

8/22/74 - Plugged & abandoned

FILE NOTATIONS

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

Checked by Chief *P.W.B.*
Approval Letter *8-29-73*
Disapproval Letter

COMPLETION DATA:

Date Well Completed
..... WW..... TA.....
..... OS..... PA.....

Location Inspected
Bond 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.....

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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
 Chorney Oil Company

3. ADDRESS OF OPERATOR
 401 Lincoln Tower Building, Denver, Colorado 80203

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
 At surface
 NE NE Section 19-T12S-R15E SL PM (668' FEL & 417' FNL)
 At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 43.5 miles Myton, Utah -- Highway 40

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
 2560

16. NO. OF ACRES IN LEASE
 2560

17. NO. OF ACRES ASSIGNED TO THIS WELL
 40+

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
 6500'

19. PROPOSED DEPTH
 6500'

20. ROTARY OR CABLE TOOLS
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 7523 Ungraded Grd.

22. APPROX. DATE WORK WILL START*
 September 15, 1973

5. LEASE DESIGNATION AND SERIAL NO.
 Utah 7968

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
 Stone Cabin Unit II

8. FARM OR LEASE NAME
 Stone Cabin

9. WELL NO.
 4-A-19

10. FIELD AND POOL, OR WILDCAT
 Stone Cabin Unit II

11. SEC., T., R., M., OR B.LK. AND SURVEY OR AREA
 19-12S-15E SL PM

12. COUNTY OR PARISH
 Carbon

13. STATE
 Utah

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	9-5/8"	32.3#	500'	500+
7-7/8"	5-1/2"	15.5 - 17#	6500'	500+
	or 4-1/2"	10.5 - 11.6#		

Operator proposes to drill a 6500' test into the Mesaverde formation. All significant oil and gas shows will be drill stem tested or otherwise evaluated using electric logs and/or geological data. If economic production is encountered, a properly designed string of 4-1/2" or 5-1/2" casing will be run and cemented.

Adequate doublegate and Hydril BOPE will be installed and in operation from under surface casing. The BOPE will be of the 900 Series type; will be checked daily for mechanical operation, and will be pressure-tested to a minimum of 1000 psig for 30 minutes prior to drilling out.

Operator will mud up from under surface casing and will maintain mud weight adequate to control all formation pressures.

PLEASE KEEP IN CONFIDENCE

LOCATION PLAT IS ATTACHED, along with Development Plan for Surface Use.

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 Jim T. Boettz TITLE Vice President - Operations DATE 8-22-73

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

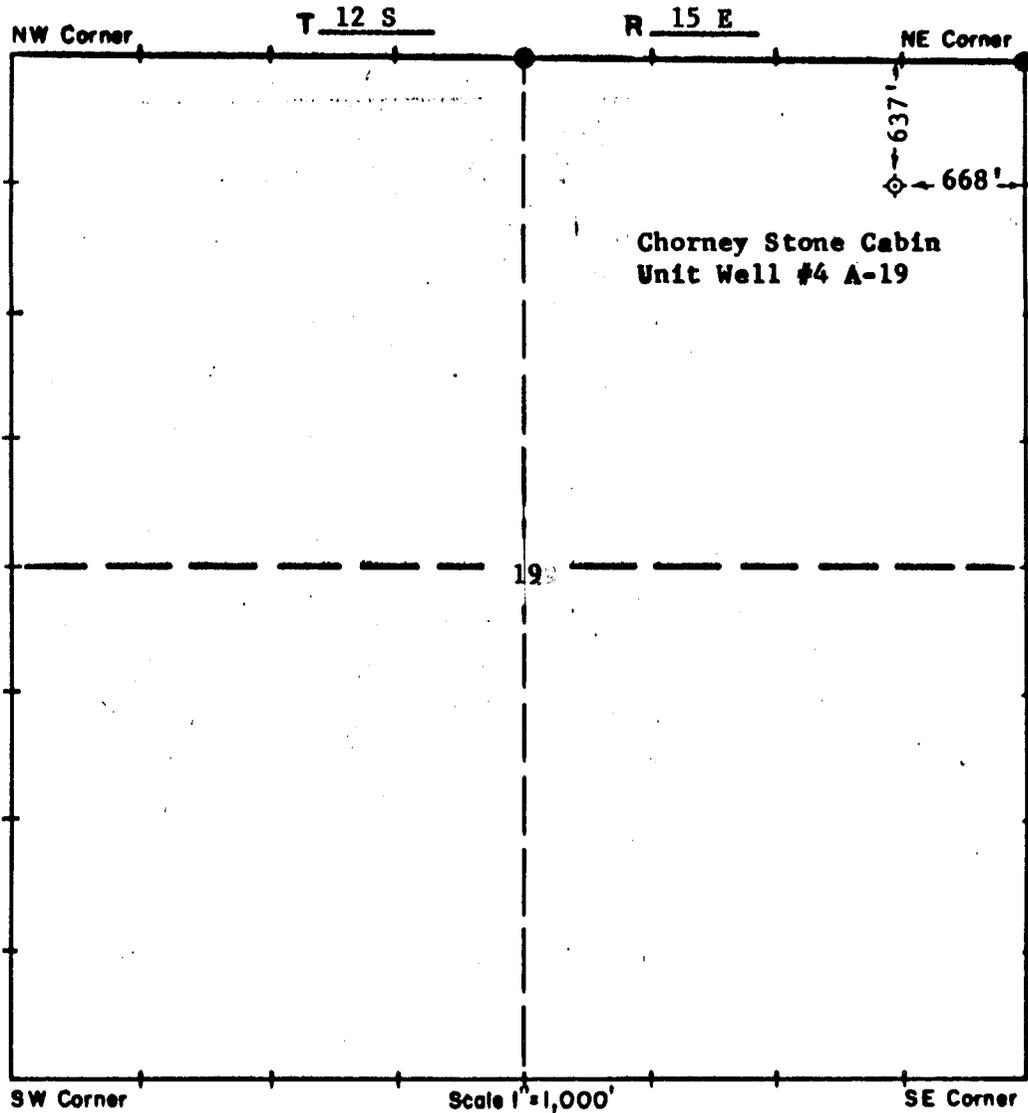
APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

BOX 654
GREEN RIVER WYOMING
82935

WILLIAM H. SMITH
SURVEYING CONSULTANT

TELEPHONE
AREA CODE 307
875-3638



● Found Brass Cap
■ Found Stone

I, William H. Smith of Green River, Wyoming certify that in accordance with a request from Sam Boltz of Denver, Colorado for Chorney Oil Company I made a survey on the 31st day of July, 1973 for Location and Elevation of the Chorney Stone Cabin Unit Well #4 A-19. As shown on the above map, the wellsite is in the NE/4 NE/4 of Section 19, Township 12 South, Range 15 East of the S.L.B.&M., Carbon County, State of Utah. Elevation is _____ Feet. Datum USGS Topo Elevation at NE Corner of Section 19.
Reference point North 20' #5 rebar and lath. Elevation at top rebar 7535.0'.
Reference point North 420' #5 rebar and lath. Elevation at top rebar 7513.2'.
Reference point _____
Reference point _____

William H. Smith
Utah R.L.S. NO. 2764

Ref: Job #87-73

REGISTERED

WYOMING • UTAH • IDAHO
NEVADA • NEW MEXICO • ARIZONA

WILLIAM H. SMITH

SURVEYING CONSULTANT
PHONE 307-875-3638

P.O. BOX 684

171 E. FLAMING GORGE WAY
GREEN RIVER, WYOMING 82935

August 1, 1973

Chorney Oil Company
1860 Lincoln Street
1140 Lincoln Tower Bldg.
Denver, Colorado 80203

Ref: Job #87-73

EXHIBIT "B"

Att: Sam Boltz

Dear Mr. Boltz;

This letter is in reference to the location of your Chorney-Stone Cabin Unit, Well #~~A-D-19~~ ^{no. 4A-19} which you requested to be located in the center of the NE/4 NE/4 of Section 19, T 12 S, R 15 E, S.L.B.&M., Carbon County, Utah.

This location would have required an excessive amount of dirt work in order to build a satisfactory location so I moved the location to the one shown on the survey plat which will have considerable less impact on the local enviroment.

Sincerely,



William H. Smith

WHS/ws

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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
 Chorney Oil Company

3. ADDRESS OF OPERATOR
 401 Lincoln Tower Bldg., Denver, Colorado 80203

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
 At surface
 NE NE Section 19-T12S-R15E, SLPM (668' FEL & 637' FNL)
 At proposed prod. zone
 Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 43.5 miles Myton, Utah - Highway 40

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
 2560

16. NO. OF ACRES IN LEASE
 2560

17. NO. OF ACRES ASSIGNED TO THIS WELL
 40+

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
 6500'

19. PROPOSED DEPTH
 6500'

20. ROTARY OR CABLE TOOLS
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 7523 Ungraded Grd.

22. APPROX. DATE WORK WILL START*
 September 15, 1973

5. LEASE DESIGNATION AND SERIAL NO.
 Utah 7968

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
 Stone Cabin Unit II

8. FARM OR LEASE NAME
 Stone Cabin

9. WELL NO.
 4-A-19

10. FIELD AND POOL, OR WILDCAT
 Stone Cabin Unit II

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 Sec 19-12S-15E, SLPM

12. COUNTY OR PARISH
 Carbon

13. STATE
 Utah

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	9-5/8"	32.3#	500'	500+
7-7/8"	5-1/2" or 4-1/2"	15.5 -17# 10.5 -11.6	6500'	500+

Operator proposes to drill a 6500' test into the Mesaverde formation. All significant oil and gas shows will be drill-stem tested or otherwise evaluated using electric logs and/or geological data. If economic production is encountered, a properly designed string of 4-1/2" or 5-1/2" casing will be run and cemented.

Adequate doublegate and Hydril BOPE will be installed and in operation from under surface casing. The BOPE will be of the 900 Series type; will be checked daily for mechanical operation, and will be pressure-tested to a minimum of 1000 psig for 30 minutes prior to drilling out.

Operator will mud up from under surface casing and will maintain mud weight adequate to control all formation pressures.

PLEASE KEEP IN CONFIDENCE

LOCATION PLAT IS ATTACHED, along with Development Plan for Surface Use.

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 Sam T. Boltz, Jr. TITLE Vice President-Operations DATE 9-12-73

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

DIVISION OF
OIL & GAS CONSERVATION

DATE 9-17-73

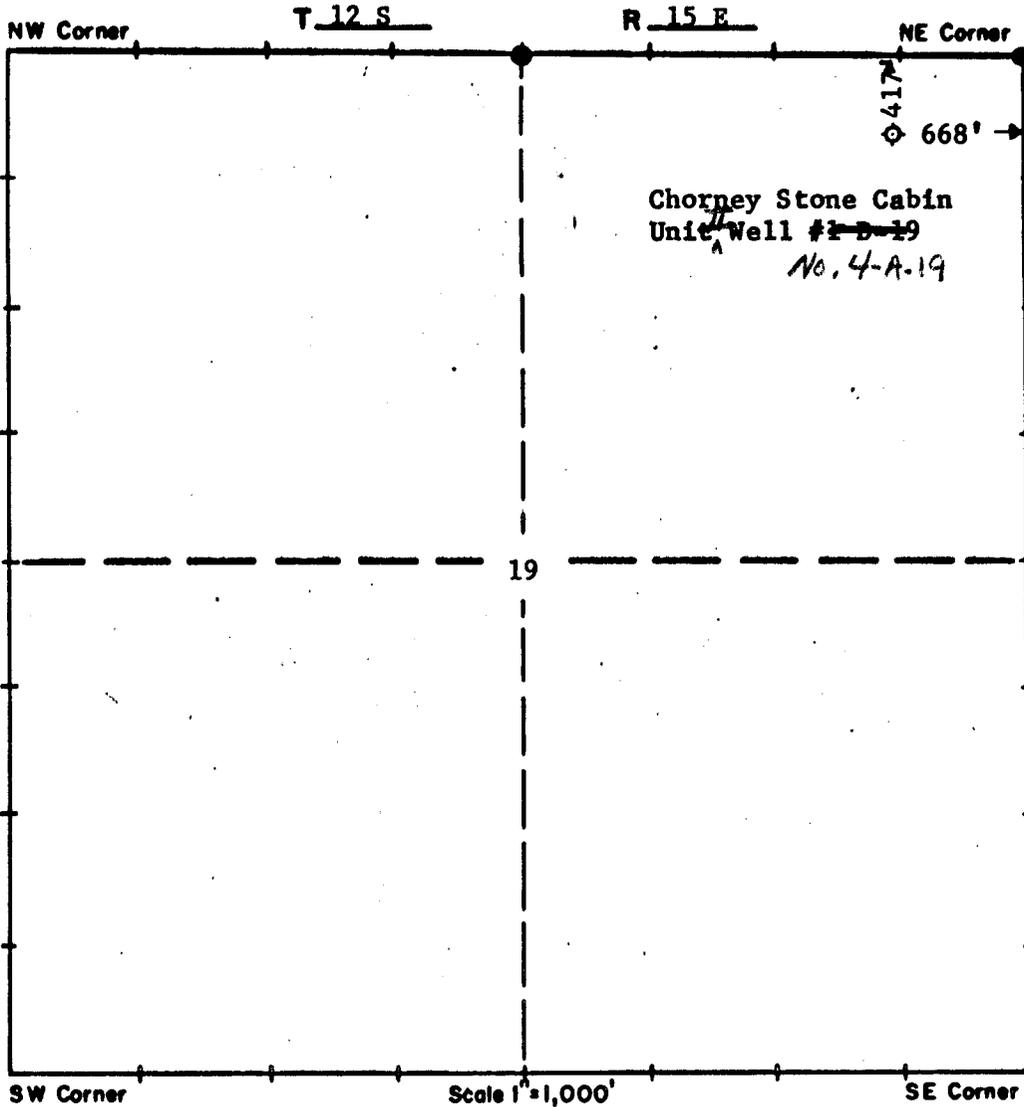
*See Instructions On Reverse Side

BY U.S. [Signature]

BOX 654
GREEN RIVER WYOMING
82935

WILLIAM H. SMITH
SURVEYING CONSULTANT

TELEPHONE
AREA CODE 307
875-3638



● Found Brass Cap
■ Found Stone

No. 4-A-19

I, William H. Smith of Green River, Wyoming certify that in accordance with a request from Sam Boltz of Denver, Colorado for Chorney Oil Company I made a survey on the 31st day of July, 1973 for Location and Elevation of the Chorney Stone Cabin Unit Well #1-B-19 As shown on the above map, the well site is in the NE/4 NE/4 of Section 19, Township 12 South, Range 15 East of the S.L.B.&M. Carbon County, State of Utah Elevation is 7523 Feet ungraded ground Datum USGS Topo Elevation at NE Corner of Section 19.

Reference point North 200' #5 rebar and lath. Elevation at top rebar 7513.2'
 Reference point South 200' #5 rebar and lath. Elevation at top rebar 7534.7'
 Reference point East 200' 10" spike nail & lath. Elevation @ top rebar 7516.8'
 Reference point West 200' #5 rebar and lath. Elevation at top rebar 7523.4'

William H. Smith
R.L.S. NO. 2764

PLAN OF DEVELOPMENT

TO: Glenn W. Freeman - Dist. Mgr.
Bureau of Land Management, 7th East
P. O. Box AB, Price, Utah 84501

WELL: Stone Cabin Unit II Well #4-A-19
Loc.: NE NE Sec. 19 T 12S R 15E
County Carbon State Utah

Mr. Gerald R. Daniels - USGS, 8416 Federal Bldg., 125 South State St., Salt Lake City, Utah

Our "Plan of Development" for surface use relative to drilling and production operations on the above well is as follows:

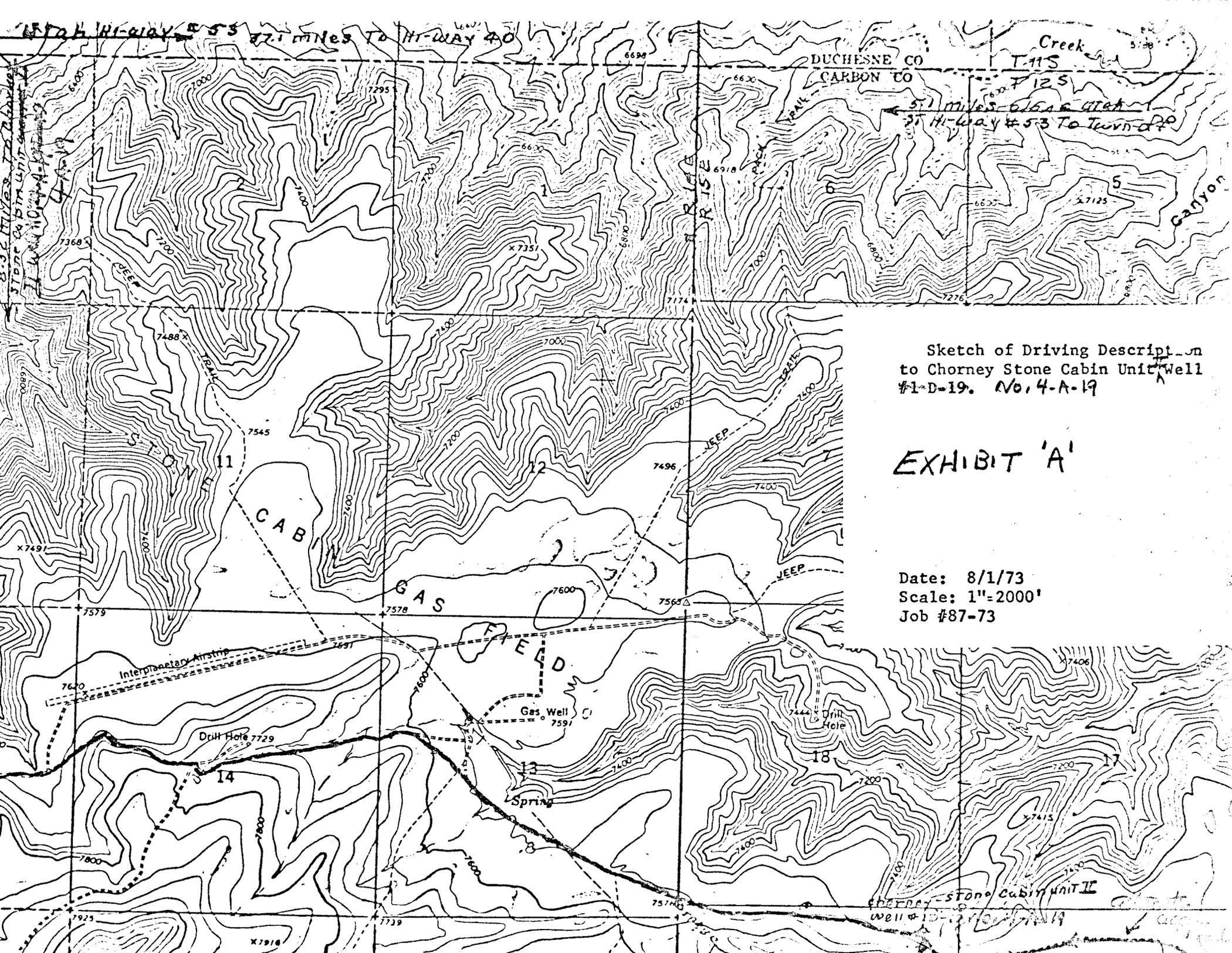
1. Existing roads, See Exhibit "A"
Distance to closest public road 8.32 miles to Utah Hiway No. 53.
2. Planned access roads, See Exhibit "A". Channels for existing run-off will be maintained.
3. Location of wells See Exhibit "A" & "C". Channels for existing run-off will be maintained. If necessary, because of fill material, channels will be constructed around location. See attached letter Exhibit "D".
4. Lateral roads to well locations, See Exhibit "A" and "C". Roads will be constructed in a manner not to block drainage crossings.
5. Location of tank batteries and flowlines, See Exhibit "C". If productive, battery will be located near wellsite in Section 27, T12S, R15E.
6. Location and types of water supply, Water will be purchased from local ranchers, or utilized from local stream sources.
7. Methods for handling waste disposal, A waste pit will be constructed on location and waste buried or hauled to existing approved area for waste disposal.
8. Camp plan and location, None planned
9. Airstrips location to be utilized or constructed, Interplanetary airstrip in N/2 Sec. 14-T12S-R15E, approximately 3 miles from proposed location. Use of airstrip for transportation and contract personnel will be at contractor's discretion.
10. Location layout of rig accessory equipment and pits, See attached Exhibit "C"
11. Surface restoration plans, Surfaces will be reshaped as reasonable and practical to conform to surrounding topography. Location, banks, cuts, constructed access roads will be reseeded with a mixture of 20% annual rye grass, 40% western wheat grass, and 40% indian rice grass at rate of 10# per acre seeded, or as directed by local BLM office.
12. Other information pertinent for assessment of environmental impact, Will plan to make onsite inspection with BLM supervisor to determine.

Chorney Oil Company representatives are available to meet with Governmental Agency representatives to inspect location and discuss requirements. Please contact Mr. Sam T. Boltz, 401 Lincoln Tower Bldg., Denver, Colorado, Office Phone 222-7886, Home 355-4881, to arrange for mutually acceptable timing.

Submitted by: CHORNEY OIL COMPANY

Approved by: _____

Sam T. Boltz



Highway #53 27.1 miles to Hi-Way 40

DUCHESSNE CO
CARBON CO

Creek T-11S
7125

5.1 miles to Stone Cabin Unit
5.1 miles to Turn-off Highway #53

Sketch of Driving Description
to Chorney Stone Cabin Unit Well
#1-D-19. No. 4-A-19

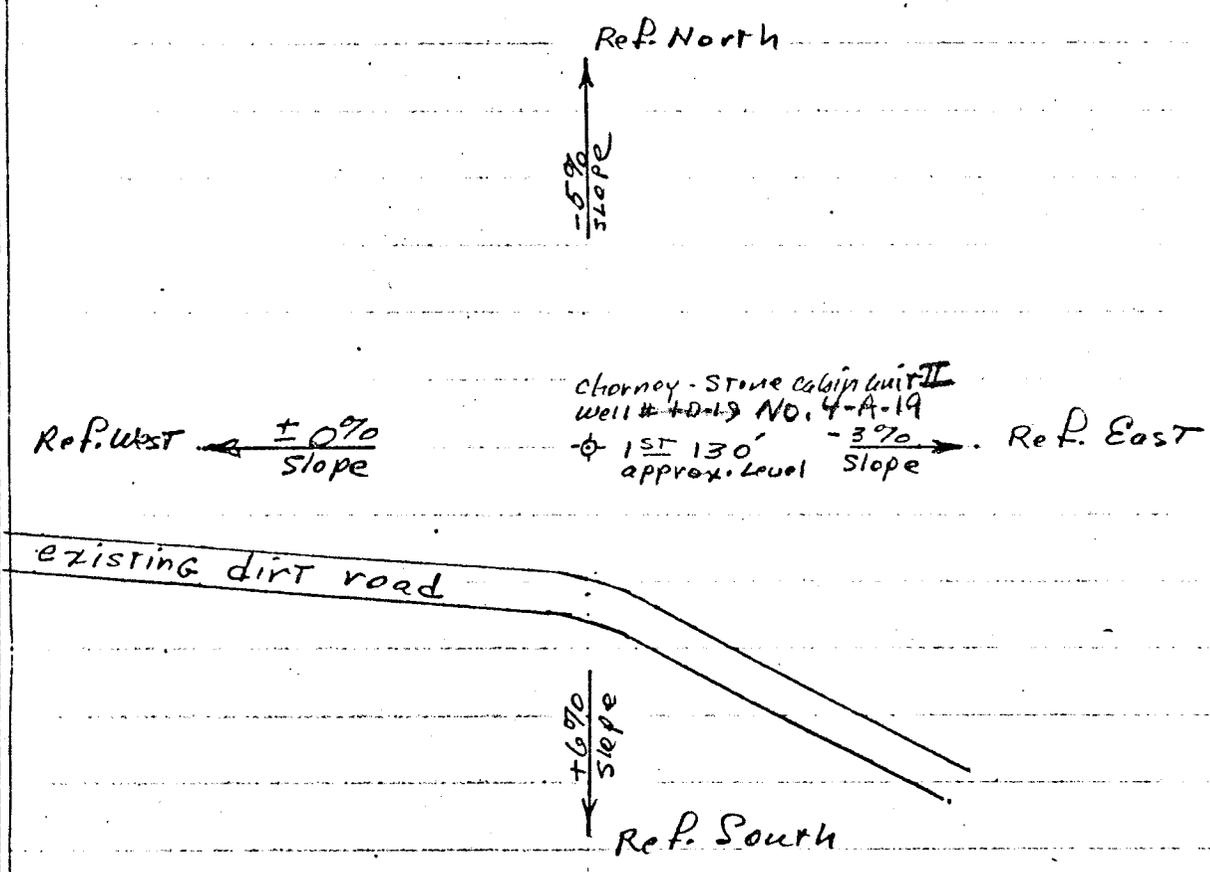
EXHIBIT 'A'

Date: 8/1/73
Scale: 1"=2000'
Job #87-73

Stone Cabin Unit II
Well #1-D-19

B-1-73
Job# 87-73

Sketch of Location



note: Location is covered by several piles of dead brush & trees and bedrock is only a few inches deep in most places.

EXHIBIT 'C'

August 29, 1973

Chorney Oil Company
401 Lincoln Tower Bldg.
Denver, Colorado 80203

Re: Stone Cabin Unit 4-A-19
Sec. 19, T. 12 S, R. 15 E,
Carbon County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to well is hereby granted in accordance with the 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:

PAUL W. BURCHELL - Chief Petroleum Engineer
HOME: 277-2890
OFFICE: 328-5771

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation relative to the above will be greatly appreciated.

The API number assigned to this well is 43-007-30019.

Very truly yours,

DIVISION OF OIL & GAS CONSERVATION

CLEON B. FEIGHT
DIRECTOR

CBF:sd
cc: U.S. Geological Survey



RAYMOND CHORNEY,
PRESIDENT

CHORNEY OIL COMPANY

401 LINCOLN TOWER BUILDING
1860 LINCOLN STREET
DENVER, COLORADO 80203

PHONE 303/573-5858

September 12, 1973

Mr. Gerald Daniels
U. S. Department of the Interior
U. S. Geological Survey
8416 Federal Building
Salt Lake City, Utah 84111

Dear Mr. Daniels:

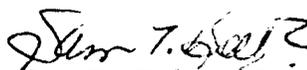
Re: Location Change
Stone Cabin Unit II No. 4-A-19
NE NE Sec 19-12S-15E
Carbon County, Utah

In confirmation of verbal approval this date, we are attaching a revised copy of our "Application for Permit to Drill" form (Form 9-331C) for drilling the referenced well. This change reflects moving of the location 220 feet south of the location as originally submitted.

We made the location change when making visual inspection with Mr. Quint Pickup of the Bureau of Land Management, Price, Utah. The change was made for ecology reasons, as the original location fell on bed rock and would require extensive use of explosives for making the reserve pits.

It is believed that the change will permit construction of the location and pits using a cat dozier.

Yours very truly,



Sam T. Boltz, Jr.

Vice President - Operations

STB/sw

Enclosures

cc: Utah Oil & Gas Comm.
BLM-Price, Utah

Conf.

October 10, 1973

MEMO FOR FILING

Re: Chorney Oil Company
Stone Cabin Unit 4-A-19
Sec. 19, T. 12 S, R. 15 E,
Carbon County, Utah

On October 4, 1973, the above referred to well site was visited.

The location has been made, however, in talking to Mr. Ken Lynch, consultant for Chorney Oil Company, it was stated that this well will not be spudded until next year due to weather and ?.

CLEON B. FEIGHT
DIRECTOR

CBF:ck

cc: U.S. Geological Survey

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

U-7968

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

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 GAS WELL OTHER

2. NAME OF OPERATOR

PACIFIC TRANSMISSION SUPPLY COMPANY

3. ADDRESS OF OPERATOR

245 Market Street, San Francisco, California 94105

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface

NE NE Sec 19 (668' FEL & 637' FNL), T12S, R15E

7. UNIT AGREEMENT NAME

Stone Cabin Unit II

8. FARM OR LEASE NAME

Stone Cabin

9. WELL NO.

4-A-19

10. FIELD AND POOL, OR WILDCAT

Stone Cabin Unit II

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

Sec 19, T12S-R15E, SLPM

14. PERMIT NO.

43-007-30019

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

7523' Ungraded ground

12. COUNTY OR PARISH

Carbon

13. STATE

Utah

16.

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other) Operate

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

X

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other) _____

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(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.)*

Pacific Transmission Supply Company proposes to operate the above described well under the pending Stone Cabin II Unit Agreement. Application for Permit to Drill has previously been submitted by Chorney Oil Company and was assigned Permit No. 43-007-30019.

A copy of the Well Prognosis is attached.

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

SIGNED [Signature]

TITLE EXPLORATION MANAGER

DATE 5/22/74

(This space for Federal or State office use)

APPROVED BY _____

TITLE _____

DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

WV
PI

Conservation Division
8426 Federal Building
Salt Lake City, Utah 84138

May 29, 1974

Mr. J. L. Wroble
Pacific Transmission Supply Co.
245 Market Street
San Francisco, California 94105

Re: Well No. 4-A-19 Stone Cabin
NE1/4 sec. 19, T. 12 S., R. 15 E.,
S.L.M., Carbon County, Utah
lease U 7968

Dear Mr. Wroble:

Attached is your copy of the Application for Permit to Drill the referenced well which was approved by this office on May 29, 1974. The application was filed by Chorney Oil Company. Also attached is your copy of a Sundry Notice dated May 22, 1974, wherein you advise the well will be operated by Pacific Transmission Supply Company under the Stone Cabin II unit agreement. Inasmuch as the unit agreement has not yet received U.S. Geological Survey approval, approval of the Permit to Drill is conditioned that drilling not be commenced until either the unit is approved or your company has been designated operator by Joan Chorney and Mono Power Company.

The casing program was revised on the Application for Permit to Drill in accordance with the drilling prognosis you supplied with the Sundry Notice, i.e. the casing program approved is that shown in the prognosis.

Please be advised that item 5 of the plan of development for surface use is not acceptable concerning placement of the production tank battery in sec. 27, T. 12 S., R. 15 E. If the well is completed as a producer, we will consider the placement of the battery at that time. It is my understanding that the location and access road were constructed last fall in accordance with oral approval by this office to Mr. Boltz, Chorney Oil Company.

Sincerely,

(C) (U) (S)

Gerald R. Daniels
District Engineer

cc: Chorney Oil Company
401 Lincoln Tower Bldg.
Denver, CO 80203

Casper
State Div. of O&G Cons.



RAYMOND CHORNEY,
PRESIDENT

CHORNEY OIL COMPANY

401 LINCOLN TOWER BUILDING
1860 LINCOLN STREET
DENVER, COLORADO 80203

PHONE 303/573-5858

August 6, 1974

Mr. Paul W. Burchell
State of Utah
Department of Natural Resources
Division of Oil and Gas Conservation
1588 West North Temple
Salt Lake City, Utah 84116

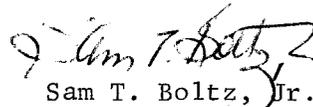
Dear Mr. Burchell:

Re: Pacific Transmission Supply Co.
Stone Cabin No. 4-A-19
Section 19, T12S-R15E
Carbon County, Utah

Reference is made to your memo dated August 1, 1974. This is to advise that Pacific Transmission Supply Company is now the operator of the subject well.

By copy of this letter, we are forwarding your memo to them for further handling.

Yours very truly,



Sam T. Boltz, Jr.
Vice President - Operations

STB/sw

cc: Pacific Transmission Supply Company
245 Market Street
San Francisco, California 94105

August 1, 1974

MEMO FOR FILING

CONFIDENTIAL...

Re: CHORNEY OIL COMPANY
Stone Cabin #4-A-19
Sec. 19, T. 12 S, R. 15 E,
Carbon County, Utah

On July 25, 1974, a visit was made to the above referred to well site.

Met with Dick Miller, toolpusher for Brinkerhoff Rig #32, and Chorney's Drilling Superintendent, Mr. Howard Wycoff, and a cursory inspection was made of the rig. Overall check was considered fair. However, the gentlemen were reminded to install toe or kick guards around the derrick floor, a portable railing covering the cat-walk V-door, and a derrick climber or cage on the derrick ladder.

At the time of the visit they had just set 406' of surface pipe and were waiting on cement. The blow-out prevention system had just been pressure tested by the Yellow Jacket Company, and all leaks have been corrected.

The above recommendations for a safer method of doing the job will be called to the attention of the operator by a copy of this memo.

PAUL W. BURCHELL
CHIEF PETROLEUM ENGINEER

PWB:lp

cc: Chorney Oil
Utah Industrial Commission
U. S. Geological Survey
Brinkerhoff

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN THE INDICATED
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

U-7968

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

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.)

7. UNIT AGREEMENT NAME

Stone Cabin Unit II

8. FARM OR LEASE NAME

Stone Cabin

9. WELL NO.

4-A-19

10. FIELD AND POOL, OR WILDCAT

Stone Cabin Unit II

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

Sec. 19, T12S, R15E, SLPM

12. COUNTY OR PARISH

Carbon

13. STATE

Utah

1. OIL WELL GAS WELL OTHER Dry Hole

2. NAME OF OPERATOR
Pacific Transmission Supply Company

3. ADDRESS OF OPERATOR
245 Market Street, San Francisco, California 94105

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface

NE,NE, Section 19
(668' FEL & 417' FNL)
T12S, R15E

14. PERMIT NO.
43-007-30019

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
7,523' G.L., 7,540' K.B.

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input checked="" type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) <input type="checkbox"/>	

SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <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.)*

Date of plug and abandonment was August 21, 1974.

Cement plug depths all K.B. measurements except the dry hole marker which is G.L.

Cement Plug Length (ft.)	From Depth	To Depth	Caliper Log Size Hole	Cu. Ft. of Cement Plug	Remarks
150	6,600'	6,750'	10"	80	Spotted through 4½" drill pipe
125	6,200'	6,325'	10"	70	Spotted through 4½" drill pipe
150	5,650'	5,800'	11"	100	Spotted through 4½" drill pipe
100	3,880'	3,980'	11"	65	Spotted through 4½" drill pipe
100	1,900'	2,000'	9½"	50	Spotted through 4½" drill pipe
75	365'	440'	11"	50	Across bottom of surface casing
18				10	In top of 10-3/4" surface csg.

Installed a 4" O.D. steel pipe dry hole marker in top of surface casing, four feet (4') above ground with required marking and six foot (6') below ground in cement.

Geological markers are as follows:

Green River Marker @ 1932' Lower Wasatch Marker @3934' (+3606) Mesaverde @6700' (+840')
Wasatch Marker @ 2918" 6' Gas Sand @5740' Total Depth @7217' SLM

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

SIGNED J. L. Wallace TITLE EXPLORATION MANAGER DATE 9/5/74

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____

APPROVED BY DIVISION OF OIL & GAS CONSERVATION

*See Instructions on Reverse Side

DATE SEP 5 1974
BY C. B. [Signature]

Instructions

General: This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law 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.

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 17: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

* GPO 782-930

Continued from Reverse Side

The reserve pit is presently enclosed with a wire fence.

Present plans are to fill the reserve pit, burning pit and flare pit. Also, level and seed the location in the immediate future.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

U -7968

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

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.)

7. UNIT AGREEMENT NAME

STONE CABIN UNIT II

8. FARM OR LEASE NAME

Stone Cabin

9. WELL NO.

4-A-19

10. FIELD AND POOL, OR WILDCAT

Stone Cabin Unit II

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

Sec. 19, T12S, R15E, SLPM

1. OIL WELL GAS WELL OTHER Plugged and abandoned hole.

2. NAME OF OPERATOR
PACIFIC TRANSMISSION SUPPLY COMPANY

3. ADDRESS OF OPERATOR
633 17th Street, Denver, CO 80292

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface NE,NE, Section 19
(668' FEL & 417' FNL)
T12S, R15E

14. PERMIT NO.
43-007-30019

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
7,523' G. L., 7,540' K. B.

12. COUNTY OR PARISH
Carbon

13. STATE
Utah

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF
FRACTURE TREAT
SHOOT OR ACIDIZE
REPAIR WELL
(Other)

PULL OR ALTER CASING
MULTIPLE COMPLETE
ABANDON*
CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF
FRACTURE TREATMENT
SHOOTING OR ACIDIZING
(Other)

REPAIRING WELL
ALTERING CASING
ABANDONMENT*

(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.)*

The above described well was plugged on Aug. 22, 1974 when completion of the drilling of the well failed to demonstrate commercial quantities of hydrocarbon. Cement Plugs were placed as follows:

<u>INTERVAL</u>	<u>PLUG SIZE</u>
365'-440'	75' (50' in & 25' out of surface casing)
1900'-2000'	100'
3880'-3980'	100'
5650'-5800'	150'
6200'-6325'	125'
6600'-6750'	150'

Regulation Dry Hole marker set in surface casing (18' plug +) CASING LEFT IN HOLE.... 416' of 10-3/4", 40,5# K55, casing was abandoned with the plugging of this well.

The location has been cleaned up, graded and reseeded.

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

SIGNED *George H. New* TITLE Engineer DATE 1/25/78

(This space for Federal or State office use)

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

GEOLOGICAL WELL REPORT

Pacific Transmission Supply Co.
4-A-19 Stone Cabin Unit II
NE NE Section 19, T12S - R15E
Carbon County, Utah

Submitted by:



Wallace W. Stewart
303 Western Resources Building
Casper, Wyoming 82601
Phone: (307) 234-5827

I N D E X

WELL DATA 2
WELL HISTORY 3
GEOLOGICAL SUMMARY 5
FORMATION TOPS 6
FIELD LOG CALCULATIONS 7
DEVIATION SURVEY 8
DRILL STEM TEST RECORD 8
PLUGGING PROGRAM 8
MUD CHECKS 9
BIT RECORD 10
CUTTINGS - SAMPLE DESCRIPTION. 11

WELL DATA

Operator: Pacific Transmission Supply Company

Well Name: 4-A-19 Stone Cabin Unit II

Legal Location: NE NE Section 19, T 12 S - R 15 E (637' fnl 668' fel)

Area: Stone Cabin Unit

County and State: Carbon County, Utah

Elevations: 7523' GR 7539' DF 7540' KB

Contractor: Brinkerhoff Drilling Company
Toolpusher: Dick Miller

Equipment: Rig #32

Commenced: June 30, 1974

Surface Casing: 10 3/4" set @ 416' KB with 375 sacks cement

Hole Size: 30" 0 - 35'
13 3/4" 35' to 416' 8 3/4" 416' to Total Depth

Drilling Fluid: 460' - 6828' Aerated Lime Water
6828' - TD Low Solid Chem-Gel

Logging: Schlumberger, Vernal, Utah
Engineer: Ed Mixa
Dual Induction Laterlog: 2" 415' to 7193'
5" 415' to 7193'
BHC Sonic Gamma Ray with Caliper, and plus F overlay:
5" 415' to 7189' (w GR to Surface)
Compensated Neutron & Formation Density Logs,
with Gamma Ray & Caliper: 5" 1900' to 4000'
5500' to 7195'
Portable Gas Unit, Continental Lab, Casper, Wyoming

Total Depth: 7217' Driller

Ceased Drilling: August 17, 1974 1:45 P.M.

Samples Delivered: American Stratigraphic Co., Casper, Wyoming
U.S. Bureau of Mines, Laramie, Wyoming

Sample Intervals: American Stratigraphic Company: 10' from 460' to 7217'
U.S. Bureau of Mines: 10' from 460' to 2500'

Geologist: Wallace W. Stewart, Consulting Geologist
303 Western Resources Bldg., Casper, Wyoming

Status: Plugged and Abandoned August 22, 1974

WELL HISTORY

<u>Date</u>	<u>Drilled To:</u>	<u>Hrs. Drlg.</u>	<u>Activity</u>
6-30-74	--	--	Rig up Dryhole Spudder, spud conductor hole
7-1-74	35' GL	--	8:30 P.M. Set 26" conductor casing to 35', cemented.
7-1-74 --			
7-10-74	--	--	Waiting on Rotary Rig.
7-11-74	--	--	Moving in Rotary Rig, all parts on location.
7-12-74	--	--	Rigging up.
7-13-74	--	--	Rigging up.
7-14-74	--	--	Rigging up, brought in air compressors.
7-15-74	--	--	Rigging up.
7-16-74	75'	3 1/2	Completed rigging up, completed nipping up, stuck drill pipe, drilling.
7-17-74	143'	6	Drilling surface hole, stuck pipe; unstuck pipe, drilled ahead, became stuck again.
7-18-74	--	--	Unstuck pipe, ream and washed to bottom, Circulate.
7-19-74	372'	20 1/2	Worked on pumps, ran surveys, drilled surface hole
7-20-74	460'	10	Drilling. Trip for Bit #2.
7-21-74	460'	0	Reamed surface hole to 13 3/4"; ran 10 3/4" casing to 416' KB, and cemented with 375 sacks of class "G", 2% CaCl, cement.
7-22-74	460'	0	W.O.C., and nipping up.
7-23-74	460'	0	Nipping up, and changed rams in B.O.P.
7-24-74	460'	0	Nipping up, pressure-tested B.O.P. and repaired leaks.
7-25-74	460'	0	Pressure-tested B.O.P., changed 4 1/2" pipe rams, rigged up flow lines, drilled-out cement and cleaned rat hole to 460'. Trip for Bit #3.
7-26-74	1125'	18 1/2	Finished trip for Bit #3; drilling.
7-27-74	1665'	14	Drilling; waiting on water 7 hours.

WELL HISTORY (Page 2)

<u>Date</u>	<u>Drilled To:</u>	<u>Hrs. Drlg.</u>	<u>Activity</u>
7-28-74	1841'	4	Change square kelly and bushing for hexagonal kelly and bushing; waiting on water; drilling.
7-29-74	2269'	10 3/4	Drilling; and waiting on water.
7-30-74	2876'	20 3/4	Drilling.
7-31-74	3249'	19 1/2	Drilling. Trip for Bit #4.
8-1-74	3666'	16 3/4	Drilling.
8-2-74	4206'	22 1/4	Drilling.
8-3-74	4742'	24	Drilling.
8-4-74	5104'	22 1/4	Drilling.
8-5-74	5346'	15	Drilling. Trip for Bit #5. SLC 5233 = 5259'
8-6-74	5680'	23	Drilling.
8-7-74	5938'	19 1/4	Drilling; test gas flow; flowed 1,379,000 CFGPD (est.)
8-8-74	6222'	23	Drilling.
8-9-74	6527'	23	Drilling.
8-10-74	6612'	9 1/2	Drilling. Trip for Bit #6. Wash to bottom.
8-11-74	6771'	18 1/2	Drilling. SLC 6612 = 6605'
8-12-74	6828'	7 1/4	Drilling. Rig up to convert to mud, mix mud and circulate. Drilling.
8-13-74	6828'	0	Build mud system, circulated hole.
8-14-74	6878'	7 1/2	Trip for Bit #7. Drilling.
8-15-74	7067'	24	Drilling.
8-16-74	7097'	7 3/4	Drilling. Trip for Bit #8.
8-17-74	7217'	13 3/4	Drilling. Reached TD. Circulated for logs.
8-18-74	7217'	0	Attempt to log, bridge @ 6870', trip to clean out.
8-19-74	7217'	0	Attempt to log, bridge @ 2470', trip to clean out. Hole in drill pipe, clean out, logging. Complete logs.
8-20-74	7217'	0	Waiting on orders. Prepare to P & A.
8-21-74	7217'	0	Plugged and abandoned. Released rig @ midnight.

GEOLOGICAL SUMMARY

The Pacific Transmission Supply No. 4-A-19 was drilled in the Stone Cabin Unit II to evaluate the gas potential of the Lower Wasatch and the upper 400 feet of the Mesaverde Group.

The test well was located approximately mid-point between the two deep tests in the Stone Cabin Field. A mile and one-half to the southeast was the Chevron test which was drilled to a total depth in the Mississippian formation, and a mile and one-fourth to the northwest was the Carter test which was drilled to a total depth in the Mancos Shale. The closest production was approximately a mile and a half to the northwest in the Great Lakes test well which produced from a sand in the Lower Wasatch.

The 4-A-19 test was drilled to the top of the Mesaverde Group using aerated lime water as a drilling fluid in an attempt to maintain an under-pressured mud column and to reduce contamination of possibly productive sands. One significant gas show was encountered at approximately 5740-50', and this zone flowed at an estimated rate of 1,379,000 CF/CPD. After this initial testing, while letting the hole blow, no further gas anomalies were noted from this zone or from subsequent zones drilled.

The electric log evaluation of the gas show encountered at 5740-50' indicated a gas zone too thin and with porosities too low for commercial production. Further correlation of the electric logs indicate the 5740-50' sand does not appear to be consistent or equivalent to similar sands found in other test wells in this area. Also, there is no production, nor have there been any significant tests of this overall interval in any of the wells drilled in the Stone Cabin Unit.

The "400 Sand" of the Mesaverde was the lowest sand objective and it was encountered between 7030-7070'. A fair to good gas show was observed in the samples but only a minor gas anomaly was detected on the hydrocarbon detector and the evaluation of electric logs indicated the zone to be too tight for commercial production.

Another zone of some interest would appear to be the equivalent of the productive sand in the 2-B-27 well. The apparently equivalent sand was encountered between 6230-6310' and only a small gas show was detected. It should be pointed out that this zone appears to be fairly consistent over a portion of the field, in that it is present and productive in the 2-B-27 well, present but tight in the Chevron well, and present but probably tight in the Carter test. This would lead to the conclusion that perhaps another test to evaluate the 2-B-27 sand is indicated between that productive well and the Chevron test in Section 29.

It appears that drilling with aerated lime water significantly increased penetration rates over mud drilled holes and the caliper on the electric logs indicate no significant hole deterioration. If the well had been drilled just into the top of the Mesaverde, no mud program nor well testing would have been necessary. It would appear that if sufficient water is available at the drill site, significant time and monetary savings could be made for wells penetrating only through the Wasatch Formation.



Wallace W. Stewart

August 28, 1974

FORMATION TOPS

<u>FORMATION</u>	<u>LOG DEPTH</u>	<u>DATUM</u>	(7540' KB)
Green River Formation		Surface	
Green River Marker	1932		+5608
Wasatch Marker	2918		+4622
Lower Wasatch	3934		+3606
"2 - B - 27 Sand"	6236		+1304
Mesaverde Group	6700		+ 840
Mesaverde "400 Sand"	7032		+ 508
Total Depth Driller	7217		+ 323

FIELD LOG CALCULATIONS

<u>DEPTH</u>	<u>POROSITY</u>		<u>WATER</u>	<u>REMARKS</u>
	<u>DENSITY %</u>	<u>SONIC %</u>	<u>SATURATION %</u>	
<u>GREEN RIVER FORMATION</u>				
2438-60	19	16-18	75	Correction on Sonic Porosity by 3% due to correcting log matrix from 19,500. Down to 5500'.
2592-94	15-17	15	100	
2620-22	18	15	70	
2666-72	22	18	85	
<u>WASATCH FORMATION</u>				
3058-66	12-13	12	75	
3432-45	12-14	12	80	
3546-50	13	12	100	
3550-52	14	13	80	
3590-3600	13	12	80	
3669-70	16	14	80	
3675-82	17	15	80	
3688-90	16	16	80	
3810-14	14	15	90	
3890-3900	16	13	75	
<u>LOWER WASATCH</u>				
5620-28	6	10	70	Sonic using 19,500 Matrix
5742-50	8	6	30	1' of 11% por. 2' of 8 1/2 por.
5885-87	7	11	100	
6246-62	6	9	65	
6292-6302	7	10	70	
6524-6525	2	8	100	
<u>MESAVERDE</u>				
6870-72	9	12	100	
6910-16	10	15	90	
7044-46	8	12	80	
7051-54	8	12	75	
7062-70	10	11	85	

DEVIATION SURVEY

<u>DEPTH</u>	<u>DEVIATION</u>
221	1/4°
283	1/4°
445	1/2°
943	1/2°
1313	1/2°
1874	3/4°
2695	3/4°
3378	3/4°
4036	3/4°
4962	3/4°

DRILL STEM TEST RECORD

NONE

While drilling with aerated lime water, hole commenced flaring gas. Shut down at 5762'. Closed Hydril. Tested gas flow 2 1/2 hours. With hole still unloading drilling fluid -- gauged (estimated) 1,379,000 CFGPD.

PLUGGING PROGRAM

Regulation dry hole marker.

<u>INTERVAL</u>	<u>PLUG SIZE</u>	
365-440'	75 foot	50 feet in, and 25 feet out
1900-2000'	100 foot	of surface casing
3880-3980'	100 foot	
5650-5800'	150 foot	
6200-6325'	125 foot	
6600-6750'	150 foot	

Tentative approval USGS, Salt Lake City, Utah, Ed Gwinn.

MUD CHECKS

<u>Date</u>	<u>Depth Checked</u>	<u>Weight</u>	<u>pH</u>	
7-16-74	50	--	12.5	Drilling surface hole with aerated lime water.
7-17-74	72	--	13.0	Drilling surface hole with aerated lime water.
7-18-74	143	--	--	Drilling surface hole with gel mud.
7-19-74	180	--	--	Drilling surface hole with gel mud.
7-20-74	460	8.5	--	Drilling surface hole.
7-21-74 to 7-25-74				Ream out hole and set surface casing.
7-25-74	460	--	12.5	Drilling with aerated lime water, 1000 cu ft per min.
7-26-74	913	8.6	11.0	" " " " " " " "
7-27-74	1341	8.4	10+	" " " " " " " "
7-28-74	1841	--	11.0	" " " " " " " "
7-29-74	2123	--	11.0-12.0	" " " " " " " "
7-30-74	2700	8.4	10.0	" " " " " " " "
7-31-74	3160	--	10.0	" " " " " " " "
8-1-74	3552	--	11.0-11.5	" " " " " " " "
8-2-74	4007	--	10.5	" " " " " " " "
8-3-74	4527	--	9.0+	" " " " " " " "
8-4-74	4961	8.2	10.5	" " " " " " " "
8-5-74	5233	--	11.0	" " " " " " " "
8-6-74	5550	--	11.0	" " " " " " " "
8-7-74	5843	--	11.0	" " " " " " " "
8-8-74	6087	--	11.0	" " " " " " " "
8-9-74	6398	8.4	11.0	" " " " " " " "
8-11-74	6630	8.5	10.5	" " " " " " " "
8-12-74	Rig up to convert mud system to low solid oil emulsion (chem-gel)			

<u>Date</u>	<u>Depth Checked</u>	<u>Weight</u>	<u>pH</u>	<u>Viscosity</u>	<u>Water Loss</u>	<u>Filter Cake</u>	
8-13-74	6828	7.8	12.0	49	11.2	2/32	
8-14-74	6828	7.8	12.0	58	9.2	2/32	
8-15-74	6920	8.5	11.0	44	8.0	2/32	
8-16-74	7090	8.6	12.0	49	10.4	4/32	
8-17-74	7100	8.7	11.0	40	10.0	3/32	
8-17-74	7217	8.7	11.5	44	10.4	3/32	Circ. for logs @ TD
8-18-74	7217	9.3	11.5	40	9.2	2/32	Attempt to log
8-19-74	7217	9.4	11.0	44	9.2	2/32	Logging

BIT RECORD

<u>BIT NO.</u>	<u>MFR.</u>	<u>SIZE</u> <u>INCHES</u>	<u>BIT</u> <u>TYPE</u>	<u>DEPTH</u> <u>OUT</u>	<u>FOOTAGE</u>	<u>HRS.</u>	<u>1000#</u> <u>WEIGHT</u>	<u>PUMP</u> <u>PRESS</u>	<u>ROTARY</u> <u>RPM</u>	
RR	-	30	-	35	35	-	-	-	-	Conductor hole - with
1	Smith	8 3/4	V1J	460	425	33 1/4	-	300	80	spudder
2	Smith	13 3/4	DGJ	460	425	15	13	450-600	100	Reaming surface hole.
3	Reed	8 3/4	FP62J	3249	2789	89 3/4	45	250	45-50	
4	Reed	8 3/4	FP53J	5233	1984	96 3/4	45	200-300	45-50	SLC 5233 = 5259'
5	Smith	8 3/4	F4J	6612	1352	104 1/4	45	250-400	50	
6	Smith	8 3/4	3JS	6828	216	26 1/2	45	700	45	
7 RR	Hughes	8 3/4	J33	7091	263	38	45	1000	50	(RR from another hole)
8	Smith	8 3/4	F5	7217	126	15	45	1000	50	Pulled @ TD for logs.

Pacific Transmission Supply Co.
4-A-19 Stone Cabin Unit II
Carbon County, Utah

CUTTINGS - SAMPLE DESCRIPTION

<u>DEPTH</u>	<u>10' SAMPLES</u>	<u>LITHOLOGY (Samples not lagged)</u>
	SAMPLES START IN TERTIARY - GREEN RIVER FORMATION	
460-470	Siltstone, gray-green, slightly maroon, slightly calcareous, hard, tight. Shale, green-gray, very firm-hard.	
470-480	As above, with sand, tan, very fine grained, very scattered black stain, slow cut, very poor show. No gas.	
480-490	With increase gray, very fine grained, hard, tight, calcareous sand.	
490-500	Siltstone, gray, gray-green, hard, calcareous, and shale, green, maroon, slightly calcareous, firm.	
500-510	As above, with sand, tan-brown, very fine grained, tight, slightly friable.	
510-520	Gray, hard, calcareous siltstone. Shale, dark chocolate. Firm shale, trace brown, fine grained sand.	
520-530	Sand, fine grained-very fine grained, slightly friable-friable, dark brown, very dark stain, residue. Fair porosity, good rapid cut, no fluorescence, water wet. No gas. Poor show.	
530-540	As above, with limestone, white very silty, hard, fine crystalline, white-tan.	
540-550	Limestone, white-light tan, very silty, hard.	
550-560	Shale, gray-green, firm to slightly soft. Sand, very scattered, fine grained, trace oil stain.	
560-570	Sand, brown-tan, fine grained, heavy oil stain, few tight pieces have dull yellow fluorescence. Sand is porous, rapid yellow cut. Fair porosity, poor show.	
570-580	Sand, white-tan, black, poor sorting, subangular, very oily-tar saturated, clusters of tar. Sand is porous, friable, saturated throughout. No fluorescence, rapid yellow cut. Dead oil.	
580-590	As above, with medium and trace coarse grained clusters, tighter in part, slightly friable. No fluorescence.	
590-610	Sand, tan-gray, very fine grained-fine grained, hard, tight, very calcareous, trace coarse grained FQCs.	
610-640	Limestone, tan-brown, very fine crystalline, silty in part.	

CUTTINGS - SAMPLE DESCRIPTION (continued)

<u>DEPTH</u>	<u>10' SAMPLES</u>	<u>LITHOLOGY</u> (Samples not lagged)
640-650	Sand, white-brown, fine grained-trace medium grained, generally hard, tight, in part slightly friable, scattered poor porosity, scattered dull fluorescence, good streaming cut. Poor show.	
650-660	Limestone, tan-very light brown, very fine crystalline-dense, slightly silty; trace sand, scattered coarse grained, slightly friable, oil residue, angular-subangular, trace dull fluorescence, good streaming cut.	
660-680	Limestone, brown-tan-gray, fine crystalline, abundant oölitic, trace sandy limestone, trace coarse crystalline oölitic limestone, nodular appearance.	
680-700	Limestone, brown, dark brown, crystalline, intra oölitic-granular porosity; porosity is poor-trace fair. Limestone has granular appearance and oil saturated, rapid yellow cut, very dull to no fluorescence, heavy residue. Oil-tar odor on drying. Good show - probably dead oil.	
700-720	Sand, brown, very oil saturated, loose, friable, rapid-immediate yellow cut, very dull-to no fluorescence, porosity is good, probably dead and/or water wet. Also free oil and heavy tar globules floating on water.	
720-730	As above, with trace yellow fluorescence in tighter sand; with sand, white-tan, fine grained, trace coarse grained embedded, hard, tight.	
730-750	Limestone, white-tan, very fine crystalline-dense, in part oölitic, and siltstone, tan, very calcareous, hard, tight, with green slightly waxy shale.	
750-770	Siltstone, tan-gray, very calcareous, hard, tight.	
770-790	Siltstone, dark tan-brown, grades to sand, very fine grained, calcareous, very hard, tight, very scattered yellow fluorescence. Poor show.	
790-820	Sand, brown-tan, fine grained-very slightly friable, calcareous, subangular, well sorted, scattered residue or stain, good cut. Shale, red, firm, subwaxy.	
820-840	Sand, brown-tan-gray, fine grained-medium grained, friable in part. Show as above. Trace red, firm, subwaxy shale.	
840-850	Sand as above, increase friable, in part with black grains. Limestone, tan, very fine crystalline-dense, firm-hard. Porosity in sand. No show.	
850-880	Limestone, white-tan-brown, very fine crystalline and dense, silty in part, with shale inclusions. Shale, reddish brown, red maroon, firm. Also shale, pale green-gray, firm.	

CUTTINGS - SAMPLE DESCRIPTION (continued)

<u>DEPTH</u>	<u>10' SAMPLES</u>	<u>LITHOLOGY</u> (Samples not lagged)
880-890	Shale, red, brownish red, green, soft-firm, mud turned red. Sand, white, fine grained, slightly friable. No show.	
890-900	As above, with increase very fine grained sand, white-gray, slightly pink, hard-tight. Also sand, brown-tan, slight residue, good streaming cut, porous. No fluorescence.	
900-910	Sand, white-brown, fine grained-very fine grained, slightly friable, trace residue and porosity; poor to no show.	
910-920	Sand as above, increase sand, and medium grained porous sand, oil stain, residue. No fluorescence. Looks wet, streaming cut. Poor show. Fair-good porosity.	
920-930	Sand grades to very fine grained; and siltstone, tan-brown, calcareous, hard and tight.	
930-940	As above with increase siltstone, very calcareous; and limestone, tan-fine crystalline, dense, very silty, all hard, tight.	
940-950	As above, with shale, red-maroon-green.	
950-960	Sand, white-tan, very fine grained-fine grained; and siltstone, generally hard-tight. Sand in part slightly friable, low porosity. No show.	
960-970	As above, increase sand; and sand, fine-trace medium grained, brown, oil residue, fair porosity and streaming cut. No fluorescence. Very poor show.	
970-980	Siltstone, grading to very fine grained sand, white gray-gray, calcareous, very hard, tight.	
980-990	Sand, brown-tan, white, fine grained-medium grained, porous, oil residue, streaming cut. No fluorescence. Dead oil show.	
990-1000	Sand as above, brown, porous, oil stain, light residue, and 50% apple green, subwaxy shale.	
1000-1010	Siltstone, white-gray-tan, in part very calcareous, grades to silty limestone, dense, trace black residue.	
1010-1020	Sand, brown-tan, fine-medium grained, porous, friable, oil residue, yellow cut, no fluorescence. Porosity in dead oil show; abundant pyrite.	
1020-1040	Siltstone, white-tan, grades to very fine grained, hard, tight sand. Red, subwaxy, firm shale.	

CUTTINGS - SAMPLE DESCRIPTION (continued)

<u>DEPTH</u>	<u>10' SAMPLES</u>	<u>LITHOLOGY</u> (Samples not lagged)
1040-1070	As above, with reddish brown-brown-tan, very fine grained sand-siltstone, hard and tight.	
1070-1090	Sand, white, fine grained, very clean, friable, porous. No show.	
1090-1100	As above, grading to gray, white, slightly friable, calcareous siltstone.	
1100-1110	With shale, red-green, and reddish brown sand, very fine grained-siltstone.	
1110-1120	Sand, white-tan, fine grained-medium grained, trace coarse grained, and in part very calcareous, subangular, poor sorting, and shale, green, hard, slightly waxy.	
1120-1130	Missed.	
1130-1140	Siltstone and sand, gray-white, brown, very hard, tight. No show. Sand, very fine grained. Shale, green, very hard, and slightly calcareous. White, gray, very fine crystalline limestone; gray limestone.	
1140-1150	Siltstone, reddish brown-brown, very hard, tight, slightly calcareous, carbonaceous partings.	
1150-1180	Shale, red and green, in part very hard; and silty, trace reddish, very fine grained sand.	
1180-1200	Sand, white, fine grained, slightly friable-friable, subrounded-subangular, generally tight, black oil residue, scattered throughout, very scattered specks of dull yellow-orange fluorescence.	
1200-1220	Dolomite, tan, crystalline granular, oolitic, slightly porous. No show. Increase porosity, and black tar residue.	
1220-1270	Siltstone, white-gray, hard-tight; shale, red-green, firm-hard, silty in part.	
1270-1300	Dolomite, granular crystalline; porous, oil saturated, oil residue. No fluorescence, good yellow cut.	
1300-1340	Shale, red, firm, in part silty, and greenish, firm, subwaxy.	
1340-1370	Sand, white-gray, fine grained, friable, porous, oil-tar residue, yellow cut. No fluorescence. Very poor show.	
1370-1380	As above with siltstone, gray, very hard, tight.	
1380-1390	With limestone, tan, very fine crystalline-dense, in part oolitic.	

CUTTINGS - SAMPLE DESCRIPTION (continued)

<u>DEPTH</u>	<u>10' SAMPLES</u>	<u>LITHOLOGY</u> (Samples not lagged)
1390-1410	Siltstone, red-brick red, hard, tight, very argillaceous, and shale, red, silty, and green, subwaxy, all firm-hard.	
1410-1440	Shale, and siltstone, red-brick red, very hard, tight. Shale is firm-silty.	
1440-1460	Dolomite, gray-tan, medium crystalline, very sandy, granular, free oil on sample and out of drilling fluid, floating free oil. Instant yellow white cut. No fluorescence. No gas. Good porosity and show. 5' drilling break.	
1460-1500	Shale, red-reddish brown, soft-firm to hard, silty in part.	
1500-1520	Limestone, white-tan, very fine crystalline and dense, very sandy-silty in part; siltstone, gray, calcareous. No show.	
1520-1540	Shale, red-brown, firm.	
1540-1560	Dolomite, white-tan, granular, oil stained, in part bleeding brown oil, free oil globules, fair-good porosity, very dull fluorescence. Instant milk white cut. Good show. (Note: For one 30" period hole was blown clean with air. Apparently no fluid oil, gas, or water entering the hole.)	
1560-1580	As above, with green, subwaxy, hard shale, and red, firm, slightly silty shale. (10% is dolomite as above.)	
1580-1600	Sample is dolomite, granular as above, with oil residue, no free oil. Limestone, tan-brown, dense; vari-colored red-green shale.	
1600-1620	Sand, gray-white, medium grained-fine grained, friable, calcareous in part, loose grains are glassy. Sand is probably part feldspars.	
1620-1660	Siltstone, reddish brown, very argillaceous, very firm-hard. @ 1665' shut down 4:30 P.M. - 7:00 A.M. (14 1/2 hours) When resumed circulation, no oil in fluid column - no shows indicated.	
1660-1670	Shale, red, reddish brown, trace green, firm-soft.	
1670-1680	As above with limestone, tan, dense, very sandy, trace sand, feldspar type.	
1680-1690	Shale, limestone, and sand. Sand fine grained-medium grained, oily residue.	

CUTTINGS - SAMPLE DESCRIPTION (continued)

<u>DEPTH</u>	<u>10' SAMPLES</u>	<u>LITHOLOGY (Samples not lagged)</u>
1690-1700	Limestone, white-light tan, very fine crystalline-dense. Sandy in part.	
1700-1710	Shale and siltstone, red, brownish, firm-hard.	
1710-1730	Sand, shale, limestone, all thin bedded. Sand is fine grained, has some residue.	
1730-1740	Shale, red, green, mottled brown-orange-gray.	
1740-1750	Shale as above, with sand (50%), white-gray, fine grained, friable, oil-tar residue. No fluorescence. Will cut.	
	(This "sand" as in last 200-300' looks like gray sand, but grains are not quartz, probably feldspar.)	
1750-1760	Increase sand as above.	
1760-1770	Limestone, tan, brown, dense.	
1770-1790	Shale, brown, green, firm-subwaxy.	
1790-1800	Limestone, tan-brown, dense.	
1800-1830	Shale, red-reddish brown, in part very silty or grades to siltstone. Also brown and green, subwaxy shale.	
1830-1840	Sand, gray, fine grained, slightly friable, calcareous. No show.	
1840-1860	Shale, red, brownish red, green, silty in part, firm to hard.	
1860-1870	Siltstone, red, tan, very hard, tight and calcareous, with limestone, tan-brown, very fine crystalline, silty in part.	
1870-1900	Sand, white-gray, fine grained-medium grained, slightly friable, abundant black tar residue, white cut, no fluorescence. Very poor show.	
1900-1930	Limestone, white-light tan, very fine crystalline, silty in part, very clean in part.	
	LOG TOP - GREEN RIVER MARKER 1932 (+5608)	
1930-1950	Limestone as above, with interbedded red, firm shale.	
1950-1990	Limestone, brown, tan, reddish tan, very fine crystalline-dense, in part very argillaceous.	
1990-2020	Limestone, vari-colored, dark brown, tan, black, green, very fine crystalline, dense, in part very fossiliferous.	

CUTTINGS - SAMPLE DESCRIPTION (continued)

<u>DEPTH</u>	<u>10' SAMPLES</u>	<u>LITHOLOGY (Samples not lagged)</u>
2020-2030	Sand, gray, very fine grained, slightly friable, calcareous. No show.	
2030-2040	Shale, green-red, waxy, firm.	
2040-2070	Sand, gray, fine grained, friable, oil residue, cut, no fluorescence.	
2070-2100	Limestone, dark gray-gray, brown, reddish brown, dense, very fine crystalline, argillaceous in part, abundant fossil ostracods.	
2100-2110	Limestone as above, with sand, gray, very fine grained-fine grained, slightly friable. No show.	
2110-2120	Limestone, black-dark gray, very fine crystalline-dense, in part very argillaceous.	
2120-2130	Sand, gray, very fine grained-fine grained, very dull fluorescence, oil-tar residue, good cut, "dead".	
2130-2180	Sand, gray and white, fine grained, loose, good porosity. No show.	
2180-2190	Sand, with limestone, dark brown-tan, very fine crystalline-dense, trace fossiliferous.	
2190-2230	Limestone, dark brown, gray-tan, very fine crystalline-dense.	
2230-2260	Shale, gray-mostly green, subwaxy, firm.	
2260-2280	As above, with sand, gray, fine grained, friable. No show.	
2280-2310	Sand, gray-tan, fine grained, loose-friable, subrounded, dull orange fluorescence, yellow fluorescence, good white cut. Good porosity, stain. Good show. Probably wet.	
2310-2370	Shale, red, in part silty, soft to firm and green, subwaxy.	
2370-2400	As above, with sand, gray, very fine grained, slightly friable. No show.	
2400-2440	Sand, gray-slightly tan, fine-medium grained, loose, friable, slight oil odor, stain in part, white cut, no fluorescence. Good porosity. Fair show - wet.	
2440-2470	As above with no show, and with shale, red, firm.	
2470-2510	Shale, red, soft-firm, silty in part.	
2510-2520	Missing.	

CUTTINGS - SAMPLE DESCRIPTION (continued)

<u>DEPTH</u>	<u>10' SAMPLES</u>	<u>LITHOLOGY (Samples not lagged)</u>
2520-2540	Shale as above, with red, firm siltstone, very argillaceous, and sand, very fine grained, calcareous, tight.	
2540-2550	Shale, dark beet red, firm-soft.	
2550-2570	With gray, fine grained, calcareous, tight sand, and gray siltstone.	
2570-2580	Sand, gray, fine-medium grained, slightly friable, fair-poor porosity. No show.	
2580-2600	Shale, gray, firm-soft, silty in part.	
2600-2630	Sand, gray-gray white, fine-medium grained, slightly friable. Poor porosity. No show. Subangular-subrounded.	
2630-2640	Siltstone, gray-white, very hard, tight, calcareous.	
2640-2670	Sand, white-gray, fine grained, friable, porosity. No show.	
2670-2700	Shale, gray-green, firm, with scattered sand and limestone.	
2700-2710	Shale, red-reddish brown, firm-subwaxy, slightly mottled, and with shale, green, waxy.	
2710-2730	Limestone, tan-dark brown, firm, very fine crystalline-dense, fossiliferous, with shale, green, subwaxy.	
2730-2790	Shale, red-green-gray, and mottled, firm-soft, in part subwaxy; with scattered tan-brown, fossiliferous, dense, firm limestone.	
2790-2810	As above, with sand, white-gray, fine grained-medium grained, few orange and green grains, generally tight.	
2810-2850	Shale, green, red, black-brown, with interbedded siltstone and very fine grained sand.	
2850-2870	Limestone, dark brown, gray, tan, very fine crystalline-dense.	
2870-2880	Limestone, tan, very fine crystalline-dense, fossiliferous, hard-firm.	
2880-2900	As above, with increase tan-brown, and gray, very fossiliferous, ostracodal limestone, in part coarse crystalline fossil assemblage.	
2900-2910	As above, with sand, white, fine grained, slightly friable, generally tight, slightly salt and pepper, black-green grains (40% sand).	

LOG TOP - WASATCH MARKER 2918 (+4622)

2910-2940 Shale, red-dark brick red, firm-soft,
in part with siltstone or silty.

CUTTINGS - SAMPLE DESCRIPTION (continued)

<u>DEPTH</u>	<u>10' SAMPLES</u>	<u>LITHOLOGY</u> (Samples not lagged)
2940-2950	As above, with sand, gray, fine grained, with black-green, orange grains, slightly friable, generally tight. No show.	
2950-2960	Sand, gray, fine-medium grained, very slightly friable, trace tar residue. Sand has orange, black and green grains, slightly calcareous.	
2960-2990	Sand, light gray-gray, fine-medium grained-trace coarse grained, with black, green, few orange grains, subangular, well sorted, very slightly friable, slightly calcareous, generally tight, slight stain, brown oil residue, oily taste, good yellow-yellow white fluorescence, (spotty in part), slow streaming gold cut. Poor porosity, fair show.	
2990-3020	Shale, red-reddish brown, silty in part, and grades to siltstone, with sand as above (25%).	
3020-3030	Increase gray, fine grained-medium grained, generally tight sand, whitish yellow fluorescence, slow yellow cut. Poor-no porosity, fair show.	
3030-3090	With red shale, and silty shale, firm-soft, 10% sand as above.	
3090-3180	As above interbedded, shale, siltstone, and sand, red brownish-red.	
3180-3200	With increase sand, red-whitish red, fine grained, argillaceous. No porosity or show.	
3200-3210	No sample.	
3210-3220	Shale, dark red and green, firm-soft, in part silty.	
3220-3230	As above with sand, white, medium grained, friable, trace fluorescence.	
3230-3270	Shale as above, and in part green-gray-orange mottled.	
3270-3300	Shale, with sand, white-reddish, slightly friable.	
3300-3310	Sand, reddish-white, fine grained, friable, subangular, probably porous. No show.	
3310-3320	As above with shale, red, firm, silty in part (50-50).	
3320-3340	Shale, red, firm, very silty, and siltstone, red, very argillaceous.	
3340-3410	Shale as above, with scattered, very argillaceous siltstone, and trace tight, fine grained sand.	

CUTTINGS - SAMPLE DESCRIPTION (continued)

<u>DEPTH</u>	<u>10' SAMPLES</u>	<u>LITHOLOGY</u> (Samples not lagged)
3410-3450	Sand, white-gray, fine-medium grained, few black grains, slightly friable, very slight oily taste, poor-slight porosity. No visible show, porosity seems to increase toward base.	
3450-3480	Shale, red, with some green, orange, and mottled gray, orange.	
3480-3510	Shale, red, dark reddish brown, firm-soft.	
3510-3530	Sand, white-gray, angular-subangular, generally loose, porosity in sample, calcareous cement, fine-medium grained. No show.	
3540-3550	No sample.	
3550-3560	As above, still very calcareous, may be hard and tight.	
3560-3580	As above, with in part coarse grained, vari-colored sand, very calcareous, and shale, red, firm.	
3580-3610	Sand, fine-medium-coarse grained, very calcareous, hard-tight; 50% with shale, red-green-yellow, firm, soft.	
3610-3630	Shale as above.	
3630-3650	Shale as above, and with sand, fine-medium and trace coarse grained, very calcareous, in part friable, and abundant clusters.	
3650-3690	Sand, white-gray, fine-medium grained, loose and friable, subangular, in part tight clusters, sand is calcareous, porous. No show; (with coarse grained, tighter clusters toward base), well-rounded.	
3690-3750	With mostly shale, red, with brown, green-orange.	
3750-3800	Sandstone, fine-medium grained, loose-friable, porous, subrounded-subangular, poorly sorted. No show.	
3800-3820	Sand, becomes coarse grained, porous. No show.	
3820-3860	Sand, white-clear, fine grained-abundant medium grained, porous. No show. (36 units gas)	
3860-3870	Sand, white-clear, fine grained-medium grained, loose, porous. No show.	
3870-3880	As above, with sand increase to medium grained and coarse grained, porous.	
3880-3920	Sand, white-tan, fine-medium grained, in part with coarse grained at base. Good porosity. No show. 300 units gas.	

CUTTINGS - SAMPLE DESCRIPTION (continued)

<u>DEPTH</u>	<u>10' SAMPLES</u>	<u>LITHOLOGY (Samples not lagged)</u>
	LOG TOP - LOWER WASATCH 3934 (+3606)	
3920-3960	Shale, red, brownish red, green, with very scattered sand.	
3960-3990	As above, with 25% sand, white, fine grained, slightly friable-friable. No shows.	
3990-4000	Sand, white-gray, very calcareous, fine-medium grained, loose, subangular, porous. No show.	
4000-4030	As above, with shale, red, green, firm, probably in thin interbeds.	
4030-4050	Shale, red-brownish red, silty in part.	
4050-4070	Sand, white-clear, fine-medium grained, loose, calcareous in part, porous. No show.	
4070-4100	As above, with shale, red, brown, and green, firm, in part cavings.	
4100-4110	Increase shale, red, brown, green, firm, slightly blocky-subwaxy.	
4110-4130	No samples.	
4130-4190	Shale as above, with 10-25% sand, gray, with orange, black, green grains, slightly friable, generally tight. No show.	
4190-4220	Shale, red-green, trace brown and maroon, soft-firm, in part subwaxy, silty in part, some sand.	
4220-4350	As above with 25-50% sand, white, fine-medium grained, calcareous, tight, subangular, with orange-green, black grains. Sand and shale in thin interbeds.	
4350-4420	Shale, brownish red, red, green, soft-firm, with scattered white-red, fine-medium grained sand. No show.	
4420-4430	As above, with increase sand, white, fine grained, slightly friable-friable. No show.	
4430-4580	Shale, red and green, silty in part, firm-soft, very scattered siltstone and sand.	
4580-4610	Shale, red, reddish brown, firm-soft, and shale, gray, firm, subwaxy.	
4610-4680	As above.	
4680-4790	Shale, with sand, white-reddish, fine grained, slightly friable. No show.	

CUTTINGS - SAMPLE DESCRIPTION (continued)

<u>DEPTH</u>	<u>10' SAMPLES</u>	<u>LITHOLOGY</u> (Samples not lagged)
4790-4840	Shale, red, with scattered green, yellow and brown, in part mottled; with very scattered white-reddish, fine grained, tight sand.	
4840-4960	As above, with sand, white-reddish, fine grained, friable. No show.	
4960-4970	As above, with increase white-reddish, fine grained, tight sand. No show.	
4970-5040	Shale, red, and reddish brown, green, mottled yellow. (Sand in part fine grained, white 5020-5040.)	
5040-5080	Shale, red, and increase green, brown, and yellow, firm-soft, in part subwaxy, in part good increase yellow mottled shale.	
5080-5090	Shale as above, with sand, white-clear, fine grained, slightly calcareous, slightly friable. No show. Poor porosity to no porosity.	
5090-5130	With increase medium grained, tight sand clusters. Sand is white, with few black grains, in part very well cemented (calcareous). No show.	
5130-5160	As above, with few scattered sand clusters, coarse grained, angular, calcareous, tight. No show.	
5160-5200	Shale as above, small amount fine grained, tight, white, calcareous sand.	
5200-5230	Shale, red-reddish brown, and shale, gray, brown, yellow mottled, firm. Red shale in part silty and grades to siltstone.	
5230-5250	No samples.	
5250-5350	Shale as above.	
5350-5370	No samples.	
5370-5420	Shale as above, with very scattered white, fine grained, tight sand.	
5420-5470	Shale as above, with increase white-reddish white, fine grained, tight sand. No show.	
5470-5520	Shale, with slight increase sand, white, fine grained, tight.	
5520-5570	Shale as above.	
5570-5620	Shale, red, with green-brown, and yellow, mottled in part, with very scattered limestone, brown, dense, and sand, fine grained, tight.	
5620-5640	Sand, white-clear, fine grained, friable, (loose in sample), sample has good porosity. No show.	

CUTTINGS - SAMPLE DESCRIPTION (continued)

<u>DEPTH</u>	<u>10' SAMPLES</u>	<u>LITHOLOGY (Samples not lagged)</u>
5640-5670	Sand, with shale, red, green, and in part silty, sand is loose. No show. (25-50% sand)	
5670-5700	Sand (50%) as above, and shale. No show.	
5700-5750	Shale, red, with green, brown, yellow, and mottled, with 10% sand, white, fine grained, calcareous, tight.	
LOG TOP - "GAS" SAND 5740 (+2800)		
5750-5760	With sand, white, fine grained and medium grained, tight clusters - slightly friable, and trace loose sand - fair porosity. Sand is calcareous in part. No show.	
Drilling break 5741-5747. Gas saturated. Best recorded value 2500 units. Stabilized at 2200 units. Shut down - gauged 1,379,000 CFGPD (best estimate).		
5760-5910	Shale, red, with green, maroon, brown and yellow. All soft to firm, silty in part.	
5910-6010	Shale, with very scattered white, fine grained, generally tight sand.	
6010-6060	Shale, red, with green-brown-maroon, soft-firm.	
6060-6110	Shale, red, with vari-colored shale.	
6110-6120	As above, with limestone, white, very fine crystalline-dense.	
6120-6150	Shale as above.	
6150-6160	Shale, with limestone, white, very fine crystalline-dense.	
6160-6200	Shale, red, with vari-colored.	
6200-6210	Missed.	
LOG TOP - 2 - B - 27 SAND 6236 (+1304)		
6210-6240	Shale, predominately red and green, soft-firm, in part subwaxy, with maroon, brown, yellow.	
6240-6260	Shale, with sand, white-clear, very fine grained-fine grained, loose in sample. No show.	
6260-6280	As above, with increase sand, white-clear, loose grains, sand is fine grained. No show.	

CUTTINGS - SAMPLE DESCRIPTION (continued)

<u>DEPTH</u>	<u>10' SAMPLES</u>	<u>LITHOLOGY</u> (Samples not lagged)
6280-6300	Shale, red and vari-colored, soft-firm.	
6300-6320	With sand, white-light gray, (50% sand), very fine grained-fine grained, calcareous, tight sand, and white-clear, fine grained, loose sand. No show. Fair ? porosity.	
6320-6350	As above, with 25% loose, fine-medium grained sand. No show.	
6350-6360	As above, with sand, white-gray, fine grained clusters, in part residue, sand clusters generally tight. No live show. No fluorescence.	
6360-6380	No samples.	
6380-6400	Shale, red predominately, with abundant green, with brown, maroon, and yellow, soft-firm. With sand, white, slightly salt and pepper, fine grained, calcareous, hard and tight.	
6400-6420	As above, with increase sand, with black residue in part, sand is tight.	
6420-6490	Shale, red and green, and vari-colored, with sand, white, slightly salt and pepper, fine grained, trace medium grained, calcareous, hard, tight. No show.	
6490-6510	As above.	
6510-6520	Shale, red-green, and vari-colored.	
6520-6530	Shale, with sand, white-clear, fine grained, loose-tight. No show.	
6530-6540	No sample in bucket.	
6540-6570	With sand, white, subangular, feldspar and quartz, loose, sample in part probably tight. No show. (increase sand to 60%)	
6580-6610	Shale and sand as above. Sand decrease. No show.	
6610-6620	No sample.	
6620-6660	Shale, red and green, samples very fine; shale is soft. Trace limestone, tan-brown, very fine crystalline.	
6660-6690	Shale, red-green, samples very fine, in part sandy.	

CUTTINGS - SAMPLE DESCRIPTION (continued)

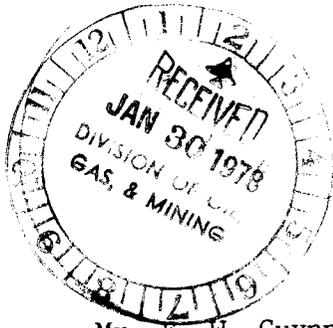
<u>DEPTH</u>	<u>10' SAMPLES</u>	<u>LITHOLOGY (Samples not lagged)</u>
	LOG TOP - MESAVERDE GROUP 6700 (+840)	
6690-6740	With sand, white-clear, fine grained, loose, samples almost mud, very fine, calcareous. No show.	
6740-6780	Shale, red-gray green, with vari-colored, firm, soft, with sand, white-clear, fine grained, tight. No show.	
6780-6800	With shale, red-very brick red, silty.	
6800-6820	Shale, gray-gray green, firm, with red and brown red shale, silty in part, with white-clear, fine grained, calcareous sand, abundant loose sand. Note: @ 6828' shutdown 2 days - convert from aerated lime water drilling fluid to chem-gel mud.	
6820-6830	No samples.	
6830-6850	Hole cleaning. Samples of no value. (Trace medium grained, white, salt and pepper sand.)	
6850-6870	Shale, green gray-gray, firm, with abundant vari-colored, increase maroon, brown, yellow, red and mottled. With trace white, fine-medium grained, subangular-subrounded, white, tight sand.	
6870-6890	Sand, white-clear, slightly tan, with abundant black grains, trace green, sand is angular-subangular, medium grained-trace coarse grained, very slightly friable, clay filled, trace calcareous. 10% light blue fluorescence, no cut, poor porosity-permeability. Poor show. (70 unit gas increase)	
6890-6910	25% sand as above, shale, green gray-gray, and vari-colored, with trace gray siltstone. No show.	
6910-6930	Sand, gray-white-clear, with black grains, fine grained-medium grained-coarse grained, angular-subangular, and subrounded, poor sorting in part, slightly calcareous, clay filled in part, poor porosity-permeability, trace light blue fluorescence, no cut. Poor show. (140 unit gas increase)	
6930-6960	Shale, green-gray and gray, with some vari-colored, firm-subwaxy, with thin sand stringers as above.	
6960-6980	Shale as above, with good (75% sand) increase white, medium grained, trace coarse grained sand, abundant black grains, salt and pepper, subangular-angular, clay filled, slightly calcareous, tight. No show.	

CUTTINGS - SAMPLE DESCRIPTION (continued)

<u>DEPTH</u>	<u>10' SAMPLES</u>	<u>LITHOLOGY</u> (Samples not lagged)
6980-7000	As above, decrease in sand to 25%, all hard, tight, white, salt and pepper.	
7000-7020	With sand, increase (75%), medium grained-trace coarse grained, subangular, salt and pepper, quartz cement.	
LOG TOP - KmV "400 FOOT SAND" 7032 (+508)		
7020-7050	Shale, gray, gray green, firm, silty in part, interbedded with sand, gray, fine grained, hard, tight. (Good increase sand 40-50. No show.)	
7050-7070	Sand, white-clear, salt and pepper, medium grained-coarse grained, subangular, very slightly friable, quartz, slightly clay filled, trace porosity, generally tight, quartz cement. 50% good greenish blue fluorescence, faint yellow cut, fair show. (40 unit gas)	
7070-7090	Shale and sand, interbedded, mostly shale, green gray-gray, firm, silty; with sand, white-clear, medium grained, hard, tight, quartz cemented, trace blue fluorescence.	
7090-7100	Shale, gray, gray green-green, subwaxy-waxy in part, with sand, gray, fine grained, subrounded, well sorted, dark grains, calcareous, hard, tight. Trace white, medium grained, slightly friable clay filled sand, with very scattered blue white fluorescence.	
7100-7110	As above, with increase gray, fine grained, sand, with siltstone, gray, and shale, gray, with sand grains embedded.	
7110-7120	Shale, gray, green gray, firm-subwaxy, sandy in part, and with siltstone, gray, firm.	
7120-7130	As above, with sand, gray, calcareous, fine grained, and shale, dark brown-black, very carbonaceous, lignitic, very slight cut.	
7130-7160	Sandstone, white-clear grains, with abundant black and trace green grains; sand is fine-medium grained, and with trace coarse grained, subrounded-subangular, occasionally trace black residue, slightly calcareous, clay filled, generally tight. Very poor porosity-permeability, trace blue white fluorescence. Poor show. (Drilling break 7138-7148') (50 unit gas increase)	
7160-7190	Shale, green, gray, and vari-colored, still with sand as above. No show.	
7190-7217	Shale, green gray-gray, with vari-colored, includes red, green, yellow; with sand, fine grained, trace medium grained, tight, calcareous. No show.	
Total depth		

PACIFIC TRANSMISSION SUPPLY COMPANY

COPY



January 25, 1978

f

Mr. E. W. Guynn
District Engineer
Geological Survey
8426 Federal Building
Salt Lake City, Utah

U-7968 Lease No.
T12S, R15E, Section 19
NE, NE

Re: Well No. 4-A-19
Stone Cabin Unit II
Carbon, Utah

Dear Mr. Guynn:

As per your request in your letter dated January 17, 1978 I am submitting to you three (3) copies of the Subsequent Report of Abandonment for the above captioned well.

Sincerely,
ORIGINAL SIGNED
BY
E. R. HENRY
E. R. HENRY

ERH/ja
Attachments

bc: Mono Power Company
Chorney Oil Company
Division of Oil, Gas & Mining