

Scout Report sent out

Noted in the NID File

Location map pinned

Approval or Disapproval Letter

IN UNIT

Date Completed, P. & A, or operations suspended

9-14-57 - SE

Pin changed on location map

Affidavit and Record of A & P

Water Shut-Off Test

Gas-Oil Ratio Test

Well Log Filed

*P & A on 5-3-61. (June 3, 1961)*

FILE NOTATIONS

Entered in NID File: \_\_\_\_\_

Entered On S R Sheet: \_\_\_\_\_

Location Map Pinned: \_\_\_\_\_

Card Indexed: \_\_\_\_\_

IWR for State or Fee Land: \_\_\_\_\_

Checked by Chief \_\_\_\_\_

Copy NID to Field Office \_\_\_\_\_

Approval Letter \_\_\_\_\_

Disapproval Letter \_\_\_\_\_

COMPLETION DATA:

Date Well Completed: 9/14/57

OW \_\_\_\_\_ WY \_\_\_\_\_ MA \_\_\_\_\_

OW \_\_\_\_\_ CE \_\_\_\_\_ PA \_\_\_\_\_

Location Inspected: WAC

Bond released \_\_\_\_\_

State of Fee Land \_\_\_\_\_

Driller's Log: 10/1/57

LOGS FILED

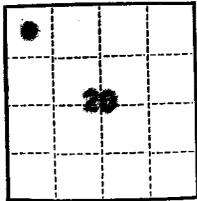
Electric Logs (No. 4)

Est.     M-L     E-I     G-R     G-M     Micro.

Other: Radioactivity

(SUBMIT IN TRIPLICATE)

Land Office SLE  
Lease No. UTAH 04821  
Unit Bluff Bench Unit



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	<input checked="" type="checkbox"/>	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....		SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....		SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....		SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

May 20, 1957, 19

**Bluff Bench**

Well No. 4 is located 660 ft. from N line and 660 ft. from W line of sec. 20

**NW NW Section 20**

(1/4 Sec. and Sec. No.)

**40S**

(Twp.)

**22E**

(Range)

**51N**

(Meridian)

**Bluff Bench WC**

(Field)

**San Juan**

(County or Subdivision)

**Utah**

(State or Territory)

The elevation of the derrick floor above sea level is ..... ft. **Not run yet.**

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Rotary drilling equipment will be used to drill to approximately 6900' to test the Mississippian formation. Surface casing: It is intended to drill to approx 1800' if no heavy water flows are encountered approx 700' of 10-1/4" casing will be set and cemented to the surface - if heavy flows are encountered sufficient casing will be set to insure a good shut off and cemented to surface. Oil string: 7" OD 2 3/4 J-55 as casing as required. Mud program: Native mud to approx 3500' and then convert to gyp or salt base mud as required. Brill stem tests: All oil and gas shows will be tested. Logs - electric logs etc will be run before setting casing or abandonment. A mud logging unit may be employed. Stimulation treatments such as hydraulic fracturing or acidizing may be employed in completion.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company The Carter Oil Company

Box 444

Address .....

Durango, Colorado

COPY (ORIGINAL FILED) B. M. BRADLEY

By .....

**B M BRADLEY**

Title District Superintendent

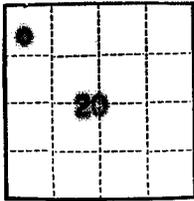


(SUBMIT IN TRIPLICATE)

Land Office SLC  
Lease No. 04821  
Unit Bluff Bench

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

*Noted  
Cart  
8-14-57*



SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....	SUBSEQUENT REPORT OF ALTERING CASING.....	
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NOTICE OF INTENTION TO PULL OR ALTER CASING.....	SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....	<u>Report of Setting Casing</u> .....	<input checked="" type="checkbox"/>

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

August 7, 1957, 19

Bluff Bench  
Well No. 4 is located 660 ft. from N line and 660 ft. from W line of sec. 20  
NW Section 20 10S 22E 31M  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)  
Bluff Bench W3 San Juan Utah  
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is \_\_\_\_\_ ft. 1054.9 ungraded

DETAILS OF WORK

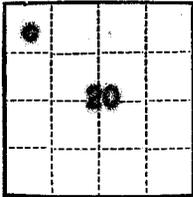
(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Spudded 6-17-57  
on 6-18-57: Ran 34' of 16" OD 65# H-40 mile casing, set at 48' BH and cemented with 50 sacks cement.  
On 6-23-57: Ran 111' of 10-3/4" OD 32.75# H-40 mile casing, set at 423' B.F. and cemented with 135 sacks regular cement with 2% jel and 1/4# flocula per sack and 75 sacks regular cement with 2% CaCl added, cement circulated OK, Maximum pressure 250#.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company The Carter Oil Company  
Address Box 444  
Durango, Colorado  
By B. M. Bradley  
Title District Superintendent

COPY (ORIGINAL STORED) B. M. BRADLEY



(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Land Office SLC  
Lease No. 04821  
Unit Bluff Bench

*Noted  
copy  
8-14-57*

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
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NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....	SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....	SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....	<b>Report of Drill Stem Tests</b>	<b>X</b>

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

August 7, 1957, 19

Bluff Bench  
Well No. 4 is located 660 ft. from [N] line and 660 ft. from [E] line of sec. 20  
NW NW Section 20 10S 22E SLM  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)  
Bluff Bench WC San Juan Utah  
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is \_\_\_\_\_ ft. 1054.9 Ungraded

DETAILS OF WORK

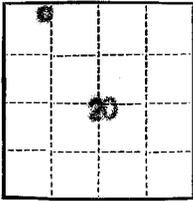
(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

- 7-16-57: DST #1 - TD 1092' packer at 1052', tool open 2 hrs, weak blow throughout test, recovered 510' drilling fluid, no shows. IFF 13%, FFP 215#, ISIP 150# in 20 minutes, FSIP 365# in 30 minutes, IHP 2500#, FIP 2500#.
- 7-24-57: DST #2 - TD 5324' packer at 5240', tool open 1/2 hrs, strong initial blow, gas to surface in 30 minutes continued thru test, 108 MCF to maximum 155 MCF, recovered 197' heavily gas cut mud, no show of oil. IFF 120#, FFP 135#, ISIP 135# in 20 minutes, FSIP 1008 for 35 minutes, IHP 2600#, FIP 2615#.
- ~~7-29-57: DST #3 - TD 5326' packer at 5330' tool open 1/2 hrs, weak initial blow continued thru test. Recovered 150' gas cut mud and 35' slightly oil & gas cut mud. IFF 0, FFP 0, ISIP 2125#, FSIP 200 for 30 minutes, IHP 2740, FIP 2720.~~
- 8-1-57 DST #4 - TD 5600' packer at 5499' tool open 2 hours, weak blow dead in 1 hr, recovered 70' drlg mud, no shows. IFF 40#, FFP 60#, ISIP 90# 20 minutes, FSIP 100# 30 minutes, IHP 2765, FIP 2765.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company The Carter Oil Company  
Address Box 444  
Durango, Colorado  
By B. M. Bradley  
Title District Superintendent

COPY (ORIGINAL SIGNED) B. M. BRADLEY



(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Land Office SLC  
Lease No. 04821  
Unit Bluff Bench Unit

*Noted  
Calk  
8-19-57*

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....	SUBSEQUENT REPORT OF ALTERING CASING.....	
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NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....	SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....	SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....	<b>Report of Drill Stem Tests</b>	<b>X</b>

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

August 13, 1957

Bluff Bench  
Well No. 4 is located 660 ft. from N line and 660 ft. from W line of sec. 20  
SW Section 20 10S 22E 61N  
(¼ Sec. and Sec. No.) (Twp.) (Range) (Meridian)  
Bluff Bench WC San Juan Utah  
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 4954.9 ft. Ungraded

DETAILS OF WORK

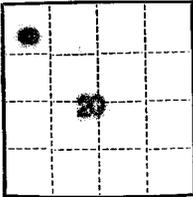
(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

8-3-57: DST #5-TD 5616' Tool opened at 4:30 A.M. with strong blow, decreased to very weak in 5 mins. By-passed tool, reopened with weak blow, gradually getting weaker. Died in 1 hour. Miaron-47' very heavy drilling mud.  
8-3-57: DST #6-TD 5600-5616' Tool opened at 9:40 A.M. weak blow. By-passed after 25 minutes, died in 50 minutes. By-passed after 1 hour 15 min. Tool opened dead. 60' drilling mud and cuttings. Miaron.  
8-3-57: DST #7-TD 5602-5616' Fair blow; died in 15 minutes; by-passed tool in 30 mins. weak blow; died in 12 minutes. 100' drilling mud. Miaron.  
8-5-57: DST #8-TD 5626' Tool opened with weak blow rapidly increasing to strong and lasting throughout test. Flammable gas reached surface in 25 mins. Interval tested consists of interbedded limestones and dolomites with no visible porosity. Bottom 9' is anhydrite. Spotty fluorescence on the sides of cutting and the lack of fluorescence on a fresh surface would indicate the reservoir to be a fracture system.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company The Carter Oil Company  
Address Box 444  
Durango, Colorado  
By B. M. Bradley  
Title District Superintendent

COPY (ORIGINAL SIGNED) B. M. BRADLEY



(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Land Office SLO

Lease No. Utah 04821

Unit Bluff Bench Unit

*Noted  
Case  
8-28-57*

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....	SUBSEQUENT REPORT OF ALTERING CASING.....	
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NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....	SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....	SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....	<u>Report of Setting Casing</u>	<u>X</u>

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

August 14, 1957

Well No. 4 is located 660 ft. from N line and 660 ft. from XXX line of sec. 20

NW NW Sec. 20 10S 22E SLM  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

Bluff Bench WC San Juan Utah  
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is \_\_\_\_\_ ft. 4954.9' Ungraded G.L.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Ran 12 jts. 7" OD 23# 8rd N-80, 393'; 55 jts. 7" OD 23# J-55, 1712'; 107 jts. 7" OD 20# J-55, 3453' and 1 jt. 7" OD 23# J-55, 39' set @ 5597'. Hesco pack off show @ 5600, Baffle ting @ 5564'. Twelve 5' sections of scratcher as follows: 5595-5585; 5570-5560'; 5490-5480; 5240-5230. Three centralizers @ 5580'; 5400'; and 5210'. Rotated & Circ. for 1 hour. Used 250 oz 50-50 Fomax with 3% Gel. Job completed @ 7:15 PM 8-8-57. Temp. Survey shows top of cement @ 4258'.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

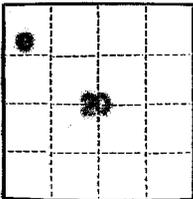
Company The Carter Oil Company

Address Box 444

Dunsmo, Colorado

By COPY (ORIGINAL SIGNED) B. M. BRADLEY

B. M. Bradley  
Title District Superintendent



(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Land Office SLC

Lease No. 04871

Unit Bluff Bench Unit

*Noted  
CMT  
8-19-57*

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....	SUBSEQUENT REPORT OF ALTERING CASING.....	
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NOTICE OF INTENTION TO PULL OR ALTER CASING.....	SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....	<u>Report of Setting Casing</u>	<u>I</u>

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

August 14, 1957

Bluff Bench  
Well No. 4 is located 600 ft. from N line and 600 ft. from W line of sec. 20

SW NW Section 20 LOS 22E SLM  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)  
Bluff Bench WC San Juan Utah  
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is \_\_\_\_\_ ft. 4954.9 ungraded

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

WOC on oil string. Ran 12 jts. 7" OD 2 3/8 rd" H-80, 393' net 5597-5204, 55 jts. 7" OD 2 3/8 J-55, 1712' 5204-3192, 107 jts. 7" OD 2 3/8 J-55, 3153' 3192-39', 1 jt. 7" OD 2 3/8 J-55 39-9'. Hoses pack off show 5600. Baffle ring 554, 12-5' section scraper 2-5595-85; 2-5570-60; 2-5190-8-; 2-5370-60; 2-5290-80; 2-5240-30. Ran 3 centralizers 5580; 5100; 5210. Rotated & Ctr. for 1 hr., 1 hr. set shoe, Cement used 250x 50-50 Pozmix with 3% Gal, Job Comp 7:15 PM 8-8-57. Temp survey shows top cement 258.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company The Carter Oil Company

Address Box 444  
Durango, Colorado

COPY (ORIGINAL SIGNED) B. M. BRADLEY  
By B. M. Bradley  
Title District Superintendent



FOLD

PLUGS AND ADAPTERS

Heaving plug—Material ..... Length ..... Depth set .....  
 Adapters—Material ..... Size .....

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from **SURFACE** feet to **5633** feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet  
 Cable tools were used from **NONE** feet to \_\_\_\_\_ feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet

DATES

~~SEPTEMBER 23,~~ ....., 19 ~~57~~  
 The production for the first 24 hours was **100** barrels of fluid of which **78**% was oil; \_\_\_\_\_% emulsion; **22**% water; and \_\_\_\_\_% sediment.  
 If gas well, cu. ft. per 24 hours ..... Gallons gasoline per 1,000 cu. ft. of gas .....  
 Rock pressure, lbs. per sq. in. ....

SHUT IN \* NO MARKET FOR OIL:

Put to producing ~~XXXXXXXXXXXX~~ **SEPTEMBER 14,** ....., 19 **57**

Gravity, °Bé. **37° API**

EMPLOYEES

~~TED BUNDETT~~ ....., Driller ..... ~~ED SINGLETARY~~ ....., Driller  
~~A. R. CHICK~~ ....., Driller ....., Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	1382	1382	BLUFF, SUMMERVILLE, ENTRADA, CARMEL, NAVAJO, KAYENTA, WINGATE (UNDIFFERENTIATED) * Inter-bedded sands and shales.
1382	2300	918	CHINLE - Red Siltstone, locally sandy or shaley.
2300	2397	97	MOENKOPI, SHINARUMP - Sandstone, white to pink, very coarse, angular.
2397	4332	1935	CUTLER - Shale, red, locally with thin limestone beds, bottom 2/3 with much anhydrite.
4332	5413	1081	HERMOSA - Limestone, locally cherty.
5413	5630	217	PARADOX - Limestone grading to dolomite near the base, scattered black shale partings throughout.
5630	5633	3	SALT.

NO. OF

LOGS

IN THIS RECORD

[OVER]

LOG SHEET

16-43094-4

FORMATION RECORD—Continued

0017 1951

W

(SUBMIT IN TRIPLICATE)

Land Office SIC  
Lease No. Utah 04821  
Unit Bluff Bench Unit

X			
	20		

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....		SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
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NOTICE OF INTENTION TO PULL OR ALTER CASING.....		SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....	X		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

May 8, 19 61

Bluff Bench Unit #4

Well No. 4 is located 660 ft. from N line and 660 ft. from W line of sec. 20

NW NW Section 20      40S      22E      SLM  
(4 Sec. and Sec. No.)      (Twp.)      (Range)      (Meridian)

Bluff Bench      San Juan      Utah  
(Field)      (County or Subdivision)      (State or Territory)

The elevation of the derrick floor above sea level is 4622 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

TD 5633'. 7" casing set @ 5597'. Open hole 5597-5633'. Perforations 5551-34; 5528-21'; 5485-79'; & 5471-65'; - 5399-86'; 5383-75' & 5372-66'. This is a notice of intention to plug and abandon the well as follows: Cut 7" casing @ 4200' and pull. Squeeze of perforations & open hole with cement plug from 5633' to 5300'. Cement plug from 4250' to 4150' (50' above & below casing cut off), Cement plugs from 1430 to 1330'; 530 to 400' (10-3/4" casing set @ 423'), and 30' to surface. Intervals between cement plugs will be filled with mud. A 4" dry hole marker extending 4' above ground level will be erected, pits filled and location cleaned.

The reason for this abandonment is: (1) Horizons now open are non-commercial. (2) Re-stimulation is not considered economically feasible. (3) All potential pay has been opened.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Humble Oil & Refining Company

Address P. O. Box 3082

Durango, Colorado

COPY (ORIGINAL SIGNED) B. M. BRADLEY

By \_\_\_\_\_

B. M. Bradley

Title Dist. Supt.

Copy to HC

Budget Bureau No. 42-R368.4  
Approval expires 12-31-60.

Form 9-381a  
(Feb. 1951)

(SUBMIT IN TRIPLICATE)

Land Office SIC  
Lease No. Utah 01821  
Unit Bluff Bench Unit

E			
	20		

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....		SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
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NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....		SUBSEQUENT REPORT OF ABANDONMENT.....	<input checked="" type="checkbox"/>
NOTICE OF INTENTION TO PULL OR ALTER CASING.....		SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

June 16, 1961

Bluff Bench Unit

Well No. 4 is located 660 ft. from N line and 660 ft. from W line of sec. 20

NW NW Section 20 LOS 22E S1M  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

Bluff Bench San Juan Utah  
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 4622 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

TD 5633'

Well has been plugged and abandoned as follows: Cement plugs - 5633-5300' with 80 sacks; 4250-4150' with 30 sacks; 1430-1330' with 40 sacks; 530-400' with 61 sacks; 30' to surface with 15 sacks. Intervals between plugs filled with mud. Regulation dry hole marker cemented in top of surface casing. 7" casing cut at 4200' and pulled from hole. Location has been cleaned, pits filled and is ready for inspection.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Humble Oil & Refining Company

Address P. O. Box 3082,  
Durango, Colorado

By COPY (ORIGINAL SIGNED) B. M. BRADLEY

Title B. M. Bradley  
Dist. Supt.

Carter Oil Co. #4 Bluff Bench  
C NW NW Sec. 20, T.40S., R.22E.  
San Juan County, Utah  
43-037-10512

Cuttings to 4400 feet.

Core chips (Box #B-803)

5395-96 Packstone principally (varies from wackestone to grainstone) light gray.

Local vuggy  $\emptyset$ , mostly associated with algal plates and other fossils. Leaching of algae and other fossils only partial. Porosity 5% or less, oil stained. Vugs partially filled with drusy calcite. Local fragments of crinoids.

96-97 Grainstone light gray, containing algal plates, unident. fossils and pellets, and fragmental carbonate (wackestone). Vuggy and inter-fragmental  $\emptyset$ , mostly the latter. Total  $\emptyset$  est.  $\leq$  5%. Oil stained. Vugs partially filled with drusy calcite. Algal (Ivanovia) plates locally stocked, but only several millimeters thick.

97-98 Grainstone to packstone, similar to above.

98-99 Packstone to wackestone. Contains considerable drusy calcite. Some inter-fragmented  $\emptyset$ , minor oil stain.

99-5400 Packstone to wackestone, A.A. Local apparent algal plates.

5400-01 Packstone to grainstone. only interfragmental  $\emptyset$ , with oil stain. Abundant columnar structures with local pentamerous symmetry. Probably stylolites.

Core (Box #B804)

5401-02 Packstone light gray, abundant fusulinidae and megafossils. Some inter-fragmental, pinpoint porosity. Oil-stained.

02-03 Packstone. Rare algal plates.

03-04 Packstone to wackestone; stylolites; no visible  $\emptyset$ .

04-05 Packstone, fossiliferous. Local bivalves, local apparent algal "leaves". No porosity, no oil stain.

05-06 Packstone to grainstone, fossiliferous. Local carbonate clasts. Pinpoint and tiny ( $\pm$  1/5 mm diam) vugular porosity. Oil stained. Net porosity appears minor.

06-07 Packstone to grainstone, a.a. local megafossils. No  $\emptyset$ , no o.stn.

07-08 Packstone, abundant stylolites.

08-09 Packstone, local megafossils and apparent algal plates.

09-10 Packstone.

10-11 Limestone, Brownish gray, Packstone to grainstone, local megafossils.

11-12 Packstone, a.a. local coral fragments.

12-13 Packstone, a.a. Abundant stylolites with slickensides.

Base of Ismay zone 5415  
Core continues to 5425 in black shale.  
No core for Desert Creek zone in UGMS library.

NOTE: only 5 to 6 feet algal plate development.

Samples examined by J.A. Campbell, 11/78