

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYRECEIVED
MAR 25 1983

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL ☒ PLUG BACK ☐		5. LEASE DESIGNATION AND SERIAL NO. LC - 068064	
b. TYPE OF WELL OIL WELL ☒ GAS WELL ☐ OTHER ☐		6. IF INDIAN, ALIQUOTEE OR TRIBE NAME	
2. NAME OF OPERATOR Anadarko Production Company		7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR P. O. Drawer 130, Artesia, New Mexico 88210		8. FARM OR LEASE NAME Grier Federal	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 990' FSL & 1650' FEL Sec. 30, T16S, R31E, Eddy Co., N.M. At proposed prod. zone Same		9. WELL NO. 19	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* Approximately 7 miles Northeast of Loco Hills, N. M.		10. FIELD AND POOL, OR WILDCAT Square Lake-Grayburg-SA	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drilg unit line, if any) 1044'		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 30 - 16S - 31E	
16. NO. OF ACRES IN LEASE 461.75		12. COUNTY OR PARISH Eddy	
17. NO. OF ACRES ASSIGNED TO THIS WELL 40		13. STATE New Mexico	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 330'		20. ROTARY OR CABLE TOOLS Rotary	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 3839.9		22. APPROX. DATE WORK WILL START* April 25, 1983	

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"	24.0#	550'	Approx. 350 circulated
7-7/8"	5-1/2"	15.5#	3300'	Approx. 600 circulated

1. Rig up Rotary Tools.
2. Drill 12-1/4" hole to approx 550'; set & circulate or readymix cement to surface on 8-5/8" casing. Install & test Series 900 Double Ram Hydraulic Blowout Preventor.
3. Drill 7-7/8" hole to T D (approx. 3300'); run Open Hole Logs.
4. Set & circulate cement on 5 1/2" casing from T D to surface.
5. Perforate, acidize and fracture treat.
6. Run 2-3/8" tubing, rods and bottomhole pump; installed pumping equipment and place well on production.

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. SIGNER Charles E. Gillham TITLE Field Foreman DATE March 23, 1983

(This space for Federal or State office use)

PERMIT NO. 4 APPROVAL DATE _____APPROVED BY _____ TITLE _____
CONDITIONS OF APPROVAL, IF ANY:

APPROVED

DATE

APR 6 1983

JAMES A. GILLHAM
DISTRICT SUPERVISOR

*See Instructions On Reverse Side

**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.

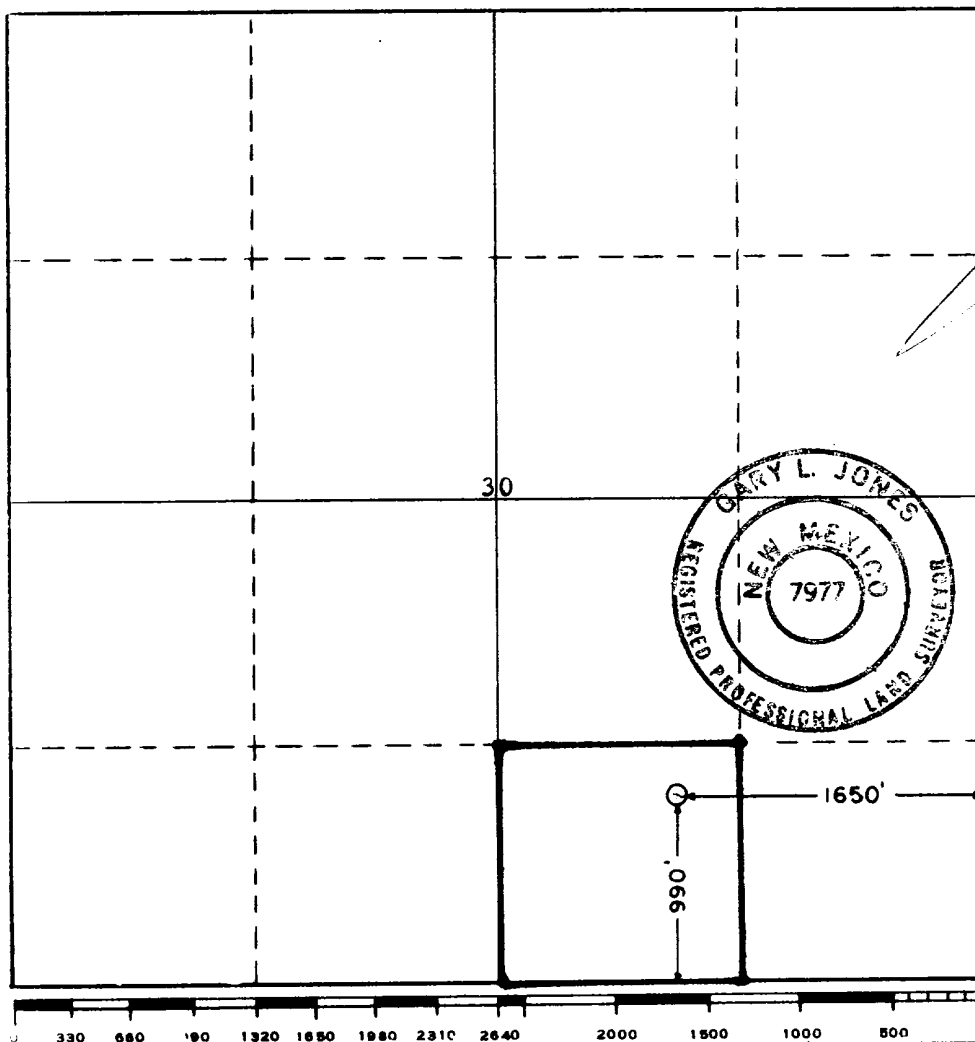
Operator ANADARKO PRODUCTION COMPANY			Lease Grier <i>F-101</i>		Well No. 19
Section Letter 0	Section 30	Township 16 South	Range 31 East	County Eddy	
Actual Footage Location of Well: 990 feet from the South line and 1650 feet from the East line					
Ground Level Elev. 3839.9	Producing Formation Grayburg-San Andres		Pool Square Lake Grayburg-San Andres		Dedicated Acreage: 40 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?

☐ 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.

Name *Jerry E. Buckles*
Jerry E. Buckles

Position
Area Supervisor

Company
Anadarko Production Company

Date
March 24, 1983

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
March 12, 1983

Registered Professional Engineer
and/or Land Surveyor

Gary L. Jones
Certificate No. **7977**

DATA SHEET

This data sheet is provided in reference to the attached "Application for Permit to Drill" Anadarko's: Grier Federal #19

1. Location: 990' FSL & 1650' FEL Sec. 30, T16S, R31E, Eddy County, New Mexico
2. Elevation: 3839.9' GL
3. Geological Name of Surface Formation: Triassic Rock
4. Type of Drilling Tools to be utilized: Rotary Tools
5. Proposed Drilling Depth: Approx. 3300'
6. Tops of Important Geological Markers:

T. Salt - - 550'	7-Rivers - - 2100'
B. Salt - - 750'	Queen- - - 2950'
Tansill - - 1700'	Grayburg - - 3100'
Yates - - - 1750'	San Andres - 3200'
7. Estimated Depth of Anticipated Water, Oil or Gas:

3100' - 3300'
8. Casing Program:

8-5/8" - 24# K-55 or J-55 - New
5-1/2" - 15.5# *55 or J-55 - New
9. Setting Depth of Casing:

8-5/8" - 550' - Cemented with approx 350 sx.
5-1/2" - 3300' - Cemented with approx 600 sx.
10. Specifications for Pressure Control Equipment: (See attached Schematic)

This Warton rig is equipped with a Series 900 BOP with 5½" Blind Rams, kill line, choke manifold, Koomey Hydraulic Controls & Accumulator with remote controls. When nipping up, test BOP & choke to 1000# psi. Operate BOP equipment once a day or as directed by Company Representative.
11. Mud Program:

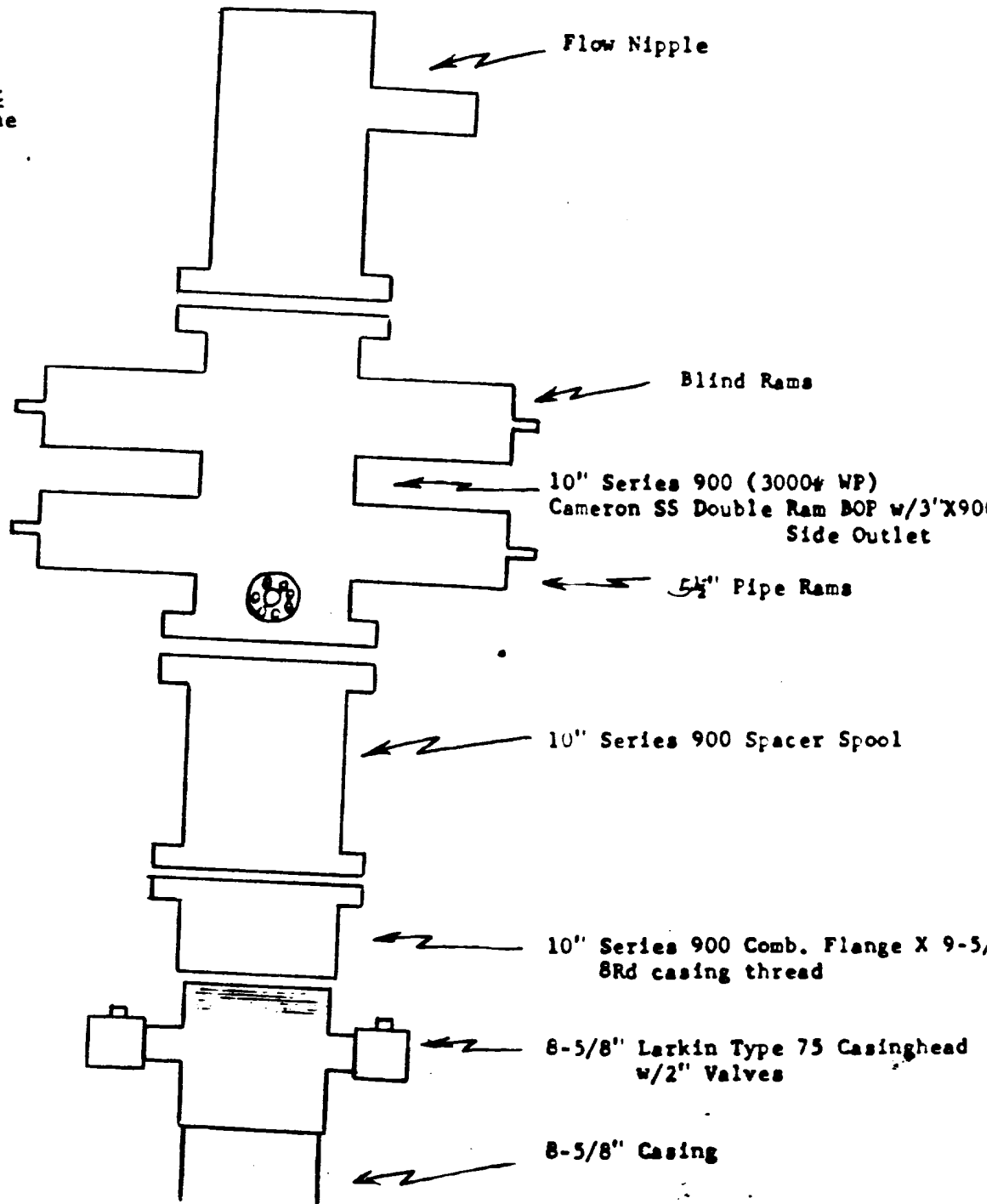
Spud and drill with fresh water native mud to a depth of approx. 550'. Drill out from under surface casing with 10# brine water to within 50' of TD while maintaining a Ph of 10. At this point paper and gel will be used to clean hole prior to running O. H. Logs.
12. Testing, Logging & Coring Program:
 - (a) Testing - No drill stem testing is scheduled.
 - (b) Coring - There is a possibility the well will be cored.
 - (c) Logging - Open Hole Logs will be run prior to running 5½" casing.
13. Potential Hazards:

None are expected. Above described BOP should take care of any possible blowout. Numerous wells have been drilled in this area without problems.
14. Anticipated Starting Date & Duration:

Plan to begin drilling operations about April 25, 1983; approximately 6 to 10 days are required to drill the well and 2 weeks for completion.
15. Other Facets:

None.

Closing Unit
4 Stage Payne



B O P Schematic

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Exhibit #2

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Warton Drilling Co.
Rig 8 (12.5' x 8')

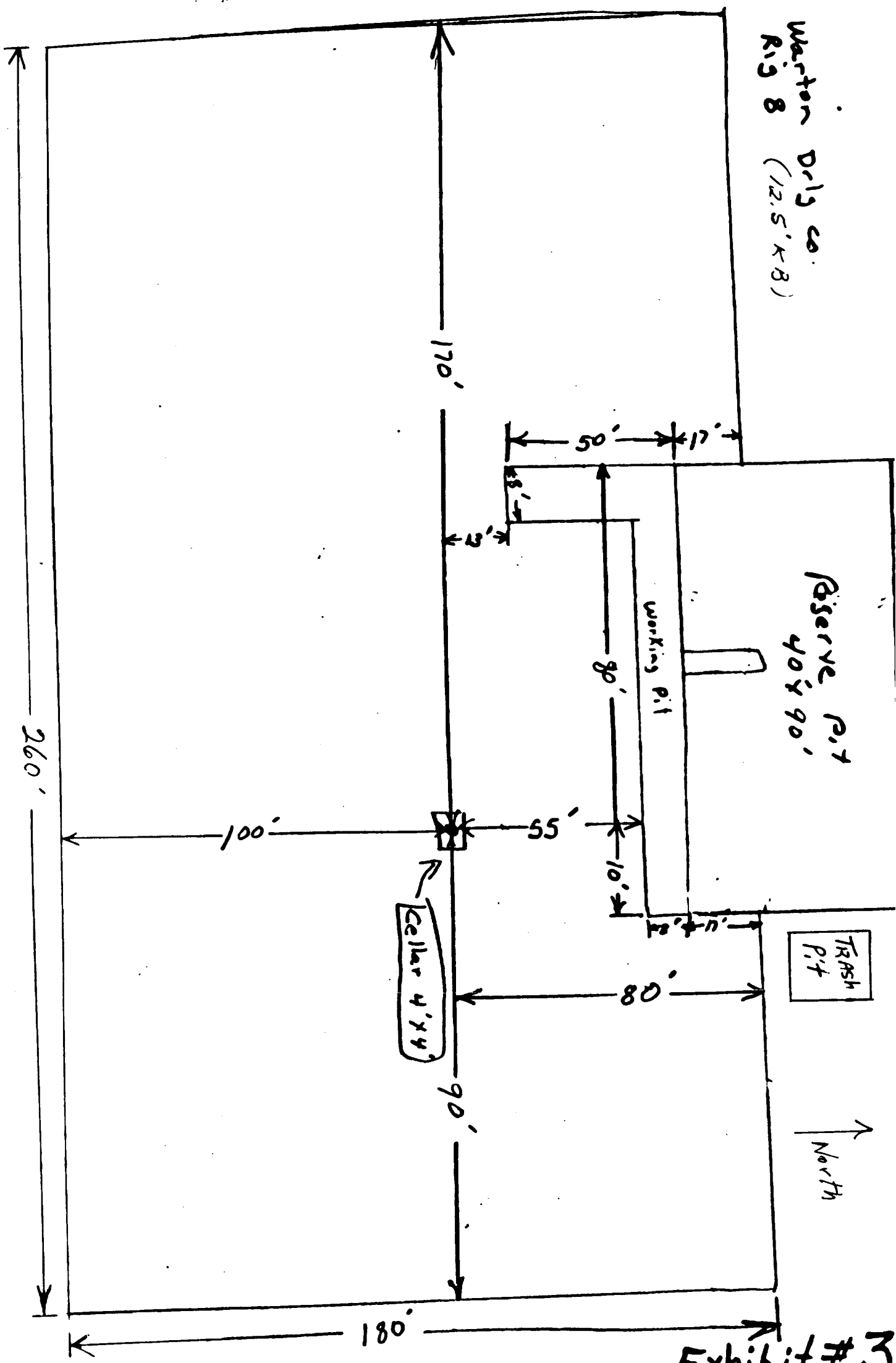


Exhibit #3