

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

Texaco Producing Inc.

3. ADDRESS OF OPERATOR

P.O. Box 730, Hobbs, NM 88240

(505) 393-7191

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

At surface

Unit Letter H, 1980' FNL & 660' FEL

At proposed prod. zone

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

37 Miles WNW of Jal, NM

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.

(Also to nearest drig. unit line, if any)

660'

16. NO. OF ACRES IN LEASE

200

17. NO. OF ACRES ASSIGNED
TO THIS WELL

40

18. DISTANCE FROM PROPOSED LOCATION*

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

19. PROPOSED DEPTH

12,720'

20. ROTARY OR CABLE TOOLS

Rotary

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

3601' GL

22. APPROX. DATE WORK WILL START*

Immediately

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"	NA	625'	700 sx - Cmt Cir.
12-1/4"	10-3/4"	51,45,40	4650'	1200 sx - Cmt Cir.
9-1/2"	7-5/8"	33.7,37.9	12,720'	3050 sx - Cmt Cir.

Proposed Plug Back:

Bone Springs (8713-9183') Present Producing
Brushy Canyon (7234-7452') Proposed Internal

Procedure Attached.

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 Johnson

TITLE

Engr. Asst.

DATE

10/22/90

(This space for Federal or State office use)

PERMIT NO.

Orig. Signed by *John Johnson*

APPROVAL DATE

John Johnson

APPROVED BY

TITLE

DATE

10 26 90

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

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OCT 21 10 13 AM '90
CATTLE
AREAS
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SECTION

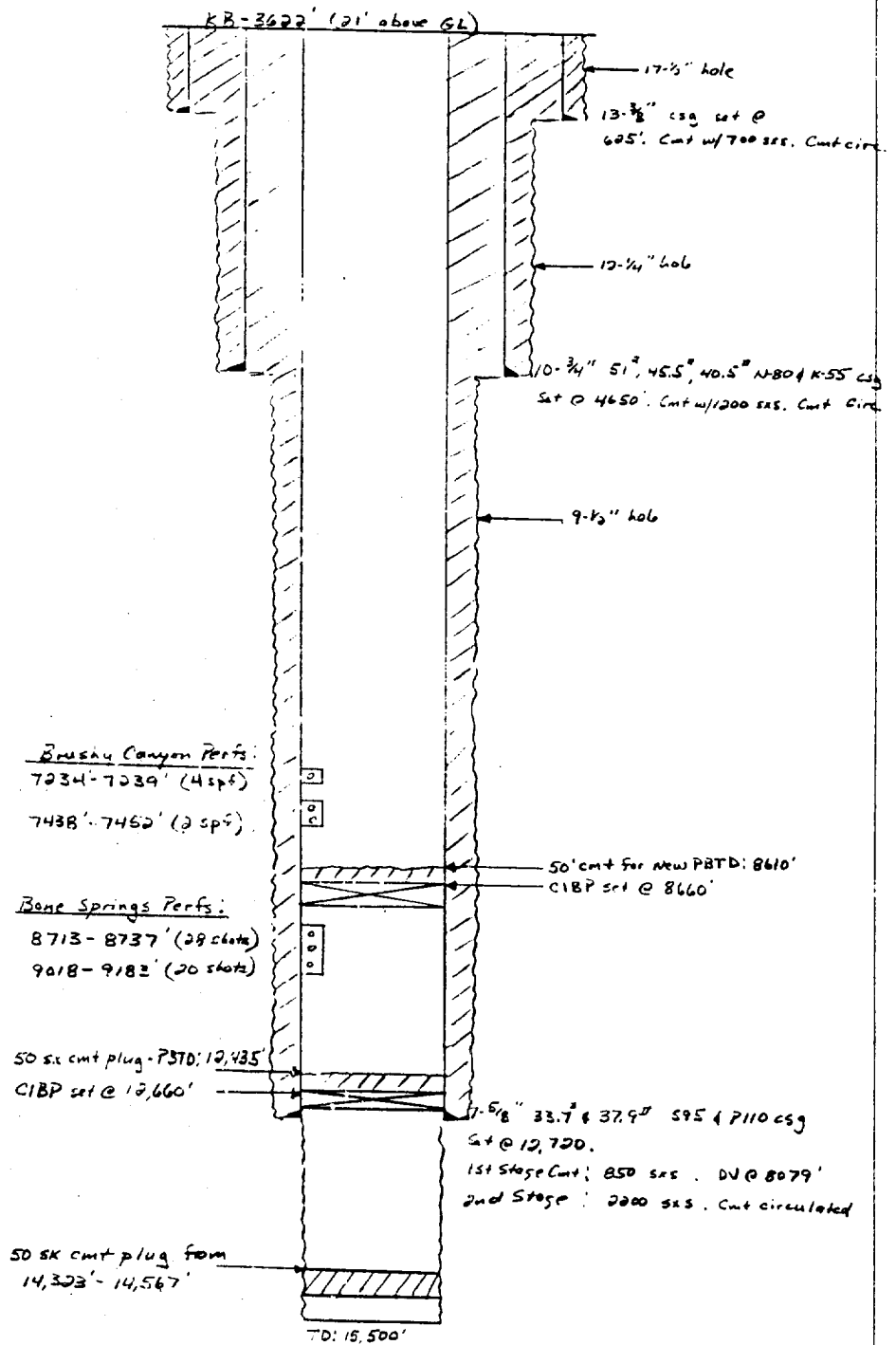
FEDERAL SAND 18 WELL NO. 1
WORKOVER PROCEDURE

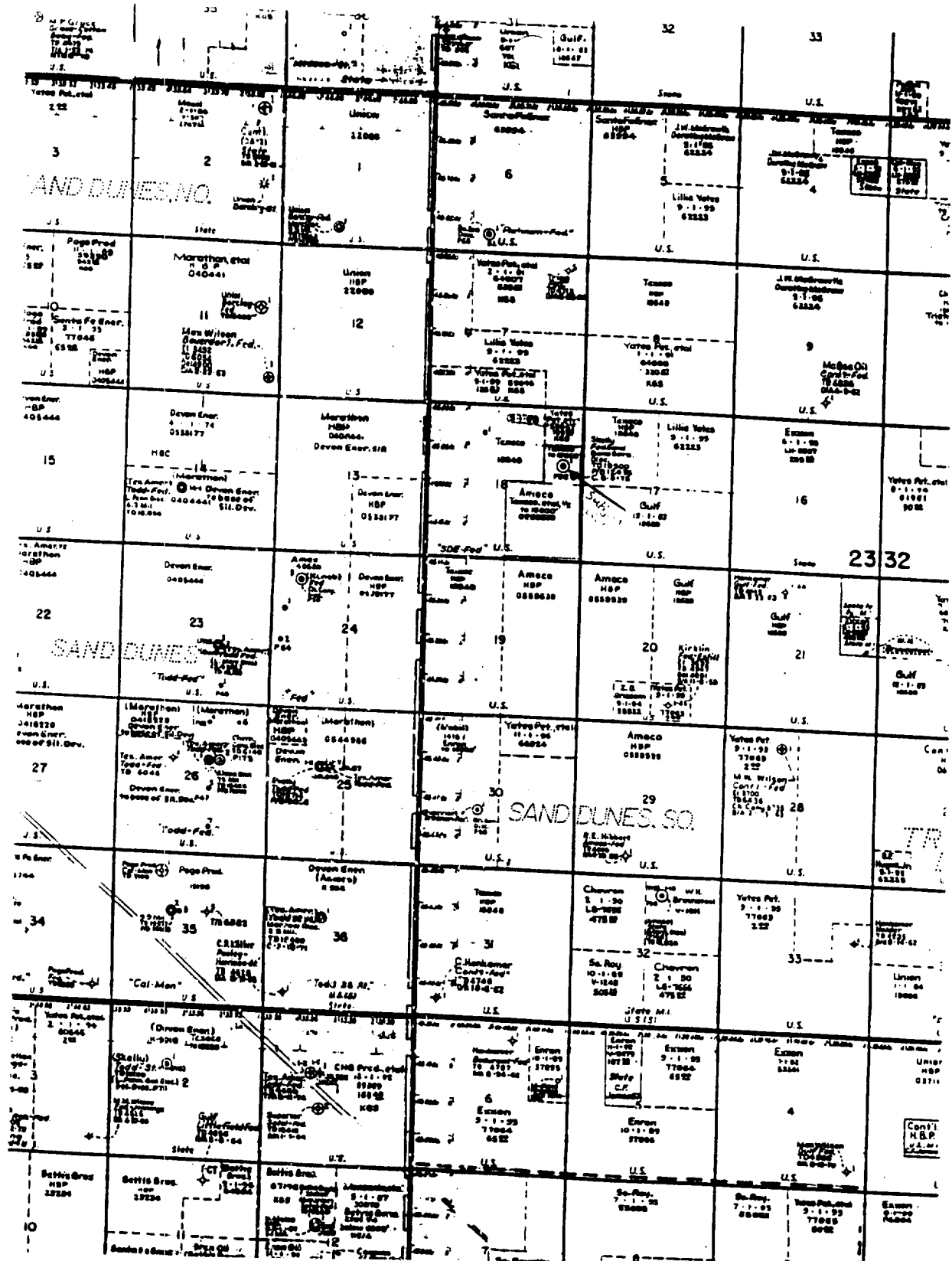
1. MIRU pulling unit. TOH w/rods and pump. Install BOP. TOH w/tbg.
2. TIH w/7-5/8" CIBP and set at 8660'. Dump 50' cmt on top for new PBD = 8610'. TOH w/tbg.
3. TIH w/7-5/8" treating pkr on 3-1/2" 9.3# N-80 WS.
4. Circulate 2% KCl water and spot 50 gallons 10% acetic acid across perforation interval (approx 7455'-7430'). Set pkr at approx 7300'. Load tbg w/water. Pressure test CIBP and csg to 2500 psi surface pressure. Release pkr and TOH w/tbg.
5. RU wireline. TIH w/GR-CCL and log from PBD (8610') to 7000'.
6. RU lubricator w/packoff and TIH w/4" csg gun w/120 deg (spiral) phasing and perforate the following Brushy Canyon interval w/2 JSPF: 7438'-7452' (29 holes). TOH w/gun.
7. TIH w/pkr and 3-1/2" WS. Hydrotest tbg to 6000 psi while TIH.
8. Set pkr at approx 7300. Load backside.
9. Acidize perms 7438'-7452' w/1500 gallons 15% NEFE w/45 ball sealers. Flush to bottm perf w/71 bbls 2% KCl water. Swab back load. Check for shows.
10. Fracture perms 7438'-7452' w/35# cross-linked 2% KCl gel carrying 12/20 Brady sand at an average rate of 25 BPM, an estimated treating pressure of 2500 psi (max not to exceed 6000 psi) using the following pump schedule:
 - A. 8000 gallons pad
 - B. 500 gallons w/2 ppg sand
 - C. 1000 gallons w/3 ppg sand
 - D. 1500 gallons w/4 ppg sand
 - E. 2000 gallons w/5 ppg sand
 - F. 2500 gallons w/6 ppg sand
 - G. 3000 gallons w/7 ppg sand
 - H. 3500 gallons w/8 ppg sand
 - J. Flush short of tcp perf (approx 66 bbls)Total of 22,000 gallons and 84,000 # 12/20 Brady
11. Flow back/Swab. Check for shows.
12. Release pkr. Check for fill. C/O fill and test.
13. TIH w/RBP and pkr on WS. Set RBP at approx 7350'. Dump 10' sand on top. Spot 50 gallons 10% acetic across perforation interval (approx 7240'-7210'). Set pkr at 7100'. Load tbg

w/water. Test RBP and csg to 2500 psi surface pressure.
Release pkr and TOH w/WS and pkr.

14. RU wireline w/lubricator and packoff. TIH w/4" csg gun w/120 deg (spiral) phasing and perforate the following Brushy Canyon interval w/4 JS2F: 7234'-7239' (21 holes). TOH w/gun.
15. TIH w/pkr and 3-1/2" WS. Hydrotest tbg to 6000 psi while TIH.
16. Set pkr at 7100'. Load backside.
17. Acidize perfs 7234'-7239' w/1000 gallons 15% NEFE w/32 ball sealers. Flush to bottom perf w/70 bbls 2% KCl water. Swab back load. Check for shows.
18. Fracture perfs 7234'-7239' w/35# cross-linked 2% KCl gel carrying 12/20 Brady sand at an average injection rate of 25 BPM, an estimated surface treating pressure of 2500 psi (max not to exceed 6000 psi) using the following pump schedule:
 - A. 8000 gallons of pad
 - B. 500 gallons w/2 ppg sand
 - C. 1000 gallons w/3 ppg sand
 - D. 1500 gallons w/4 ppg sand
 - E. 2000 gallons w/5 ppg sand
 - F. 2500 gallons w/6 ppg sand
 - G. 3000 gallons w/7 ppg sand
 - H. 3500 gallons w/8 ppg sand
 - I. Flush short of top perf (approx 64 bbls)Total of 22,000 gallons and 84,000# 12/20 Brady.
19. Flow back/swab. Check for shows.
20. Release pkr. TOH w/tbg. TIH w/retrieving tool on tbg. Wash over sand. Retrieve RBP and TOH w/tbg and RBP.
21. TIH w/production equipment and test.

at Sand 18 well No. 1
 Unit H, Sec 18, T-23S, R-32E
 Lea County, New Mexico





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OCT 29 1990

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