

**FILE NOTATIONS**

Entered in NID File ..... ✓  
 Location Map Pinned ..... ✓  
 Card Indexed ..... ✓

Checked by Chief .....  
 Approval Letter .....  
 Disapproval Letter .....

**COMPLETION DATA:**

Date Well Completed 4/10/78

Location Inspected ....

OW..... WW..... TA.....

Bond released

GW..... OS..... PA. ✓

State or Fee Land .....

**LOGS FILED**

Driller's Log. ✓

Electric logs (No.) ✓

E..... I..... Dual I Lat..... GR-N..... Micro.....

BHC Sonic GR..... Lat..... MI-L..... Sonic.....

CBLog..... CCLog..... Others.....



HOUSTON OIL & MINERALS CORPORATION

7

February 28, 1978



Mr. Pat Driscoll  
Division of Oil, Gas & Mining  
1588 West, North Temple  
Salt Lake City, Utah 84116

Re: Drilling Permit  
Waldemar 43-7  
Section 7, T34S, R25E  
San Juan County, Utah

Dear Mr. Driscoll:

Attached are drilling permits for the above well and to follow under separate cover are the survey plats which are being prepared by Uintah Engineering (Vernal, Utah). The survey is being conducted now and the plats should be in your office by Friday, March 3.

I will call you on Monday, March 6 and discuss this with you. Due to an available rig at this time (Brinkerhoff #70), it is requested that we have as early an approval as possible.

Thank you, and let me know if there are any problems.

Respectfully yours,

HOUSTON OIL & MINERALS CORPORATION

Ronald D. Scott  
Division Drilling Engineer

RDS/gs  
enclosures

OK C-3  
No other  
wells in township  
bond filed

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

5. Lease Designation and Serial No.

Fee

6. If Indian, Allottee or Tribe Name

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

7. Unit Agreement Name

-

8. Farm or Lease Name

Waldemar ✓

9. Well No.

#43-7 ✓

10. Field and Pool, or Wildcat

Wildcat

11. Sec., T., R., M., or Blk. and Survey or Area

Sec. 7-T34S-R25E

12. County or Parrish 13. State

San Juan

Utah

3. Address of Operator

1700 Broadway, Suite 504, Denver, Colorado 80290

4. Location of Well (Report location clearly and in accordance with any State requirements.)\*

At surface

1980' FSL and 660' FEL of Section 7, T34S-R25E ✓

At proposed prod. zone

same

*see*

14. Distance in miles and direction from nearest town or post office\*

8 miles SE of Monticello, Utah

15. Distance from proposed\* location to nearest property or lease line, ft. (Also to nearest drlg. line, if any)

660'

16. No. of acres in lease

160

17. No. of acres assigned to this well

160 ✓

18. Distance from proposed location\* to nearest well, drilling, completed, or applied for, on this lease, ft.

N/A

19. Proposed depth

3000'

20. Rotary or cable tools

Rotary ✓

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

See plat (under separate cover)

22. Approx. date work will start\*

3/7/78

23. PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
12 1/2"	8-5/8"	24.0	500'	500 sx. ✓
7-7/8"	4-1/2"	10.5	3000'	300 sx. ✓

Subject well to be drilled with conventional methods, utilizing a water or low solids fresh water mud from surface to TD. A surface string of 8-5/8" casing will be set and cemented all the way to surface, to prevent any possible contamination of shallow aquifers. Purpose of the subject well will be to test the Shinarump formation at + 2700' and complete and stimulate as dictated by well conditions.

*303-861  
7942*

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 Ronald D. Scott Title Division Drilling Engineer Date 2-28-78

(This space for Federal or State office use)

Permit No. 43-037-30431 Approval Date

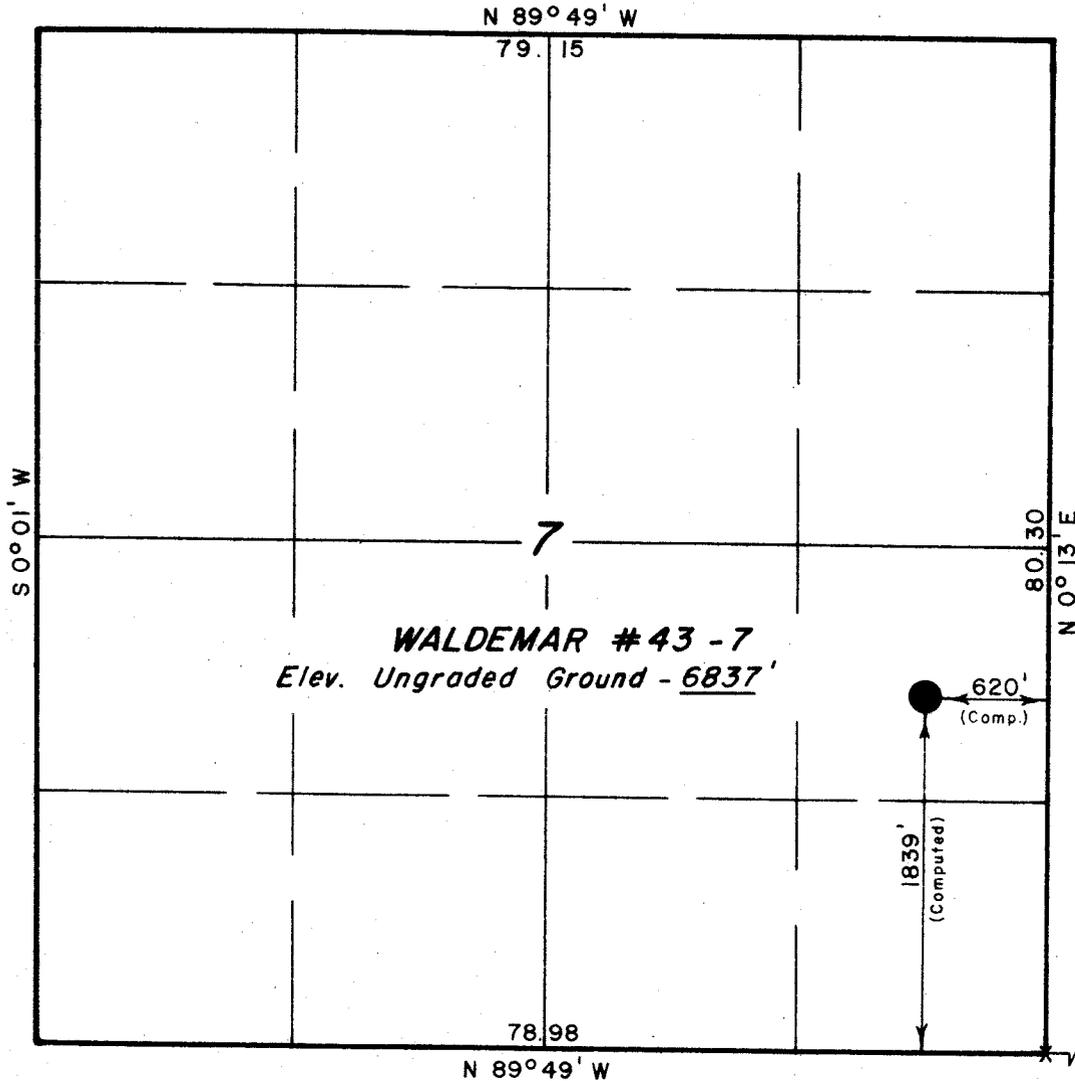
Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_  
Conditions of approval, if any:

PROJECT

**HOUSTON OIL & MINERALS**

**T 34 S, R 25 E, S.L.B. & M.**

Well location, **WALDEMAR #43-7**, located as shown in the NE 1/4 SE 1/4 Section 7, T 34 S, R 25 E, S.L.B. & M. San Juan County, Utah.



**WALDEMAR #43-7**  
Elev. Ungraded Ground - 6837'

X = Section Corners Located

SOUTH 1/4 CORNER OF SECTION 8



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

*John H. [Signature]*

REGISTERED LAND SURVEYOR  
REGISTRATION NO 2454  
STATE OF UTAH

**UINTAH ENGINEERING & LAND SURVEYING**  
P. O. BOX Q - 110 EAST - FIRST SOUTH  
VERNAL, UTAH - 84078

SCALE 1" = 1000'	DATE 3/1/78
PARTY RK JB DJ	REFERENCES GLO Plat
WEATHER Cool	FILE HOUSTON OIL

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

\*\* FILE NOTATIONS \*\*

Date: March 7.  
Operator: Houston Oil & Mineral  
Well No: Waldemar #43-7  
Location: Sec. 7 T. 34S R. 25E County: San Juan

File Prepared:  Entered on N.I.D.:   
Card Indexed:  Completion Sheet:

API NUMBER: 43-037-30431

CHECKED BY:

Administrative Assistant [Signature]  
Remarks: Verbal - Prod - 3/3/78  
Petroleum Engineer [Signature]  
Remarks:  
Director 7  
Remarks:

INCLUDE WITHIN APPROVAL LETTER:

Bond Required:  Survey Plat Required:   
Order No.  Surface Casing Change   
to \_\_\_\_\_

Rule C-3(c), Topographic exception/company owns or controls acreage  
within a 660' radius of proposed site

O.K. Rule C-3  O.K. In \_\_\_\_\_ Unit

Other:

~~Letter Written/Approved~~

March 7, 1978

Houston Oil & Minerals Corp.  
1700 Broadway  
Suite 504  
Denver, Colorado 80290

Re: Well No. Waldemar #43-7  
Sec. 7, T. 34 S, R. 25 E,  
San Juan County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to well is hereby granted in accordance with Rule C-3, General Rules and Regulations.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

PATRICK L. DRISCOLL - Chief Petroleum Engineer  
HOME: 582-7247  
OFFICE: 533-5771

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-037-30431.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

CLEON B. FEIGHT  
Director

CIRCULATE TO:

DIRECTOR .....   
PETROLEUM ENGINEER .....   
MINE COORDINATOR .....   
ADMINISTRATIVE ASSISTANT .....   
ALL .....

RETURN TO *Larry Aila* FOR FILING

March 27, 1978

Memo To File:

Re: Houston Oil & Minerals Corp.  
Waldemar 43-7  
Sec. 7, T. 34S, R. 25E,  
San Juan County, Utah

This office was notified that the above well was spudded in on March 23, 1978.

Brinkerhoff Drilling Company is the Drilling contractor and Rig #70 is on location.



PATRICK L. DRISCOLL  
CHIEF PETROLEUM ENGINEER

PLD/ka

7

April 10, 1978

MEMO TO FILE:

Re: Houston Oil & Minerals  
Well No. Waldemar 43-7  
NE SE Sec. 7, T. 34S., R. 25E.  
San Juan County, Utah

Houston Oil & Minerals requested permission to plug and abandon this well. At the time they called, they had not run logs, so a plugging program was outlined based upon geological tops and not on depth. Houston was to call back if after logging, the plugging program needed modification.



PATRICK L. DRISCOLL  
CHIEF PETROLEUM ENGINEER  
DIVISION OF OIL, GAS, & MINING



HOUSTON OIL & MINERALS CORPORATION

April 18, 1978

State of Utah  
Division of Oil, Gas & Mining  
1588 West North Temple  
Salt Lake City, Utah 84116  
Attention: Mr. Pat Driscoll

Re: Waldemar 43-7  
NE/SE Sec. 7-T34S-R25E  
San Juan County, Utah

Gentlemen:

Enclosed please find the following: Well Completion or Recompletion Report and Log (original and one copy); Sundry Notice Subsequent Report of Abandonment (original and two copies); and Report of Water Encountered During Drilling (original and three copies) for the subject well.

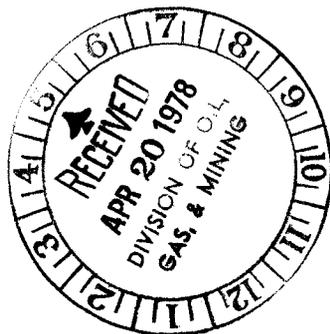
If there are any questions or further requirements, please advise.

Respectfully submitted,

HOUSTON OIL & MINERALS CORPORATION

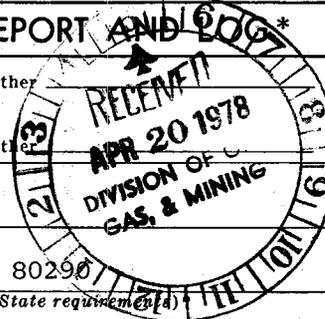
*Gail A. Souder*  
Gail A. Souder  
Drilling Secretary

GS  
enclosures



STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING

WELL COMPLETION OR RECOMPLETION REPORT AND LOG\*



5. LEASE DESIGNATION AND SERIAL NO. Fee
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME Waldemar
9. WELL NO. 43-7
10. FIELD AND POOL, OR WILDCAT Wildcat
11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Sec 7-34S-25E

1a. TYPE OF WELL: OIL WELL [ ] GAS WELL [ ] DRY [X] Other [ ]
b. TYPE OF COMPLETION: NEW WELL [ ] WORK OVER [ ] DEEP-EN [ ] PLUG BACK [ ] DIFF. RESVR. [ ]
2. NAME OF OPERATOR Houston Oil & Minerals Corporation
3. ADDRESS OF OPERATOR 1700 Broadway, Ste. 504, Denver, Colorado 80290
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements) At surface 1839' FSL and 620' FEL of Sec. 7-34S-25E
At top prod. interval reported below Same
At total depth Same

14. PERMIT NO. API 43-037-30431 DATE ISSUED 3-7-78
15. DATE SPUDDED 3-23-78 16. DATE T.D. REACHED 4-9-78 17. DATE COMPL. (Ready to prod.) N/A 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\* 6837' GR 19. ELEV. CASINGHEAD 6838'
20. TOTAL DEPTH, MD & TVD 2800' 21. PLUG, BACK T.D., MD & TVD P&A 22. IF MULTIPLE COMPL., HOW MANY\* N/A 23. INTERVALS DRILLED BY [ ] ROTARY TOOLS [X] CABLE TOOLS [ ]
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\* N/A 25. WAS DIRECTIONAL SURVEY MADE NO
26. TYPE ELECTRIC AND OTHER LOGS RUN DIL/LL8, FDC/CNL 27. WAS WELL CORED NO

Table with 6 columns: CASING SIZE, WEIGHT, LB./FT., DEPTH SET (MD), HOLE SIZE, CEMENTING RECORD, AMOUNT PULLED. Row 1: 8 5/8", 24.0, 438', 12 1/4", 300 sx Class "B", none.

Table with 8 columns: SIZE, TOP (MD), BOTTOM (MD), SACKS CEMENT\*, SCREEN (MD), SIZE, DEPTH SET (MD), PACKER SET (MD). Row 1: N/A, [ ], [ ], [ ], [ ], N/A, [ ], [ ].

Table with 3 columns: PERFORATION RECORD (Interval, size and number), ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC., DEPTH INTERVAL (MD), AMOUNT AND KIND OF MATERIAL USED. Includes data for plugs and acid treatments.

Table with 8 columns: DATE FIRST PRODUCTION, PRODUCTION METHOD, WELL STATUS, DATE OF TEST, HOURS TESTED, CHOKER SIZE, PROD'N. FOR TEST PERIOD, OIL-BBL., GAS-MCF., WATER-BBL., GAS-OIL RATIO.

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) TEST WITNESSED BY

35. LIST OF ATTACHMENTS Logs sent under separate cover.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records. SIGNED: Ronald D. Scott, TITLE: Division Drilling Engineer, DATE: 4-18-78

\*(See Instructions and Spaces for Additional Data on Reverse Side)

# INSTRUCTIONS

**General:** This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

**Item 4:** If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

**Item 18:** Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

**Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

**Item 29: "Sacks Cement":** Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

**Item 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

**37. SUMMARY OF POROUS ZONES:**

SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Mancos/Dakota	Surface		
Morrison	Cased Off		
Summerville	750		
Entrada	1082	1240	
Carmel	1240	1280	
Navajo	1280	1652	
Kayenta	1652	1830	
Wingate	1830	2084	
Chinle	2084	2655	
Shinarump	2655	2748	
Moenkopi	2748	--	
			DST #1 2652'-2664
			IH 1311 PSI
			IF 30 min 25-25 PSI
			ISI 120 min 499 PSI
			FH 1311 PSI

**38.**

**GEOLOGIC MARKERS**

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH

Recovered 5' Drilling Mud  
MFE 2500 cc Mud

**CIRCULATE TO:**

- DIRECTOR \_\_\_\_\_
- PETROLEUM ENGINEER \_\_\_\_\_
- MINE COORDINATOR \_\_\_\_\_
- ADMINISTRATIVE ASSISTANT \_\_\_\_\_
- ALL \_\_\_\_\_

RETURN TO Kathy Avila FOR FILING

Mike   
Jim  JWS

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING  
1588 West North Temple  
Salt Lake City, Utah 84116



REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name and Number Waldemar #43-7

Operator Houston Oil & Minerals Corporation

Address 1700 Broadway, Ste. 504, Denver, Colorado 80290

Contractor Brinkerhoff Drilling Company

Address 600 Denver Club Bldg., Denver, Colorado 80202

Location NE 1/4, SE 1/4, Sec. 7; T. 34 N; R. 25 E; San Juan County  
S W

Water Sands:

From-	Depth:	To-	Volume:	Quality:
			Flow Rate or Head-	Fresh or salty-

1. \_\_\_\_\_ NONE ENCOUNTERED \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_

(continue on reverse side if necessary)

Formation Tops:

- NOTE:**
- (a) Upon diminishing supply of forms, please inform this office.
  - (b) Report on this form as provided for in Rule C-20, General Rules And Regulations and Rules of Practice and Procedure.
  - (c) If a water quality analysis has been made of the above reported zone, please forward a copy along with this form.

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

**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. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER P&A		5. LEASE DESIGNATION AND SERIAL NO. Fee
2. NAME OF OPERATOR Houston Oil & Minerals, Corporation		6. IF INDIAN, ALLOTTEE OR TRIBE NAME —
3. ADDRESS OF OPERATOR 1700 Broadway, Ste. 504, Denver, Colorado 80290		7. UNIT AGREEMENT NAME —
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface  1839' FSL and 620' FEL of Sec. 7-34S-25E		8. FARM OR LEASE NAME Waldemar
14. PERMIT NO. API 43-037-30431		9. WELL NO. 43-7
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6837' GR		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec 7-34S-25E
		12. COUNTY OR PARISH San Juan
		13. STATE Utah

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) <input type="checkbox"/>	

(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.)\*

Received P&A orders from State O & G Commission 4-10-78 and plugged as follows:

- #1: 1600'-1700' 35 sx. Class "B"
- #2: 388'-488' 50 sx. Class "B"
- #3: 0 -30' 15 sx. Class "B"

Each cement plug was displaced through drill pipe with 9.0#/gal mud and hole stood full after each plug was displaced. Steel plate welded on top of 8 5/8" casing (8 5/8" casing remaining in well: 438').



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

SIGNED Ronald D. Scott TITLE Division Drilling Engineer DATE 4-18-78

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY: