

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
Artesia, NM 88210

Budget Bureau No. 1004-0135  
Expires August 31, 1985

clsf

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>		RECEIVED	
2. NAME OF OPERATOR Read & Stevens, Inc.		DEC 23 1991	
3. ADDRESS OF OPERATOR P.O. Box 1518, Roswell, NM 88202		O. C. D. ARTESIA OFFICE	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface  1980' FNL & 2310' FEL		5. LEASE DESIGNATION AND SERIAL NO. NM-18970	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME		7. UNIT AGREEMENT NAME	
8. FARM OR LEASE NAME West Haystack Federal		9. WELL NO. 4	
10. FIELD AND POOL, OR WILDCAT Wildcat		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec 30-T6S-R27E	
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 3842.9 GL	12. COUNTY OR PARISH Chaves	13. STATE NM

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

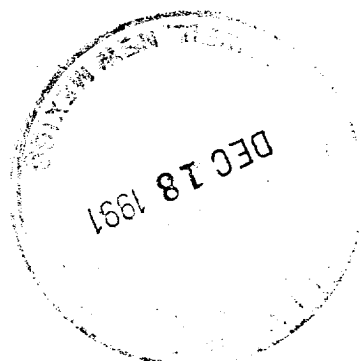
NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input checked="" type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>Surface Casing</u>	

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

*Spudded 11/19/91*

Drill 12 1/4" hole to 1,105'. Run and cement 8 5/8" 24# J55 csg @ 1,105' w/650 sx cmt. Good returns, no cmt to surf. Temp survey shows TOC @ 100' from surface. Run 1" pipe and cmt w/150 sx, circ cmt to surf. Test BOP to rated working press. Continue drlg.



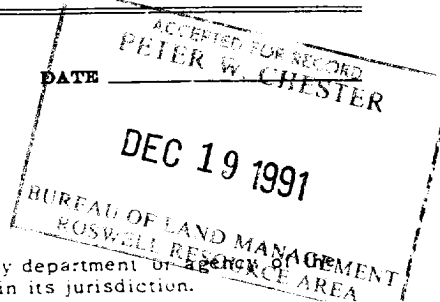
18. I hereby certify that the foregoing is true and correct

SIGNED J. M. J. TITLE Petroleum Engineer DATE 12/16/91

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:



\*See Instructions on Reverse Side

NM Oil Cons. Commission  
Drawer DD  
Artesia, NM 88210

CONTACT RECEIVING  
OFFICE FOR N R  
OF COPIES REQUIRED  
RECEIVED  
(Other instructions on  
reverse side)

30-05-62856  
BLM Roswell District  
Modified Form No.  
NM60-3160-2

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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. ✓

3a. Area Code & Phone No.

(505) 622-3770

3. ADDRESS OF OPERATOR

P. O. Box 1518 Roswell, NM 88202

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

At surface

1980' FNL & 2310' FEL

At proposed prod. zone

same

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

44 road miles northeast of Roswell, NM

16. DISTANCE FROM PROPOSED\*

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

1980'

18. NO. OF ACRES IN LEASE

2,232

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

320

19. DISTANCE FROM PROPOSED LOCATION\*

TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

1320'

20. PROPOSED DEPTH

6,000'

21. ROTARY OR CABLE TOOLS

Rotary

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

3842.9 GL

23. APPROX. DATE WORK WILL START\*

November 15, 1990

24.

PROPOSED CASING AND CEMENTING PROGRAM

HOLE SIZE	CASING SIZE	WEIGHT/FOOT	GRADE	THREAD TYPE	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 5/8"	24#	J55	STC	1100'	650 SX "C" Circ.
7 7/8"	4 1/2"	10.5#	J55	LTC	6000'	850 SX "C"

Mud Program: 0'- 1,100' Fresh water spud mud.  
1,100'- 5,600' Cut Brine.  
5,600'- 6,000' Cut Brine.

Mud Wt.	Vis.	W/L
8.4- 9.0ppg	28	No W/L
9.4-10.0 "	28-32	No W/L
9.4-10.0 "	35	W/L 10 cc

BOP Program: A 3,000 psi wp LWS Series Shaffer double hydraulic operated BOP will be used and tested daily. See Exhibit "E". BOP to be used as a 2,000 psi wp system. BOP and 8 5/8" casing will be tested before drilling out with 8 5/8" casing.

Gas not dedicated.

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. NEW BRANCH preventer program, if any.

24.

SIGNED

*George Smith*

Agent for:  
TITLE Read & Stevens, Inc.

DATE October 15, 1990

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

/s/ Sandra L. Allen

TITLE

Area Manager

DATE

MAY 31 1991

\*See Instructions On Reverse Side

# OIL CONSERVATION DIVISION

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

DISTRICT I  
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II  
P.O. Drawer DD, Artesia, NM 88210

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

## WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator Read & Stevens, Inc.			Lease West Haystack Federal		Well No. 4
Unit Letter G	Section 30	Township 6 South	Range 27 East	County Chaves	

Actual Footage Location of Well:

1980 feet from the North line and		2310 feet from the East line	
Ground level Elev. 3842.9	Producing Formation Cisco	Pool Wildcat	Dedicated Acreage: 320 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 interest of all owners been consolidated by communitization, unitization, force-pooling, etc.?

☐ Yes ☐ No

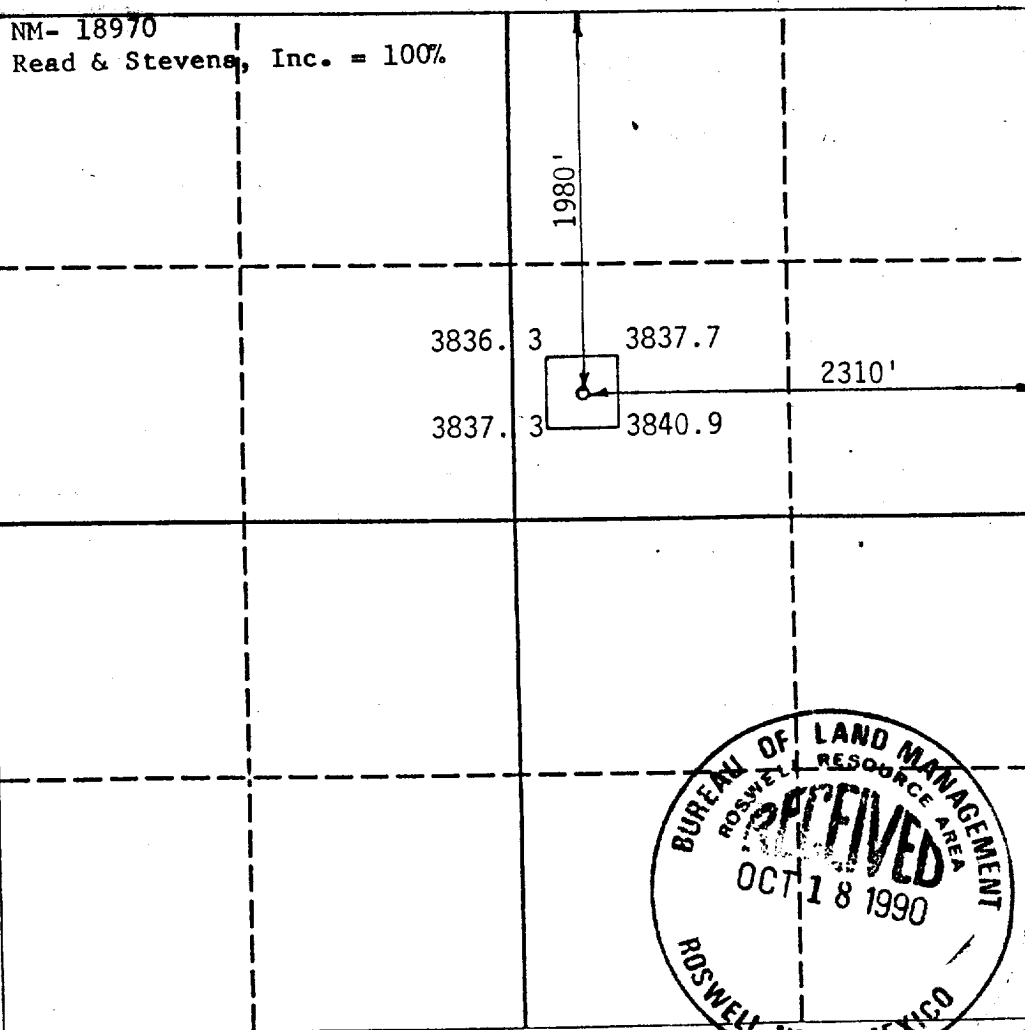
If answer is "yes" type of consolidation

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 interest, has been approved by the Division.

NM- 18970

Read & Stevens, Inc. = 100%



### OPERATOR CERTIFICATION

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

Signature

*George R. Smith*

Printed Name

George R. Smith

Position

Agent for:

Company

Read & Stevens, Inc.

Date

October 15, 1990

### SURVEYOR CERTIFICATION

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

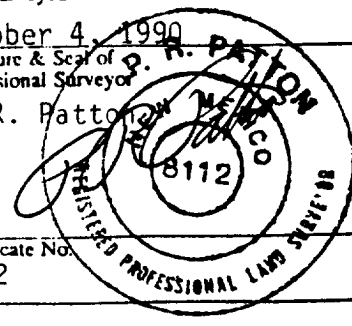
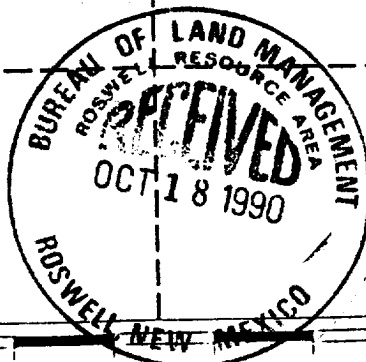
October 4, 1990

Signature & Seal of  
Professional Surveyor

P. R. Patton

Certificate No.

8112



0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0

# APPLICATION FOR DRILLING

READ & STEVENS, INC.  
West Haystack Federal, Well No. 4  
1980' FNL & 2310 FEL, Sec. 30-T6S-R27E  
Chaves County, New Mexico  
Lease No.: NM-18970  
(Exploratory Well)

In conjunction with Form 3160-3, Application for Permit to Drill subject well, Read & Stevens, Inc. submits the following items of pertinent information in accordance with BLM requirements:

1. The geologic surface formation is recent Permian with quaternary alluvium and other surficial deposits.

2. The estimated tops of geologic markers are as follows:

Queen	560'	Wolfcamp	4970'
San Andres	990'	Cisco	5580'
Glorieta	2170'	T.D.	6000'
Abo	4260'		

3. The estimated depths at which water, oil or gas formations are anticipated to be encountered:

Water: Surface water between 200' - 400'.

Gas: Possible in the Abo below 4260'.  
Possible in the Cisco below 5580'.

Oil: Possible in the San Andres below 990'.

4. Proposed Casing Program: See Form 3160-3.
5. Proposed Control Equipment: See Form 3160-3 and Exhibit "E".
6. Mud Program: See Form 3160-3.

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 unless warranted.

Logging: T.D. to surface casing:

G/R, CNL-LDT, DLL

Coring: None planned.

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: November 15, 1990.  
Anticipated completion of drilling operations: Approx. 3 weeks.



MULTI POINT SURFACE USE AND OPERATIONS PLAN

READ & STEVENS, INC.  
West Haystack Federal, Well No. 4  
1980' FNL & 2310 FEL, Sec. 30-T6S-R27E  
Chaves County, New Mexico  
Lease No.: NM-18970  
(Exploratory Well)



This plan is submitted with the Application for Permit to Drill the above described well. The purpose of the plan is to describe the location of the proposed well, the proposed construction activities and operations plan, to be followed in rehabilitating the surface environmental effects associated with the operations.

1. EXISTING ROADS:

- A. Exhibit "A" is a portion of a USGS/BLM Topo Quad map showing the location of the proposed well as staked. The well site location is approximately 44 road miles northeast of Roswell, New Mexico. Traveling northeast from Roswell on U.S. Highway 70, there will be approximately 25 miles of paved highway; 11 miles of county maintained gravel road and 8 miles of ranch/oilfield roads.
- B. Directions: Travel northeast from Roswell, NM on U.S. Highway 70 for approximately 25 miles from the U.S. Highway 285/70 overpass north of Roswell, turn north .3 mile east of highway marker 363 onto the Olive county road. Continue north for 11 miles, then turn west after crossing cattle guard for 2 miles to the South Van Eaton ranch house. Turn south, circling ranch house, then south for 1 mile and west for 1.4 mile, turning west at fork to the Read & Stevens, Inc., Federal "I" well on Haystack Butte. Continue west past the Federal "I" well for one mile to the West Haystack Fed. Well No. 2 well site. There is a bermed access road running southwest for 4,000 feet from this well site crossing the Bosque Draw, which is not passable at this time, then turns west for 2,000 feet to a plugged and abandoned well site, the West Haystack Fed., Well No. 3. The proposed access road is flagged to run north from the northeast corner of this well site for approximately 1000 feet to the southeast corner of the proposed drill site.

2. PLANNED ACCESS ROAD:

- A. Length and Width: The proposed access road will be constructed to a width of 12 feet (24' R/W) and will be approximately 1000 feet in length. The 6,000 feet of old access road and the Bosque crossing will be repaired and graded as needed. The proposed access road is flagged and is color coded red on Exhibit "B".
- B. Construction: The proposed access road will be constructed by grading and topping with compacted caliche and will be properly drained. Repair work will be done on the existing access road from Haystack Butte by grading and topping with caliche as needed and install proper drainage.
- C. Turnouts: One may be required, which will increase the road width to 20 feet for passing.
- D. Culverts: None on the new access road. One 24" culvert may be placed in the Bosque crossing for temporary and later changed to a concrete low water crossing for permanent use.
- E. Cuts and Fills: None, except to level 1 to 4 foot sand dunes.
- F. Gates, Cattleguards: None required.



2. PLANNED ACCESS ROAD: cont.....

- G. Off Lease R/W: An off lease R/W for the existing access road will be required on portions of the road on Federal surface back to the county road. See Exhibit "B".

3. LOCATION OF EXISTING WELLS:

- A. Existing wells within a two mile radius are shown on Exhibit "C".

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:

- A. There are gas production facilities on the lease at this time at the West Haystack, #2 well site, 860' FWL & 660' FWL, Sec. 20-T6S-R27E.
- B. If the well proves to be commercial, the necessary production facilities, gas separation-process equipment and tank battery, if needed, will be installed on the drilling pad.

5. LOCATION AND TYPE OF WATER SUPPLY:

- A. It is planned to drill the proposed well with fresh water that will be obtained from private or commercial sources and will be transported over the existing and proposed access roads.

6. SOURCE OF CONSTRUCTION MATERIALS:

- A. Caliche for surfacing the proposed access road and well site pad will be obtained from a Federal pit in the NE $\frac{1}{4}$ NE $\frac{1}{4}$  of Section 21-T6S-R27E, which will be staked and arch. cleared. The topsoil from the location will be stockpiled near the location for future rehabilitation use. No surface materials will be disturbed except necessary for actual grading and leveling of the drill site and access road.

7. METHODS OF HANDLING WASTE DISPOSAL:

- A. Drill cuttings will be disposed of in the reserve pits.
- B. Drilling fluids will be allowed to evaporate in the reserve pits until the pits are dry.
- C. All pits will be fenced with normal fencing materials to prevent livestock from entering the area.
- D. Water produced during operations will be collected in tanks until hauled to an approved disposal system, or a separate disposal application will be submitted to the BLM for approval.
- E. Oil produced during operations will be stored in tanks until sold.
- F. Current laws and regulations pertaining to the disposal of human waste will be complied with.
- G. Trash, waste paper, garbage and junk will be buried in a separate trash pit and covered with a minimum of 24 inches of dirt. All waste material will be contained to prevent scattering by the wind.



7. METHODS OF HANDLING WASTE DISPOSAL: cont.....
- H. All trash and debris will be buried or removed from the well site within 30 days after finishing drilling and/or completion operations.
8. ANCILLARY FACILITIES:
- A. None required.
9. WELL SITE LAYOUT:
- A. Exhibit "D" shows the relative location and dimensions of the well pad, reserve pits, and major rig components. The pad and pit area has been staked and flagged, 400' X 400'.
- B. Mat Size: 255' X 180', plus 75' X 100' reserve pits and 20' X 20' stinger.
- C. Cut & Fill: Leveling and filling of 5-10 foot sand dunes and adjacent deflation basins will be required.
- D. The surface will be topped with compacted caliche and the reserve pits will be plastic lined.
10. PLANS FOR RESTORATION OF THE SURFACE:
- A. After completion of drilling and/or completion operations, all equipment and other material not needed for operations will be removed. Pits will be filled and the location cleaned of all trash and junk to leave the well site in an aesthetically pleasing condition as possible.
- B. Any unguarded pits containing fluids will be fenced and screened until they are filled.
- C. If the proposed well is non-productive, all rehabilitation and/or vegetation requirements of the Bureau of Land Management will be complied with and will be accomplished as expeditiously as possible. All pits will be filled and leveled within 90 days after abandonment.
11. OTHER INFORMATION:
- A. Topography: The proposed well site and access road is located in an area of hummocky terrain of 5-10 foot sand dunes and deflation basins located 600 feet south of the Bosque Draw. The location has a slight westerly slope of 1-2% from an elevation of 3842.9'.
- B. Soil: The topsoil at the well site is a reddish brown fine sandy clay loam of the Faskin-Roswell complex soils series.
- C. Flora and Fauna: The vegetation cover is a poor grass cover of three-awn, sand and spike dropseed, grama, bristlegrass, buffalo, muhly and other miscellaneous native grasses along with plants of mesquite, yucca, sage, cacti, fourwing saltbush and miscellaneous weeds and wildflowers. The wildlife consists of rabbits, coyotes, rattlesnakes, lizards, dove, quail and other wildlife typical of the semi-arid desert land.



11. OTHER INFORMATION; cont.....

- D. Ponds and Streams: There is an intermittent stream in the Bosque Draw 600 feet to the north.
- E. Residences and Other Structures: The Mark Cooper ranch house is 4000 feet to the southwest.
- F. Land Use: Cattle grazing.
- G. Surface Ownership: The proposed well site and access road is on Federal surface and minerals
- H. There is no evidence of any archaeological, historical or cultural sites in the area. An archaeological survey has been conducted by Archaeological Survey Consultants, P. O. Box D, Roswell, NM 88202, and their report has been submitted to the appropriate government agencies.

12. OPERATOR'S REPRESENTATIVE:

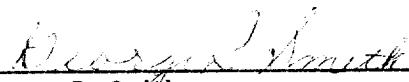
- A. The field representative responsible for assuring compliance with the approved surface use and operations plan is as follows:

Carl Little  
Read & Stevens, Inc.  
4129 N. Grimes  
Hobbs, NM 88240  
Office Phone: (505) 623-1996  
Home Phone: (505) 392-8777

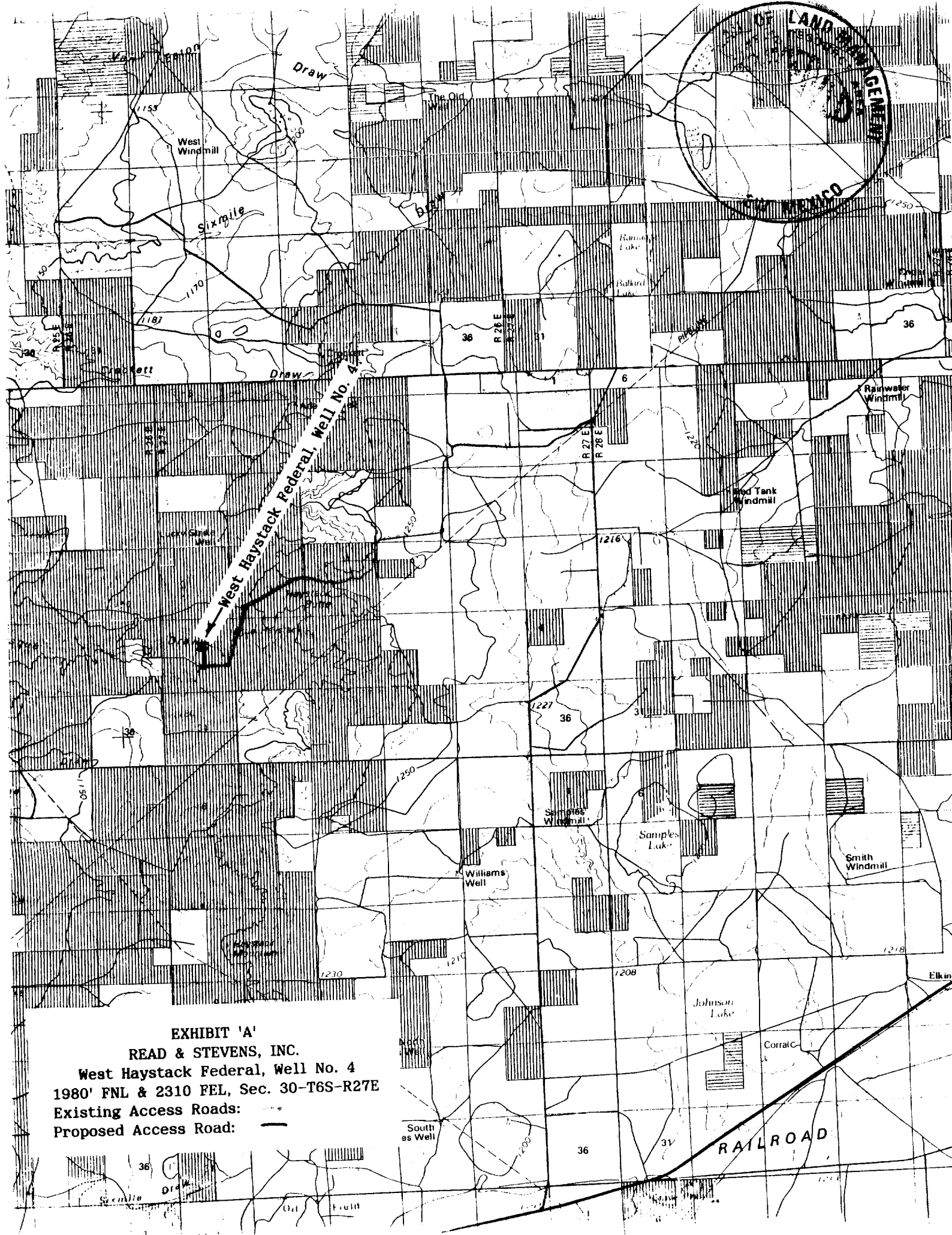
13. CERTIFICATION:

I hereby certify that I 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 Read & Stevens, Inc. and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

October 12, 1990

  
\_\_\_\_\_  
George R. Smith  
Agent for: Read & Stevens, Inc.





**EXHIBIT 'A'**

**READ & STEVENS, INC.**

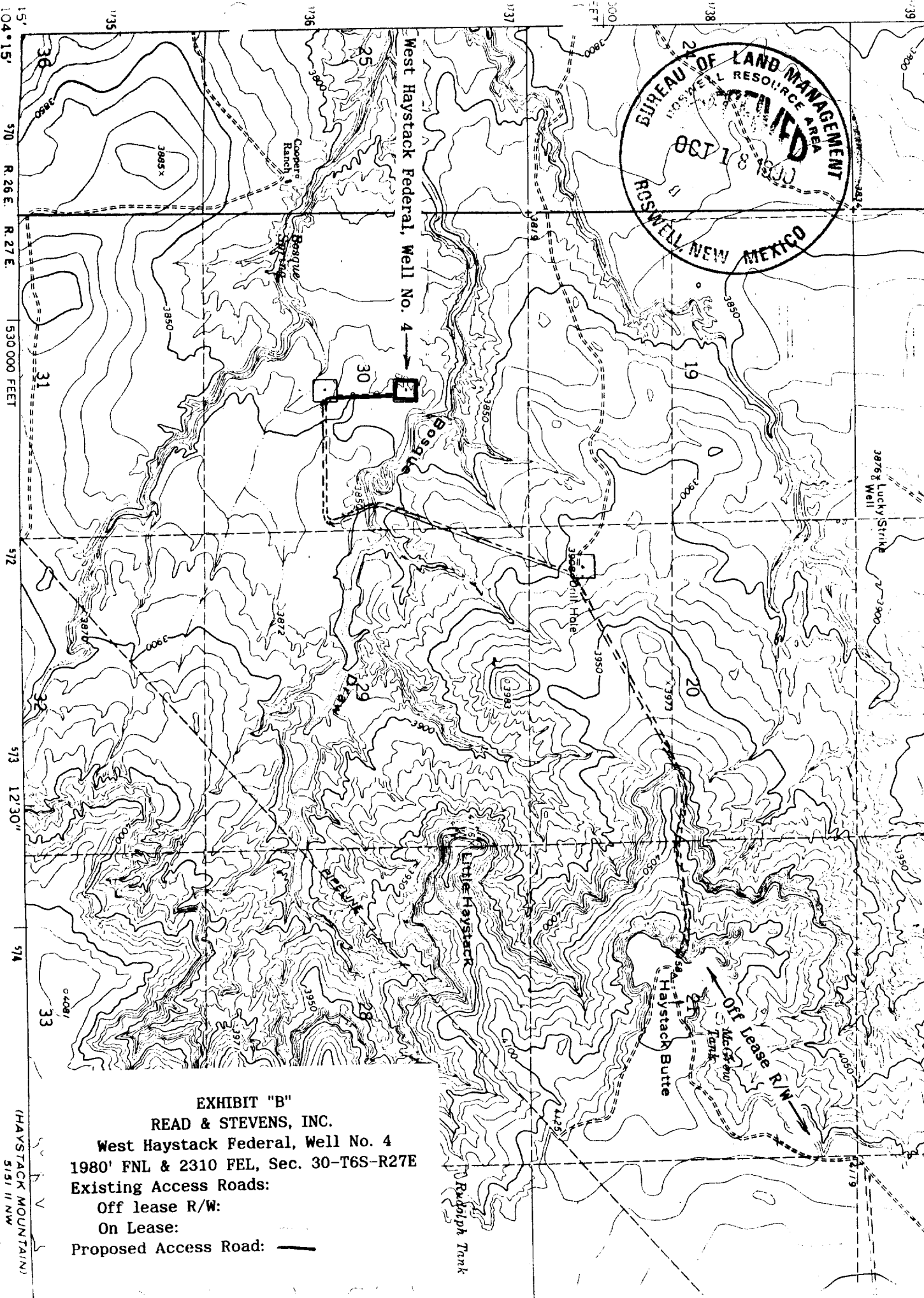
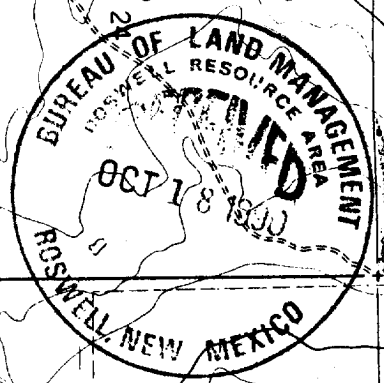
**West Haystack Federal, Well No. 4**

**1980' FNL & 2310 FEL, Sec. 30-T6S-R27E**

**Existing Access Roads:**

**Proposed Access Road:**

**RAILROAD**



Mapped, edited, and published by the Geological Survey  
Control by USGS and USC&GS  
Topography by photogrammetric methods from aerial

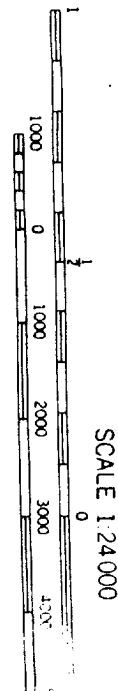


EXHIBIT "B"  
READ & STEVENS, INC.  
West Haystack Federal, Well No. 4  
1980' FNL & 2310 FEL, Sec. 30-T6S-R27E  
Existing Access Roads:  
Off lease R/W:  
On Lease:  
Proposed Access Road: —

(HAYSTACK MOUNTAIN)  
SCALE 1:24,000  
5/51 11 NW

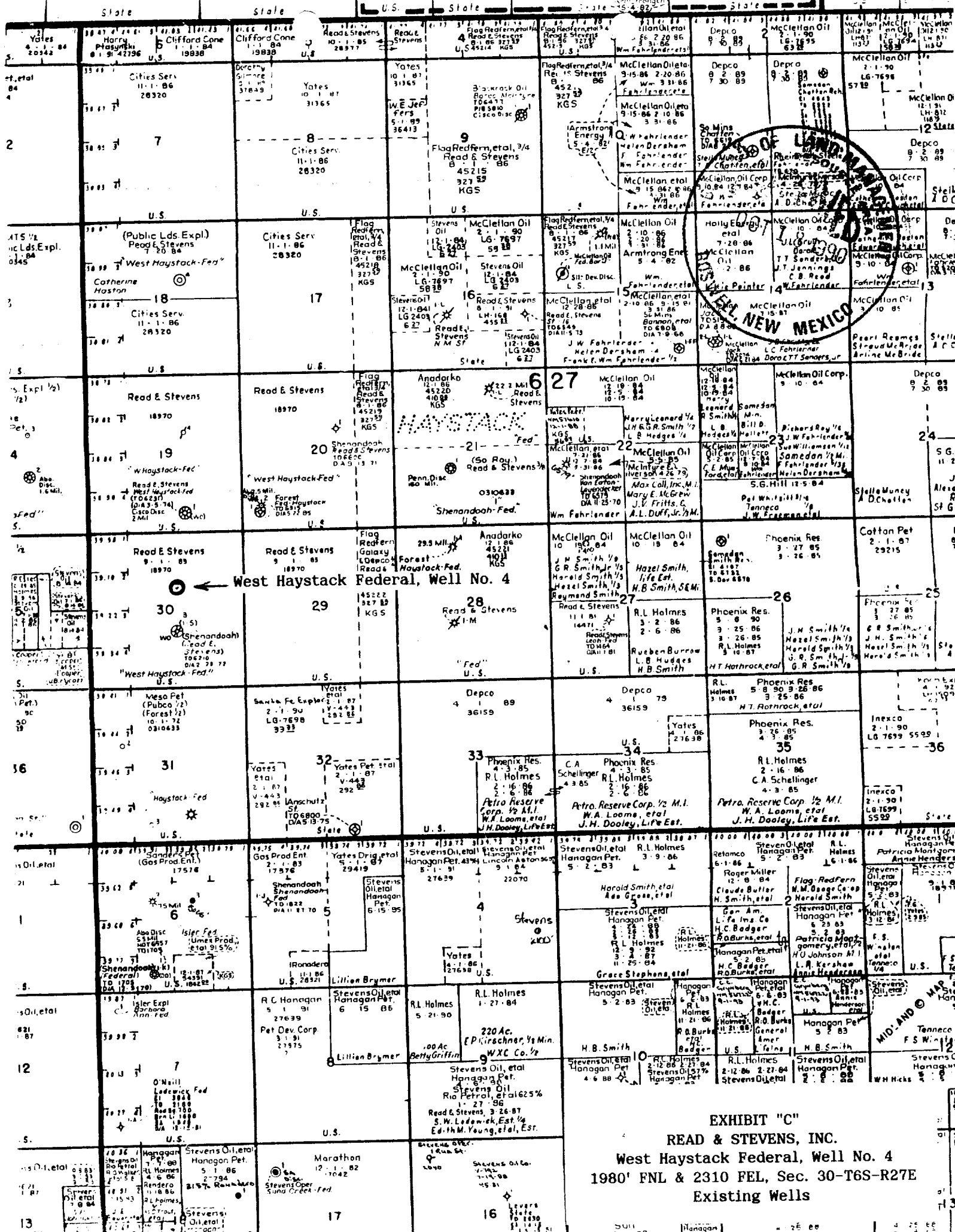


EXHIBIT "C"  
READ & STEVENS, INC.  
West Haystack Federal, Well No. 4  
1980' FNL & 2310 FEL, Sec. 30-T6S-R27E  
Existing Wells

WEK DRILLING COMPANY, INC.  
 PLAT RIG #1  
 LOCATION & PIT SPECS.

07/20/89

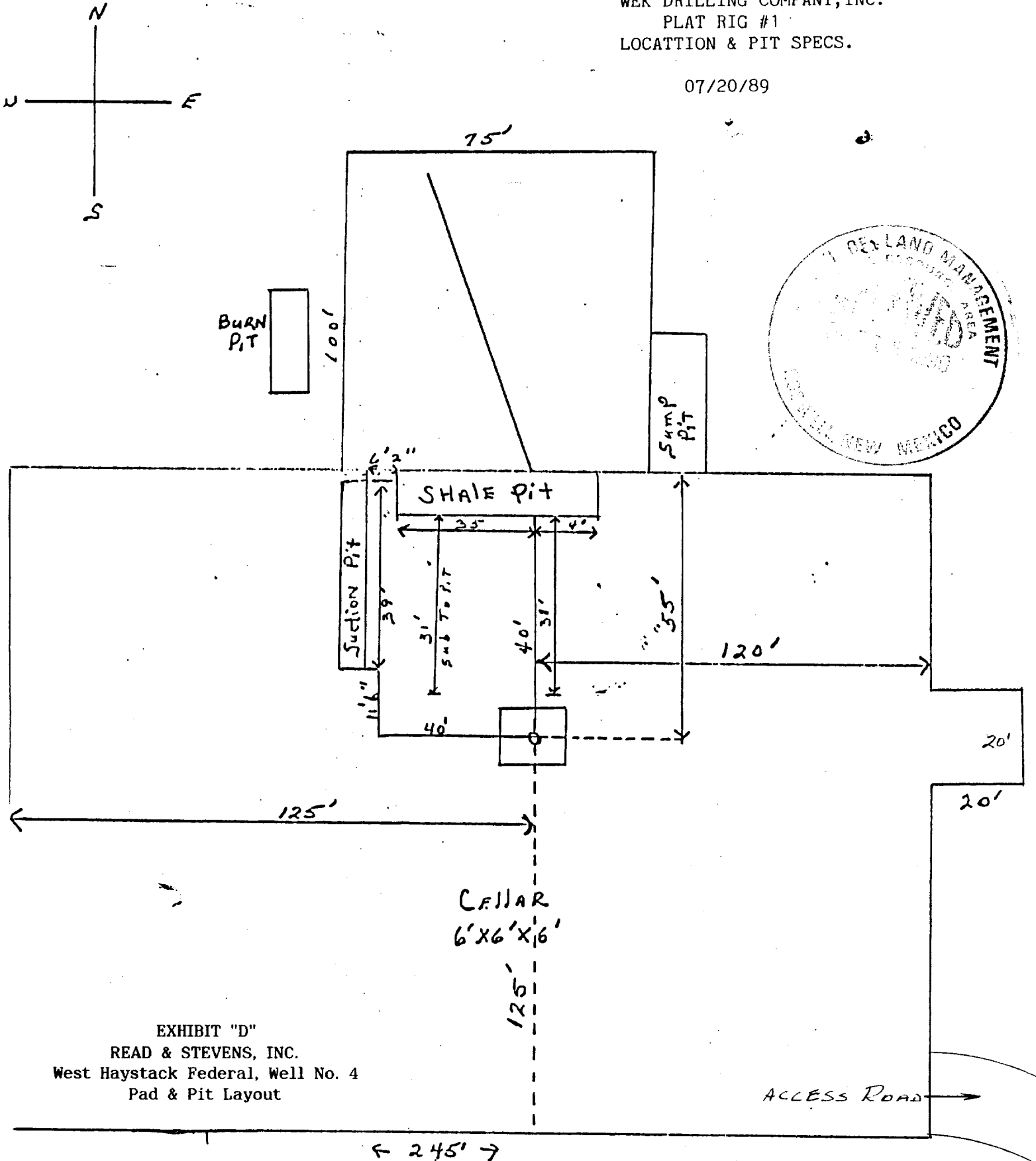


EXHIBIT "D"  
 READ & STEVENS, INC.  
 West Haystack Federal, Well No. 4  
 Pad & Pit Layout



KEN REYNOLDS—PRESIDENT  
ARNIE NEWKIRK—VICE-PRESIDENT

DRILLING CO., INC. — OIL WELL DRILLING CONTRACTORS

P. O. BOX 1498 ROSWELL, NEW MEXICO 88202-1498  
505/623-5070 505/746-2719  
ROSWELL, NM ARTEBIA, NM

## RIG #3

### BLOWOUT PREVENTOR ARRANGEMENT

2M SYSTEM

10" SHAFFER TYPE "E", 3000 psi WP

80 GALLON, 4 STATION KOOMEY ACCUMULATOR

3000 psi WP CHOKE MANIFOLD

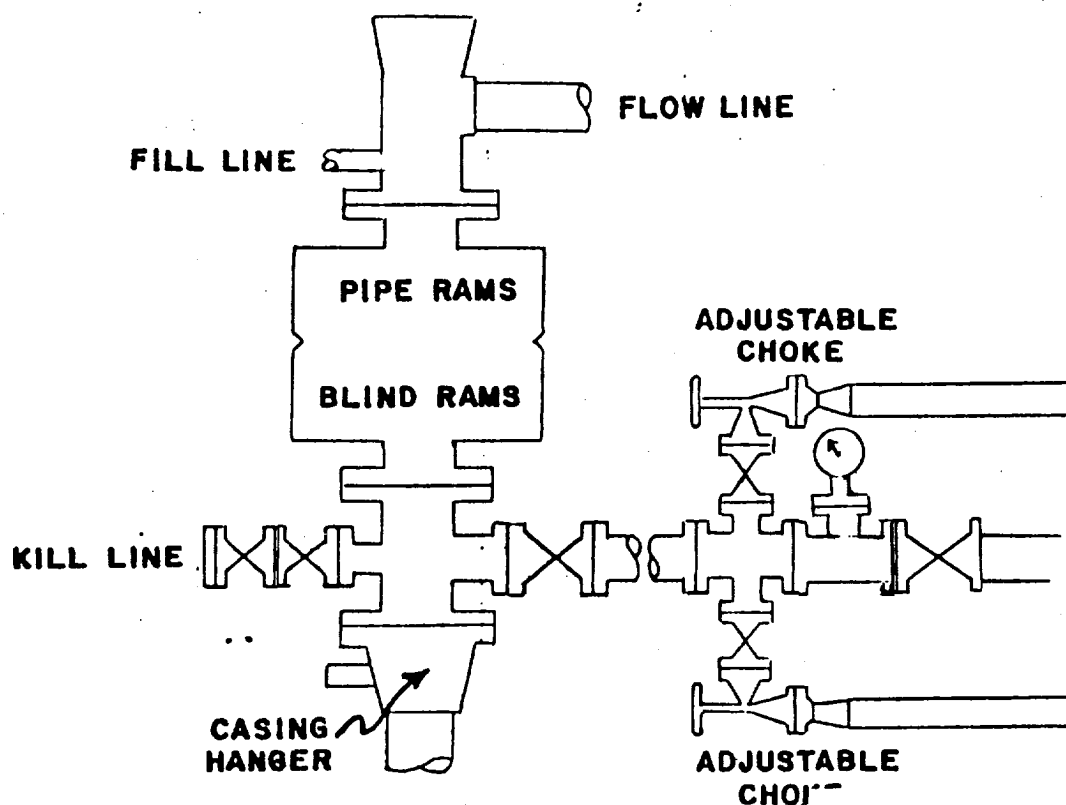


EXHIBIT "E"  
READ & STEVENS, INC.  
West Haystack Federal, Well No. 4  
BOP Specifications