

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY30-005-61437 RECEIVED
5. LEASE DESIGNATION AND SERIAL NO.
NM-18970 MAR - 1 1982C/SF
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

Read & Stevens, Inc. ✓

3. ADDRESS OF OPERATOR

P. O. Box 1518 Roswell, NM 88201

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

At surface

660 FSL and 860 FSL
860 FSL 660 FSL

At proposed prod. zone

Same

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

47 miles northeast of Roswell, NM

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

660'

16. NO. OF ACRES IN LEASE

2,232

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.

2,500'

19. PROPOSED DEPTH

6315'

20. ROTARY OR CABLE TOOLS

Rotary

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

3907 GR

22. APPROX. DATE WORK WILL START*

March 10, 1982

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13 3/8"	54.4#	40'	50 SX Class "C" Circulated
11"	8 5/8"	24.0#	1074'	600 Sx Class "C" Circulated
7 7/8"	4 1/2"	10.5#	6315'	500 Sx Class "C"

Mud Program:

- 0' - 30' Spud Mud.
 30' - 1,074' Fresh water and native mud. Mud wt. 8.4 - 9#, Vis. 30-32,
 no WL control. If seepage is lost, add lost circulation
 material.
 1,074' - 4,300' Brine and native mud, salt gel and starch.
 4,300' - 5,500' Salt water gel and brine, Vis. 30-40, Wt. 9.0 - 10.0#,
 no WL control, add oil as needed.
 5,500' - 6,315' Salt water gel, brine, Vis. 35 - 50, Wt. 10#, plus flosal,
 salt gel, and starch.

BOP Program:

One 3,000# wp Shaffer Type "LWS" double BOP, with one 90-115 Melco closing
 unit, 90 gal. capacity.

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 for:

SIGNED

TITLE

Read & Stevens, Inc.

DATE January 15, 1982

(This space for Federal or State office use)

PERMIT NO.

APPROVED

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY

FEB 26 1982

JAMES A. GILLHAM
DISTRICT SUPERVISOR

TITLE

APPROVAL DATE

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS
ATTACHED

DATE

*See Instructions On Reverse Side

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form C-102
Revised 10-1-78

All distances must be from the outer boundaries of the Section.

Operator Read & Stevens, Inc.		Lease West Haystack Federal		Well No. #2
Unit Letter M	Section 20	Township 6 South	Range 27 East	County chaves
Actual Footage Location of Well: 660 feet from the West line and 860 feet from the South line				
Ground Level Elev. 3907	Producing Formation Montoya	Pool Undesignated Wildcat		Dedicated Acreage: 40 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 Division.

Sec. 20, T. 6 S., R. 27 E., N.M.P.M.

Read & Stevens, Inc.

NM-18970

660'

860'

CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name

George R. Smith

Position

Agent for

Company

Read & Stevens, Inc.

Date

January 15, 1982

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

December 5, 1981

Registered Professional Engineer
and/or Licensed SurveyorJohn D. Jaquess, P.E. & L.S.
Certificate No.

6290

APPLICATION FOR DRILLING

READ & STEVENS, INC.
West Haystack Federal, Well No. 2
660' FWL and 860' FSL, Sec. 20-T6S-R27E
Chaves County, New Mexico
Lease No.: NM-18970
(Exploratory Well)

In conjunction with Form 9-331C, Application for Permit to Drill subject well, Read & Stevens, Inc. submits the following items of pertinent information in accordance with USGS requirements:

1. The geologic surface formation is Permian with quaternary alluvium and other surficial deposits.
2. The estimated tops of geologic markers are as follows:

San Andres	1,037'	Mississippi	6,110'
Glorieta	2,237'	Devonian	6,240'
Abo	4,330'	T. D.	6,315'
Wolfcamp	5,042'		
3. The estimated depth at which anticipated water, oil or gas formations are expected to be encountered:

Water: Approximately 200 - 400 feet for surface water.

Gas: Abo: Between 4330' and 4900'.

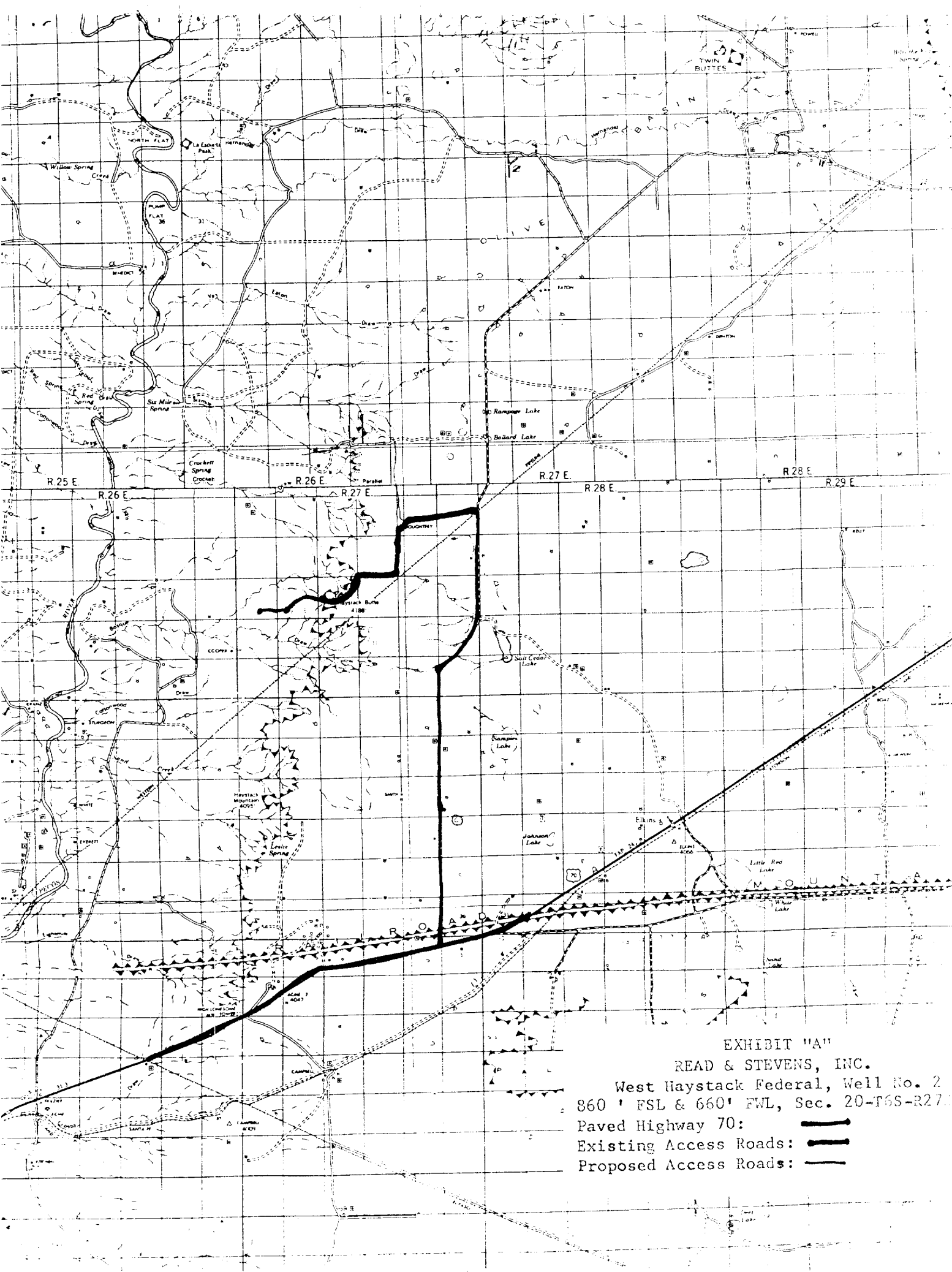
Oil: Montoya at approximately 6,250'.
4. Proposed Casing Program: See Form 9-331C.
5. Pressure Control Equipment: See Form 9-331C and Exhibit "E".
6. Mud Program: See Form 9-331C.
7. Auxiliary Equipment: Blowout preventer, gas detector, kelly cock, pit level monitor, flow sensors and stabbing valve.
8. Testing, Logging and Coring Program:

Drill Stem Tests: None.

Logging: Gamma Ray:	Surface to T. D.
FDC/CNL	Int. Csg. to T. D.
Dual Ind. Laterolog:	Int. Csg. to T. D.

Coring: None.
9. No abnormal pressures or temperatures are anticipated. In the event abnormal pressures are encountered, the proposed mud program will be modified to increase the mud weight.
10. Anticipated starting date: February 10, 1982.

Anticipated completion of drilling operations: Approximately two weeks.







State Yates Pet. et al 6-1-89 LG-6663 60 42 19 L.R. French, Jr. Burles Canyon St. 705843 DA 7-25-73 State Yates Pet. et al 6-1-89 LG-6667 81 25 State Public Lds. Expl. Mesa Pet. 1/2 6-1-85 25355 U.S. Mesa Pet. 1/2 Public Lds. Expl. 9-1-85 18961 31 U.S.	State Yates Pet. et al 6-1-89 LG-6664 61 22 20 State Yates Pet. et al 6-1-89 LG-6668 91 23 29 State Public Lds. Expl. & Mesa Pet. 6-1-89 LG-6668 106 25 32 State Public Lds. Expl. & Mesa Pet. 6-1-89 LG-6668 106 25	State Yates Pet. et al 6-1-87 LG-7950 61 22 21 State Public Lds. Expl. & Mesa Pet. 6-1-89 LG-6665 76 25 28 State Public Lds. Expl. & Mesa Pet. 6-1-89 LG-6668 104 25 33 State Public Lds. Expl. & Mesa Pet. 6-1-89 LG-6668 104 25	5 26 State Managan Pet. 8-1-85 LG-2932 5 26 22 State Yates Pet. et al 9-1-86 LG-3740 10 23 27 State Galaxy Oil 5/8 Read & Stevens 3/8 8-1-83 18821 34 State Yates Pet. et al 6-1-89 LG-6670 50 22	State U.S. 23 U.S. Read & Stevens 2-25-81 Stevens Oil 6-3-85 U.S. Annie Ray M. Wier J.B. Wier U.S. Galaxy Oil 5/8 Read & Stevens 3/8 8-1-83 18821 26 U.S. Galaxy Oil 5/8 Read & Stevens 3/8 8-1-83 18821 36 State Yates Pet. et al 6-1-89 LG-6670 50 22	U.S. Enserch, Inc. Sun 3-24-81 24 U.S. Enserch, Inc. Sun 3-24-81 25 U.S. Mesa Pet. 1/2 Public Lds. Expl. 9-1-85 18961 U.S. Galaxy 9-15-80 1-4890 8 21
Yates 4-1-84 20342 Yates Pet. et al 3-1-84 20344 12 U.S. Yates 10-21-82 6-27-82 7-19-82 Mesa Pet. 1/2 Public Lds. Expl. 4-1-84 20345 13 U.S. John Mohrle 9-1-87 31098 24 U.S. John Mohrle 9-1-87 31098 25 U.S.	Barbee K. Morrison 5-1-88 11601 Clifford Cone 1-1-84 19838 7 U.S. Cities Serv. 11-1-86 28320 18 U.S. Catherine Haglan 17 U.S. Cities Serv. 11-1-86 28320 19 U.S. Read & Stevens 9-1-83 18970 20 U.S. Read & Stevens 9-1-83 18970 29 U.S. Read & Stevens 9-1-83 18970	Clifford Cone 1-1-84 19838 8 U.S. Cities Serv. 11-1-86 28320 17 U.S. Cities Serv. 11-1-86 28320 20 U.S. Read & Stevens 9-1-83 18970 21 U.S. Read & Stevens 9-1-83 18970 28 U.S. Read & Stevens 9-1-83 18970	U.S. Yates 10-1-87 31365 El Paso Nat. 7814 Blackrock Oil Bates McHenry 12-4-82 12-4-82 12-4-82 Read & Stevens 3/8 Shenandoah 10-1-78 7814 16 U.S. Read & Stevens 12-1-84 LG-7697 58 23 21 U.S. Read & Stevens 12-1-84 LG-7697 58 23 28 U.S. Read & Stevens 12-1-84 LG-7697 58 23	U.S. Allied Chem. et al HBP 0154766 U.S. McClendon Oil HBP 0154766 U.S. McClendon Oil HBP 0154766 U.S. McClendon Oil HBP 0154766 U.S. McClendon Oil HBP 0154766	U.S. McClendon Oil HBP 0154766 U.S. McClendon Oil HBP 0154766 U.S. McClendon Oil HBP 0154766 U.S. McClendon Oil HBP 0154766 U.S. McClendon Oil HBP 0154766

EXHIBIT "C"
READ & STEVENS, INC.
West Haystack Federal, Well No. 2
Existing Wells

SIERRA Drilg. Co.
Rig #2

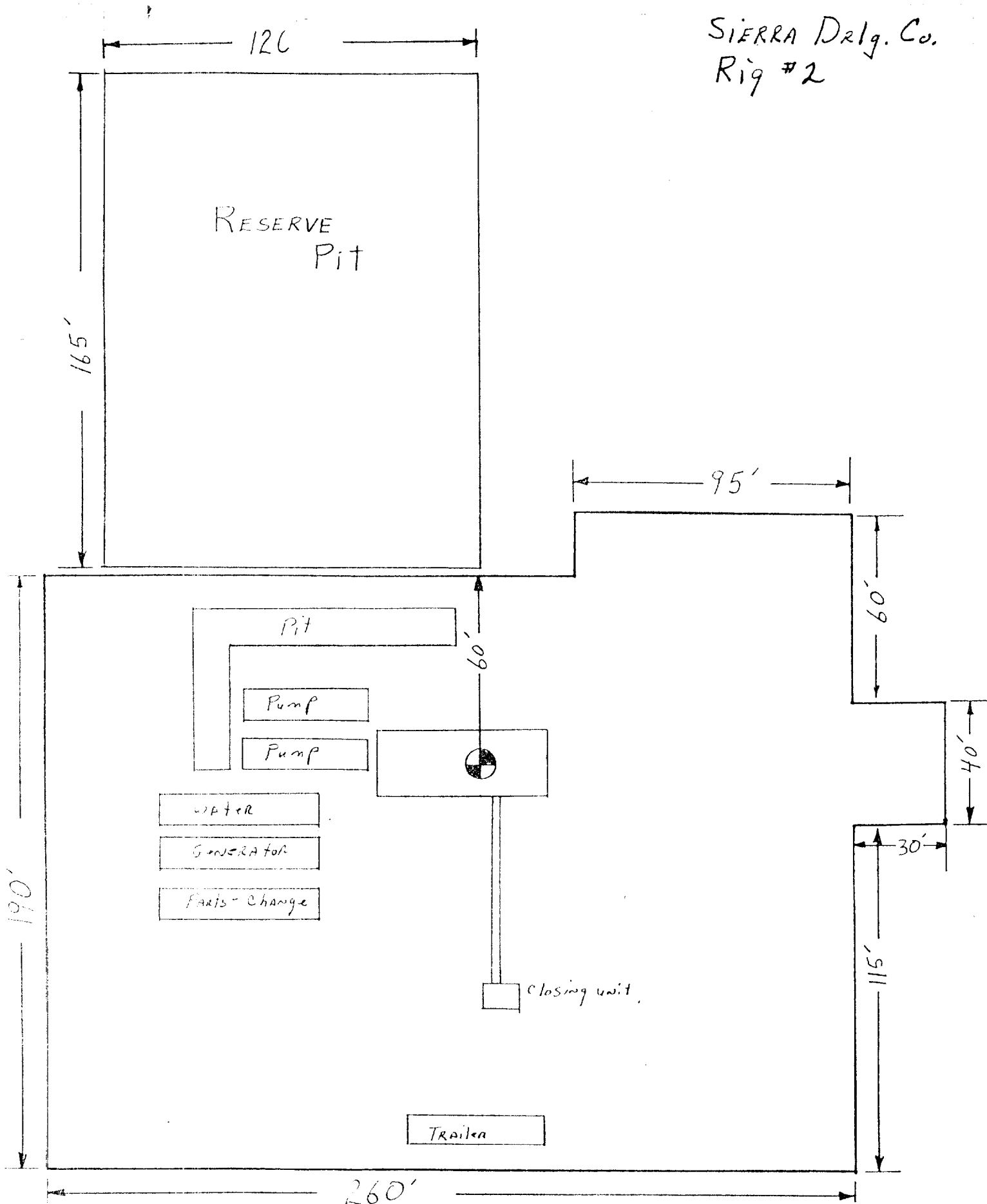


EXHIBIT "D"
READ & STEVENS, INC.
West Haystack Federal, Well No. 2
Rig Layout

SIERRA DRILLING CO. Rig #1
 GL to Floor 132"
 GL to Bottom of Rotary 116"

This Stack is

110.5"

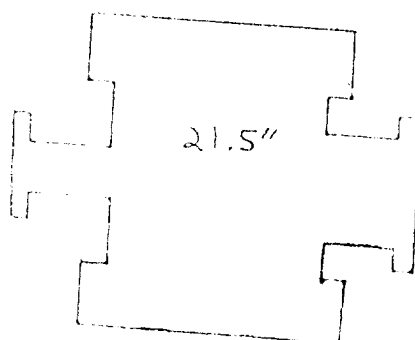
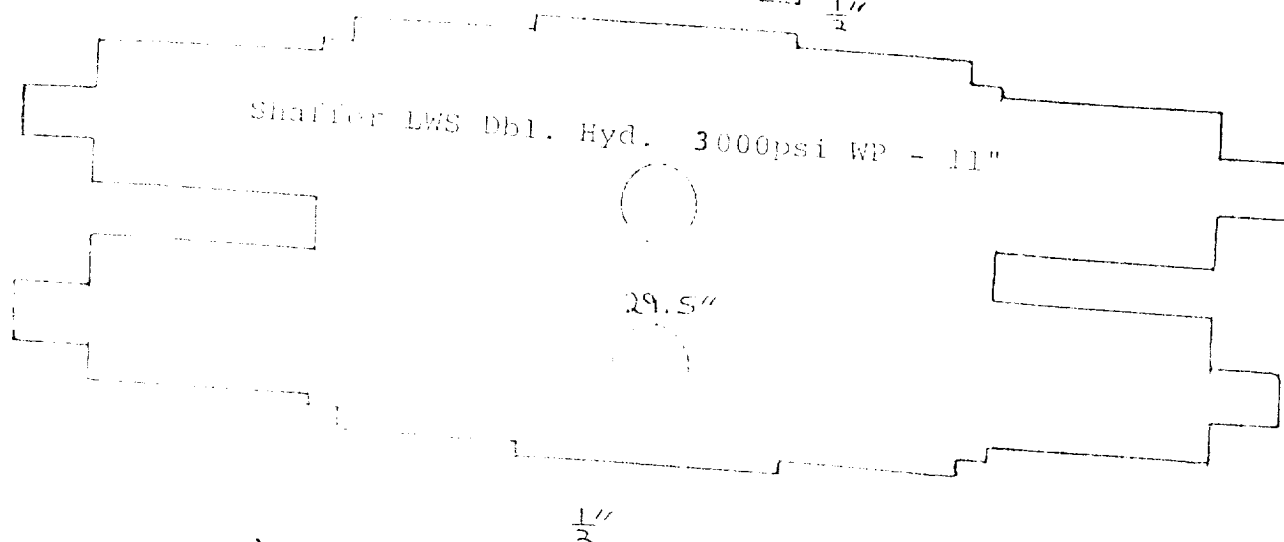
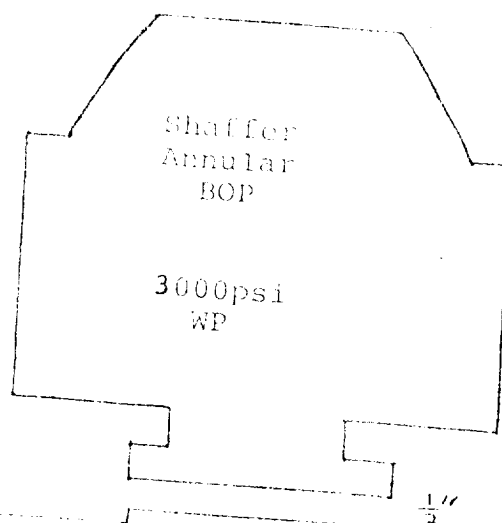
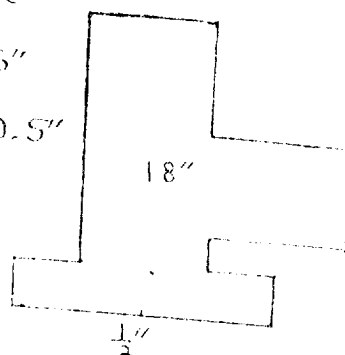


EXHIBIT "E"
 READ & STEVENS, INC.
 West Haystack Federal, Well No. 2
 Blowout Preventer Specs.