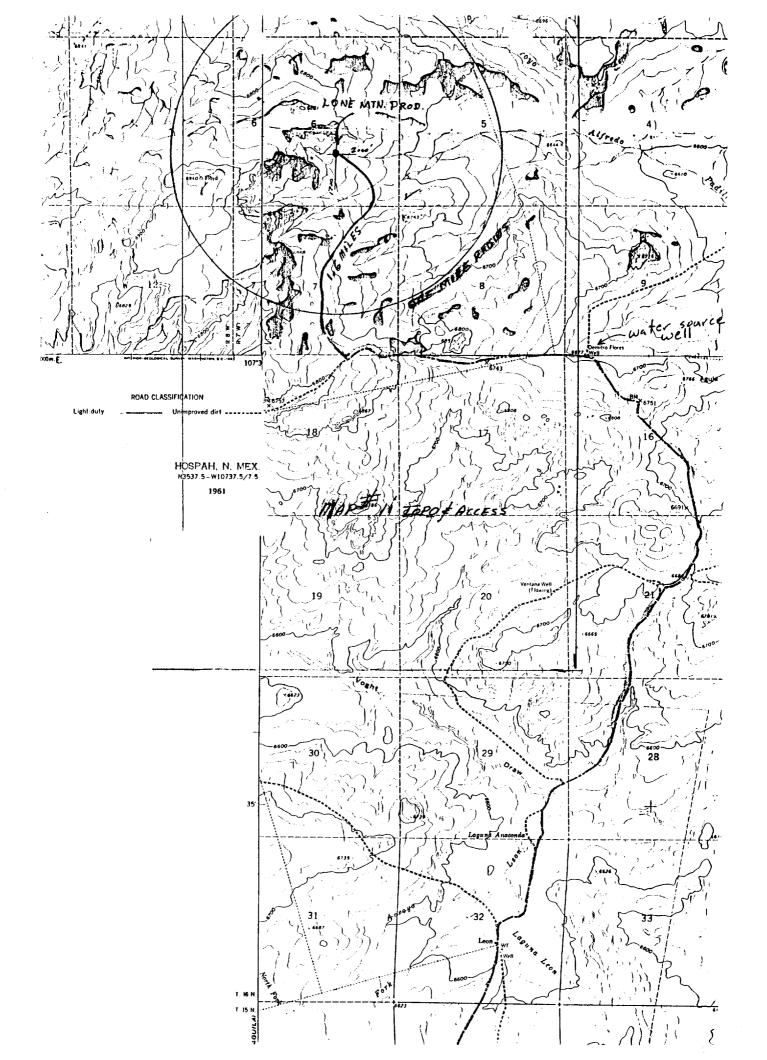


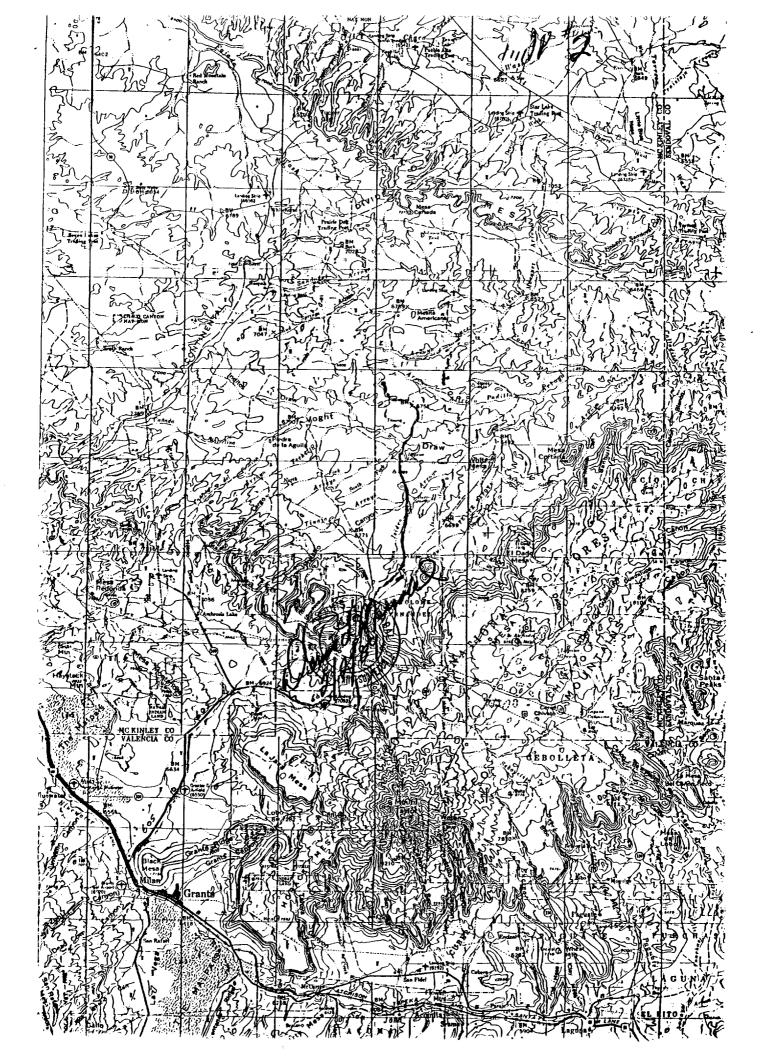






LONE MTN. PROJ. CO.





#### 1. Existing Roads

See maps #1 and #2 and Plat #1. This proposed well is approximately 24.7 miles Northwest of the town of San Mateo. It is reached by going from the intersection of (in Milan, NM), the Santa Fe Railroad and Highway 605, Northeast on H/W 605 approximately 22.4 miles. Then LT. on H/W 456 1.7 miles then LT. on the Santa Fe Coal Mine Road approximatley 7.7 miles, then turn RT. on a dirt road approximately 13.7 miles, then turn rt. on new access road 1.6 miles to well location

#### 2. Access road to be Reconstructed

See map #1 and Plat #1. The access road which lies Northerly through Section 7, and into Section 6. I will be necessary to grade and widen this road.

#### 3. Location of Water Well

This well is located approximately  $1\frac{1}{4}$  miles South, and  $1\frac{1}{4}$  miles East of the proposed well sight. This is a Lee Ranch Well used to water their livestock.

#### 4. Wellsite Layout

See Plat #2 - Pit & Pad Layout See Plat #2A - Cross Section of Pit and Pad See Plat #3 - Rig Layout

#### 5. Other Information

The Vegetation includes juniper, pinon, sage brush, and grama grass.

2/2/89

Dennis L. Mirabal

A HEAD

7001