

- Scout Report sent out
- Noted in the NID File
- Location map pinned
- Approval or Disapproval Letter
- Date Completed, P. & A. or operations suspended
- Pin changed on location map
- Affidavit and Record of A & P
- Water Shut-Off Test
- Gas-Oil Ratio Test
- Well Log Filed

7-24-58 TA June Report of Operations

P & A on 5-27-61

FILE NOTATIONS

- |                              |                                     |                          |                                     |
|------------------------------|-------------------------------------|--------------------------|-------------------------------------|
| Entered in NID File          | <input checked="" type="checkbox"/> | Checked by Chief         | <input checked="" type="checkbox"/> |
| Entered On S R Sheet         | <input checked="" type="checkbox"/> | Copy NID to Field Office | <input checked="" type="checkbox"/> |
| Location Map Pinned          | <input checked="" type="checkbox"/> | Approval Letter          | <input checked="" type="checkbox"/> |
| Card Indexed                 | <input checked="" type="checkbox"/> | Disapproval Letter       | <input type="checkbox"/>            |
| I.W.R. for State or Fee Land | <input type="checkbox"/>            |                          |                                     |

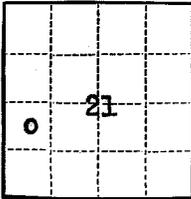
COMPLETION DATA:

Date Well Completed 7-23-58 Location Inspected KHC  
 OW..... V/W..... TA..... Bond released.....  
 GW..... OS..... PA..... State of Fee Land .....

LOGS FILED

Driller's Log 7-4-58  
 Electric Logs (No. ) 5  
 E..... I..... E-I ..... GR..... GR-N ..... Micro.....  
 Lat..... Mi-L (20) Sonic..... Others Radiation (20)

Subsequent Property Record Temperature Survey (20)



(SUBMIT IN TRIPPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Land Office SIC  
Lease No. 04821  
Unit Bluff Bench

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)

Bluff Bench Unit March 6, 1958, 19

Well No. 7 is located 1980 ft. from N line and 660 ft. from W line of sec. 21

NW SW Section 21 40S 22E SLM  
(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 4535.9' Ungraded ground

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 5600' to the Paradox Salt Formation. Surface Casing: Approximately 400' of 8-5/8" OD smls casing cemented to the surface. Oil String: Required amount of 5 1/2" OD 15.5# & 1 1/4" J-55 smls casing cemented with required amount of cement. Mud Program: Conventional and/or salt or gyp base mud as required. Drill Stem Tests: All oil and gas shows will be tested. Logs: Electric logs etc will be run before setting casing or abandonment. Stimulation treatments such as acidizing or hydraulic fracturing 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  
Address Box 3082  
Durango, Colorado

By B M Bradley  
Title District Superintendent

LEASE PLAT & PIPE LINE DATA

DIV. NO. \_\_\_\_\_ BLOCK NAME \_\_\_\_\_ LEASE NO. \_\_\_\_\_

LESSOR \_\_\_\_\_

TOTAL ACCUMULATED INTEREST \_\_\_\_\_

STATE UTAH COUNTY SAN JUAN SEC 21 T 40S R 22E ACRES \_\_\_\_\_

DESCRIPTION AND INTEREST: \_\_\_\_\_

PROPOSED LOCATION

BLUFF BENCH UNIT #7

IF USED FOR PIPE LINE DIAGRAM — PLEASE SUPPLY THE FOLLOWING INFORMATION

Total Length and Size of Pipe Laid \_\_\_\_\_ Pipe Transferred From \_\_\_\_\_

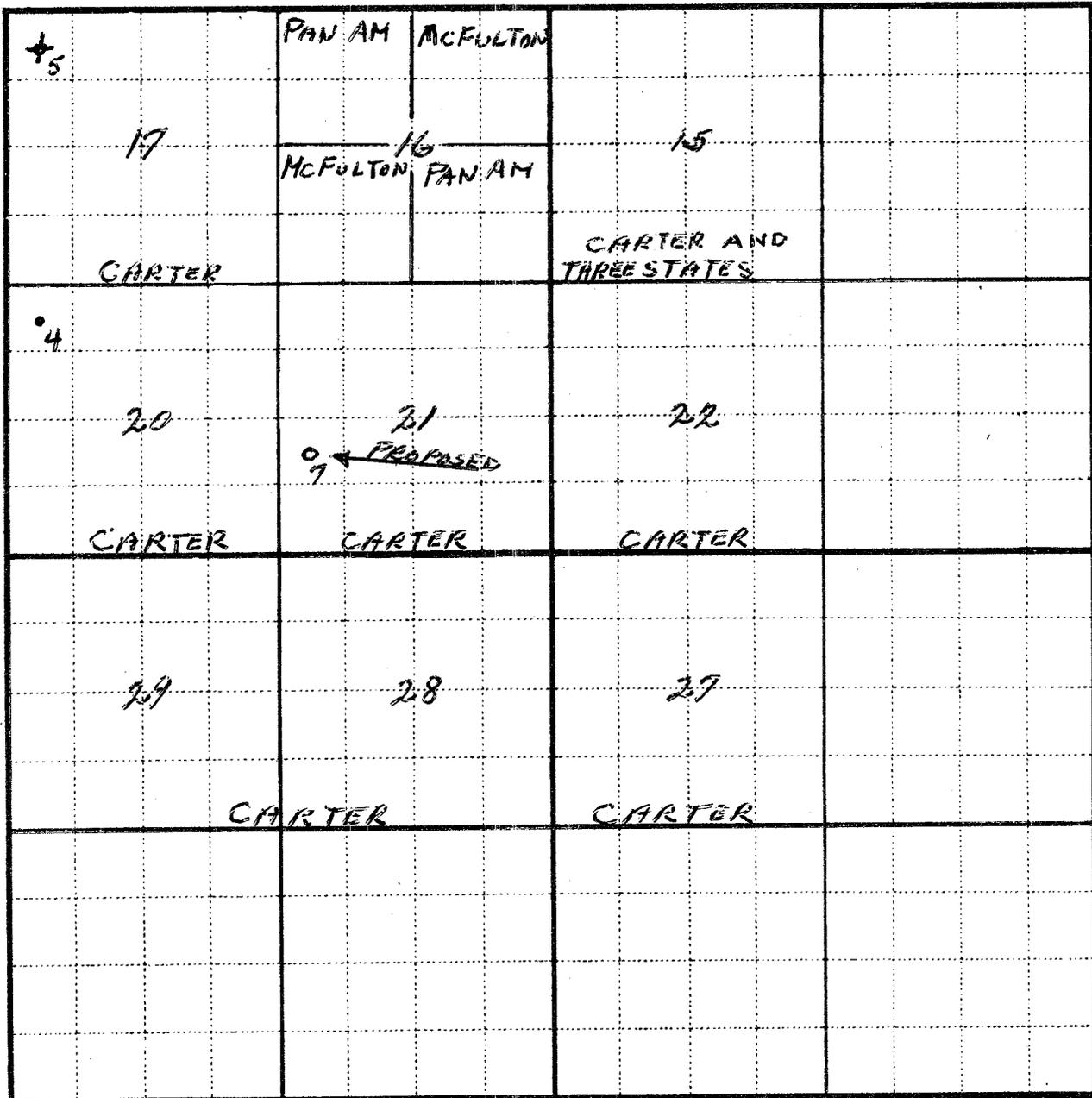
Total Length and Size of Pipe Taken Up \_\_\_\_\_ Pipe Transferred to \_\_\_\_\_

Depth Buried \_\_\_\_\_ Painted \_\_\_\_\_ Screw, Welded or Coupled \_\_\_\_\_ List Fittings (on back of this sheet if necessary)

Date \_\_\_\_\_ District \_\_\_\_\_ Farm or Plant \_\_\_\_\_

Signed \_\_\_\_\_

(Mail to Engineering Department - Tulsa)



When used as 1/4" Section Scale, 1" = 400'

When used as Section Scale, 1" = 800'

When used as 4 Sections Scale, 1" = 1600'

Place check mark after scale used.

Plat made by \_\_\_\_\_ Date \_\_\_\_\_

1/2" Base Map \_\_\_\_\_ Date \_\_\_\_\_

Plat Book (Pend.) \_\_\_\_\_ Date \_\_\_\_\_ (Comp.) \_\_\_\_\_ Date \_\_\_\_\_

Block Map (Pend.) \_\_\_\_\_ Date \_\_\_\_\_ (Comp.) \_\_\_\_\_ Date \_\_\_\_\_

Block Map Tr. (Pend.) \_\_\_\_\_ Date \_\_\_\_\_ (Comp.) \_\_\_\_\_ Date \_\_\_\_\_

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

LAND OFFICE SLO  
LEASE NUMBER 04821  
UNIT Bluff Bench

**LESSEE'S MONTHLY REPORT OF OPERATIONS**

71-4  
7-9

State Utah County San Juan Field Bluff Bench WU

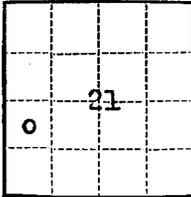
The following is a correct report of operations and production (including drilling and producing wells) for the month of June, 1958,

Agent's address P. O. Box 3082 Company The Carter Oil Company  
Durango, Colorado

Phone CH 7-0210 Signed COPY (ORIGINAL) Agent's title CHAS. C. JOHNSON

| SEC. AND 1/4 OF 1/4 | TWP.  | RANGE | WELL NO.  | DAYS PRODUCED | BARRELS OF OIL | GRAVITY | CU. FT. OF GAS (In thousands) | GALLONS OF GASOLINE RECOVERED | BARRELS OF WATER (If none, so state) | REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas) |
|---------------------|-------|-------|-----------|---------------|----------------|---------|-------------------------------|-------------------------------|--------------------------------------|--|
| Sec. 21 NW SW       | Bluff | Bench | 408 22E 8 |               |                |         |                               |                               |                                      | Spudded 6-4-58<br>Trlg. 4895'  |

NOTE.—There were 0 runs or sales of oil; 0 M cu. ft. of gas sold;  
0 runs or sales of gasoline during the month. (Write "no" where applicable.)  
NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.



(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Land Office SLC  
Lease No. 04821  
Unit Bluff Bench

SUNDRY NOTICES AND REPORTS ON WELLS

|   |   |   |  |
|---|---|---|--|
| NOTICE OF INTENTION TO DRILL.....                   |   | SUBSEQUENT REPORT OF WATER SHUT-OFF.....        |  |
| NOTICE OF INTENTION TO CHANGE PLANS.....            | X | 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)

June 3, 1958, 19

Bluff Bench Unit

Well No. 8 is located 1980 ft. from S line and 660 ft. from W line of sec. 21

NW SW Section 21      40S      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~~ <sup>ground</sup> above sea level is 4535.9 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)

Request permission to change the above located well number from 7 to 8 (Eight), Tennessee Gas is drilling a well in Section 21-39S-22E and has named it Bluff Bench #7, as Carter has an interest in the Tennessee Gas well and should the well numbers remain the same considerable confusion would result in keeping the reports and data separated.

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  
Production Department  
Address Box 3082  
Durango, Colorado

**COPY (ORIGINAL SIGNED) B. M. BRADLEY**

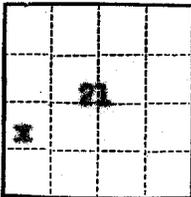
By B M Bradley  
Title District Superintendent

(SUBMIT IN TRIPLICATE)

Land Office SLC

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.....                   | 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.....           | XX |
| 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. 8 is located 1980 ft. from XX [S] line and 660 ft. from XX [W] line of sec. 21

NW SW Section 21  
(¼ Sec. and Sec. No.)

LOS  
(Twp.)

22E  
(Range)

S1M  
(Meridian)

Bluff Bench  
(Field)

San Juan  
(County or Subdivision)

Utah  
(State or Territory)

The elevation of the derrick floor above sea level is 4552 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 5585'.

Well has been plugged and abandoned as follows: Cement plugs - 4270-4170' with 15 sacks; 1400-1300' with 25 sacks; 517-390' with 35 sacks; 30' to surface with 10 sacks. Squeezed 14 sacks cement into perforations between 5400-5300'. Intervals between plugs filled with mud. Regulation dry hole marker cemented in top of surface casing. 4-1/2" casing cut at 4220' 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 3062,

Durango, Colorado

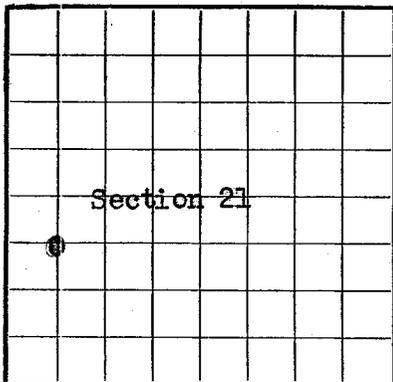
By COPY (ORIGINAL SIGNED) B. M. BRADLEY

Title B. M. Bradley  
Dist. Supt.

12

**STATE OF UTAH  
OIL & GAS CONSERVATION COMMISSION**

State Capitol Building  
Salt Lake City 14, Utah



LOCATE WELL CORRECTLY

To be kept Confidential until \_\_\_\_\_  
(Not to exceed 4 months after filing date)

**LOG OF OIL OR GAS WELL**

Operating Company The Carter Oil Company Address P. O. Box 3082, Durango, Colorado  
 Lease or Tract: Bluff Bench Unit Field Bluff Bench WC State Utah  
 Well No. 8 Sec. 21 T. 40S R. 22E Meridian SIM County San Juan  
 Location 1980 ft. N of S Line and 660 ft. E of W Line of Section 21 Elevation 4552  
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Date August 28, 1958 Signed B. M. Bradley Title District Supt.

The summary on this page is for the condition of the well at above date.

Commenced drilling June 4, 1958 Finished drilling July 16, 1958  
**COMPLETED: July 24, 1958**

**OIL OR GAS SANDS OR ZONES**

*(Denote gas by G)*

No. 1, from 5344 to 5376 No. 4, from \_\_\_\_\_ to \_\_\_\_\_  
 No. 2, from \_\_\_\_\_ to \_\_\_\_\_ No. 5, from \_\_\_\_\_ to \_\_\_\_\_  
 No. 3, from \_\_\_\_\_ to \_\_\_\_\_ No. 6, from \_\_\_\_\_ to \_\_\_\_\_

**IMPORTANT WATER SANDS**

No. 1, from None to \_\_\_\_\_ No. 3, from \_\_\_\_\_ to \_\_\_\_\_  
 No. 2, from \_\_\_\_\_ to \_\_\_\_\_ No. 4, from \_\_\_\_\_ to \_\_\_\_\_

**CASING RECORD**

| Size casing | Weight per foot | Threads per inch | Make | Amount | Kind of shoe | Cut and pulled from | Perforated |      | Purpose    |
|-------------|-----------------|------------------|------|--------|--------------|---------------------|------------|------|------------|
|             |                 |                  |      |        |              |                     | From-      | To-  |            |
| 13-3/8      | 35.6            | Spiral Weld      |      | 73     | None         | None                | -          | -    | -          |
| 8-5/8       | 24              | 8 rd             | H-40 | 397    | Baker        | None                | -          | -    | -          |
| 4-1/2       | 11.6            | 8 rd             | J-55 | 1459   | (Baker)      | None                | 5344       | 5376 | Production |
| 4-12        | 9.5             | 8rd              | J-55 | 4165   |              |                     |            |      |            |

**MUDDING AND CEMENTING RECORD**

| Size casing | Where set | Number sacks of cement | Method used | Mud gravity | Amount of mud used |   |
|-------------|-----------|------------------------|-------------|-------------|--------------------|---|
|             |           |                        |             |             |                    |   |
| 13-3/8      | 73        | 75                     | Halliburton | -           | -                  | - |
| 8-5/8       | 408       | 267                    | Halliburton | -           | -                  | - |
| 4-1/2       | 5583      | 200                    | Halliburton | -           | -                  | - |

W

**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 5585 feet, and from - feet to - feet  
 Cable tools were used from None feet to - feet, and from - feet to - feet

**DATES**

August 28, 1958 Put to producing on test: July 23, 1958

The production for the first 24 hours was 264 barrels of fluid of which 100 % was oil; - % emulsion; - % water; and - % sediment. Flow thru 3/8" Choke.  
 Gravity, °Bé. 40.6° API

If gas well, cu. ft. per 24 hours ..... Gallons gasoline per 1,000 cu. ft. of gas .....  
 Rock pressure, lbs. per sq. in. ..... Est. GOR - 600:1

**EMPLOYEES**

....., Driller ..... Driller  
 ..... Driller ..... Driller

**FORMATION RECORD**

| FROM—                     | TO—  | TOTAL FEET | FORMATION  |
|---------------------------|------|------------|--|
| Surface                   | 517  | 517        | SAN RAFAEL GROUP: Interbedded red sandstone & red shale.   |
| 517                       | 1345 | 828        | GLEN CANYON GROUP: Red sandstones.   |
| 1345                      | 2260 | 915        | CHINLE: Interbedded sandstones & silty shales becoming very calcareous near the base with much limestone.                  |
| 2260                      | 4300 | 2040       | CUTLER: Predominantly red shale with thin streaks sandstone, much anhydrite in lower portion.                              |
| 4300                      | 5203 | 903        | HERMOSA: Upper 2/3 interbedded gray & brown shales & dense limestone. Lower 1/3 dense light gray limestone locally cherty. |
| 5203                      | 5377 | 174        | A <sub>2</sub> : Limestone, gray, dense, locally cherty, locally fossiliferous.  |
| 5377                      | 5585 | 208        | PARADOX: Limestone & dolomite interbedded with traces anhydrite & black shale.   |
| <u>FROM ELECTRIC LOGS</u> |      |            |  |

[OVER]

At the end of complete Driller's Log, add Geologic Tops. State whether from Electric Logs or samples.

W

1958  
 SEP 4

## HISTORY OF OIL OR GAS WELL

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "sidetracked" or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or hauling.

Spudded well 6-4-58. Drilled & reamed 17 $\frac{1}{4}$ " hole to 85'. Set 73' of 13-3/8" Spiral Weld Casing @ 73' with 75 sacks cement. Drilled & reamed 12 $\frac{1}{4}$ " hole to 427'. Set 397' of 8-5/8" OD, 24#, H-40 Casing @ 408' with 267 sacks cement. Drilled 6-3/4" hole to TD of 5585'. Set 5624' of 4 $\frac{1}{2}$ " OD, J-55, 11.6# & 9.5# Casing @ 5583' with 200 sacks cement.

CORE #1: 5351' to 5382'. Cut 31', recovered 25'. 25' limestone, skeletal & detrital, with 14' of good vugular porosity & stain.

CORE #2: 5436' to 5485'. Cut 49', recovered 36'. Interbedded dolomite, shale, anhydrite & silt. 5' with spotty fluorescence, no visible porosity.

CORE #3: 5485' to 5526'. Cut 41', recovered 54' (13' from Core #2). Interbedded dolomite, limestone, shale, anhydrite & silt. No visible porosity, no show.

DST #1: 5333' to 5353'. Tool open 1 hour. Good blow immediately, gas to surface in 5 minutes, in 15 minutes gauged 391,000 cu. ft. per day. Oil to surface in 28 minutes flowing at rate of 15 barrels per hour. Grindout .1% BS, gravity 39.5. IHP 2800#, 1 hour ISIP 2140#, IFP 260#, FFP 475#, 1 hr. 20 min. FSIP 2125#, FHP 2775#.

DST #2: 5350' to 5382'. Tool open 2 hours 35 minutes. Gas to surface in 2 minutes, oil to surface in 25 minutes. Flowed 19 barrels oil per hour, 40.4 gravity, no water, est. 500,000 cu. ft. gas per day. HP 2755#, 70 minute ISIP 2085#, IFP 435#, FFP 580#, 2 hour FSIP 2070#.

COMPLETION: PBSD 5523'. Perforated 5344' to 5376' with 4 shots per foot. Ran tubing & treated with 250 gallons MCA, max. press. 1900#, min. press. 1400#, average injection rate 0.6 barrels per minute. Swabbed and flowed back load oil and acid water. Then treated with 2000 gallons regular 15% acid, max. press. 2000#, min. press. 1400#, average injection rate 1.4 barrels per minute. Flowed well to clean up & then flowed on 6 hour test through 3/8" choke at rate of 264 barrels oil and no water per day. Tubing pressure 100#, casing pressure 500#, Estimated GOR 600:1, gravity of oil 40.6 @ 60°.

Completed in Hermosa A<sub>2</sub> formation from perforations 5344-5376'. Completed 7-24-58.

(SUBMIT IN TRIPLICATE)

Land Office **SIC**

Lease No. **04821**

Unit **Bluff Bench Unit**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

|   |    |  |  |
|---|----|--|--|
|   |    |  |  |
|   |    |  |  |
| X | 21 |  |  |
|   |    |  |  |

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.....       |  |
| 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.....            | <b>XX</b> |   |  |

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

May 8, 19 61

Bluff Bench Unit

Well No. **8** is located **1980** ft. from **XX** line and **660** ft. from **XX** line of sec. **21**

**NW SW Section 21**  
( $\frac{1}{4}$  Sec. and Sec. No.)

**40S**  
(Twp.)

**22E**  
(Range)

**SLM**  
(Meridian)

**Bluff Bench**  
(Field)

**San Juan**  
(County or Subdivision)

**Utah**  
(State or Territory)

The elevation of the derrick floor above sea level is **4552** 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 5585'. PBD 5523'.  $4\frac{1}{2}$ " casing set @ 5583'. Perforations 5376-44'. This is a notice of intention to plug and abandon the well as follows: Cut  $4\frac{1}{2}$ " casing at 4200' and pull. Squeeze perforations with cement plug from 5400 to 5300'. Cement plug from 4250 to 4150' (50' above & below casing cut). Cement plugs 1400 to 1300'; 517 to 390' ( $8\text{-}5/8$ " casing set @ 408'), and 30' to surface. Intervals between cement plugs to 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) Well is non-commercial and re-stimulation is not considered economically feasible.

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**  
B. M. Bradley  
Title **Dist. Supt.**



THE STATE OF UTAH  
OIL & GAS CONSERVATION COMMISSION

310 NEWHOUSE BUILDING  
10 EXCHANGE PLACE  
SALT LAKE CITY 11

PETROLEUM ENGINEERS

ROBERT L. SCHMIDT  
CHIEF ENGINEER  
SALT LAKE CITY

H. L. COONTS  
BOX 266  
MOAB, UTAH

COMMISSIONERS  
C. R. HENDERSON  
CHAIRMAN  
M. V. HATCH  
C. S. THOMSON  
E. W. CLYDE  
W. G. MANN  
EXECUTIVE SECRETARY  
C. B. FEIGHT

June 22, 1961

|     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|
| BWR | JAB | JMR | DMC | MLF | MMF | MSR |
| AOG |     |     |     |     |     | WS  |
| LHM |     |     |     |     |     | MWP |
| AFJ |     |     |     |     |     | RTW |
| CCJ |     |     |     |     |     | WVW |
| JAL |     |     |     |     |     | QMC |
| JML | BCP | EES | JLS | MDS | SS  | ELE |

RECEIVED  
JUN 23 1961  
Durango District Office

Humble Oil & Refining Company  
P. O. Box 3082  
Durango, Colorado

Attn: B. M. Bradley, Dist. Supt.

Gentlemen:

We would like to thank you for the Subsequent Reports of Abandonment you furnished us for Wells No. Bluff Bench Unit 4, Bluff Bench Unit 8 and Bluff Bench Unit 12. However, no specific plugging and abandoning date was entered on these records.

We would very much appreciate your sending us the above mentioned information for said three wells.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

ANN W. GLINES,  
RECORDS CLERK

AWG Dates for abandoning the above wells are as follows:  
Bluff Bench Unit # 4 - June 3, 1961  
Bluff Bench Unit # 8 - May 27, 1961  
Bluff Bench Unit #12 - May 19, 1961

Humble Oil & Refining Company  
June 23, 1961

Carter #8 Bluff Bench  
NW SW Sec. 21, T.40S., R.22E.  
San Juan County, Utah

43-037-10515

5 - foot sample intervals - above 5300 → 5350  
Lower-Ismay zone 5325 - 5380

5330-34

5335-40

5340-45

5345-50 Samples slightly oily (resist wetting).

5350-52 Missing

5353 (circ., 30 min) Spls Sli oily (resist wetting).

Light-colored wackestone with secondary sparry calcite cement. Local fossiliferous carbonate with fossils and pellets - lithology approaches a packstone.

5351- Core chips:

5351-52 Fossiliferous packstone to grainstone. Localized vuggy porosity is filled in part with secondary calcite. Oil Stain indicates  $\emptyset$  of 10-15%. Local probable Ivanovia sp.

5152-53 Fossiliferous packstone to grainstone with local vuggy porosity. Most of  $\emptyset$  associated with secondary porosity associated with stacked algal plates (Ivanovia). Vugs partially filled with xln calcite. Localized oil stain.

5153-54 a.a. abundant oil stain.

5154-55 a.a. " " "

5155-56 a.a. " " "

5156-57 a.a. " " "

5357-58 Fossiliferous wackestone to packstone  
Very little.  $\emptyset$  - no oil stain.

5358-59 missing

5359-60 Similar to 52-53.

5360-61 Packstone. Some algal plates and o.stn.

5361-62 Packstone/Grainstone. Some vug development assoc. w/algal plates but 90% of original vug devel. filled with sparry calcite.  
Surviving vugs are surrounded by calcite xls.

5362-63 a.a. Better  $\emptyset$ , Best observed - est. 20-25% development (in chips provided)  
Much o. stn.

5363-64 Wackestone to mudstone. Some algal plates development but no  $\emptyset$ , no o stn.

5364-65 Mudstone to wackestone, paper-thin laminations, no  $\emptyset$ , no oil stain.

5365-66 Packstone/grainstone 15%  $\emptyset$  and oil stain

Localized algal plates - not pervasive.

Secondary calcite still present.

5366-67 Chips dominated by sparry calcite. Loc o stn.

5367-68 Packstone to grainstone. Abundant small pellets w/local possible algal plates. Some Wackestone Rel. large vugs w no obvious lithologic control  
0-20% Ø

5368-69 Wackestone - pellets and fragmental fossils no algal plates. no Ø no o stn

5369-70 a.a.

5370-71 Mudstone. Abundant stylolites.

5371-72 Wackestone, a.a.5368-69

5372-73 Wackestone, fossiliferous. Whole brachiopods, with oil stain at shell/mud interface. Old vugs filled with sparry calcite.

5373-74 Wackestone a.a., with brachiopods. No oil stain, no Ø.

5374-75 a.a.

5375-76 Wackestone. Microfossils and pellets. some small fossil voids (leached?) filled with calcite no Ø no oil stain.

5376-77 Wackestone to packstone. Some Ivanovia "leaves", no Ø, no oil stain.

5377 End of core chips  
7 feet missing

5385 5 ft. Sample intervals resume

Note: Approx. 9 to 10 feet of apparent Algal Plate development.

DESERT CREEK ZONE 5430-5535

5' sample intervals 5430-36 (not examined)

Core chips 5436-5469.

- 5436-37 Dolomite mudstone, med-dark brownish-gray. Finely laminated.  
No  $\emptyset$ ; oily (resists wetting)
- 5437-38 Dolomite, a.a.  
5438-39 a.a.  
5439-40 a.a.  
5440-41 a.a.
- 5441-42 Dolomite, med. gray, xln. Resists attack by dilute HCl.
- 5442-43 a.a.  
5443-44 a.a.  
5444-45 a.a.  
5445-46 a.a.  
5446-47 a.a.  
5447-48 a.a.
- 5448-49 Dolomite a.a. Structure suggests recrystallization of an older, primary structure. May have been fossiliferous packstone to grainstone.
- 5449-50 Dolomite, wackestone, dark gray. Pore filling with sparry calcite filling of algal plate structures.
- 5450-51 Dolomite, wackestone, dark gray.
- 5451-52 Dolomite, dark gray a.a.
- 5452-53 missing
- 5453-54 Dolomite dark gray a.a.
- 5454-55 a.a.  
5455-56 a.a.
- 5456-57 Limestone: Mudstone to wackestone, dark brownish-gray, very thinly laminated, fossils, pellets not identifiable.
- 5457-58 ls a.a.  
5458-59 ls a.a.  
5459-60 ls a.a.
- 5461-69 not examined

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