

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

## 1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

## b. TYPE OF WELL

OIL  
WELL ☒GAS  
WELL ☐OTHER ☐SINGLE  
ZONE ☒MULTIPLE  
ZONE ☐

## 2. NAME OF OPERATOR

Basin Fuels, Ltd.

## 3. ADDRESS OF OPERATOR

300 W. Arrington, Suite 300, Farmington, NM 87401

## 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*)

At surface

2310' FSL &amp; 1650' FEL

At proposed prod. zone

Same

## 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drlg. unit line, if any)18. DISTANCE FROM PROPOSED LOCATION\*  
TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

## 21. ELEVATIONS (Show whether DF, RT, GR, etc.)

6704 G.R.

## 16. NO. OF ACRES IN LEASE

160

## 19. PROPOSED DEPTH

2750

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

40

## 20. ROTARY OR CABLE TOOLS

Rotary

## 22. APPROX. DATE WORK WILL START\*

November 20, 1978

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4	8 5/8	20	100	100 sk.
7 7/8	4 1/2	10.5	2750	325 sk.

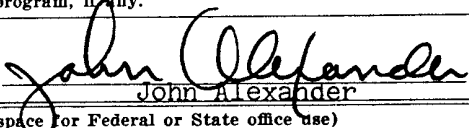
(See attachments)

Gas under this lease is not dedicated to a contract.

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.

SIGNED

  
John Alexander

TITLE

Agent

DATE

October 26, 1978

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

ok Frank

5. LEASE DESIGNATION AND SERIAL NO.

NOO-C-14-20-4403

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

NOO Navajo

9. WELL NO.

#5

10. FIELD AND POOL, OR WILDCAT

Franciscian Lake Mesa Verde

11. SEC., T., R., M., OR BLK.  
AND SURVEY OR AREA

Sec 13, T20N, R6W

12. COUNTY OR PARISH

McKinley

13. STATE

New Mexico

**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.

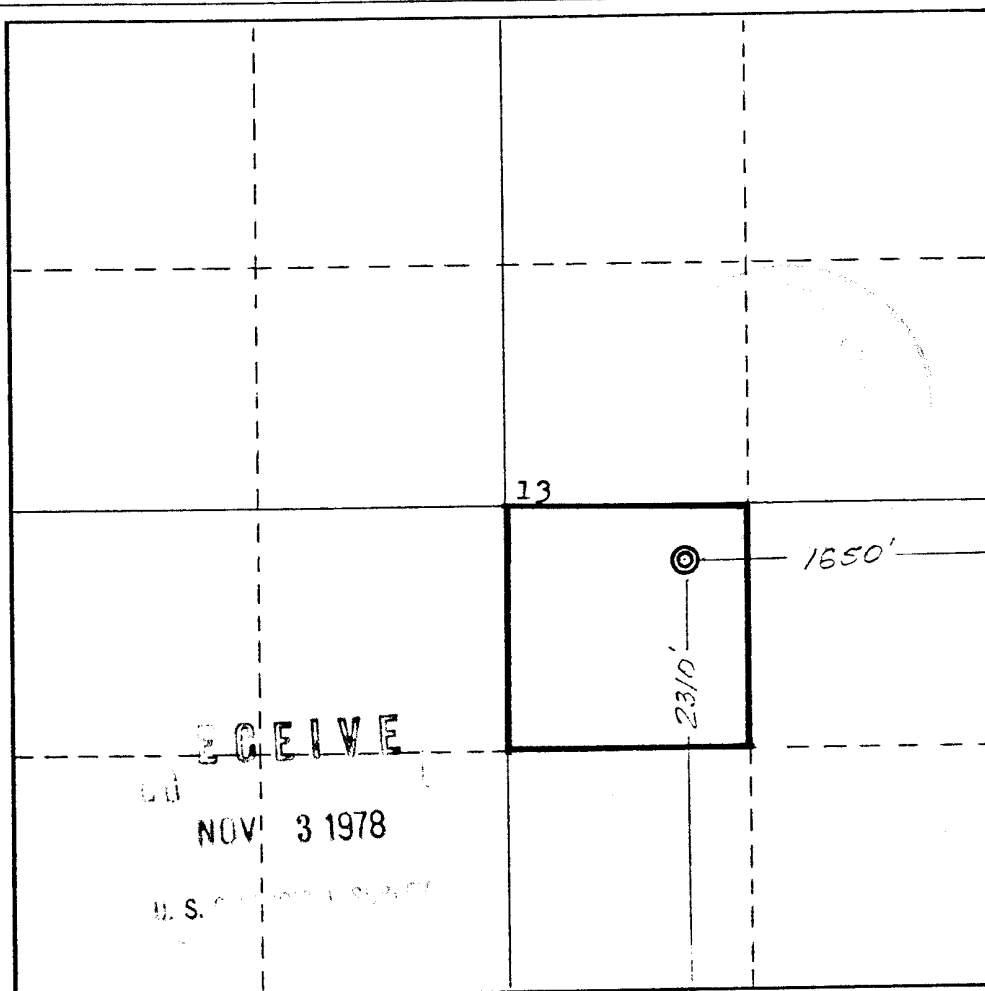
Operator <b>BASIN FUELS, LTD.</b>			Lease <b>NOO NAVAJO</b>		Well No. <b>5</b>
Unit Letter <b>J</b>	Section <b>13</b>	Township <b>20 NORTH</b>	Range <b>6 WEST</b>	County <b>MCKINLEY</b>	
Actual Footage Location of Well: <div style="display: flex; justify-content: space-between;"> <span><b>2310</b> feet from the <b>SOUTH</b> line and</span> <span><b>1650</b> feet from the <b>EAST</b> line</span> </div>					
Ground Level Elev. <b>6704</b>	Producing Formation <b>Mesa Verde</b>	Pool <b>Franciscian Lake Mesa Verde</b>		Dedicated Acreage: <b>40</b> 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 \_\_\_\_\_

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.

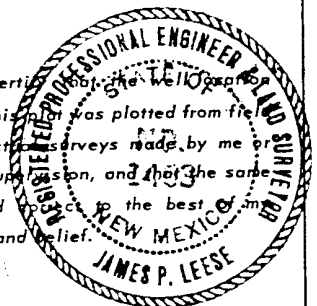
*John Alexander*  
Name  
**John Alexander**

Position  
**Agent**

Company  
**Basin Fuels, Ltd.**

Date  
**October 26, 1978**

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  
**19 October 1978**

Registered Professional Engineer and/or Land Surveyor

*James P. Leese*  
**James P. Leese**

Certificate No.  
**1463**

BASIN FUELS, LTD.

FORMATION INFORMATION AND DRILLING PRACTICE

WELL:

NOO NAVAJO #5

LOCATION:

2310' FSL & 1650' FEL

S13, T20N, R6W

McKinley Co., NM

LEASE NUMBER:

NOO-C-14-20-4403

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1. Geologic name of surface formation.

Kirtland

2. Estimated tops of important. geologic markers.

La Ventata	855
Chacra	1203
Cliff House	1759
Menefee	1821
Point Lookout	2655

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

2655 - oil & gas

4. Proposed casing program.

Surface: 8 5/8", 20# X-42, new casing to be set at 100'. Cement will be with 100 sk. Class "B" + 2% gel + 0.5% CFR-2.

Production: 4 1/2", 10.5 K-55, new casing to be set at 2750'. Cement will be 325 sk. Class "B" + 2% gel + 0.5% CFR-2.

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	Viscosity	Weight	Fluid Loss (cc)
0-100	Gel-Lime	35-45	8.6-9.0	N/C
100-2600	Low-solids	29-33	8.4-8.8	15
2600-2755	Gel-Chem	35-40	8.8-9.4	8

7. Auxiliary equipment.

- a. bit float
- b. full opening stabbing valve to be used when kelly is not in the string

8. Logging - Coring - Testing.

Logging: Induction Electric Log, Formation Compensated Density, Gamma Ray, Caliper

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Coring: None

Drill Stem Testing: None

9. Abnormal temperatures, pressures, or hazardous conditions.

None Expected

10. Starting date.

Anticipated starting date is November 20, 1978. Approximately six days will be needed to build roads and location and drill the well to total depth.. If commercial, completion will commence immediately and require ten days.

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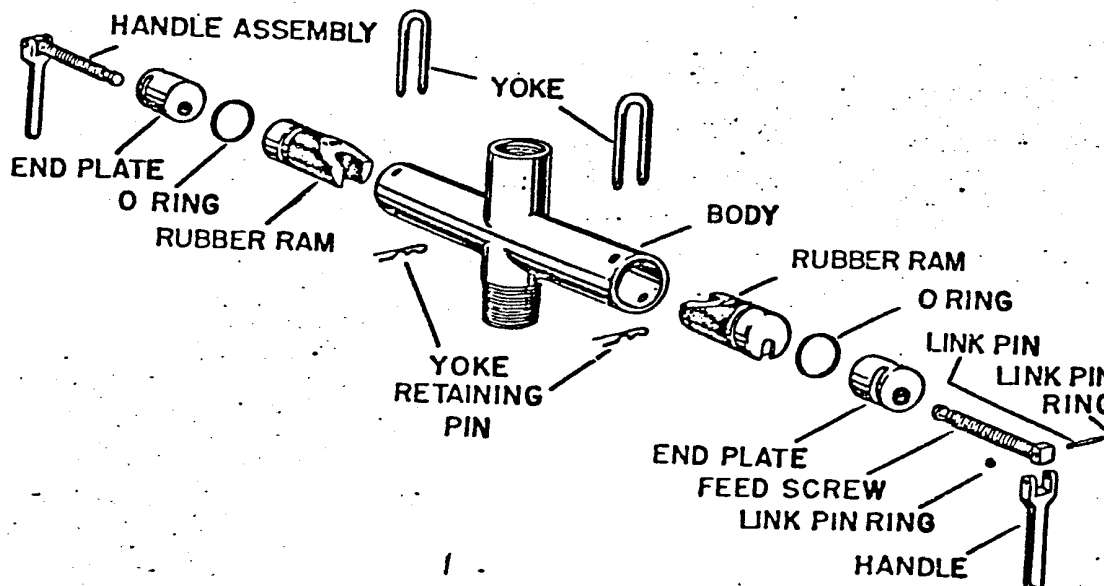
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# G TUBING BLOWOUT PREVENTERS

## 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. ....	28262	28263	28264
9/16" ....	59383	45019	59388
5/8" ....	44948	44969	59393
3/4" ....	59391	41502	59410
7/8" ....	59392	54571	59389
1" ....	59384	59386	45903
1.050" ....	44949	41424	45056
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	28368
1.900" ....	45463	43630	45609
2.063" ....	....	....	59394



ATTACHMENT TO POINT 5  
API SERIES 6" 600

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BASIN FUELS, LTD.

DEVELOPMENT PLAN FOR SURFACE USE.

WELL:

NOO NAVAJO #5

LOCATION:

2310' FSL & 1650' FEL

S13, T20N, R6W

McKinley Co., NM

LEASE NUMBER:

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1. Existing roads. (shown in green)

The attached topographic map shows all existing roads within one mile of the proposed location. All roads are in fair condition and will require a minimal amount of work to upgrade them to handle normal drilling activity traffic.

2. Planned access road. (shown in red)

The new access road will be approximately 20' wide and 700' long. No cut, fill, turnouts, or culverts will be needed. No fences, gates or cattle guards will be crossed. Maximum grade will be 5%. Water bars will be used where needed to aid drainage and help prevent erosion.

3. Location of existing wells.

All wells (water, abandoned, disposal, and drilling) are shown and so labeled on the attached section layout.

4. Location of existing production facilities.

All production facilities for this well will be located on the site.

All tank batteries, production facilities or production, gathering and service lines within one mile of the proposed location are shown on the attached section layout.

5. Location and type of water supply.

Water for drilling will be trucked from Chapman's water hole, approximately 35 miles northwest of the 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 material.

(Refer to attached well site layout.)

All material that can be safely burned will be so disposed when weather conditions permit.

All nonburnable waste (drilling fluids, cuttings, chemicals, etc.) will be held in the reserve pit until dry, and then buried. Any oil that accumulates on the pit will be removed prior to leaving the pit to dry. Pits will be fenced during dry out, then completely back-filled with dirt prior to preparing the location for production or abandonment.

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Any solid waste that can not be buried will be taken from the location and properly destroyed.

All portable chemical toilet will be supplied for human waste.

8. Ancillary facilities.

None planned.

9. Well site layout.

The attached layout shows the drilling rig with all supporting facilities. Cut and fill, required for pad construction, is also shown.

10. Plans for restoration of surface.

Restoration of the 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 road and location will have top soil replaced and will be reseeded when germination can occur.

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

In either case, cleanup of the site will include burying any safely burnable material, filling of all pits, and proper disposal of any nonburnable material that can not be safely 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.

This location is 1½ miles west of the Continental Divide at Deja Del Raton Mesa. The site has a small westerly slope. The area is sandy and is covered with sage brush and native grasses. There is evidence of sheep and small animal life in the area.

Surface at this location belongs to the Bureau of Land Management.

There are no occupied dwellings in the area.

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

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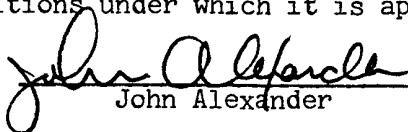
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12.

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

13. 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 Basin Fuels, Ltd. and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

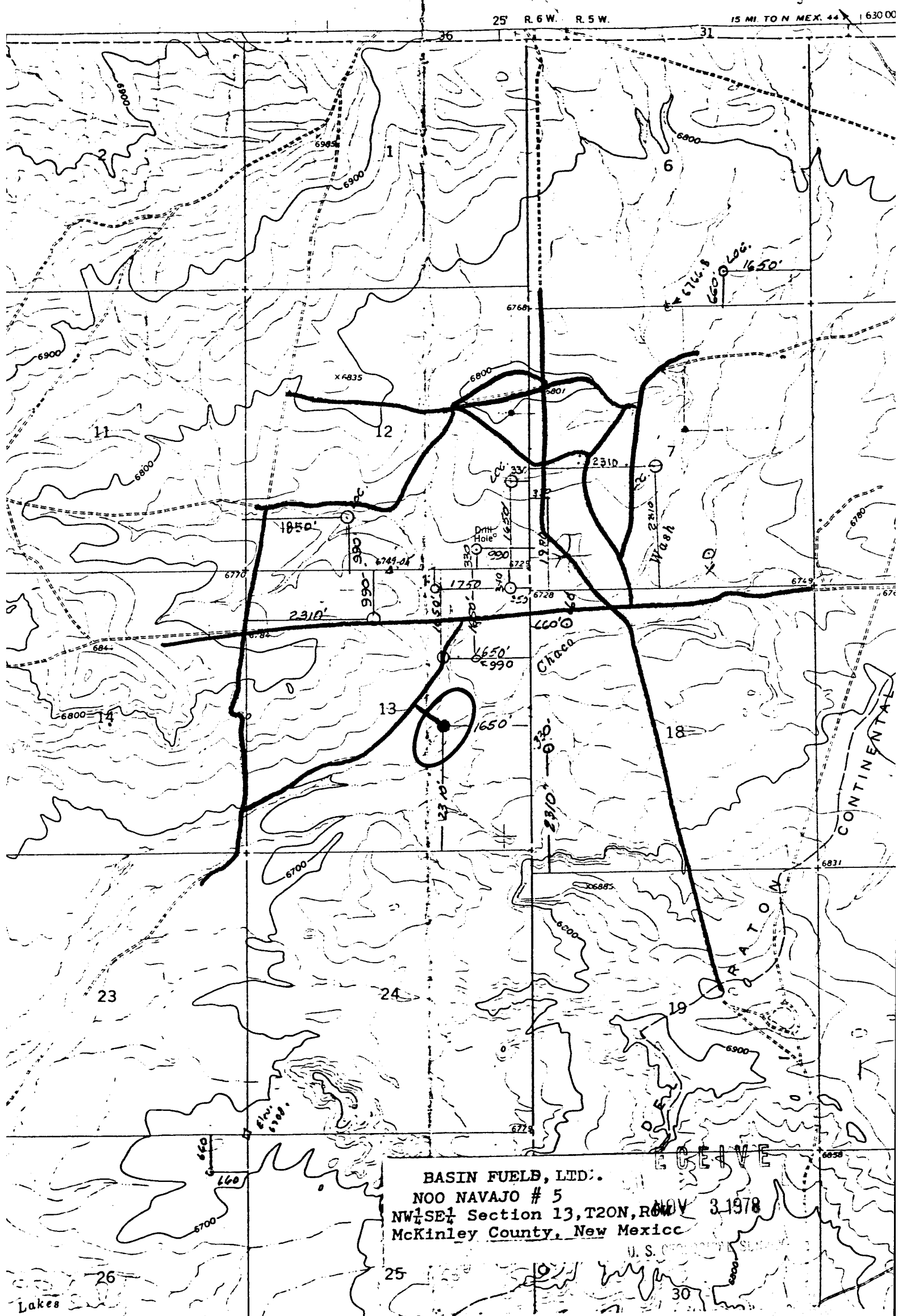
October 26, 1978

  
John Alexander

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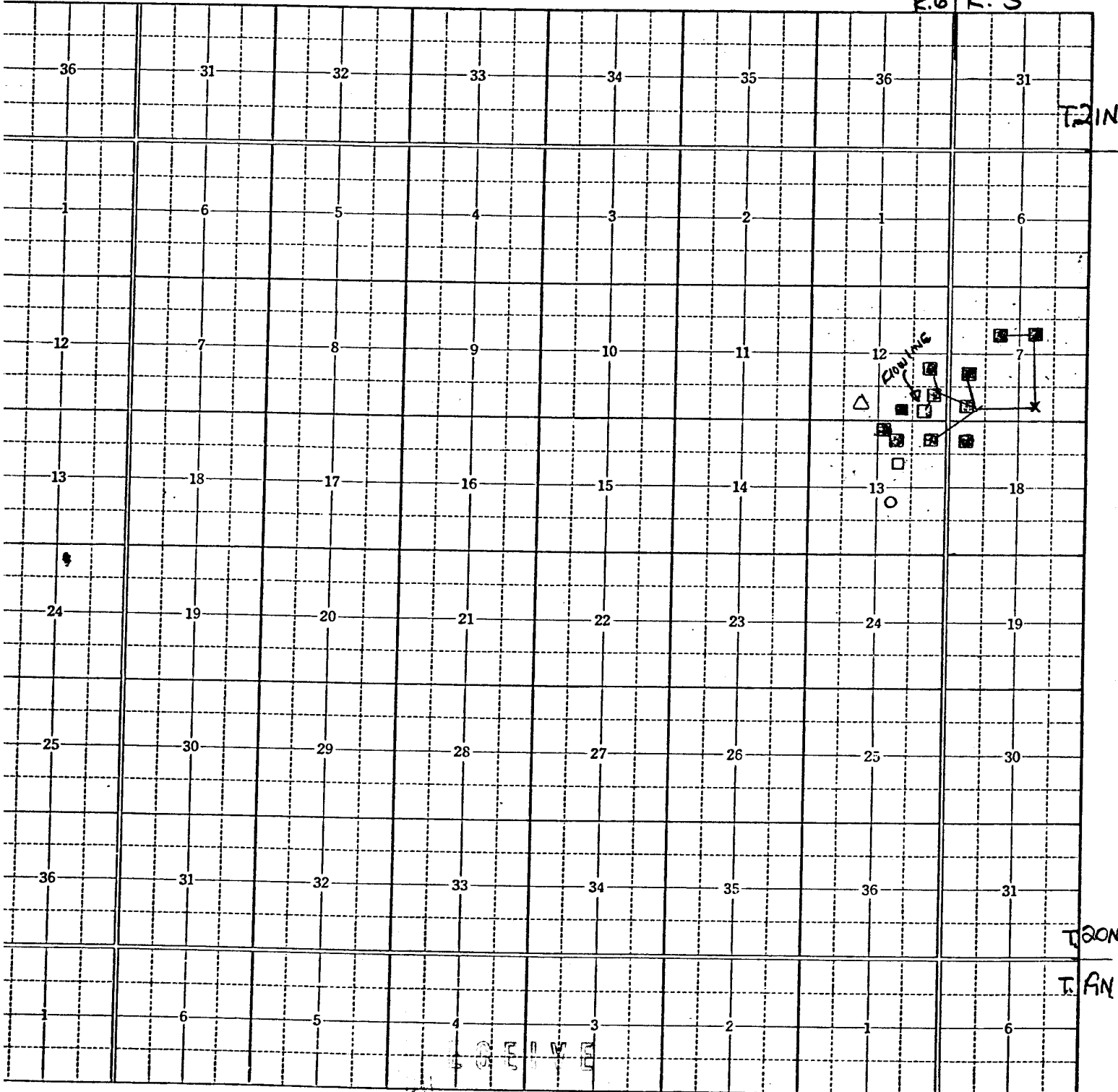


O = Subject well  
 Δ = Plugged & abandoned  
 ■ = Producing w/ tank on loc.  
 □ = Producing  
 X = Injection well  
 — = WATER INJECTION LINE

Township 20 N, Range 5 E 6, County \_\_\_\_\_

Standard Township Plat

R. 6 | R. 5

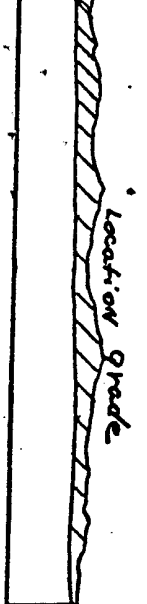


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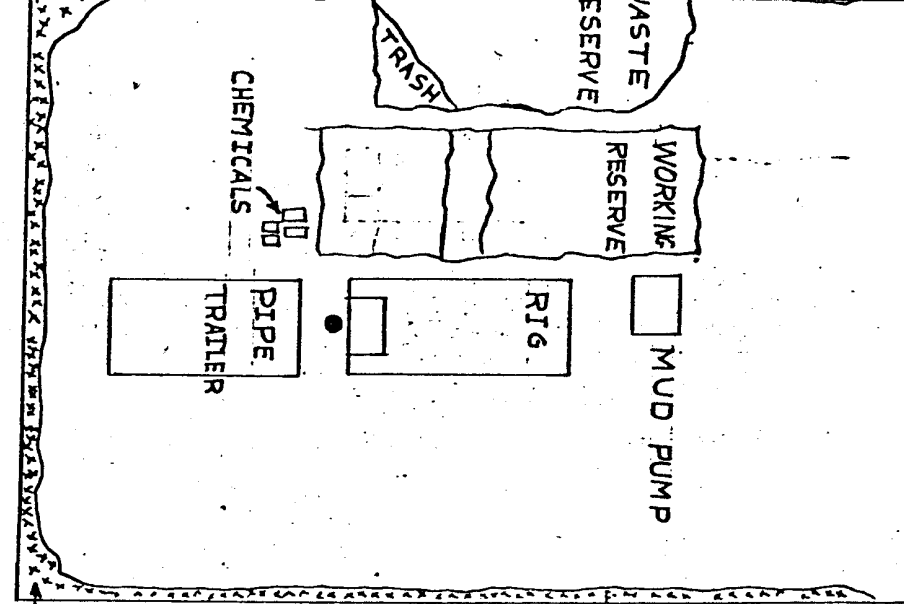
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BASIN FUELS INC.  
 OFFSET WELLS  
 NOO NAVAJO #5

IT & FILL (FRONT) 6" TOP SOIL ONLY

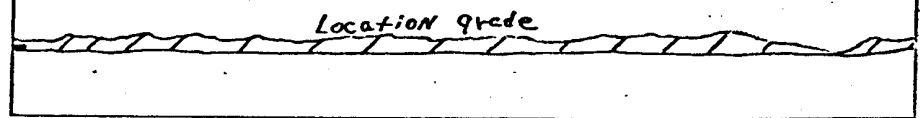


PLAN VIEW 1" = 30'  
ALL PITS - EARTHEN



SOIL MATERIAL STOCKPILE

WELL SITE LAYOUT  
BASIN FUELS  
NOO NAVAJO #S



CUT & FILL (SIDE) - 6" TOP SOIL ONLY

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