

857

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

Bureau of Land Management  
Received

JUL 12 2000

Gasland Field Office  
Carlsbad, NM

## APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WELL  
OIL WELL ☒ GAS WELL ☐ OTHER ☐ DEEPEN ☐

2. NAME OF OPERATOR  
W.A. & E.R. HUDSON, INC. (JON B. SMITH 505-676-2266)  
(RANDALL HUDSON 817-336-7190)

3. ADDRESS AND TELEPHONE NO.  
616 TEXAS STREET FORT WORTH, TEXAS 76102-4612

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)  
At surface  
1310' FSL & 2630' FEL SEC. 13 T17S-R31E EDDY CO. NM.  
At proposed prod. zone SAME

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
Approximately 10 miles East of Loco Hills, New Mexico

15. DISTANCE FROM PROPOSED\*  
LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drilg. unit line, if any) 10'

16. NO. OF ACRES IN LEASE  
1122±

17. NO. OF ACRES ASSIGNED  
TO THIS WELL 40

18. DISTANCE FROM PROPOSED LOCATION\*  
TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT. 750'

19. PROPOSED DEPTH  
4200'

20. ROTARY OR CABLE TOOLS  
ROTARY

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
3916' GR.

22. APPROX. DATE WORK WILL START\*  
WHEN APPROVED

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
25"	20" Conductor	NA	40'	Cement to surface with Redi-mix
12½"	J-55 8 5/8"	24	500'	500 Sx. Circulate cement to surface
7 7/8"	J-55 5½"	15.5	4200'	750 Sx. Circulate cement to surface

1. Drill 25" hole to 40'. Set 40' of 20" conductor pipe and cement to surface with Redi-mix.
2. Drill 12½" hole to 500'. Run and set 500' of 8 5/8" 24# J-55 ST&C casing. Cement with 500 Sx. of Class "C" cement + ½# Flocele/Sx + 2% CaCl, circulate cement to surface.
3. Drill 7 7/8" hole to 4200'. Run and set 4200' of 5½" 15.5# J-55 ST&C casing. Cement with 500 Sx. of Halco Light Class "C" cement + additives, Tail in with 250 Sx. of Class "C" cement + 2% CaCl, circulate cement to surface.

APPROVAL SUBJECT TO  
GENERAL REQUIREMENTS AND  
SPECIAL STIPULATIONS

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, 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 apparent vertical depths. Give blowout preventer program, if any.

24.

SIGNED For T. J. Gancia TITLE Agent DATE 07/10/00

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY /S/LARRY D. BRAYAssistant Field Manager,  
Lands And Minerals

TITLE \_\_\_\_\_

DATE AUG 18 2000

\*See Instructions On Reverse Side

APPROVED FOR 1 YEAR

RECEIVED  
JUL 11 2000  
BLM  
ROSWEIL, NM

DISTRICT I  
P.O. Box 1860, Hobbs, NM 88241-1860

DISTRICT II  
P.O. Drawer DD, Artesia, NM 88211-0719

DISTRICT III  
1000 Rio Brazos Rd., Artesia, NM 87410

DISTRICT IV  
P.O. BOX 2088, SANTA FE, N.M. 87504-2088

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-102  
Revised February 10, 1994  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

OIL CONSERVATION DIVISION

P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code 43329	Pool Name MALJAMAR-GRAYBURG, SAN ANDRES
Property Code 5313	Property Name PUCKETT "A" LL	Well Number 1
OGRID No. 25111	Operator Name W. A. & E. R. HUDSON, INC.	Elevation 3916

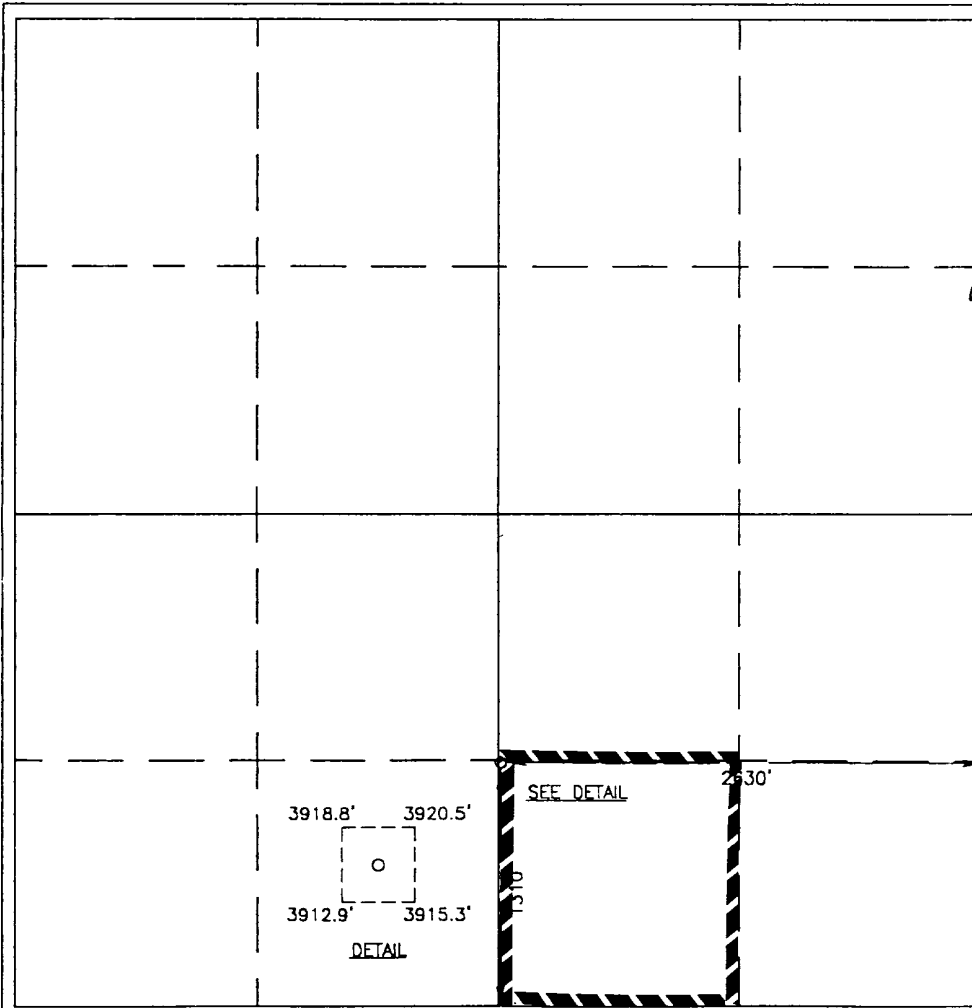
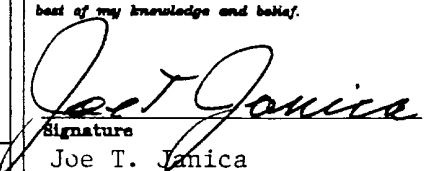
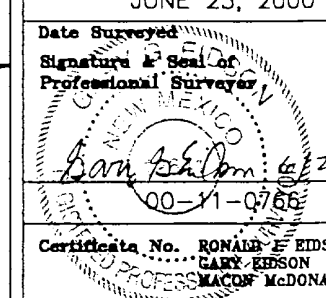
Surface Location

UL or lot No. 0	Section 13	Township 17 S	Range 31 E	Lot Idn	Feet from the 1310	North/South line SOUTH	Feet from the 2630	East/West line EAST	County EDDY
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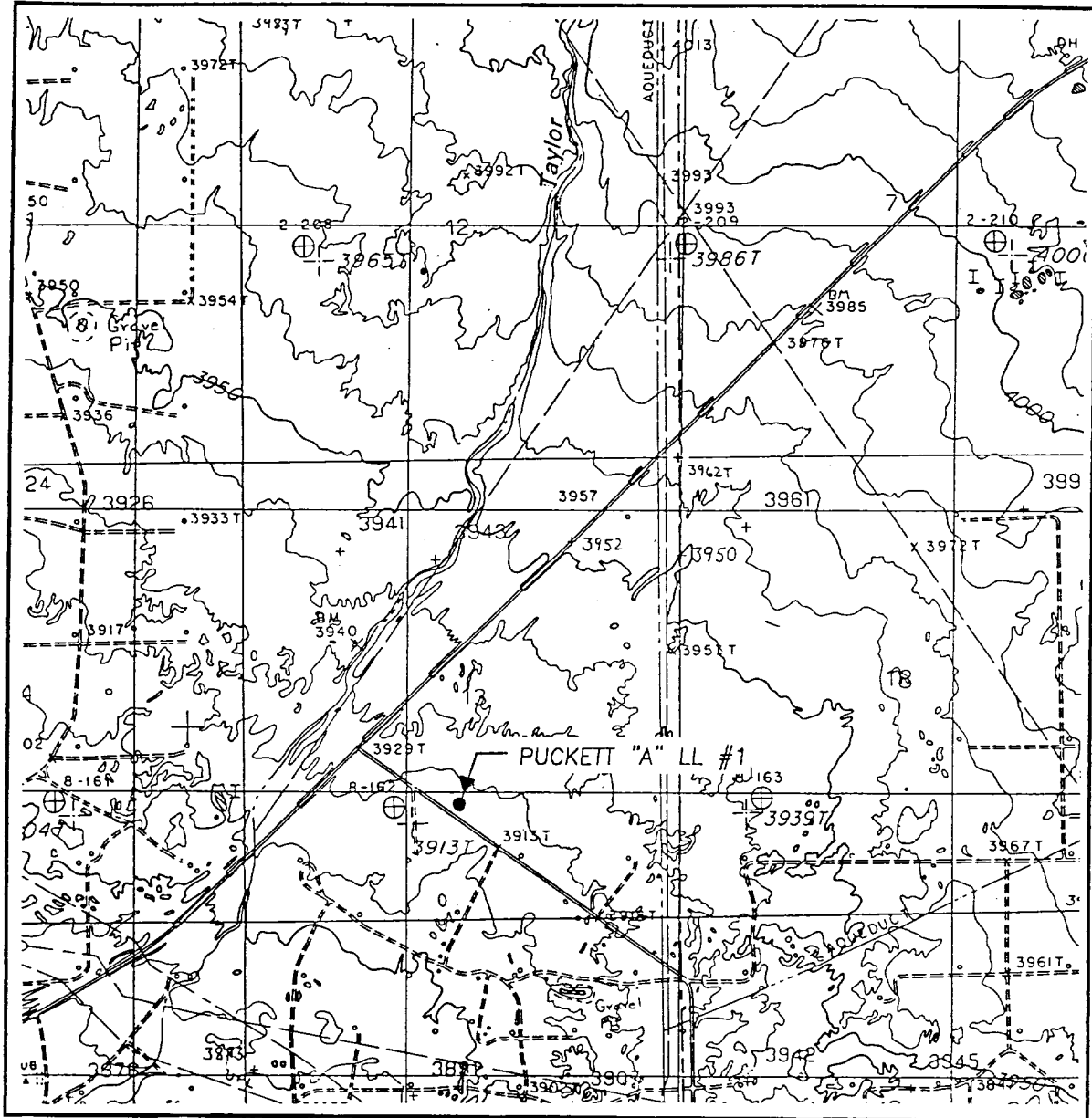
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres 40	Joint or Infill	Consolidation Code	Order No.						

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	<b>OPERATOR CERTIFICATION</b>  I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.   Signature Joe T. Janica Printed Name Agent Title 07/10/00 Date
	<b>SURVEYOR CERTIFICATION</b>  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 belief.  JUNE 23, 2000 Date Surveyed LMP Signature & Seal of Professional Surveyor  Certificate No. RONALD E. EIDSON 3239 EARY EIDSON 12641 MACDONALD 12185

# LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL:  
MALJAMAR, N.M. - 10'

SEC. 13 TWP. 17-S RGE. 31-E

SURVEY N.M.P.M.

COUNTY EDDY

DESCRIPTION 1310' FSL & 2630' FEL

ELEVATION 3916

OPERATOR W. A. & E. R. HUDSON, INC.

LEASE PUCKETT "A" LL

U.S.G.S. TOPOGRAPHIC MAP  
MALJAMAR, N.M.

JOHN WEST SURVEYING  
HOBBS, NEW MEXICO  
(505 393-3117)

[illegible]

JOHN WEST SURVEYING  
HOBBS, NEW MEXICO  
(505 393-3117)

## APPLICATION TO DRILL

W.A. & E.R. HUCSON, INC.  
 PUCKETT "A" LL # 1  
 UNIT "O" SECTION 13  
 T17S-R31E EDDY CO. NM

In response to questions asked under Section II B of Bulletin NTL-6 the following information is provided for your consideration:

1. Location: 1310' FSL & 2630' FEL SEC. 13 T17S-R31E EDDY CO. NM
2. Elevation above sea level: 3916' GR.
3. Geologic name of surface formation: Quaternary Aeolian Deposits
4. Drilling tools and associated equipment: Conventional rotary drilling rig using fluid as a circulating medium for solids removal.
5. Proposed drilling depth: 4200'
6. Estimated tops of geological markers:

Rustler Anhydrite	610'		
Queen	3135'	San Andres	3950'
San Andres	3640'		

7. Possible mineral bearing formation:

Queen	Oil
Grayburg	Oil
San Andres	Oil

8. Casing program:

<u>Hole size</u>	<u>Interval</u>	<u>OD casing</u>	<u>Weight</u>	<u>Thread</u>	<u>Collar</u>	<u>Grade</u>
25"	0-40	20"	NA	NA	NA	Conductor
12 $\frac{1}{4}$ "	0-500'	8 5/8"	24	8-R	ST&C	J-55
7 7/8"	0-4200'	5 $\frac{1}{2}$ "	15.5	8-R	ST&C	J-55

# APPLICATION TO DRILL

W.A. & E.R. HUCSON, INC.  
 PUCKETT "A" LL # 1  
 UNIT "O" SECTION 13  
 T17S-R31E EDDY CO. NM

## 9. CEMENTING & SETTING DEPTH:

20"	Conductor	Set 40' of 20" conductor pipe cement to surface with Redi-mix
8 5/8"	Surface	Set 500' of 8 5/8" 24# J-55 ST&C casing. Cement with 500 Sx. of Class "C" cement + additives, circulate cement to surface.
5 1/2"	Production	Set 4200' of 5 1/2" 15.5# J-55 ST&C casing. Cement with 750 Sx. of Class "C" cement. 500 Sx. of Halco Light + additives and tail in with 250 Sx. of Class "C" + additives, circulate cement to surface.

10. PRESSURE CONTROL EQUIPMENT: Exhibit "E". A Series 900 3000 PSI working pressure B.O.P. consisting of a double ram type preventor with a bag type annular preventor. The B.O.P. unit will be hydraulically operated. Exhibit "E-1". Choke manifold and closing unit. The B.O.P. will be nipped up on 8 5/8" casing and will be operated at least once each 24 hour period while drilling and blind rams will be operated when out of hole on trips. Full opening stabbing valve and upper kelly cock will be utilized. No abnormal pressure or temperature is expected while drilling.

## 11. PROPOSED MUD CIRCULATING SYSTEM:

Depth	Mud Wt.	Visc.	Fluid Loss	Type Mud System
40-500'	8.6-8.8	30-36	NC	Fresh water Spud mud add paper to control seepage.
500-4200'	10.2-10.7	30-40	NC	Brine water add Salt water Gel to increase viscosity in order to clean hole, add paper to control seepage. If water loss control is needed add starch.

Sufficient mud materials will be kept on location at all times in order to combat lost circulation, or unexpected kicks. In order to run DST's, open hole logs, and casing the viscosity and/or water loss may have to be adjusted to meet these needs.

APPLICATION TO DRILL

W.A. & E.R. HUCSON, INC.  
PUCKETT "A" LL # 1  
UNIT "O" SECTION 13  
T17S-R31E EDDY CO. NM

12. Testing, Logging and Coring Program:
- A. Open hole Logs: Dual Latero-log , Compensated Neutron, Gamma Ray, Caliper from TD to 500'. Run gamma Ray back to surface.
- B. No DST's , no cores are planned.
13. Potential Hazards:
- No abnormal pressures or temperatures are expected. Hydrogen Sulfide gas may be encountered, H<sub>2</sub>S detectors will be in place to detect any presence. No lost circulation is expected to occur. All personnel will be familiar with all aspects of safe operation of equipment being used. Estimated BHP 2150 PSI, estimated BHT 120° .
14. Anticipated Starting Date and Duration of Operation:
- Road and location construction will begin after BLM approval of APD. Anticipated spud date as soon as approved. Drilling expected to take 12 days. If production casing is run an additional 30 days will be required to complete and construct surface facilities.
15. Other Facets of Operations:
- After running casing, cased hole gamma ray neutron collar logs will be run from total depth over possible pay intervals. The Grayburg-San Andres pay will be perforated and stimulated. The well will be swab tested and potentialized as an oil well.



## HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

1. All Company and Contract personnel admitted on location must be trained by a qualified H<sub>2</sub>S safety instructor to the following:
  - A. Characteristics of H<sub>2</sub>S
  - B. Physical effects and hazards
  - C. Proper use of safety equipment and life support systems.
  - D. Principle and operation of H<sub>2</sub>S detectors, warning system and briefing areas.
  - E. Evacuation procedure, routes and first aid.
  - F. Proper use of 30 minute pressure demand air pack.
2. H<sub>2</sub>S Detection and Alarm Systems
  - A. H<sub>2</sub>S detectors and audio alarm system to be located at bell nipple, end of blooie line (mud pit) and on derrick floor or doghouse.
3. Windsock and/or wind streamers
  - A. Windsock at mudpit area should be high enough to be visible.
  - B. Windsock at briefing area should be high enough to be visible.
  - C. There should be a windsock at entrance to location.
4. Condition Flags and Signs
  - A. Warning sign on access road to location.
  - B. Flags to be displayed on sign at entrance to location. Green flag, normal safe condition. Yellow flag indicates potential pressure and danger. Red flag, danger, H<sub>2</sub>S present in dangerous concentration. Only emergency personnel admitted to location.
5. Well control equipment
  - A. See exhibit "E"
6. Communication
  - A. While working under masks chalkboards will be used for communication.
  - B. Hand signals will be used where chalk board is inappropriate.
  - C. Two way radio will be used to communicate off location in case of emergency help is required. In most cases cellular telephoned will be available at most drilling foreman's trailer or living quarters.
7. Drillstem Testing
  - A. Exhausts will be watered.
  - B. Flare line will be equipped with an electric ignitor or a propane pilot light in case gas reaches the surface.
  - C. If location is near any dwelling a closed D.S.T. will be performed.

## HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

8. Drilling contractor supervisor will be required to be familiar with the effects  $H_2S$  has on tubular goods and other mechanical equipment.
9. If  $H_2S$  is encountered, mud system will be altered if necessary to maintain control of formation. A mud gas separator will be brought into service along with  $H_2S$  scavengers if necessary.

SURFACE USE PLAN

W.A. & E.R. HUDSON, INC.  
PUCKETT "A" LL # 1  
UNIT "O" SECTION 13  
T17S-R31E EDDY CO. NM

1. EXISTING ROADS. Area map, Exhibit "B" is a reproduction of the New Mexico General Hi-way Co. Map. Exhibit "C" is a reproduction of a topographic map. Existing roads and proposed roads are shown on each exhibit. All roads will be maintained in a condition equal to or better than of construction.
  - A. Exhibit "A" shows the proposed well site as staked.
  - B. From Maljamar New Mexico take U.S. Hi-way 32 West 2 miles bear Southwest go 2.6 miles to Co Road 224, turn left go 1500' location is on the Northeast side of road.
  - C. Lay pipelines and construct powerlines along existing roads and R-O-W's that are necessary to produce this lease.
2. PLANNED ACCESS ROADS: No new roads will be necessary for this well.
  - A. The access road will be crowned and ditched to a 12'00" wide travel surface with 40' right-of-way.
  - B. Gradient on all roads will be less than 5.00%.
  - C. No turnouts will be necessary.
  - D. If needed, road will be surfaced with a minimum of 4" of caliche. This material will be obtained from a local source.
  - E. Centerline for the new access road has been flagged. Earthwork will be as required by field conditions.
  - F. Culverts in the access road will not be used. The road will be constructed to utilize low water crossings for drainage as required by the topography.
3. LOCATION OF EXISTING WELLS IN A ONE-MILE RADIUS EXHIBIT "A-1"
  - A. Water wells - None known
  - B. Disposal wells - None known
  - C. Drilling wells - None known
  - D. Producing wells - As shown on Exhibit "A-1"
  - E. Abandoned wells - As shown on Exhibit "A-1"

## SURFACE USE PLAN

W.A. & E.R. HUDSON, INC.  
PUCKETT "A" LL # 1  
UNIT "O" SECTION 13  
T17S-R31E EDDY CO. NM

4. If on completion this well is a producer W.A. & E.R. Hudson, Inc. will furnish maps and or plats showing on site facilities or off site facilities as needed. Exhibit "F" shows where pipelines or powerlines will be constructed as required to produce this lease.

### 5. LOCATION AND TYPE OF WATER SUPPLY:

Water will be purchased locally from a commercial source and trucked over the access roads or piped in flexible lines laid on top of the ground.

### 6. SOURCE OF CONSTRUCTION MATERIAL:

If possible construction will be obtained from the excavation of drill site, if additional material is needed it will be purchased from a local source and transported over the access route as shown on Exhibit "C".

### 7. METHODS OF HANDLING WASTE MATERIAL:

- A. Drill cuttings will be disposed of in the reserve pit.
- B. All trash, junk and other waste material will be contained in trash cages or bins to prevent scattering. When the job is completed all contents will be removed and disposed of in a approved sanitary land fill.
- C. Salts remaining after completion of well will be picked up by supplier including broken sacks.
- D. Sewage from living quarters will drain into holes with a minium depth of 10'. These holes will be covered during drilling and will be back filled upon completion. A Porta-John will be provided for the rig crews. This equipment will be properly maintained during the drilling operations and removed upon completion of the well.
- E. Remaining drilling fluids will be allowed to evaporate in the reserve pit until the pit is dry enough for breaking out. In the event that drilling fluids do not evaporate in a reasonable time they will be hauled off by transports and be disposed of at a state approved disposal facility. Later pits will be broken out to speed drying. Water produced during testing will be put in reserve pits. Any oil or condensate produced will be stored in test tanks until sold and hauled from the site.

### 8. ANCILLARY FACILITIES:

- A. No camps or airstrips to be constructed.

SURFACE USE PLAN

W.A. & E.R. HUDSON, INC.  
PUCKETT "A" LL # 1  
UNIT "O" SECTION 13  
T17S-R31E EDDY CO. NM

9. WELL SITE LAYOUT

- A. Exhibit "D" shows the proposed well site layout.
- B. This exhibit indicated proposed location of reserve and sump pits and living facilities.
- C. Mud pits in the active circulating system will be pits and the reserve pit is proposed to be unlined, unless subsurface condition encountered during pit construction indicate that lining is needed for lateral containment of fluids.
- D. If needed, the reserve pit is to be lined with polyethylene. The pit liner will be 6 mils thick. Pit liner will extend a minimum 2'00" over the reserve pits dikes where the liner will be anchored down.
- E. The reserve pit will be fenced on three sides with four strands of barbed wire during drilling and completion phases. The fourth side will be fenced after all drilling operations have ceased. If the well is a producer, the reserve pit fence will be torn down. The reserve pit and those areas of the location not essential to production facilities will be reclaimed and seeded per BLM requirements.

10. PLANS FOR RESTORATION OF SURFACE

Rehabilitation of the location and reserve pit will start in a timely manner after all drilling operations cease. The type of reclamation will depend on whether the well is a producer or a dry hole.

However, in either event, the reserve pit will be allowed to dry properly, and fluid removed and disposed of in accordance with Article 7.B as previously noted. The pit area will then be leveled and contoured to conform to the original and surrounding area. Drainage systems, if any, will be reshaped to the original configuration with provisions made to alleviate erosion. These may need to be modified in certain circumstances to prevent inundation of the location's pad and surface facilities. After the area has been shaped and contoured, topsoil from the spoil pile will be placed over the disturbed area to the extent possible. Revegetation procedures will comply with BLM standards.

If the well is a dry hole, the pad and road area will be contoured to match the existing terrain. Topsoil will be spread to the extent possible. Revegetation will comply with BLM standards.

Should the well be a producer, the previously noted procedures will apply to those areas which are not required for production facilities.

SURFACE USE PLAN

W.A. & E.R. HUDSON, INC.  
PUCKETT "A" LL # 1  
UNIT "O" SECTION 13  
T17S-R31E EDDY CO. NM

11. OTHER INFORMATION:

- A. Topography consists of sand dunes with a slight dip toward the West. Deep sandy soil supports native grasses, mesquite, and shinnery Oak.
- B. Surface is owned by the Bureau of Land Management U.S. Department of Interior. Surface is used for grazing of livestock and is leased to ranchers for this purpose.
- C. An archaeological survey will be conducted and copies of the survey will be filed in the Carlsbad Office of The Bureau of Land Management.
- D. There are no dwellings or habitation within three miles of this location.

12. OPERATORS REPRESENTATIVE:

Before construction:

TIERRA EXPLORATION INC.  
P.O. BOX 2188  
HOBBS, NEW MEXICO 88241  
OFFICE PHONE 505-392-2112  
JOE T. JANICA

During and after construction:

W.A. & E.R. HUDSON, INC  
616 TEXAS STREET  
FORT WORTH, TEXAS 76102  
JON B. SMITH (OFFICE PHONE 505-676-2266)  
P.O. BOX 9  
MALJAMAR, NEW MEXICO 88264

13. CERTIFICATION: - 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 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 the operations proposed herein will be performed W.A. & E.R. Hudson, Inc. & it's contractors/subcontractors is in the conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provision of U.S.C. 1001 for the filing of a false statement.

NAME : Joe T Janica  
DATE : 07/10/00  
TITLE : Agent



R.30 E.

R.31 E.

To Hogerman

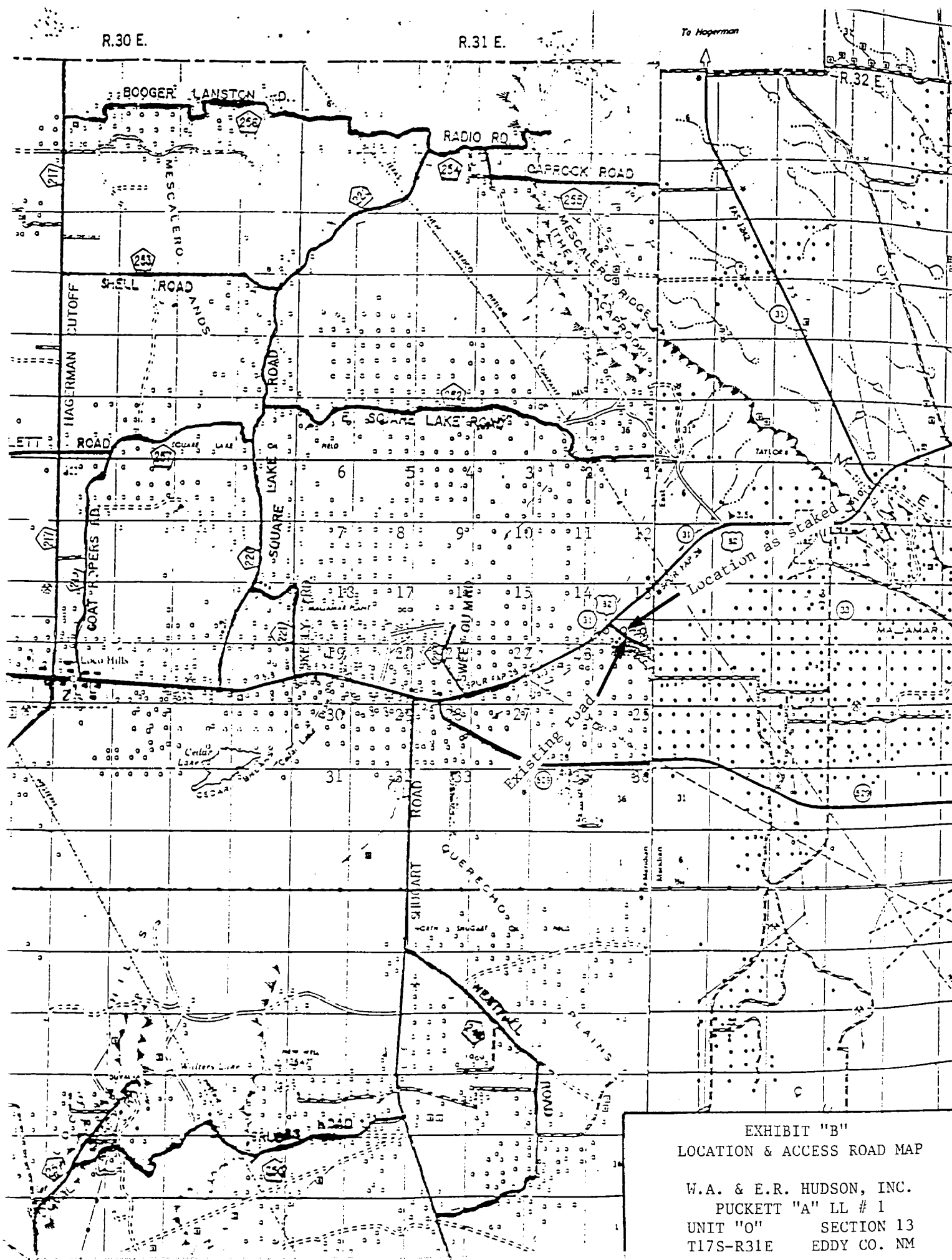
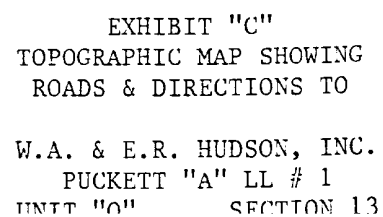
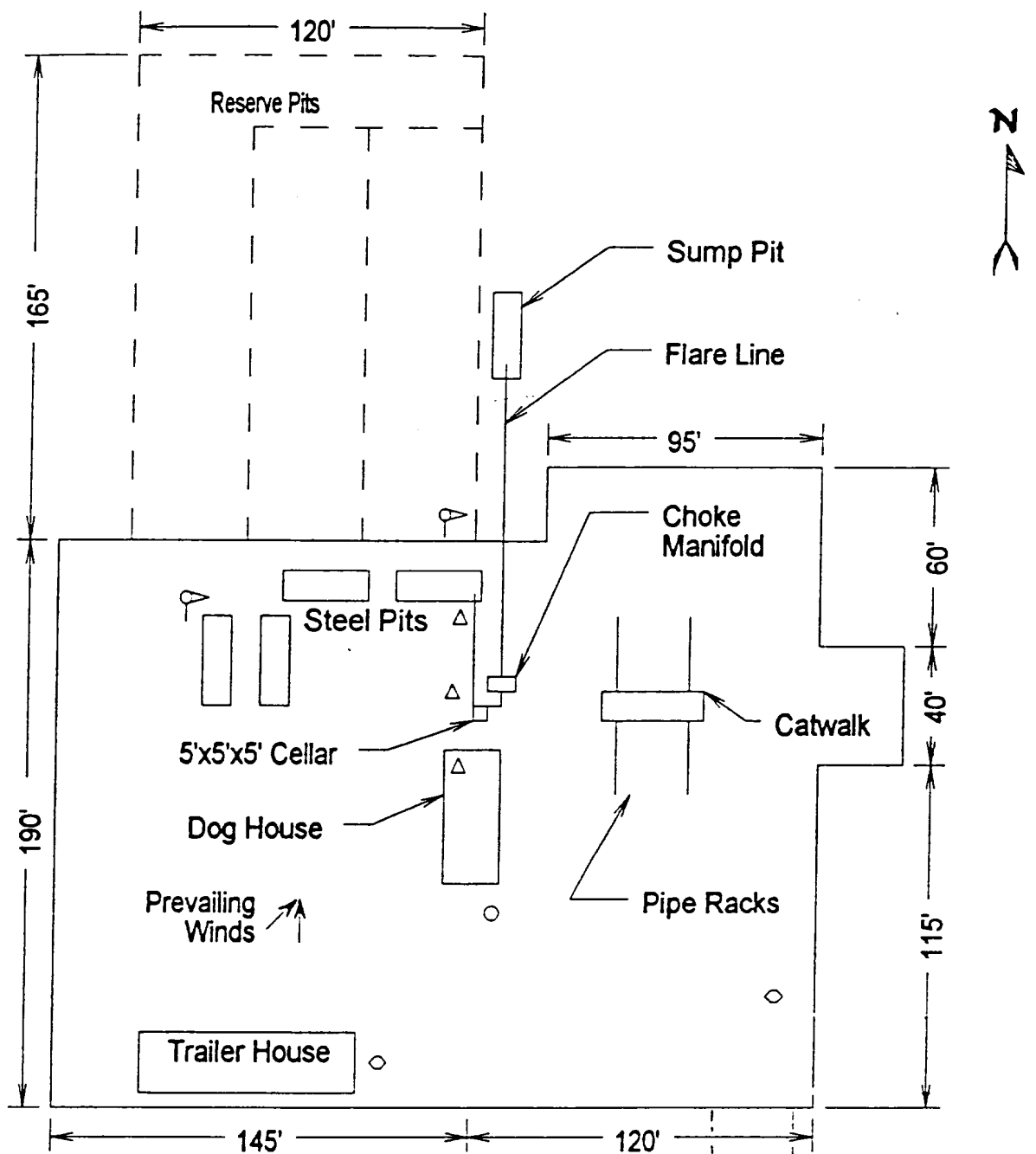


EXHIBIT "B"  
LOCATION & ACCESS ROAD MAP

W.A. & E.R. HUDSON, INC.  
PUCKETT "A" LL # 1  
UNIT "O" SECTION 13  
T17S-R31E EDDY CO. NM



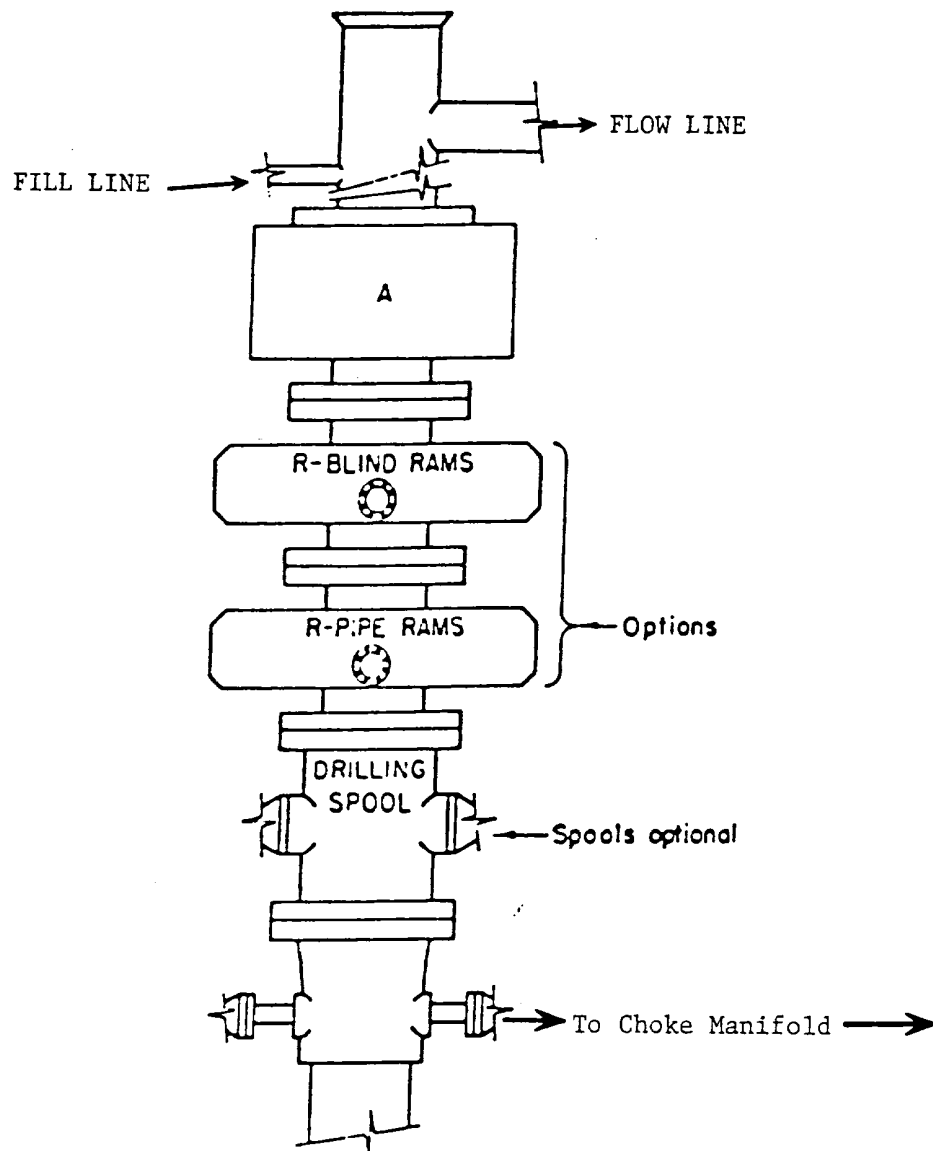




- Wind Direction Indicators (wind sock or streamers)
- △ H2S Monitors (alarms at bell nipple and shale shaker)
- Briefing Areas
- Remote BOP Closing Unit
- Sign and Condition Flags

EXHIBIT "D"  
RIG LAYOUT PLAT

W.A. & E.R. HUDSON, INC.  
PUCKETT "A" LL # 1  
UNIT "O" SECTION 13  
T17S-R31E EDDY CO. NM

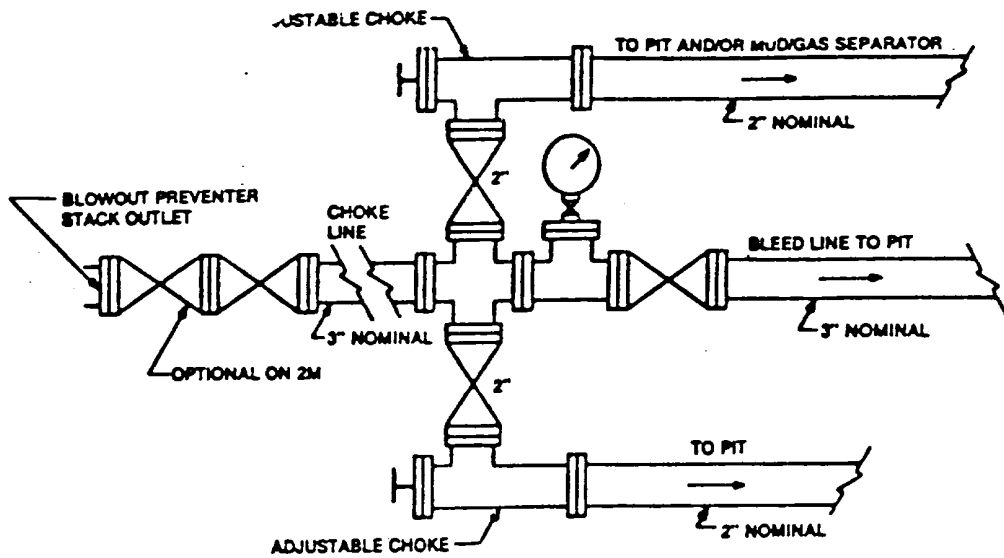


# **ARRANGEMENT SRRA**

900 Series  
3000 PSI WP

EXHIBIT "E"  
SKETCH OF B.O.P. TO BE USED ON

W.A. & E.R. HUDSON, INC.  
PUCKETT "A" LL # 1  
UNIT "O" SECTION 13  
T17S-R31E EDDY CO. NM



Typical choke manifold assembly for 3M WP system

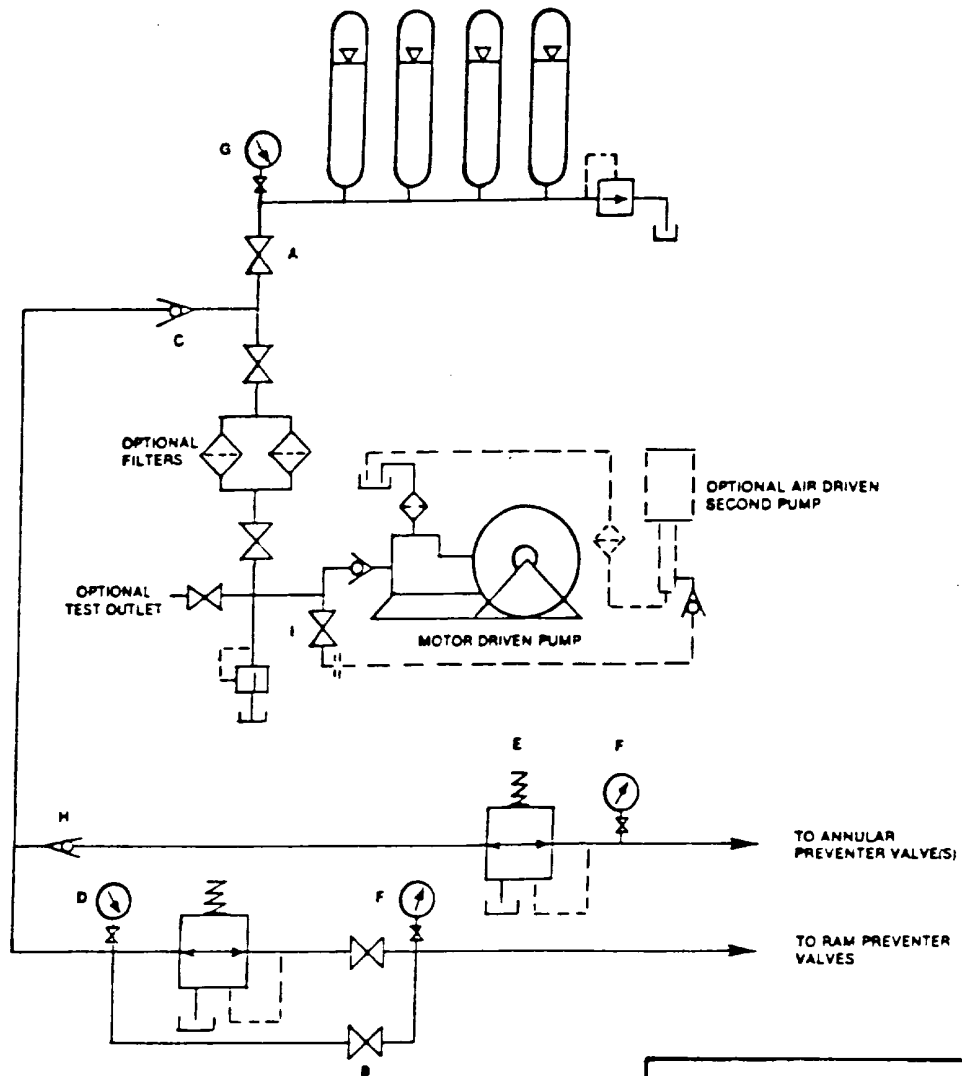


EXHIBIT "E-1"  
CHOKE MANIFOLD & CLOSING UNIT

W.A. & E.R. HUDSON, INC.  
PUCKETT "A" LL # 1  
UNIT "O" SECTION 13  
T170 021E EDDY CO NM

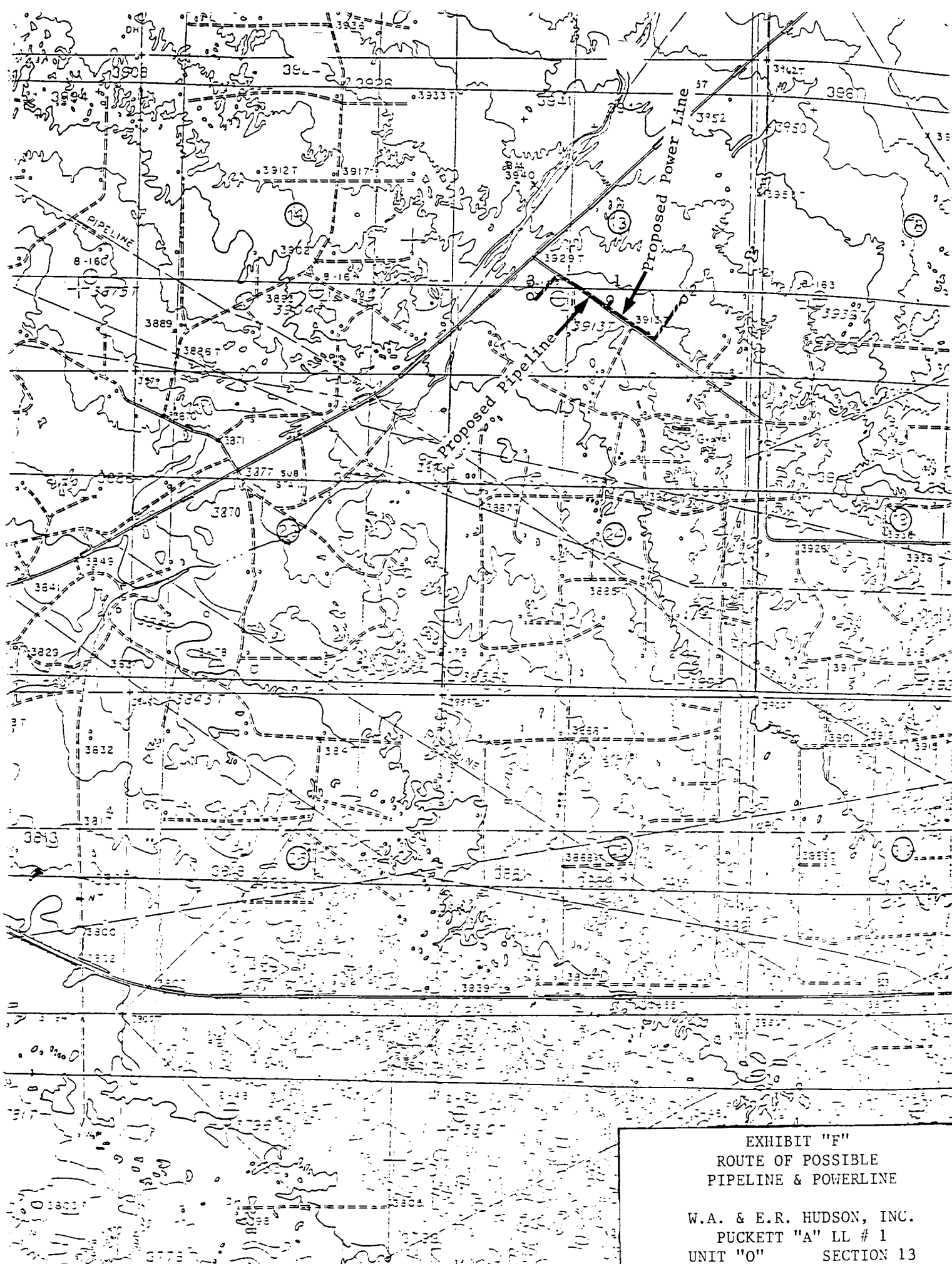


EXHIBIT "F"  
ROUTE OF POSSIBLE  
PIPELINE & POWERLINE

W.A. & E.R. HUDSON, INC.  
PUCKETT "A" LL # 1  
UNIT "O" SECTION 13

30-015-31304

OGRID - 25111

PROP - 26595

POOL - 43329

3-12-01

PLAT EXP.

AZ-LL / MICRO-CFL / GR

1800-4037

PLAT. EXP. / 3D-LD

COMP. NEUT. / GR

1800-4037



30-015-31304  
Puckett "A" IL #1

13-175-31E  
Ut.O SW/SE

**Oxford®**

ESSELITE

NO. R753 1/3

10%



Geol. Tops per Box	
Rustler	537
Salado	764
Base of Sat	1792
Gates	1900
7 Rivers	2088
Bowers	2600
Queen	2927
Grayburg	3405
San Andres	3682



1  
Cello  
Create