

Expires December 31, 1991

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTRECEIVED
BLM

reverse side)

5. LEASE DESIGNATION AND SERIAL NO

NMNM 10758

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Salty Dog SWD

24806

9. WELL NO.

1

10. FIELD AND POOL OR WILDCAT

Blanco Mesa Verde

11. SEC., T., R., M., OR BLK.
AND SURVEY OR AREA

Sec. 1, T29N, R15W

12. COUNTY OR PARISH

San Juan

13. STATE

NM

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐

1b. TYPE OF WELL

OIL
WELL ☐GAS
WELL ☐OTHER ☒SINGLE
ZONE ☐MULTIPLE
ZONE ☒

2. NAME OF OPERATOR

Richardson Operating Company

3. ADDRESS OF OPERATOR

c/o Walsh Engineering 7415 E. Main St., Farmington, NM 87402 (505) 327-4892

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

At Surface 1200'FNL and 1380'FEL

At proposed Prod. Zone

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

1 mile north of Kirtland

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

1200'

16. NO. OF ACRES IN LEASE

OIL CON. DIV.
1008.32
DIST. 3

17. NO. OF ACRES ASSIGNED TO THIS WELL

320

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

145'

19. PROPOSED DEPTH

3420'

20. ROTARY OR CABLE TOOLS

Rotary

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

5291' GR

22. APPROX. DATE WORK WILL START*

July 15, 1999

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT/FOOT	SETTING DEPTH	QUANTITY OF CEMENT
9-7/8"	8-5/8"	24#	200'	50 cu.ft. CI "B"
6-3/4"	5-1/2"	15.5#	3420'	382 cu.ft. w/ 2% metasilicate

THIS WELL IS TO BE DRILLED TO THE
proposed road w/ proposed to 45' OFF 0105.3
and appeal pursuant to 45 CFR 1165.4.

118 cu.ft. CI "B"

Richardson Operating Company proposes to drill a vertical well to the Mesa Verde formation and complete it as a salt water disposal well at the above described location in accordance with the attached drilling and surface use plan

This location has been archaeologically surveyed by La Plata Archaeological Consultants. Copies of their report have submitted directly to your office.

This APD also is serving as an application to obtain BLM road and pipeline right-of-ways. This well will be accessed by an existing road which crosses the NW/NE, NE/NE, and SE/NE of section 1, T29N, R15W where it joins County Road 6500. This location is inside the Western Gas Processors Plant.

Note: The Notice of Staking for this location was filed as the Pittman Pond SWD #1.

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

Paul C. Thompson

TITLE Agent

DATE

6/22/99

(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:

Team Lead, Petroleum Management

APPROVED BY

/S/ Duane W. Spencer

TITLE

DATE

AUG - 3 1999

*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.

SWD-753 @

District I
(N) Box 1980, Hobbs, NM 88241-1980
District II
(N) Drawer DD, Artesia, NM 88211-0719
District III
1000 Kin Brazos Rd., Aztec, NM 87410
District IV
(N) Box 2008, Santa Fe, NM 87504-2008

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form C-102
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

99 JUN 29 AM 8:02

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-045-29946		Pool Code 72319	Pool Name Baamco Mesa Verde
Property Code 24806	Property Name Salty Dog SWD		Well Number 1
GRID No. 019219	Operator Name RICHARDSON OPERATING COMPANY		Elevation 5291'

10 Surface Location

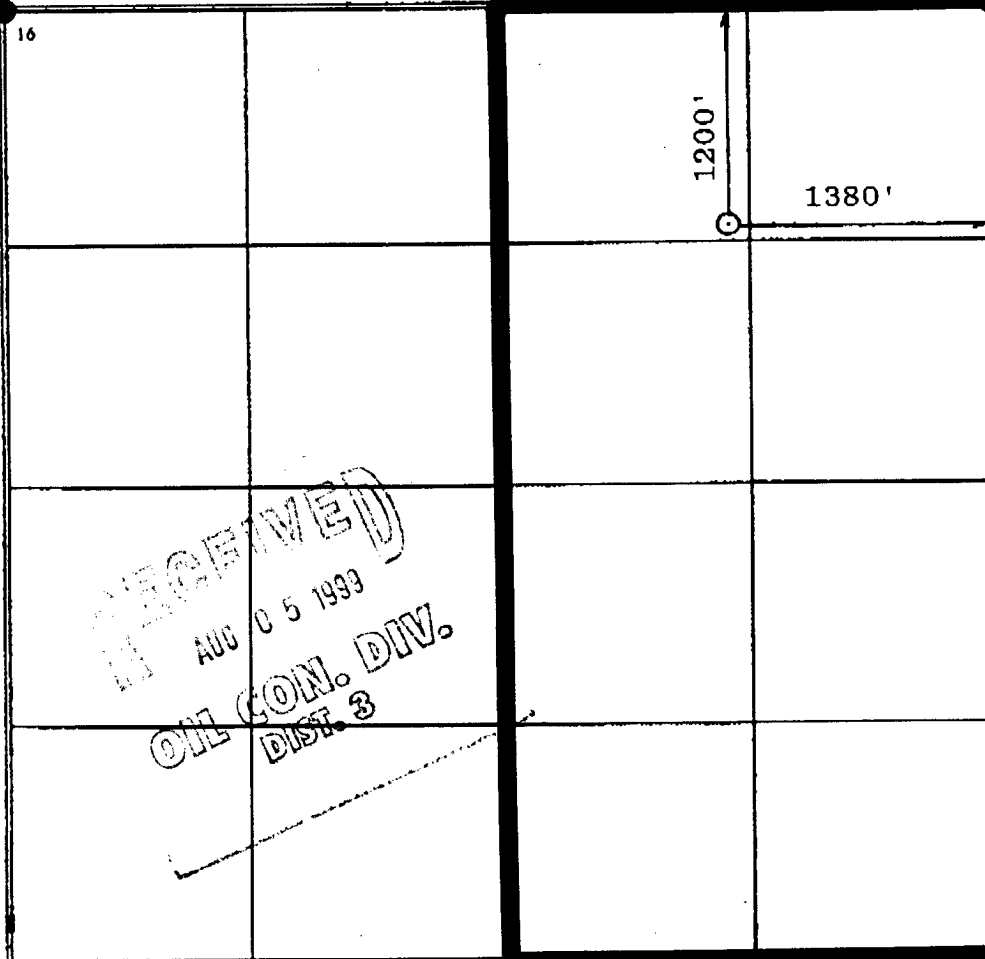
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	1	29 N	15 W		1200	North	1380	East	San Juan

11 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 320	Joint or Infill Y	Consolidation Code	Order No.
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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



17 OPERATOR CERTIFICATION

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

Signature
Paul C. Thompson
Printed Name
Agent
Title
6/28/99
Date

18 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 belief

Date of Survey
Signature and Seal of Professional Surveyor

Certificate Number

**RICHARDSON OPERATING COMPANY
OPERATIONS PLAN
SALTY DOG SWD #1**

I. Location: 1200' FNL & 1380' FEL Date: June 18, 1999
 Sec 1 T29N R15W
 San Juan County, NM

Field: Blanco Mesa Verde Elev: GL 5291'
Surface: Fee (Richardson)
Minerals: NMNM 10758

II. Geology: Surface formation _ Fruitland

<u>A. Formation Tops</u>	<u>Depths</u>
Pictured Cliffs	571'
Lewis	712'
Cliff House	2023'
Menefee	2207'
Point Lookout	3121'
Total Depth	3420'

Estimated depths of anticipated water, oil, gas, and other mineral bearing formations which are expected to be encountered:

Water and gas - 571'; water - 2023' and 3121'.

B. Logging Program: Induction/GR and density logs at TD.

C. The maximum expected bottom hole pressure is 350 psi. This pressure will contained as specified in III B. and C. below. No over pressured zones are expected in this well. No H₂S zones will be penetrated in this well.

III. Drilling

A. Contractor: L & B Speed Drill

B. Mud Program:

The surface hole will be drilled with a fresh water mud.

The production hole will be drilled with a fresh water polymer mud. The weighting material will be drill solids or if conditions dictate, barite. The maximum mud weight expected is 8.7 ppg.

C. Minimum Blowout Control Specifications:

Double ram type or annular type 2000 psi working pressure BOP with a rotating head. See the attached exhibits (#1 through #3) for details on the BOP equipment. All ram type preventers and related equipment will be hydraulically tested at nipple-up and after any use under pressure to 1000 psi.

C. Cont.

The blind rams will be hydraulically activated and checked for operational readiness each time pipe is pulled out of the hole. All checks of the BOP stack and equipment will be noted on the daily drilling report. The BOP equipment will include a kelly cock, floor safety valve, and choke manifold all rated to 2000 psi.

IV. Materials

A. Casing Program:

Hole Size	Depth	Casing Size	Wt. & Grade
9-7/8"	200'	8-5/8"	24# J-55
6-3/4"	3420'	5-1/2"	15.5# K-55

B. Float Equipment:

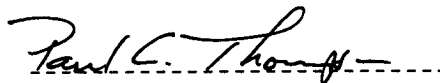
a) Surface Casing: None

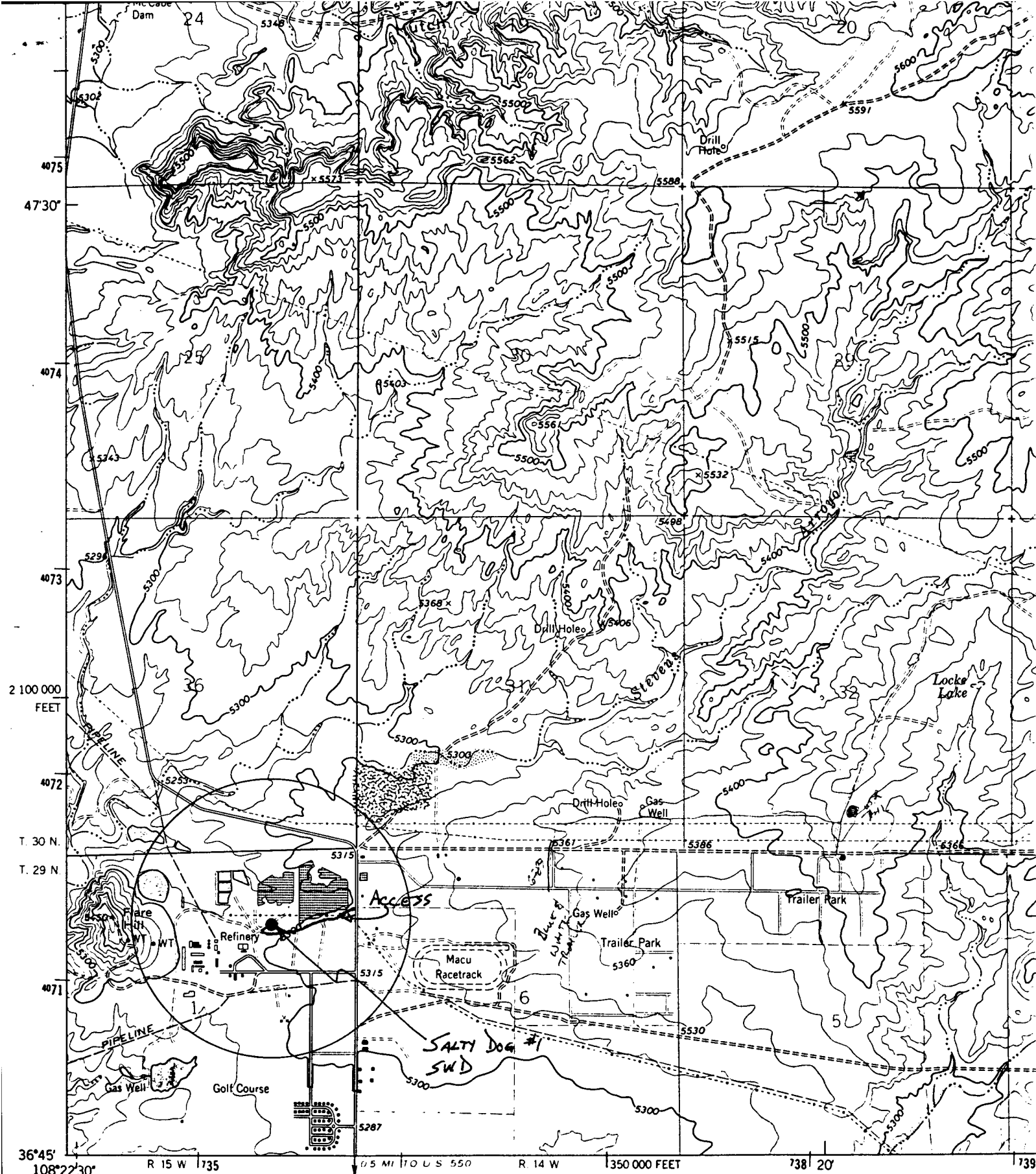
b) Production Casing: 5-1/2" cement guide shoe and self fill insert float collar. Place float one joint above shoe. Five centralizers spaced every other joint above shoe and five turbolizers every other joint from the top of the well.

V. Cementing:

Surface casing: 8-5/8" - Use 43 sx (50 cu. ft.) of Cl "B" with 2% CaCl₂ (Yield = 1.18 cu. ft./sk; slurry weight = 15.6 PPG). 100% excess to circulate cement to surface. WOC 12 hours. Pressure test surface casing to 600 psi for 30 min.

Production Casing: 5-1/2" - Before cementing circulate hole with at least 1-1/2 hole volumes of mud. Precede cement with 30 bbls of fresh water. Lead with 185 sx (382 cu.ft) of Cl "B" with 2% metasilicate. (Yield = 2.06 cu.ft./sk; slurry weight = 12.5 PPG). Tail with 100 sx (118 cu.ft.) of Cl "B" with 2% CaCl₂ (Yield = 1.18 cu. ft./sk; slurry weight = 15.6 PPG) Total cement volume is 500 cu.ft. (75% excess to circulate cement to surface).


Paul C. Thompson, P.E.



Mapped, edited, and published by the
Control by USGS, NOS/NOAA, and U. S. Bureau of
Topography by photogrammetric methods from aerial
photographs taken 1958 and 1962. Field checked

Polyconic projection. 1927 North American Datum
10,000-foot grid based on New Mexico coordinate
1000-meter Universal Transverse Mercator grid tick
zone 12, shown in blue

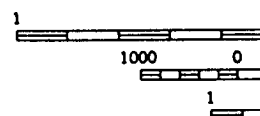
Fine red dashed lines indicate selected fence lines

PLAT #1

RICHARDSON OPERATING COMPANY

Salty Dog SWD

1200'FNL & 1380'FEL, Sec. 1, T29N, R15W
San Juan County, NM



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir. Use APPLICATION FOR PERMIT-" for such proposals

09 SEP 1999 11:17:48

070 111 11 11 11, R1

5. Lease Designation and Serial No.
NMNM -10758

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE

7. If Unit or CA, Agreement Designation

1. Type of Well
☐ Oil Well ☐ Gas Well ☒ Other

8. Well Name and No.
Salty Dog SWD #1

2. Name of Operator
Richardson Operating Company

9. API Well No.
30-045-29946

3. Address and Telephone No. C/O Walsh Engineering & Production Corp.
7415 East Main, Farmington, NM 87402 505-327-4892

10. Field and Pool, or Exploratory Area
Mesa Verde

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1200' FNL & 1380' FEL, Sec. 1, T29N, R15W

11. County or Parish, State
San Juan, NM.

CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

TYPE OF ACTION

☒ Notice of Intent

☒ Subsequent Report

☐ Final Abandonment

☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☒ Altering Casing
☐ Other see below

☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water
(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. 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.)*

Please note the following change to the surface casing:

200' of 8-5/8" to 200' ^{to} 7-5/8", 26.4#, ST&C. Received verbal approval from E. Becher on 9/2/99.

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

Signed John C. Thompson (John C. Thompson) Title Agent/Engineer Date 09/07/99

(This space for Federal or State office use)

Approved by [Signature] Title Date SEP 10 1999
Conditions of approval, if any:

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.

*See Instruction on Reverse Side