

FILE NOTATIONS

Entered in NID File ..✓.....

Location Map Pinned✓.....

Card Indexed✓.....

Checked by Chief

Approval Letter

Disapproval Letter

COMPLETION DATA:

Date Well Completed 12/6/78

..... W..... TA.....

CW..... OS..... PA.✓.....

Location Inspected

Land released

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.....

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

5. Lease Designation and Serial No.

APPLICATION FOR PERMIT TO DRILL DEEPEN, OR PLUG BACK

1a. Type of Work
 DRILL PLUG BACK

b. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
 Tiger Oil Company

3. Address of Operator
 5 Greenway Plaza East, Suite 1500, Houston, Texas 77046

4. Location of Well (Report location clearly and in accordance with any State requirements.)*
 At surface 758' FNL & 485' FEL* *ne ne*
 At proposed prod. zone Same

6. If Indian, Allottee or Tribe Name

7. Unit Agreement Name

8. Farm or Lease Name
 Jack Curtis ✓

9. Well No.
 41-15 ✓

10. Field and Pool, or Wildcat
 Wildcat ✓

11. Sec., T., R., M., or Blk. and Survey or Area
 Sec. 15, T18S, R7E ✓

14. Distance in miles and direction from nearest town or post office*
 4 miles West of Orangeville, Utah

12. County or Parrish 13. State
 Emery Utah

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drlg. line, if any)
 485'*

16. No. of acres in lease
 208.54 ✓

17. No. of acres assigned to this well
 320

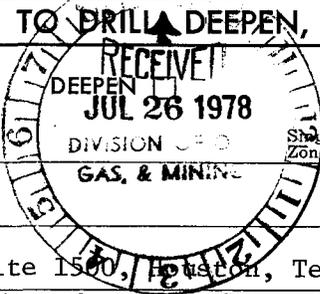
18. Distance from proposed location* to nearest well, drilling, completed, or applied for, on this lease, ft.
 None

19. Proposed depth
 12,500' *miss.*

20. Rotary or cable tools
 Rotary

21. Elevations (Show whether DF, RT, GR, etc.)
 GR 6,023'

22. Approx. date work will start*
 July 28, 1978



23. PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
17½"	13-3/8"	54.5	1,000	± 1,200 sacks <i>dk</i>

- Drill a 17½" hole to 1000'
- Set 13-3/8" casing @ 1000' and circ. cement to surface
- Drill 12¼" hole to approx. 6000' and then will reduce hole size to 8-3/4" from 6000' to TD. Should severe lost returns occur above 6000', a string of 9-5/8" casing will be set for protection.
- BOP's below the 13-3/8" casing will be 2 - 12" x 900 series ram type and a 12" x 900 series Hydril w/remote controls for all

- * 1) Location was staked 485' FEL and not the required 500' due to severe topographical incline.
- 2) Tiger Oil Company has the acreage immediately to the east by a Farm-in from Texaco; therefore, qualify for the 600' radius ruling.

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 E. H. White Assistant Chief Engineer Date 7/24/78

(This space for Federal or State office use)

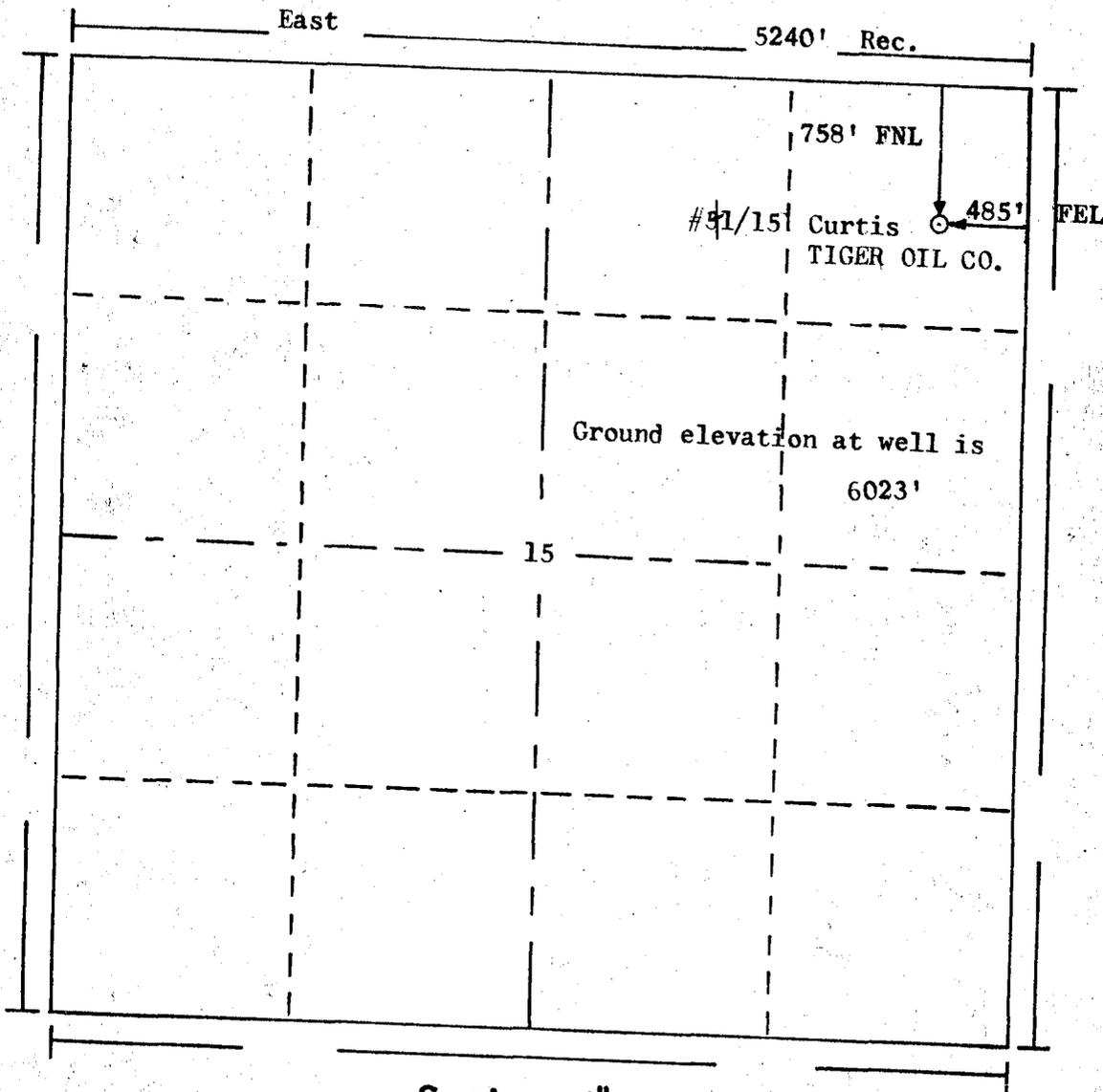
Permit No. 43-015-30059 Approval Date

Approved by _____ Title _____ Date _____

Conditions of approval, if any:



R. 7 E



T. 18 S

North
5280'
Rec.

Scale... 1" = 1000'

Powers Elevation Company, Inc. of Denver, Colorado
 has in accordance with a request from Harvey
 for Tiger Oil Company
 determined the location of #1 Curtis
 to be 485' FEL & 758' FNL
 Range 7 E of the Salt Lake Base and Section 15 Township 18 S
 Emery County, Utah Meridian Utah

I hereby certify that this plat is an
 accurate representation of a correct
 survey showing the location of
 #1 Curtis

Date: 7/3/78

J. Nelson
 Licensed Land Surveyor No. LS 2711
 State of Utah

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

NE NE
Mississippi

** FILE NOTATIONS **

Date: July 31

Operator: Tiger O. I. Co.

Well No: J. Cortes 41-15

Location: Sec. 15 T. 18S R. 7E County: Emery

File Prepared:
Card Indexed:

Entered on N.I.D.:
Completion Sheet:

API NUMBER: 43-015-30059

CHECKED BY:

Administrative Assistant [Signature]

Remarks:

Petroleum Engineer [Signature]

Remarks:

Topo. Exception O.K

Director _____

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

July 27, 1978

MEMO TO FILE:

Re: Tiger Oil Co.
J. Curtis 41-15
758 FNL 485 FEL
Sec. 15, T. 18S, R. 7E
Emery County, Utah

C.B. feight gave verbal permission on this date to Tiger Oil Co. to move in a rotary rig to drill an exploratory test. The paperwork is in the mail.

P.L. Driscoll notified Tiger Oil Co. at Houston that their state wide bond was inadequate, and they would have to resubmit in the amount of \$50,000.00.

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

August 1, 1978

Tiger Oil Company
Five Greenway Plaza East
Suite 1500
Houston, Texas 77046

Re: Well No. Jack Curtis 41-15
Sec. 15, T. 18 S, R. 7 E,
Emery 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(c), General Rules and Regulations and Rules of Practice and Procedure.

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-W, 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 43-015-30059.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

CLEON B. FEIGHT
Director



October 11, 1978

State of Utah
Division of Oil, Gas and Minerals
1588 West Temple
Salt Lake, Utah 84116

Attention: Ms. Kathy Avila



Sirs:

This letter is in reference to my telephone conversation this date with Ms. Avila and concerns the status of the following wells that we are drilling in Utah at the present time.

State #12-11
Sec. 11, T 24 S - R 20 E
Grand County, Utah

Tiger Oil #41-15 Jack Curtis
Sec. 15, T 18 S R 7 E
Emery County, Utah

- These wells are to be carried as tight until further notification to you by us.

Thank you for your cooperation in this matter. Should you have any questions, please call.

Very truly yours,

Philip W. Morrill

Philip W. Morrill

PWM/de

October 19, 1978

CONFIDENTIAL
MEMO TO FILE

Re: TIGER OIL COMPANY
Well No. Jack Curtis #41-15
Ne Ne Sec. 15
T. 18S, R. 7E
Emery County, Utah

This drilling site was visited on the above date. At the time of the visit, the total depth was at 7,651'. An intermediate string of 7 5/8" pipe had just been set at 7,640' and the driller was waiting on cement to set before drilling ahead.

Several minor deficiencies which had been noted on this Rig #21 during a prior safety inspection, have been satisfactorily completed. The rig is now considered to be in above average condition relative to safety aspects of its operation.


PATRICK L. DRISCOLL
CONSULTANT
DIVISION OF OIL, GAS, & MINING

PLD/IW

December 5, 1978

MEMO TO FILE

Re: TIGER DRILLING COMPANY
Well No. Jack Curtis 41-15
Sec. 15, T. 18S, R. 7E
Emery County, Utah

The following plugging information for the above well was given.
The pertinent data is:

12 1/4" set at 1050'.
9 5/8" intermediate string set at 7301' with expected cut of
the string at 5000'.
T.D. 11,500'

Pertinent geologic tops:

Mancos 1380'	Moenkope 8136'
Ferron 2880'	Sinbad 8805'
Lower Mancos 3120'	Kanab 9200'
Dakota 3282'	Toroweep 9345'
Cedar Mountain 3800'	Mississippian 10,200'
Morrison 4456'	Devonian 10,520'
Chinle 7831'	Cambrian 10,620'

The following plugs were set.

#1 10,550 - 10,450'
#2 10,200 - 10,100'
#3 8,950 - 8,850'
#4 100' at the top of the 9 5/8" at 5,000'
#5 3,350 - 3,250'
#6 1,100 - 1,000'
#7 50'-Surface

A regulation dry hole marker was erected.

PATRICK L. DRISCOLL
CONSULTANT

PLD/lw

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 Dry Hole		5. LEASE DESIGNATION AND SERIAL NO.
2. NAME OF OPERATOR Tiger Oil Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR Suite 1500, Five Greenway Plaza East, Houston, Texas 77046		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 758' FNL & 485' FEL		8. FARM OR LEASE NAME Jack Curtis
14. PERMIT NO. 43-015-30059	15. ELEVATIONS (Show whether DF, RT, GR, etc.) GR 6,023'	9. WELL NO. 41-15
		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 15, T18S, R7E
		12. COUNTY OR PARISH Emery
		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 checked="" type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input 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.)*

TD 11,500' KB

Received verbal approval 12/1/78 from Patrick L. Driscoll, Chief Petroleum Engineer, to plug and abandon as follows:

- 40 sacks - 10,150-10,250'
- 40 " - 8,755-8,855'
- 40 " - 7,250-7,350'
- 40 " - 5,400-5,500'
- 80 " - 3,830-3,730'
- 40 " - 2,920-2,865'
- Spotted 130 sack plug @ 885'
- 15 sacks - 30'-3' below ground level

2,026' of 9-5/8" casing left in hole.
13-3/8" surface casing set at 970' in Emery Sand.

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

SIGNED E. H. White TITLE Assistant Chief Engineer DATE 2/9/79

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

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

5. LEASE DESIGNATION AND SERIAL NO.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Jack Curtis

9. WELL NO.

41-15

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Sec. 15, T18S, R7E

12. COUNTY OR PARISH
Emery

13. STATE
Utah

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL GAS WELL DRY Other _____

b. TYPE OF COMPLETION: NEW WELL WORK OVER DEEP-EN PLUG BACK DIFF. RESVR. Other P & A

2. NAME OF OPERATOR

Tiger Oil Company

3. ADDRESS OF OPERATOR

Suite 1500, Five Greenway Plaza East, Houston, Texas 77046

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

At surface 758' FNL & 485' FEL

At top prod. interval reported below

At total depth

14. PERMIT NO. 43-015-30059 DATE ISSUED 8/1/78

15. DATE SPUNDED 8/1/78 16. DATE T.D. REACHED 11/30/78 17. DATE COMPL. (Ready to prod.) P & A 12/6/78 18. ELEVATIONS (DF, RKB, BT, GR, ETC.)* GR 6,023' 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 11,500' 21. PLUG, BACK T.D., MD & TVD 22. IF MULTIPLE COMPL., HOW MANY* 23. INTERVALS DRILLED BY → ROTARY TOOLS X CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* None 25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN Compensated Neutron-Formation Density, Temperature, Dual Induction-Laterolog, Cmt. Bond, Borehole Compensated Sonic 27. WAS WELL CORED Yes - Ferron

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	54-50	970'	17 1/2"	660 sx. HOWCO LW & 200 sx. Class "G"	None
9-5/8"	40-43.5	7,315'	12 1/4"	550 sx. Class "G"	5,289'

29. LINER RECORD				30. TUBING RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
		DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33.* PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in) <u>Producing</u>	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	

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

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED E. H. White TITLE Assistant Chief Engineer DATE 2/9/79

*(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 38, 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.), formations 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.	GEOLOGIC MARKERS			
				MEAS. DEPTH	TRUB VERT. DEPTH		
Ferron Sand	2,790'	3,040'	TIGHT INFORMATION DST 2915-2952'. Op. ½ hr. SI 1 hr. Op. 1 hr. SI 1 hr. Rec. 30' very slightly GCM. IFF 8 - FFP 28 - SIP 55	Mancos Ferron Sand L. Mancos Dakota Cedar Mtn. Buckhorn Morrison Summerville Curtis Entrada Carmel Mavajo Chinle Moenkopi Sinbad Ls. L. Moenkopi Kaibab Toroweap Mississippian Devonian Cambrian	1,306 2,790 3,040 3,610 3,695 4,240 4,375 4,620 5,052 5,260 6,020 6,900 7,830 8,140 8,810 8,950 9,910 9,330 9,900 11,160 ? 12,220	TOP	
Carmel	6,020	6,900'	Op. 1 ¼ hrs. SI 1 hr. Op. ¾ hr. SI 2 hrs. Rec. 90' drlg. mud w/very slight trace of oil flecks. IFF 26 - FFP 43 - SIP 426				
Sinbad	8,810'	8,950'	DST 8822-8954'. Op. 1 hr. SI ½ hr. Op. 2 hrs. SI 2 hrs. Rec. 100' slightly GCM & 180' highly GC & slightly OCM. IFF 92 - FFP 158 - SIP 343.				
Kaibab	9,190'	9,330'	DST 9202-9234'. Op. 1 hr. SI 1 hr. Op. 1 hr. SI 1 hr. Rec. 35' highly viscous clabbered mud. IFF 29 - FFP 29 - SIP 231				
Ferron Sand	2,790'	3,040'	Cored 2810-2860' - Siltstone, carbonaceous shale, limey sand & coal.				

38.

GEOLOGIC MARKERS

NAME	MEAS. DEPTH	TRUB VERT. DEPTH
Mancos	1,306	
Ferron Sand	2,790	
L. Mancos	3,040	
Dakota	3,610	
Cedar Mtn.	3,695	
Buckhorn	4,240	
Morrison	4,375	
Summerville	4,620	
Curtis	5,052	
Entrada	5,260	
Carmel	6,020	
Mavajo	6,900	
Chinle	7,830	
Moenkopi	8,140	
Sinbad Ls.	8,810	
L. Moenkopi	8,950	
Kaibab	9,910	
Toroweap	9,330	
Mississippian	9,900	
Devonian	11,160 ?	
Cambrian	12,220	

field

FILE IN QUADRUPPLICATE
FORM OGC-8-X

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 & Number: Jack Curtis 41-15
Operator: Tiger Oil Company Address: Suite 1500, Five Greenway Plaza East
Houston, Texas 77046
Contractor: Tiger Drilling Co., Inc. Address: Suite 1500, Five Greenway Plaza East
Houston, Texas 77046
Location NW 1/4 NW 1/4; Sec. 15 T. 18 S N, R. 7 E; Emery County.

Water Sands:

	<u>Depth:</u>	<u>Volume:</u>	<u>Quality:</u>
	From- To-	Flow Rate or Head	Fresh or Salty
1.	<u>No water encountered.</u>		
2.	<u></u>		
3.	<u></u>		
4.	<u></u>		
5.	<u></u>		

(Continue on Reverse Side if Necessary)

Formation Tops:

Remarks:

- 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 analysis has been made of the above reported zone, please forward a copy along with this form.



SCOTT M. MATHESON
Governor

OIL, GAS, AND MINING BOARD

GORDON E. HARMSTON
Executive Director,
NATURAL RESOURCES

STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL, GAS, AND MINING

1588 West North Temple
Salt Lake City, Utah 84116
(801) 533-5771

CHARLES R. HENDERSON
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Director

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THADIS W. BOX
CONSTANCE K. LUNDBERG
EDWARD T. BECK
E. STEELE McINTYRE

July 23, 1979

Tiger Oil Company
Suite 1500
Five Greenway Plaza East
Houston, Texas 77046

Re: Well No. Jack Curtis 41-15
Sec. 15, T. 18S, R. 7E
Emery County, Utah

Gentlemen:

According to our records, a "Well Completion Report" filed with this office 2-9-79, from the above referred to well, indicates the following electric logs were run:

Compensated Neutron-Formation Density, Temperature, Dual Induction Laterolog, Cmt. Bond, Borehole Compensated Sonic --

Rule C-5, General Rules and Regulations and Rules of Practice and Procedure, requires that a Well log shall be filed with the Commission together with a copy of the electric and radioactivity logs.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

Kathy Avila

KATHY AVILA
RECORDS CLERK