#### SUBMIT IN TRIPLICATE\*

Form approved. Budget Bureau No. 42-R1425.

(Other instructions on reverse side)

UNITE				
DEPARTMENT	OF	THE	INTERI	OR

UNITED STATES reverse side)				30-049	5-2	3014		
DEPARTMENT OF THE INTERIOR				5. LEASE DESIGN.	ATION AN	D SERIAL NO.		
GEOLOGICAL SURVEY				NM 33046				
APPLICATION	N FOR PERMIT	O DRILL, I	DEEPEN, C	R PLUG	BACK	6. IF INDIAN, ALI	OTTEE OF	TRIBE NAME
1a. TYPE OF WORK	** (					7 777		
DRI	H 🔀	DEEPEN [		PLUG BA	CK ∐	7. UNIT AGREEM	ENT NAM	E
b. TYPE OF WELL			SINGLE T	יז אַטער ר	Pr.B (***)			
WELL W	ELL OTHER		ZONE Z	ZONE		8. FARM OR LEAS	E NAME	
2. NAME OF OPERATOR						Federal 34		
	oration Company	·				9. WELL NO.		
3. ADDRESS OF OPERATOR		_				2		-
602 Midland S	avings Bldg.;44	4 Seventeer	nth St.; [	enver,Co.	. 80202	10. FIELD-AND P	OOL, OR	WILDCAT
4. LOCATION OF WELL (Re		in accordance wit	h any State requ	irements.*)		WAW Pictur	ed Cl	iffsex+
1850' F	SL & 790' FEL				/	11. SEC., T., R., M AND SURVEY		
At proposed prod. zone						CEC OA TOT	N D13	и
SAME  14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE®					SEC. 34, T27			
14. DISTANCE IN MILES A	IND DIRECTION FROM NEAD	REST TOWN OR POS	r Office-				ARISH	
		<del> </del>				San Juan		NM
LOCATION TO NEAREST			OF ACRES ASSIGNED HIS WELL	•	e j			
PROPERTY OR LEASE LINE, FT. (Also to nearest drig, unit line, if any)			160		Yan da yan da ya kara ka			
18. DISTANCE FROM PROPOSED LOCATION* 19. PROPOSED DEPTH 20. ROTA			RY OR CABLE TOOL	3 .				
TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.			Rota	ry				
21. ELEVATIONS (Show whe	ther DF, RT, GR, etc.)					22. APPROX. DA	TE WORK	WILL START*
6086 G.L.					····	May	15, 1	978
23.	F	PROPOSED CASIN	G AND CEME	NTING PROGR	AM	-		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	OOT SET	TING DEPTH		QUANTITY OF	CEMENT	
7 7/8	5 ½	15.5	5 4	0		50 sk		
4 3/4	2 7/8	6.5	5 1	500		125 sk.		
·		•	•					

(See attachments)



APR 26 1978

U. S. GEOLOGICAL SURVEY

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. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any. 24. Agent PERMIT NO.

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY

TITLE

# NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102 Supersedes C-128 Effective 1-1-65

All distances must be from the outer boundaries of the Section. Operator Well No. Dietrich Exploration Company, Inc. Federal 34 County Range 13W 27N San Juan Actual Footage Location of Well: 1850 790 feet from the East feet from the South line and line Ground Level Elev. Producing Formation Dedicated Acreage: Fruitland 6086 Pictured Cliffs Pictured Cliffs 160 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 ownership 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 \_ ☐ Yes ☐ No 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 the best of my knowledge and belief. <u> Alexander</u> Position Agent Company 3E Company, Inc 4-25-78 Sec 34 I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or 7901 under my supervision, and that the same is true and correct to the best of my knowledge and belief.

1320 1650 1980 2310

2000

1500

1000

50Q

### Dietrich Exploration Co.

## Formation Information and Drilling Procedures

WELL:

Federal 34 No. 2

LOCATION:

1850' FSL & 790' FEL Sec. 34, T27N, R13W San Juan, New Mexico

LEASE NUMBER:

NM 33046

1) Geologic name of surface formation.

Ojo Alamo

2) Estimated tops of important geologic markers.

Kirtland 192' Fruitland 997' Pictured Cliffs 1360'

3) Estimated depths at which anticipated water, oil, gas or other mineral-bearing formations are expected.

997' gas 1360' gas

4) Proposed casing program.

Surface: 5½, 14.0 1b/ft, K-55, Used casing, to be set at 40'.

Cement to be 50 sk. Class "B" with 2% CaCl2.

Production: 2 7/8", 6.4 lb/ft, J-55, used to be set at 1500'.

Cement to be 125 sk Class"B".

5) Specifications for pressure control equipment.

The attached schematic shows the type of blow out preventer to be used while drilling. The unit will be tested to 200 psi. as soon as possible after its installation on the surface pipe. Testing will be done with the rig pump. This is a manual type preventer, and its operation will be manually checked when practical.

6) Drilling fluids.

Depth Type Vixcosity Weight Fluid loss(cc) 0-1500' gel-lime 35-55 8.9-9.2 15

7) Auxiliary equipment.

a. bit float

b. full opening valve for stabbing in drill pipe when the kelly is not in use.

8) Logging-Coring-Drill Stem Testing.

Logging: Induction Electric Log, Formation Compensated Density,

Compensated Neutron log, Gamma ray, Caliper.

Coring: None

Drill Stem Testing: None

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Page 2 (cont.)
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9)

None expected.

10) Starting date.

ximately 3 days to complete.

If commercial, completion will commence immediately and require appro-

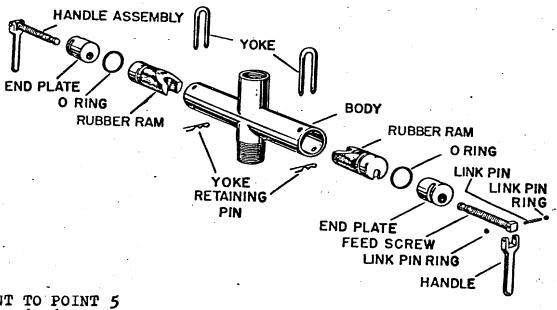
Anticipated starting date is May 15, 1978. Approximately 5 days will be needed to build roads and location and drill the well to total depth.

Abnormal temperatures, pressures, or hazardous conditions.

# **G TUBING BLOWOUT PREVENTERS**

# G BLOWOUT PREVENTER RAMS

PREVENTER SIZE	2-3/8''	2-7/8."	3-1/2"
RAM I.D. INCHES	Part No.	Part No.	Part No.
Blank	28 2 <b>62</b>	28263	28264
9/16"	5938 <b>3</b>	45019	59388
5/8"	44948	44969	5939 <b>3</b>
3/4"	59391	41502	59410
7/8"	59392	54571	5938 <b>9</b>
1"	59384	59386	4590 <b>3</b>
1.050"	44949	41424	450 <b>56</b>
1-1/8"	28354	28336	28365
1-1/4"	28355	28331	28366
1.315"	45055	44109	44057
1-3/8"	44730	59387	44964
1-1/2"	28356	28337	28367 .
1-5/8"	59385	46780	59390
1.660"	45462	43629	44963
1-3/4"	28357	28346	2836 <b>8</b>
1.900"	4546 <b>3</b>	43630	45609
2.063"	••••	•••	59394



ATTACHMENT TO POINT 5 API SERIES 6" 600

### Dietrich Exploration Company

#### Development Plan for Surface Use

WELL:

Federal 34 No. 2

LOCATION:

1850' FSL & 790' FEL Sec. 34, T27N, R13W San Juan, New Mexico

LEASE NUMBER:

NM 33046

1) Existing roads. (Shown in green.)

The attached topographic map shows all existing roads within one mile of the proposed location. Access will be made to a county road 200' south of the location.

All existing roads are in good condition and will not have to be upgraded to handle normal drilling activity traffic.

2) Planned access road. (Shown in red.)

The planned access road will be approximately 200' long and 20' wide. Maximum grade will be about 1%. No turnouts or culverts will be required. Water bars will be used to aid drainage and prevent erosion. No surfacing material will be required. No gates, cattle guards, or fences will be crossed. No cuts or fills should be required.

Location of existing wells.

All wells (water, abandoned, disposal, and drilling) are shown and so labled on the attached topographic map.

4) Location of tank batteries, production facilities and production, gathering and service lines.

All production facilities are to be contained within the proposed location. All other facilities owned or controlled by Dietrich Exploration are shown on the attached topographic map.

5) Location and type of water supply.

Water for drilling will be trucked from El Paso Natural Gas Chaco Plant located 6 miles southeast of location. This water is privately owned.

6) Source of construction material.

Any construction material required for road or location will be excess material accumulated during building of such sites.

7) Methods of handling waste disposal.

(Refer to attached well site layout.)

All burnable material will be burned in the trash pit when conditions permit. All nonburnable material (drilling fluids, cuttings, chemicals, etc.) will be held in the reserve pit and buried when dry. Any oil produced while drilling will be trucked from the location prior to leaving the pit to dry. Pits will be fenced during dryout time, then completely back filled with dirt prior to preparing the location for production or abandonment.

Page 2 (cont.)

# 8) Ancillary Facilities.

No ancillary facilities are planned.

## 9) Well site layout.

The attached layout shows the drilling rig with all facilities. Cut and fill required is also indicated.

# 10) Plans for restoration of surface.

Restoration of well site and access road will begin within 90 days of well completion, weather permitting.

Should the well be abandoned, the drilling site will be reshaped to its approximate former contour. The access road will be plowed and leveled. Both site and road will have top soil replaced and will be reseeded when germination can occur.

Should the well be commercial, that portion of the location, not needed for operation, will be repaired as above. The portion needed for daily production operations, and the access road, will be maintained in good repair.

In either case, clean up of the site will include burning any safely burnable material, filling of all pits, carrying away of all nonburnable material and chemicals that can not be buried. Any oil that has accumulated on the pits will be trucked away.

## 11) Other information.

General topography of the area may be seen on the attached map.

The drilling site is flat and is covered with sage brush and other native grasses. There are no creeks, rivers or ponds in the area. The soil is sandy loam. Small animals and sheep inhabit the area.

The surface is part of the Navajo Irrigation Project, administered by the Bureau of Indian Affairs.

There are no occupied dwellings in the area.

There are no archaeological or cultural sites visible on the location. The archaeologist report is forthcoming.

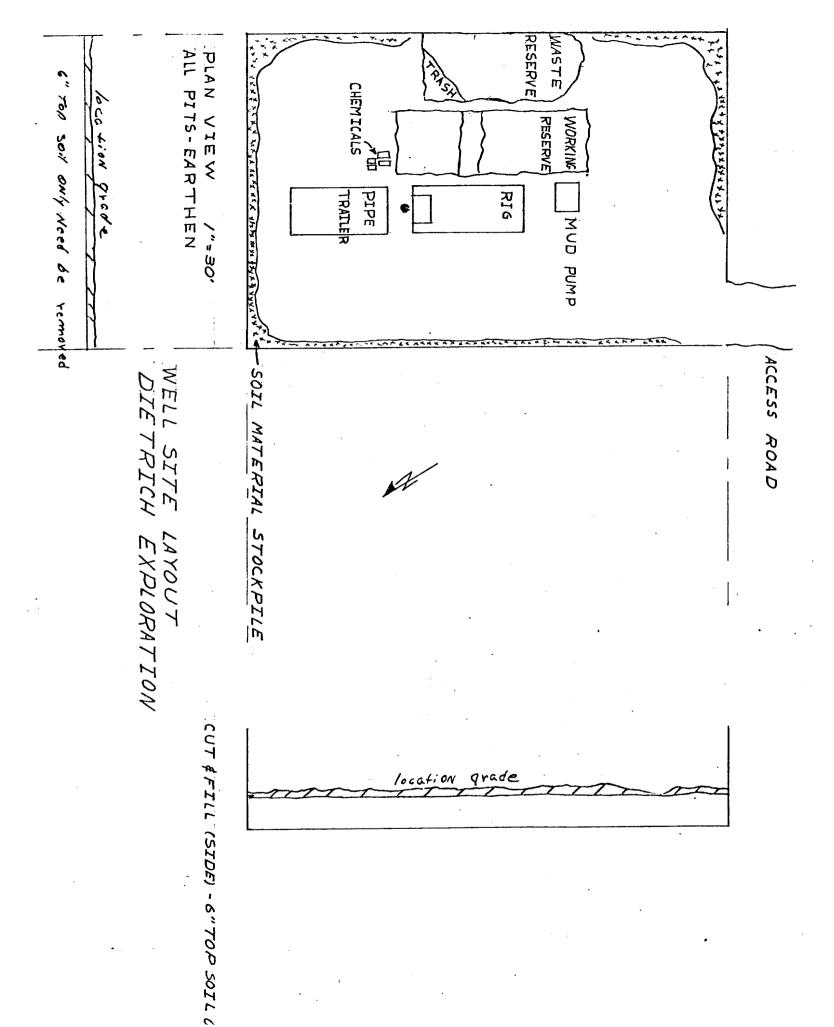
12)

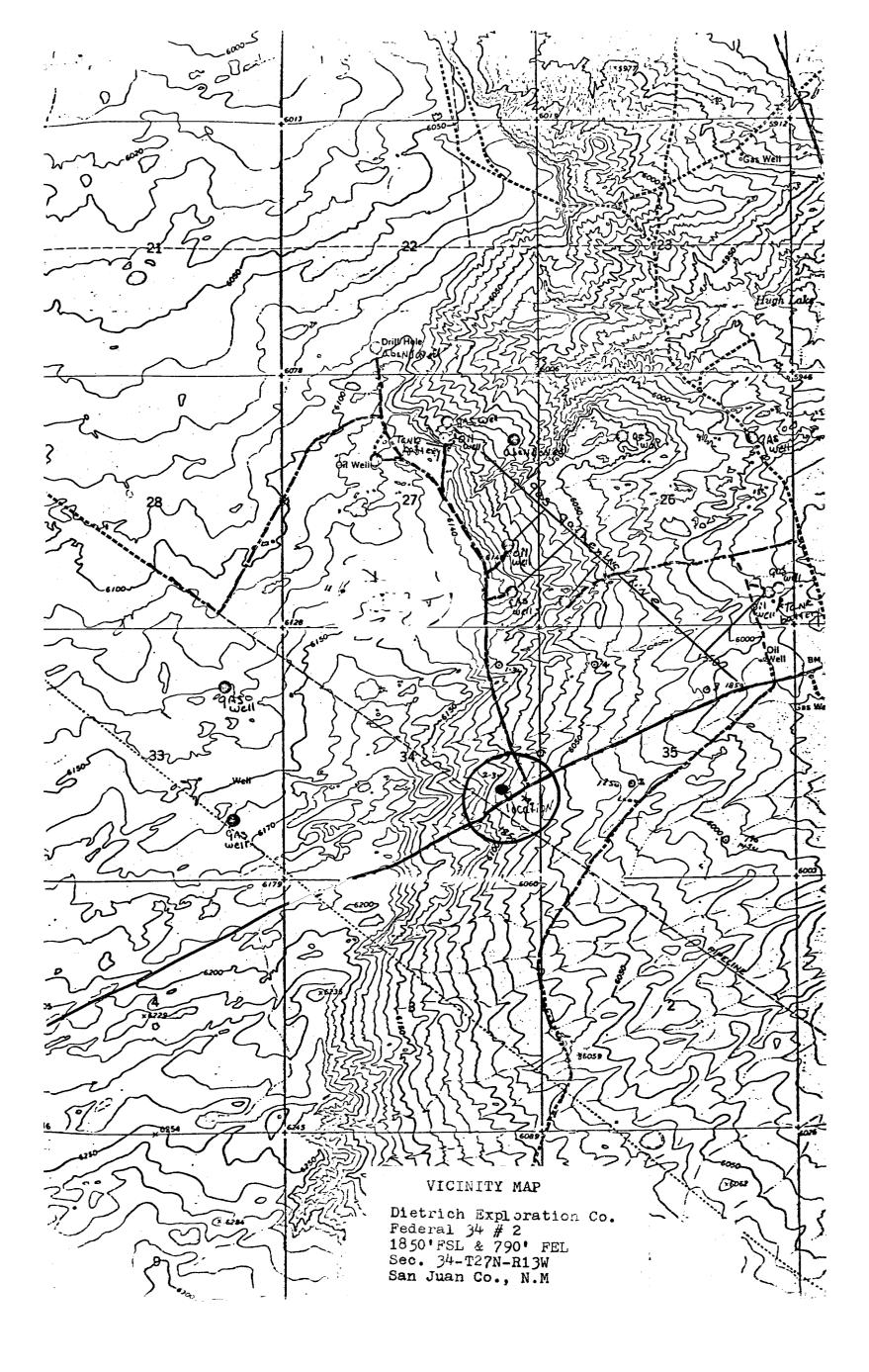
John Alexander 3E Company, Inc. P.O. Box 190 Farmington, NM 87401 Phone: 505-327-4020

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

4-25-78

John Alexander





# 3E COMPANY, INC.

Engineering • Energy • Exploration

P. D. Box 190 -:-- 505/327-4020

FARMINGTON, NEW MEXICO 87401

August 29, 1978

New Mexico Oil Conservation Commission 1000 Rio Brazos Road Aztec, New Mexico 87410

Attention: Mr. Al Kendrick

RE: Dietrich Exploration Co.

Federal 34 #2

1850' FSL and 790' FEL Sec 34, T27N, R13W

San Juan County, New Mexico

#### Gentlemen:

This is to certify that the following straight hole surveys were taken while drilling the subject well, as reported by the drilling contractor:

DEPTH

DEGREE

1400'

1/20

Sincerely yours,

John Alexander

JA:kj

Subscribed and sworn to before me this 29th day of August, 1978.

Notary Public

My commission expires: May 12, 1980

# UNITED STATES

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DEPARTMENT OF THE INTERIOR	NM 33046 13 1 4 1
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SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different	7. UNIT AGREEMENT NAME
reservoir. Use Form 9–331–C for such proposals.)	8. FARM OR LEASE NAME 설 설문문
1. oil gas well other	9. WELL NO. 2222 2 225
2. NAME OF OPERATOR Dietrich Exploration Company, Inc.	10. FIELD OR WILDCAT NAME
3. ADDRESS OF OPERATOR 602 Midland Savings Bldg., 444 17th Street Denver, Colorado 80202	WAW Pictured Cliffs 11. SEC., T., R., M., OR BLK. AND SURVEY C
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below)	~
AT SURFACE: 1850' FSL and 790' FEL AT TOP PROD. INTERVAL: Same	12. COUNTY OR PARISH 13. STATE San Juan New Mexico
AT TOTAL DEPTH: same  16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE.	14. API NO. 32.5 2 5 5 6
REPORT, OR OTHER DATA	15. ELEVATIONS (SHOW DF, KDB, AND W
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REPAIR WELL	(NOTE: Report results of multiple completion or zo
PULL OR ALTER CASING	change on Form 9-330.
CHANGE ZONES	roitenage lubbi-para lubbi-para lubbi-para lubbil-para
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly statistical data of statistical proposed work of statistics are proposed work of statistics and proposed work of statistics are propose	ite all pertinent details, and give pertinent dat
including estimated date of starting any proposed work. If well is a measured and true vertical depths for all markers and zones pertine	ent to this work.)*
Move in rotary tools. Spud 5" hole at 0900 ho	
to 560', ream to 8 3/4" from 0 to 50'. Set 41 with 35 sacks class "B" with 2% CaCl <sub>2</sub> , cement	
1745 hours 8-16-78.	relse lossifications at sections to consider to consid
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	AUG 3 1 1978
υ. <u>s</u> .	GEOLOGICAL SURVEY OF SEPTEMBLE
,	ARMINGTON, N. N. CONCEON
Subsurface Safety Valve: Manu. and Type	Ser
18. I hereby certify that the foregoing is true and correct  SIGNED Agent  TITLE  Agent	August 329, 1978
SIGNED JOHN ALEXANDER TITLE	
	DATE DATE
APPROVED BY TITLE CONDITIONS OF APPROVAL, IF ANY:	DATE SEE SEE

# UNITED STATES DEPARTMENT OF THE INTERIOR

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SUNDRY NOTICES AND REPORTS ON WELLS	7. UNIT AGREEMENT NAME.
Do not use this form for proposals to drill or to deepen or plug back to a different eservoir. Use Form 9-331-C for such proposals.)	8. FARM OR LEASE NAME
1. oil gas X other	O WELL NO STATE OF THE
2. NAME OF OPERATOR Dietrich Exploration Company, Inc.	2 SEPTION OF WILDOAT NAME SEPTION
3 ADDRESS OF OPERATOR Bldg., 444 17th Street	WAW Pictured Cliffs 355
Denver Colorado 80202  4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17	AREA ELOS E E ESTA
below.) AT SURFACE: 1850' FSL and 790' FEL	Sec 34, T27N, R13W 277
AT TOP PROD. INTERVAL: Same	San Juan New Mexico
AT TOTAL DEPTH: Same  16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE,	14. API NO.
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REPAIR WELL ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	change on Form 9–330.)— ¬ 🌣 m 🚆
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CHANGE ZONES	Solution and the control of the cont
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(other)	<u>ਤੁਕੀਗੇ ਸ਼ਹਿੰਤੇਗਾਂ ਦੇ</u>
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including estimated date of starting any proposed work. If well is d measured and true vertical depths for all markers and zones pertiner	INTECHORISMY CHINED. SING SUBSUINCE RECEIPED AND
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with 500 gallons 15% "Gas Well Acid". Well no	TOWING LOCATEDIA UP, CANC. DOCO.
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18. I hereby certify that the foregoing is true and correct  Agent	August 29 1978
SIGNED JOHN ATEXANDER TITLE	DATE
(This space for Federal or State of	ffice use)
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APPROVED BY TITLE CONDITIONS OF APPROVAL, IF ANY:	House the form of
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