

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 6-3-61
 OW _____ WW _____ TA _____
 GW _____ OS _____ PA

Location Inspected _____
 Bond released _____
 State of Fee Land _____

LOGS FILED

Driller's Log
 Electric Logs (No.) 2
 E 3 I _____ E-I _____ GR _____ GR-N _____ Micro 3
 Lat _____ Mi-L _____ Sonic _____ Others _____

Handwritten signature/initials

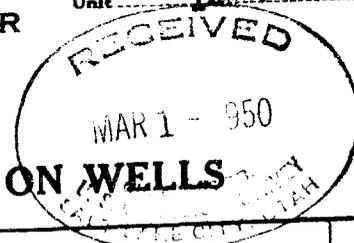
Form 9-331a
(March 1942)

Budget Bureau No. 42-R288.1
Approval expires 11-30-49.

(SUBMIT IN TRIPLICATE)

Land Office Uintah & Ouray
Lease No. Ute Tribe
Unit 109-Ind-5347

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 REDRILLING 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)

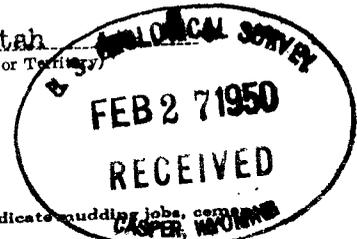
Bluebell

February 24, 1950

Well No. 1 is located 1955 ft. from NS line and 690 ft. from EW line of sec. 6

NE-SE Section 6 1S 2W
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Wildcat Duchesne County, Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is _____ 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)

It is proposed to drill this well to a depth of approximately 10,000' to test the Green River formation. Casing program will consist of approximately 1000' of 16" surface pipe and 7" oil string to required depth.

(SEE ATTACHED RIDER FOR APPROVAL)

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 120

Denver 1, Colorado

By COPY ORIGINAL SIGNED E. A. POLORELL, JR.

Title Division Engineer

STATUS: 100' - T.D. 12,518' (Co. reports)

REMARKS: DST 11,110-10,072' open 2 hrs. ^{March 51} Recovered
180' drilling fluid. FFP 100#, SI SIP 180#.

DST 12,288-354', open 2 hrs. 45 mins. Good blow.

Recovered 95' approx. 2% oil-cut drilling fluid.

IFP 110#, FFP 160#, SI SIP 200#. Preparing to run

and cement 7" casing to approx. 11,140' then test

to T.D. Other intervals to be tested by perforating

will be from 10,737-787', 10,485-525', and 10,083-

186'.

STATUS: Drg - T.D. 12,518' (Co. reports)

REMARKS: 7" cc at 11,138' w/350 sax. DST, packer at ^{April 51}
11,125', tool open 2 hrs. Recovered 2010' drilling

fluid very slightly oil and gas-cut. IFP 180#, FFP

960#, SIP 780#. PB to 11,895' w/225 sax. Acidized

11,138-895' w/5000 gals. Swabbed 4 m/H water from

8700'. 95 sax cement 11,060-400'. Perforated

10,481-520' w/468 shots. Packer 10,455', tool open

3 hrs. Recovered 180' very heavily emulsified oil,

450' very slightly oil and gas-cut mud. No pressures

STATUS: Abd - T.D. 12,518' (Co. reports)

REMARKS: DRY HOLE OR FAILURE. Received permission to

P&A. Drilling ceased 3-7-51. Lowest tested, Wasatch.

Squeezed 56 sax below retainer at 10,100'. Started

cutting 7" casing at 6010'. Worked back up hole

getting pipe loose at 3016'. Pulled same. Spotted

40 sax cement 980' back into surface pipe at 930',

15' cement at surface. Marker erected, and location

cleaned up. Will drop from report until final inspection.

heavily gas-cut water with slight oil cut. IFP
200#, FFP 1325#, SIP 3850#. DST 10,485-525' open
2 hrs. Recovered 600' oil and mud, approx 50/50%.
IFP and FFP 300#, SIP 3500#. DST 10,591-643' open
1½ hrs. Recovered 2100' fluid, top 180' drilling mud,
remainder oil, gas, and mud-cut fresh water. IFP
425#, FFP 1050#. Shut-in not obtained.

6-18-2W

BLUEBELL (UNIT) - Duchesne County
C SWINE, The Carter Oil Company Well No. 1 (Uintah
& Ouray Tribal 5347), Ref. No. 1

DEC 1950

STATUS: Drg - T.D. 11,118' (Co. reports)

REMARKS: DST 10,826-917' open 1 hr. Recovered 510'
drilling mud. IFP 0#. FFP and SIP 150#. Coring ahead

✓ STATUS: Drg - T.D. 11,692' (Co. reports)

REMARKS: DST 11,155-235' open 1 hr. Recovered 335'
drilling fluid w/slight gas-cut and oil-cut on top.

IFP 190#, FFP 225#, SIP 950#. DSTs made 11, 345' and
11,400'. Results not yet reported. Preparing to make

Jan. 51

DST at T.D. Tentative top Wasatch 11,650'.

STATUS: Drg - T.D. 12,072' (Co. reports)

REMARKS: DST 11,349-400' open 1 hr. Recovered 300'

Feb. 51

drilling mud w/slight oil and gas-cut. Top 10' fairly

heavy oil-cut. IFP 225#, FFP 225#. DST 11,398-551'

open 2 hrs. Recovered 645' drilling fluid w/slight

oil-cut in upper 90'. IFP 20#, FFP 340#. DST 11,558-692'

open 1 hr. 55 mins. Recovered 1000' mud and fresh water.

IFP 0#, FFP 400#, SIP 3980#. DST 11,732-873' open 1 hr.

35 mins. Recovered 285' drilling fluid, no oil or gas.

IFP 50#, FFP 120#, SIP 150#. Tentative top Wasatch

11,650'. Preparing to make DST at T.D.

heavily gas-cut water with slight oil cut. IFF
200#, FFP 1325#, SIP 3850#. DST 10,485-525' open
2 hrs. Recovered 600' oil and mud, approx 50/50%.
IFF and FFP 300#, SIP 3500#. DST 10,591-643' open
1 1/2 hrs. Recovered 2100' fluid, top 180' drilling mud,
remainder oil, gas, and mud-cut fresh water. IFF
425#, FFP 1050#. Shut-in not obtained.

6-18-38

BLAKEHILL (UNIT) - Duchesne County
C SWANEY, The Carter Oil Company Well No. 1 (Uintah
& Garay Tribal 5347), Ref. No. 1

DEC -- 1950

STATUS: Drg - T.D. 11,118' (Co. reports)

REMARKS: DST 10,826-917' open 1 hr. Recovered 510'
drilling mud. IFF 0#. FFP and SIP 150#. Coring ahead

STATUS: Drg - T.D. 11,692' (Co. reports)

REMARKS: DST 11,155-235' open 1 hr. Recovered 335'
drilling fluid w/slight gas-cut and oil-cut on top.

IFF 150#, FFP 225#, SIP 950#. DSTs made 11,345' and

Jan. 5'

11,400'. Results not yet reported. Preparing to make

DST at T.D. Tentative top Wasatch 11,650'.

STATUS: Drg - T.D. 12,072' (Co. reports)

Feb '51

REMARKS: DST 11,349-400' open 1 hr. Recovered 300'

drilling mud w/slight oil and gas-cut. Top 10' fairly

heavy oil-cut. IFF 225#, FFP 225#. DST 11,398-551'

open 2 hrs. Recovered 645' drilling fluid w/slight

oil-cut. Top 10' gas-cut. IFF 225#, FFP 225#. DST 11,568-592'

open 1 hr. Recovered 300' drilling fluid w/slight oil-cut and fresh water.

IFF 0#, FFP 120#, SIP 150#. DST 11,625-675' open 1 hr.

35 mins. Recovered 385' drilling fluid, no oil or gas.

IFF 50#, FFP 120#, SIP 150#. Tentative top Wasatch

11,650'. Preparing to make DST at T.D.

UNIT RECORDS

114.
6-15-21

BLUEBELL (UNIT) - Duchesne County
C SWANEY, The Carter Oil Company Well No. 1 (Uintah
& Garry Tribal 5347), Ref. No. 1

STATUS: Drg - T.D. 9745' (Co. reports) 1950

REMARKS: DST 9206-9362' open 2½ hrs. Recovered 185'
drilling fluid. IFF 0#, FFP 120#, SIP 0#. DST 9400-
9509' open 2 hrs. Recovered 321' slightly gas-cut
drilling fluid. IFF 120#, FFP 240#, SIP 240#.

Preparing to make DST 9745'.

114.
6-15-21

BLUEBELL (UNIT) - Duchesne County
C SWANEY, The Carter Oil Company Well No. 1 (Uintah
& Garry Tribal 5347), Ref. No. 1

STATUS: Drg - T.D. 10,260' (Co. reports) 1950

REMARKS: DST 9740-9845' open 1½ hrs. Recovered 315'
rat hole mud. IFF 0#, FFP and SIP 150#. DST 9784-
9891' open 5 hrs. Recovered 1890' gas-cut mud and
90' salt water and mud. IFF 325#, FFP 1000#, SIP 3200#.

DST 9898-9978' open 5 hrs. Recovered 5490' heavy-gas-
cut fluid. Bottom 3000' brackish water, remainder
drilling mud. IFF 770#, FFP 2495#, SIP 2495#.

DST 10,017-67' open 2 hrs. Recovered 780' gas-cut
drilling fluid. IFF 235#, FFP 415#, SIP 2665#.

Hydrostatic 5315#. DST 10,100-186' open 4 hrs. 10 mins.
Recovered 2700' fluid. Top 360' mud and oil, remainder
oil and mud-cut brackish water. IFF 300#, FFP 1300#,
SH not obtained.

d.H.
6-15-21

BLUEBELL (UNIT) - Duchesne County
C SWANEY, The Carter Oil Company Well No. 1 (Uintah
& Garry Tribal 5347), Ref. No. 1

STATUS: Drg - T.D. 10,643' (Co. reports) NOV - 1950

REMARKS: DST 10,300-326' open 2 hrs. Recovered 90'
drilling mud and 5' clean oil. Initial and final

flowing pressures 200#. Shut-in not obtained. DST

10,349-377' open 2 hrs. 15 mins. Recovered 2950'

Cont'd on next page

POOL 1000

2.
6-18-2W

BLUEBELL - Duchesne County
C SW 1/4, The Carter Oil Company Well No. 1 (Uintah
& Ouray Tribal 5347), Ref. No. 1 MAR 1950

STATUS: Drg - T.D. 975' (Co. reports)

REMARKS: ~~NEW DRILLING WELL~~. Drilling commenced 3-21-50.
Surface, Duchesne River. Objective, Green River approx.
10,000'. 42' 23" cc w/55 saz at 53'.

3.M.
6-18-2W

BLUEBELL - Duchesne County
C SW 1/4, The Carter Oil Company Well No. 1 (Uintah
& Ouray Tribal 5347), Ref. No. 1 APR 1950

STATUS: Drg - T.D. 4590' (Visited 4-27-50)

REMARKS: 942' 16" cc w/1200 saz. Drilling ahead in
Uinta. Tentative top 3980'.

4.M.
6-18-2W

BLUEBELL - Duchesne County
C SW 1/4, The Carter Oil Company Well No. 1 (Uintah
& Ouray Tribal 5347), Ref. No. 1 MAY 1950

STATUS: Drg - T.D. 8995' (Co. reports)

REMARKS: Drilling ahead in variegated shale of Uinta
type.

5.
6-18-2W

BLUEBELL - Duchesne County
C SW 1/4, The Carter Oil Company Well No. 1 (Uintah
& Ouray Tribal 5347), Ref. No. 1 JUN 1950

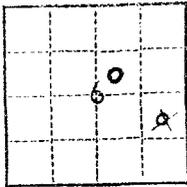
STATUS: Drg - T.D. 7996' (Co. reports)

REMARKS: DST 7936-7996' in fractured sandy shale of
Green River (?). Open 2 1/2 hrs. Shut in 15 mins.
Initial F.P. 250 psi, final 500 psi. Shut in BHP
1700 psi. Good blow throughout test. Recovered
1020' fluid, upper 30' 50% oil and water and
gas cut mud, remainder oil, water, and gas cut
mud with some formation water. Oil is heavy and
black.

PRODUCTION

**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
CONSERVATION BRANCH**

Sec. 6
T. 1 S.
R. 2 W.
Uinta Mer.



INDIVIDUAL WELL RECORD

INDIAN LAND: _____ Date March 2, 1950 Ref. No. 1

Reservation Uintah and Ouray State Utah
Ute Tribal, I-109-5347 County Duchesne
 Lessee The Carter Oil Co. and Stanolind Oil and Gas Co. Field Bluebell (Unit)
 Operator The Carter Oil Company District Salt Lake City
 Well No. 1 Subdivision C NE 1/4 SW 1/4
 Location 1980 ft. from N. line and 1980 ft. from E. line of sec. 6
1965 ft. from S. line and 690 ft. from E. line of sec. 6

Drilling approved March 2, 1950 Well elevation 6559 feet
 Drilling commenced March 21, 1950 Total depth 12,518 feet
 Drilling ceased March, 1951 Initial production _____
 Completed for production _____, 19____ Gravity A. P. I. _____
 Abandonment approved _____, 19____ Initial R. P. _____

Geologic Formations		Productive Horizons		
Surface	Lowest tested	Name	Depths	Contents
<u>Duchesne River</u>	<u>Wasatch</u>			

WELL STATUS

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
1950			Drg	Drg	Drg	Drg	Drg	Drg	Drg	Drg	Drg	Drg
1951	Drg	Drg	Drg	Drg	Abd							

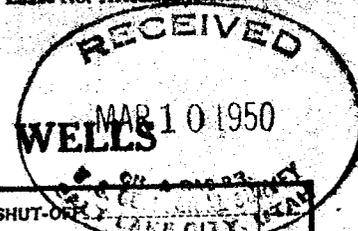
REMARKS Form of Lease: 5-157

(SUBMIT IN TRIPlicate)

Utah & Denver

Altogether Ute Tribe

Lease No. I-109-Ind-5347



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
3-10-50
ORIGINAL FORWARDED TO COMPANY

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS	<input checked="" type="checkbox"/>	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING 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)

March 7, 1950

Well No. 1 is located 1980 ft. from ^N~~SE~~ line and 1980 ft. from ^E~~SE~~ line of sec. 6

SW-NE Section 6 (1/4 Sec. and Sec. No.)
18 (Twp.) 2N (Range) Meridian
Wilcat (Field) Duchesne County (County or Subdivision) Utah (State or Territory)

The elevation of the derrick floor above sea level is _____ 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)

It is proposed to change this location from the NE-SE to the SW-NE of Section 6. As reported on the original notice, the well is to be drilled to a depth of 10,000' to test the Green River formation. Casing program will consist of approximately 1000' of 16" surface pipe and 7" oil string to required depth.

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 120
Denver 1, Colorado

By GUY STUBBS, V. A. POLYAKUS, JR.

Title Division Engineer

Account MAR 10 1950
C. S. HANCOCK
District Engineer

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

MAR 27 1950

ORIGINAL FORWARDED TO:

SUNDRY NOTICES AND REPORTS ON WELLS

RECEIVED
MAR 27 1950
U.S. GEOLOGICAL SURVEY

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 REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING 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	Setting Conductor

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

March 24, 1950

Well No. **42** is located **1980** ft. from **N** line and **1980** ft. from **E** line of sec. **8**

SW NE 8 (4 Sec. and Sec. No.) **18** (Twp.) **2W** (Range) **USM** (Meridian)
MO (Field) **Duchesne** (County or Subdivision) **Utah** (State or Territory)

The elevation of the derrick floor above sea level is **6550** 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.)

Ran 42' of 2 3/4" conductor pipe, set at 53'. Cemented with 55 sacks, 1 1/2% slurry, with 2% calcium chloride. Cement returns to surface. Job complete 8:45 PM, 3-23-50.

I understand that this plan of work must receive approval or written by the Geological Survey before operations are started on this well.
Company **The Dexter Oil Company**
Address **Box 120, 120**
Lawrence, Kansas
Lawrence, Kansas

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Utah-Coray

Allottee Ute Tribe 5347

Lease No. BLB 15306

4-12-50



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 REDRILL OR REPAIR WELL.....		SUBSEQUENT REPORT OF REDRILLING 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.....		Surface Casing.....	*

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

April 10, 1950, 19

Bluebell Unit

Well No. 1 is located 1980 ft. from ^N_{SW} line and 1980 ft. from ^E_W line of sec. 6

SW NE
1/4 Sec. 6

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

1S

(Twp.)

2W

(Range)

USM

(Meridian)

Wildcat

(Field)

Uintah

(County or Subdivision)

Utah

(State or Territory)

The elevation of the derrick floor above sea level is 6559 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)

Ran 942' of 16" surface pipe. Shoe set at 962'. Cemented to surface w/ 1200 sacks. Plug pumped to 928'. Maximum pressure 800#. Job completed 9:15 AM 4-9-50

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 P. O. Box 120

Denver, Colorado

By A. F. Johnson

APR 12 1950

Title Production Foreman

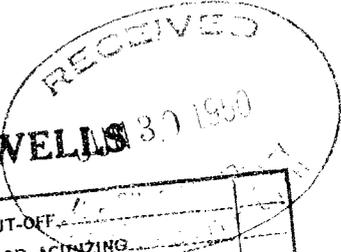
Approved
C. Hauptman
District Engineer

Land Office Salt Lake
Lease No. Ute Tribal I-109-5347
Unit Bluebell

(SUBMIT IN TRIPLICATE)

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	
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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		Report of DST	*

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

June 27, 19 50

Well No. 1Bluebell is located 1980 ft. from [N] line and 1980 ft. from [E] line of sec. 6
SW NE 6 (1/4 Sec. and 1/4 Eas. No.)
wildcat (Field)
1S (Twp.) 2W (Range) USM (Meridian) Utah (State or Territory)
Duchesne (County or Subdivision)

The elevation of the derrick floor above sea level is 6559 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)

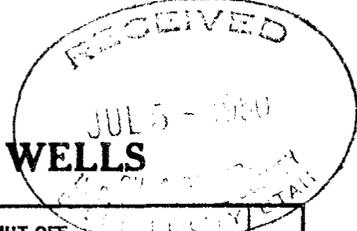
Tested 7936-7998. Tool open 2 hrs 15 min. Shut in 15 min.
 Recovered 1020' fluids 30' max. 6 oil, about 50/100; 990' oil, gas
 and water cut drilling fluid.
 LFE 250; DWT 200; DIF 1700 plus.
 Run pipe throughout log. Run 2 1/2" casing 1000' and

RECEIVED

(SUBMIT IN TRIPPLICATE)

Land Office Salt Lake City
Ute Tribal I-109-5347
Lease No. 100081810306
Unit Bluebell

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



SUNDRY NOTICES AND REPORTS ON WELLS

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NOTICE OF INTENTION TO PULL OR ALTER CASING.....	SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....	<u>Report of DST</u>	*

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

July 2, 19 50

Well No. 1 is located 1980 ft. from N line and 1980 ft. from E line of sec. 6

SW NE 6
(1/4 Sec. and Sec. No.)

1S
(Twp.)

2W
(Range)

USM
(Meridian)

wildcat
(Field)

Duchesne
(County or Subdivision)

Utah
(State or Territory)

The elevation of the derrick floor above sea level is 6559 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)

DST 7075-8011. Open 2 1/2 hours. Shut in 15 min. Fair blow for first 2 hours. Recovered 180' slightly gas cut drilling fluid. Portion of recovery was lost through circulating sub.
IFP 115# FFP 260# SIP 3410#.

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 P. O. Box 120
Denver, Colorado

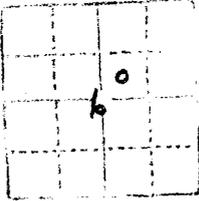
Approved JUL 5 1950
C. Hauptman
District Engineer

[Signature]
Title Geologist

(SUBMIT IN TRIPLICATE)

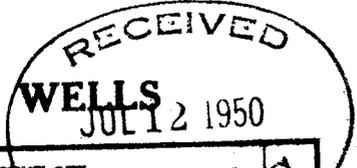
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Uintah-Ouray
Allottee Ute Tribe
Lease No. 5-20001-100-5347



JUL 14 1950

ORIGINAL FORM TO BE RETURNED TO CASPER



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 OF ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING 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			

Report of drill stem test

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

July 9, 1950

Well No. 1 is located 1980 ft. from N line and 1980 ft. from E line of sec. 8

SW NE 6 (1/4 Sec. and Sec. No.) 18 (Twp.) SW (Range) 15N (Meridian)
WC Bluebell Unit (Field) Duchesne (County or Subdivision) Utah (State or Territory)

The elevation of the derrick floor above sea level is 6552 ft.

DETAILS OF WORK

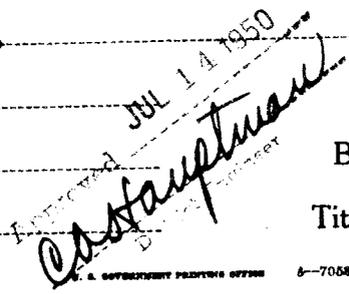
(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

DST 8076-8106. Open 2 hours. Shut in 15 minutes. Good blow for first 50 min then gradually decreased. Recovered 4150' gas cut mud. IFP 1330#; FFP 2020#; SIP 3360#.

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

Company Carter Oil Co.
Address Box 120
Denver, Colorado

Attn: E. A. Columbus, Jr. By [Signature]
Title Geologist



(SUBMIT IN TRIPPLICATE)

Indian Agency _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

----- Uintah-Couray -----

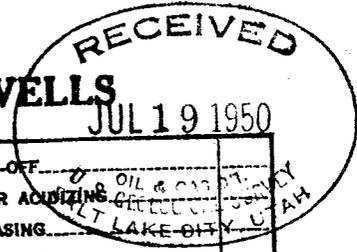
Allottee Ute Tribe

Lease No. I-100-5347

AUG 3 - 1950

ORIGINAL REPORT TO BE CALLED

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 REDRILL OR REPAIR WELL.....	SUBSEQUENT REPORT OF REDRILLING 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.....	Report of DST

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

----- July 14 -----, 19 50

Well No. 1 is located 1900 ft. from $\left\{ \begin{matrix} N \\ S \end{matrix} \right\}$ line and 1900 ft. from $\left\{ \begin{matrix} E \\ W \end{matrix} \right\}$ line of sec. 8

S. 11 E. 6 (Twp. 18 (Range 5W (Section 122))
wildcat (Field) Douglas (County) Utah (State or Territory)

The elevation of the derrick floor above sea level is 6550 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)

July 14
DST 8168 to 8192 Open 2 hours 40 minutes. Shut in 25 min.
Recovered 960 feet heavily gas cut mud. Some oil and water cut
in bottom 500 feet. IFP 400#; FFP 800#; SIP 3300#.

July 16
DST 8204 to 8243. Open 3 hours 15 minutes. Shut in 15 min.
Recovered 890 feet slightly gas cut mud. Slight oil and water cut
in lower 800 feet. IFP 410; FFP 1000; SIP not obtained.

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

Company Carter Oil Co.

Address Box 120
Denver, Colorado

By Wm E. J. [Signature]

Title Geologist

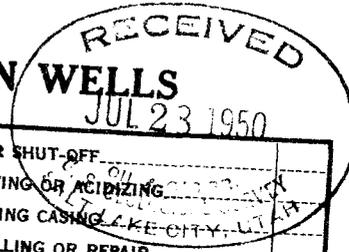
Approved AUG 3 1950
[Signature]
District Engineer

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Allocation Hintah-Ouay
Lease No. Uka Tribe
I-100-5347

AUG 4 1950



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 REDRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING 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)

Report of NGG

July 25, 1950

Well No. 1 is located 1980 ft. from N line and 1980 ft. from E line of sec. 6
SW NE 6 (1/4 Sec. and Sec. No.) 18 (Twp.) SW (Range) 15W (Meridian)
WC Bluebell Unit (Field) Duchessne (County or Subdivision) Utah (State or Territory)

The elevation of the derrick floor above sea level is 6550 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)

DST 8439-8406. Open 2 1/2 hours. Shut in 20 min. Light blow throughout test. Recovered 250' oil and gas out mud. Very heavy oil cut in upper 45 feet. Initial and final flowing pressure 100#. Shut-in 2760#. (Build-up incomplete)

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

Company Carter Oil Co.
Address Box 120
Denver, Colorado

By [Signature]
Title Geologist

AUG 14 1950

[Signature]
District Engineer

(SUBMIT IN TRIPPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Indian Agency _____

Uinkub-Gray

Allottee Wm. T. de

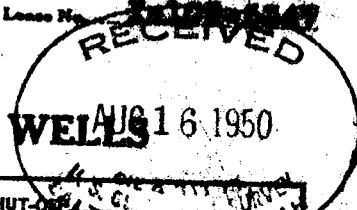
Lease No. 100-1000



COPY SENT TO CASING

SUNDRY NOTICES AND REPORTS ON WELLS

AUG 16 1950



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 REDRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING 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			

Report of DST

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

Bluebell

August 12, 1950

Well No. 1 is located 1980 ft. from N line and 1980 ft. from E line of sec. 6

SW 6

(4 Sec. and Sec. No.)

13

(Twp.)

EW

(Range)

T1N

(Meridian)

Wildcat

(Field)

Duchesne

(County or Subdivision)

Utah

(State or Territory)

The elevation of the derrick floor above sea level is 6552 ft.

DETAILS OF WORK

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

Tested interval 8680 to 8767. Tool open $3\frac{1}{2}$ hours. Gas to surface in 3 hours. Strong blow increasing slightly during first three hours then decreasing slightly during last $\frac{1}{2}$ hour.

Recovered 450 feet oil gas and water cut mud. 1890 feet water.

Salinity 1000 ppm, IPP 350. FFP 1000. Shut in pressure not obtained.

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 P. O. Box 120

Denver, Colorado

By [Signature]
Title Geologist

Approved AUG 16 1950

C. H. [Signature]
District Engineer

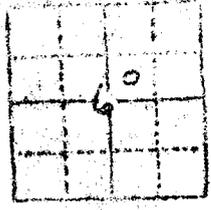
Form 2-2517
July 1950

Product Form No. G-2517
Approved August 11, 1950

(SUBMIT IN TRIPLICATE)

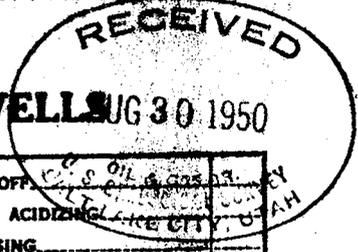
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Indian Agency _____
 Hatch Survey
Allottee **Ute Tribe**
Lease No. **I-100-5347**



ORIGINAL FORWARDED TO CASPER

SUNDRY NOTICES AND REPORTS ON WELLS AUG 30 1950



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 REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING 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	Report of DST	X

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

August 27, 1950

Well No. 1 is located 1980 ft. from N line and 1980 ft. from E line of sec. 6

SW NE 6 15 SW USM

(4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

WC (Bluebell Unit) Duchesne Utah

(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 6559 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)

Tested interval 8949 to 9086. Tool open 1 1/2 hours. Good blow for 20 minutes. Decreased at end of test. Recovered 810 feet gas out drilling mud. IFF 200%; FFP 550%; SIP (20 min) 4100%.

V

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 Co.
Address P.O. Box 120
Denver, Colorado

Approved AUG 31 1950
[Signature]
District Engineer

By [Signature]
Title Geologist

Form 100 (Rev. 1-27-50)

Budget Estimate No. 10-209-1. Approval expires 11-30-50.

(SUBMIT IN TRIPLICATE)

Indian Agency

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

District Survey

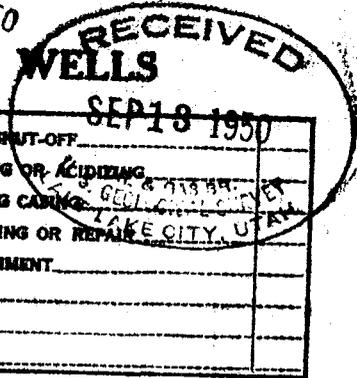
Allottee The Tribe

Lease No. 1-207-5347

SEP 13 1950

ORIGINAL FORWARDED TO CASPER

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 REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING 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)

Sept. 10, 1950

Well No. 1 is located 1980 ft. from N line and 1980 ft. from E line of sec. 6

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

T. 3 S

(Range) W

US Meridian

W0 Blackhall Unit (Field)

Duchess (County or Subdivision)

Utah (State or Territory)

The elevation of the derrick floor above sea level is 6559 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)

DST 9206-9362. Open 1 1/2 hrs. Shut in 15 min. Light blow (initial) decreasing throughout test. Recovered 185 ft. drilling fluid. LFP 0, FFP 120, SIP 0.

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 120

Denver, Colorado

By William W. Stearns

Approved SEP 13 1950

Title Geologist

Co. Hauptman District Engineer

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SEP 22 1950

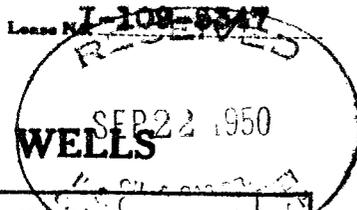
ORIGINAL FORWARDED TO CASPER

Indian Agency _____

Uintah-Ouay

Allottee Ute Tribe

Lease No. L-109-5547



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 REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING 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	

Report on DST

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

Sept. 19

1950

Well No. 1 is located 1980 ft. from N line and 1980 ft. from E line of sec. 6

SW NE 6
(1/4 Sec. and Sec. No.)

1S
(Twp.)

2W
(Range)

USM
(Meridian)

W6 Bluebell Unit
(Field)

Duchesne
(County or Subdivision)

Utah
(State or Territory)

The elevation of the derrick floor above sea level is 6559 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)

DST 9400-9509. Open 2 hrs. Shut in 15 min. Fair blow for 1 hr. died gradually during duration of test. Recovered 321 ft. slightly gas out drilling fluid. IFP 120, FFP 240, SIP 240.

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 120

Denver, Colorado

By William H. [Signature]

Approved [Signature]

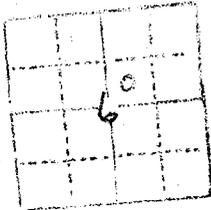
Title Geologist

[Signature]
District Engineer

(SUBMIT IN TRIPLICATE)

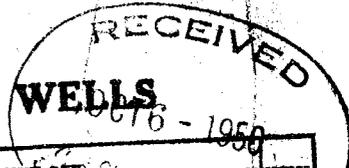
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Indian Agency _____
Blatch-Oxley
Allottee **Ute Tribe**
Lease No. **I-108-2347**



ORIGINAL FORWARDED TO CASPER

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 REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING 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	

Report of DST

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

September 30, 19 50

Well No. 1 is located 1900 ft. from N line and 1900 ft. from E line of sec. 8

SW 6 (4 Sec. and Sec. No.) 18 (Twp.) SW (Range) HM (Meridian)
W0 Blueball (Field) Duchesne (County or Subdivision) Utah (State or Territory)

The elevation of the derrick floor above sea level is 6559 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)

DST 9740-9845. Open 1 1/2 hours. Recovered 315' rat-hole mud.
IFF 0; FFF & SIP 150#.

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 120
Denver, Colorado

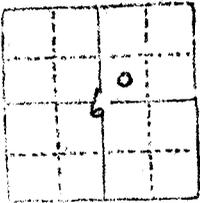
Approved OCT 6 1950

C. Hauptman
District Engineer

By [Signature]
Title Geologist

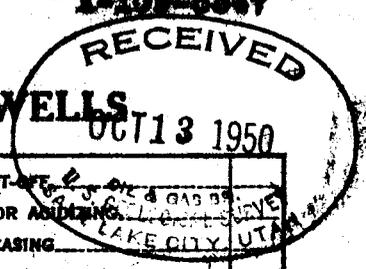
(SUBMIT IN TRIPLICATE)

Indian Agency _____
Winnebago
Allottee _____
Lesse No. **100-6547**



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

ORIGINAL FORWARDED TO CASPER OCT 16 1950



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 REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING 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	

Report on DST

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

Oct. 10, 1950

Well No. 1 is located 1000 ft. from $\left\{ \begin{matrix} N \\ S \end{matrix} \right\}$ line and 1000 ft. from $\left\{ \begin{matrix} E \\ W \end{matrix} \right\}$ line of sec. 6

54 (Well No.) 13 (Twp) 2E (Rng) 13E (SEK)
W0 Bluebell Unit (Well) Duchesne (County & Subdivision) Utah (State or Territory)

The elevation of the derrick floor above sea level is 5569 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)

DST 9784-9891. Open 5 hrs. Shut in 15 min. Strong blow 2 hrs. 45 min., fair blow 1 hr. 30 min., weak blow 45 min. Recovered 1890 ft. gas out mud and 90 ft. salt water and mud. IFF 325, FFP 1000, SIP 3200.

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 100

Denver, Colorado

Approved OCT 16 1950

C. A. Stuart
District Engineer

By William W. Sloan, Jr.
Title Geologist

(SUBMIT IN TRIPLICATE)

Indian Agency _____

UNITED STATES

Winnebago

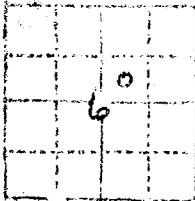
DEPARTMENT OF THE INTERIOR

Allottee Win Tribe

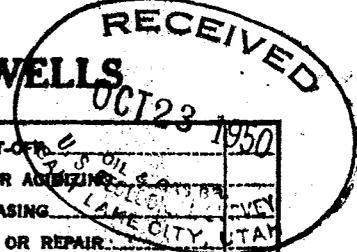
OCT 23 1950 GEOLOGICAL SURVEY

Lease No. I-100-8347

ORIGINAL FORWARDED TO CASPER



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 REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING 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)

October 16, 1950, 19

Well No. _____ is located 1900 ft. from N line and 1900 ft. from E line of sec. _____

SW 1/4 (1/4 Sec. and Sec. No.) 14 (Twp.) 36W (Range) 36M (Meridian) W0 Bluebell Unit (Field) Duchesne (County or Subdivision) Utah (State or Territory)

The elevation of the derrick floor above sea level is 6550 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)

DST 9898 to 9978. Open 5 hours. Shut in 15 minutes. Recovered 5490' heavily gas cut fluid. Bottom 3000 feet brackish water, remainder drilling mud. IFF 770; FFF 2495; BH-SIP 2495.

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 120
Denver, Colorado

By [Signature]

Approved OCT 23 1950

Title Geologist

[Signature]
District Engineer

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

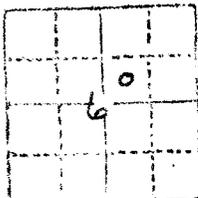
Indian Agency _____

Navajo

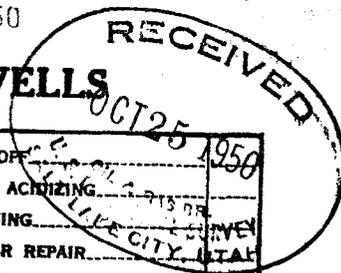
Allottee Sto Tribe

Lease No. I-108-5347

ORIGINAL FORWARDED TO CASPER OCT 26 1950



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 REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING 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	

Report of DST

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

October 21, 1950

Well No. 1 is located 1200 ft. from N line and 1000 ft. from E line of sec. 6

SW NE S
(1/4 Sec. and Sec. No.) 13 SW T14N
(Twp.) (Range) (Meridian)

WC Bluebell Unit Duchesne Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 6559 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)

DST 10017-10087 Open 2 hours. Shut in 15 min.
Recovered 780 feet gas cut drilling fluid. IFF 236#;
FFP 415#; 2665#. Hydrostatic 5315#.

Fair blow initially decreasing gradually to end of test.

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 Co.

Address Box 120
Denver, Colorado

Approved OCT 26 1950

W. Hauptman
District Engineer

By [Signature]
Title Geologist

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Indian Agency _____

Utah-Caray _____

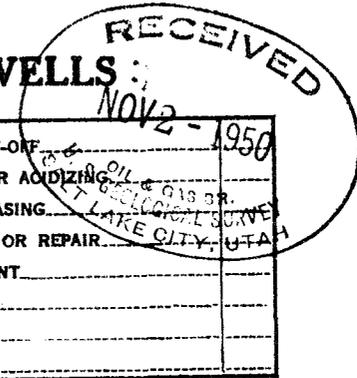
Allotted Ute Tribe _____

Lease No. I-109-5547 _____



NOV 2 1950

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 REDRILL OR REPAIR WELL _____	SUBSEQUENT REPORT OF REDRILLING 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 _____	Report of DST _____

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

October 27, 1950, 19__

Well No. ¹ _____ is located ¹⁹⁸⁰ ft. from $\begin{matrix} N \\ S \end{matrix}$ line and ¹⁹⁸⁰ ft. from $\begin{matrix} E \\ W \end{matrix}$ line of sec. ⁶ _____

SW NE S 1S 2W USM
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
WC Bluebell Unit Duchesne Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is ⁵⁵⁵⁹ 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)

DST 10,100 to 10,186. Open 4 hours 10 minutes. Shut in 15.

Recovered 2700' fluid. Top 360' mud and oil. Remainder oil and mud cut blackish water. IFP 300; FFP 1300; BH SIP not obtained.

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 120

Denver, Colorado

[Handwritten Signature]

Approved NOV 2 1950

Title Geologist

[Handwritten Signature]
District Engineer

Form 10-435-1
(January 1947)

(SUBMIT IN TRIPPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Indian Agency _____

Uintah-Ourey

Allottee Ute Tribe

Lease No. I-10965042 5347

RECEIVED

NOV 13 1950

ORIGINAL FORWARDED TO BUREAU

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 REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING 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	Report of DST

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

November 4, 1950

Well No. 1 is located 1980 ft. from N line and 1980 ft. from E line of sec. 6
SW NE 6 18 27 USM
(Field) (Twp.) (Range) (Meridian)
WC Bluebell Unit Duchesne Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 6550 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)

DST 10,300 to 10,326. Open two hours. Recovered 90° drilling mud and 5° oil on oil. Initial and final flowing pressure 200#. Shut in pressure not obtained.

Form 100-10
(February 1937)

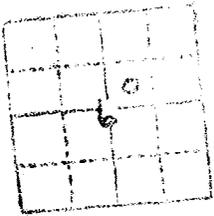
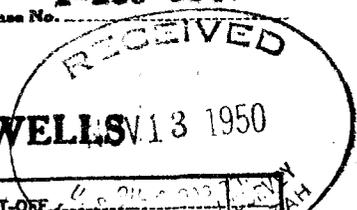
(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Indian Agency Uintah-Ouray
Allottee Ute Tribe
Lease No. I-109-8347

ORIGINAL FORWARDED TO CASHIER

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 REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING 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	Report of DST	

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

November 6, 1950

Well No. 1 is located 1980 ft. from N line and 1980 ft. from W line of sec. 6

SW NE 6 (1/4 Sec. and Sec. No.) 18 SW (Twp.) 10m (Meridian)
WC Bluebell Unit (Field) Duchesne (County or Subdivision) Utah (State or Territory)

The elevation of the derrick floor above sea level is 6559 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)

DST 10,349 to 10,377. Open 2 hours 15 minutes. Shut in 15 min.
Recovered 2950' heavily gas out water with slight oil cut.
IFP 200; FFP 1325; BH SIP 3850.

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 Co.
Address Box 120
Denver, Colorado

By [Signature]
Title Geologist

[Signature]
District Engineer

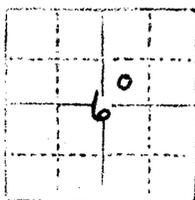
(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

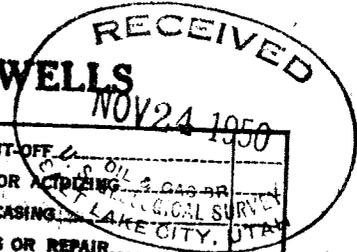
NOV 27 1950

ORIGINAL FORWARDED TO CASPER

Indian Agency
Uintah-Curry
Allottee **Ute Tribe**
Lease No. **I-100-5347**



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 REDRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING 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		Report of DST	

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

November 17, 1950

Well No. 1 is located 1980 ft. from N line and 1980 ft. from E line of sec. 6

SW NE 6 1S SW USM

(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

WG Duchesne Utah

(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 6559 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)

DST 10,485-10,525 Open 2 hours. Shut in 15 min.

Recovered 600' oil and mud. Approx. 50/50 proportion.
IPP & FPP 300: SIP 3500#. (Build-up incomplete)

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 Co.

Address Box 120

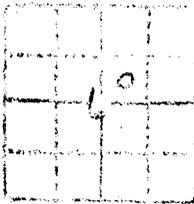
Denver, Colorado

By [Signature]

Title Geologist

Approved NOV 27 1950

[Signature]
District Engineer



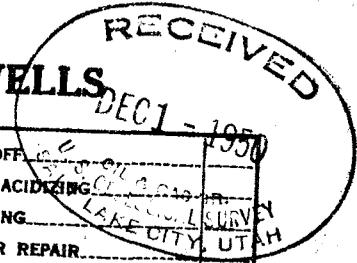
(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Indian Agency Winch-Oway
Allottee Ute Tribe
Lease No. I-100-8547

DEC 1 - 1950

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 REDRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING 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		Report of DST	

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

November 26, 19 50

Well No. 1 is located 1980 ft. from [N] line and 1980 ft. from [E] line of sec. 6
SW NE 6 18 SW USM
(4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
WC Bluebell Unit Duchesne Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 6559 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)

Drill Stem Test 10591-10643 Open 1 1/2 hours. SI 15 min.
 Recovered 2100' fluid. Top 180 drilling mud. Remainder
 oil, gas, and mud-cut fresh water.
 IFF 425#; FFP 1050#. SIP net obtained.

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 Co.
 Address Box 120
Denver, Colorado

By [Signature]
 Title Geologist

Approved DEC 1 - 1950

C. Hauptman
 District Engineer

(SUBMIT IN TRIPLICATE)

Indian Agency _____

UNITED STATES

Blatch-Covey

DEPARTMENT OF THE INTERIOR

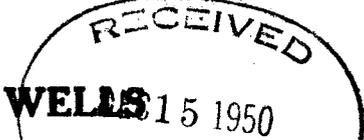
Allottee Sta Tribe

GEOLOGICAL SURVEY

Lease No. 1-100-247

DEC 15 1950

FORM 7-5341 (REVISED 10-23-50)



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 REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING 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	<u>Report of DST</u>	<u>X</u>

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

December 12, 1950, 19__

Well No. 1 is located 1980 ft. from N line and 1980 ft. from E line of sec. 6

SW NE 6
(1/4 Sec. and Sec. No.)

18
(Twp.)

2W
(Range)

USM
(Meridian)

EC Bluebell Unit
(Field)

Duchesne
(County or Subdivision)

Utah
(State or Territory)

The elevation of the derrick floor above sea level is 6559 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)

Tested interval 10,826-10,917. Tool Open 1 hour. Shut in 15 minutes.

Very light initial blow died in 45 minutes. Recovered 510 feet drilling

mud. No shows. IFF 0%; FPP and SIP 150%.

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 120

Denver, Colorado

By [Signature]

Approved DEC 15 1950

Title Geologist

C. Hauptman
District Engineer

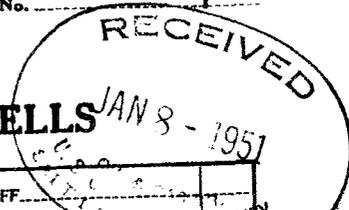
(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Indian Agency Uintah-Oury
Allottee Ute Tribe
Lease No. I-109-5247

ORIGINAL FORWARDED TO CASPER

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 REDRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING 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			

Report of DST

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

January 4, 1951

Well No. 1 is located 1980 ft. from N line and 1980 ft. from E line of sec. 6
SE NE 6 18 2W USM
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
WC Bluebell Unit Duchesne Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 6559 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)

DST 11, 155-11, 235. Tool open 1 hour. Shut in 15 minutes. Recovered 335' drilling fluid with slight gas cut and slight oil cut in top of column.
 IFP 190#; FFP 225#; SIP 950#. Hydrostatic 5790#.

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 Co.

Address Box 120

Denver, Colorado

By [Signature]

Title Geologist

Approved [Signature]
District Foreman

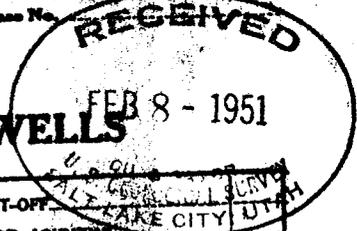
Form G-1-3712
(February 1951)

Budget Bureau No. 42-1336.1
Approved October 11-20-49

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Field Office _____
No. _____
Allotment _____
Lease No. _____



ORIGINAL FORWARDED TO CASPER

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 REDRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		REPORT OF TEST HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			

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

January 13, 1951

Well No. 2 is located 1980 ft. from (N) line and 1980 ft. from (E) line of sec. 6
SW 1/4 (Twp.) Duckwater (Meridian) Utah
 (Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 6559 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)

DST 11,349-11,400. Open 1 hour. Shut in 15 min. Very weak blow nearly dead at end of test. Recovered 300' drilling mud with slight oil and gas cut. Top 10' had fairly heavy oil cut.

DTP 225#; FPP225#; SIP not obtained.

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

Company _____
Box 120
Address _____
Denver, Colorado

By [Signature]
Geologist
Title _____

Approved FEB 8 - 1951
[Signature]
District Engineer

(SUBMIT IN TRIPLICATE)

Indian Agency _____

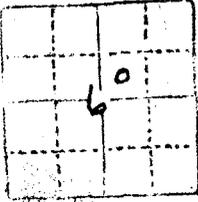
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Uintah-Ouray

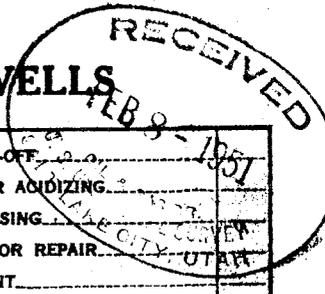
Allottee Ute Tribe

Lease No. I-102-5147

ORIGINAL FORM ONLY TO BE ORDERED



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 REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING 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)

January 23, 1951

Well No. 1 is located 1900 ft. from N line and 1900 ft. from E line of sec. 6

SE 1/4 6 (1/4 Sec. and Sec. No.) 18 (Twp.) 2N (Range) 100W (Meridian)
Ute Shoshone Unit (Field) Duchesne (County or Subdivision) Utah (State or Territory)

The elevation of the derrick floor above sea level is 6550 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)

WPT 11, 190-11, 551. Tool open 2 hours. Weak blow nearly dead at end of test. Shut in 15 min. IVP 60'; WVP 100'; SIP not obtained. Recovered 40' gas out drilling fluid with slight oil out in upper 90'.

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 Co.

Address Box 120

Denver, Colorado

By [Signature]

Approved FEB 8 - 1951

Title Geologist

[Signature]
C. S. CARTER

Form 10-5127
February 1951

Project Number No. 10-5127
Approval expires 11-30-51

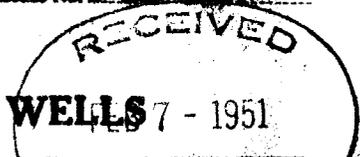
(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Indian Agency Wataho Agency
Allottee Wataho Tribe
Lease No. 1-100-5127



ORIGINAL FORWARDED TO CASPER FEB 7 - 1951



SUNDRY NOTICES AND REPORTS ON WELLS 7 - 1951

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 REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING 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	<u>Report of DST</u>	<input checked="" type="checkbox"/>

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

February 2, 1951

Well No. 1 is located 1980 ft. from N line and 1980 ft. from E line of sec. 6

SW NE 6 18 2N T10N
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Wataho Unit Duchesne Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 6559 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)

DST 11,558-11,692. Open 1 hour 55 minutes. Recovered 1250' mud and fresh water. IYP 0%; FYP 460%; SIP 390%.

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 120
Denver, Colorado

By James E. [Signature]

Approved FEB 7 - 1951

Title Reservoir Geologist

[Signature]
District Engineer

(SUBMIT IN TRIPPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Indian Agency _____

Winch-Curry

Allottee The Tribe

Lease No. 1-102-1317

RECEIVED



ORIGINAL FORWARDED TO CASPER

SUNDRY NOTICES AND REPORTS ON WELLS 9 1951

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 REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING 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	<u>Report of D.S.T.</u>	

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

February 15, 1951

Well No. 1 is located 1900 ft. from N line and 1900 ft. from E line of sec. 6

SW NE 6 (4 Sec. and Sec. No.) 15 (Twp.) SW (Range) 10N (Meridian)

W0 Blinshell Unit (Field) Duchesne (County or Subdivision) Utah (State or Territory)

The elevation of the derrick floor above sea level is 6552 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)

DST from 11732 to 11873'. Tool Open 1 Hr 15 Minutes, shut in 15 minutes. Very weak blow at start of test and dead at end of test. Recovered 285' drilling fluid, no oil or gas. Initial flowing pressure 50#, final flowing pressure 120#, shut in pressure 15 minutes 150#.

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 571

Vernal, Utah

By Adolph F. Johnson
Adolph F. Johnson

Title District Foreman

Approved FEB 19 1951

C. S. Suptman
District Engineer

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

MAR 12 1951

Indian Agency _____

Winnebago

Allottee Win Tribe

Lease No. 1-107-524 E



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 REDRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING 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		<u>Report of D.S.G.</u>	

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

March 3, 1951

Well No. 1 is located 1980 ft. from N line and 1980 ft. from E line of sec. 6

SW NE 6

(4 Sec. and Sec. No.)

18

(Twp.)

2W

(Range)

18N

(Meridian)

W O Blackball Unit

(Field)

Duchesne

(County or Subdivision)

Utah

(State or Territory)

The elevation of the derrick floor above sea level is 6559 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)

Tested from 11,918 to 12,072'. Tool open 40 minutes. Shut in 15 minutes. Very weak blow at start, dead at end of test. Recovered 180' of drilling fluid. Initial flowing pressure 60%, final flowing pressure 60%, shut in pressure 15 minutes 180%.

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

Company The Garter Oil Company

Address Box 591

Vernal, Utah

MAR 12 1951

Costaughtman
District Engineer

By Adolph F. Johnson
Adolph F. Johnson
District Foreman

Title _____

(SUBMIT IN TRIPLICATE)

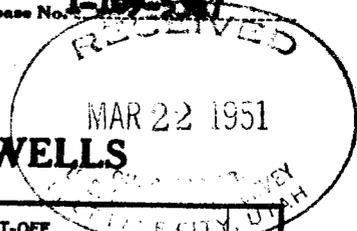
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

MAR 22 1951

Utah-Coray
Allottee Ute Tribe
Lease No. I-102-5347



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 REDRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING 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		Report of D.S.T.	*

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

March 20, 1951

Well No. 1 is located 1980 ft. from N line and 1980 ft. from E line of sec. 6
SW NE 6
(1/4 Sec. and Sec. No.) R 15 2 W 10 M
(Twp.) (Range) (Meridian)
W3 Bluebell Unit Duchesne Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 6559 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)

Tested from 12,288 to 12,354'. Tool open 2 hours, 45 minutes. Shut in 25 minutes.
 Weak blow at start of test, picked up after 15 minutes to a good blow which remained
 throughout remainder of test. Recovered 95' of approximately 2% oil-cut drilling
 fluid. Initial flowing pressure 110#, final flowing pressure 160#, shut in
 pressure 200#.

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 591

Vernal, Utah

By Adolph F. Johnson
Adolph F. Johnson
 District Foreman

Title

Castauptman

Form 9-5813
(February 1947)

Budget Bureau No. 42-R359

Approval Expires 11/30/46

(SUBMIT IN TRIPlicate)

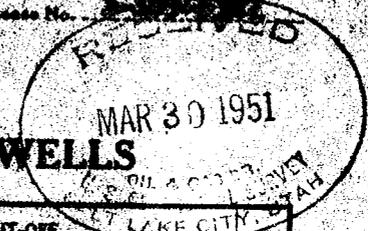
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Field Agency

Utah Survey

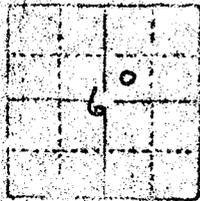
Station

Lease No.



ORIGINAL FORWARDED TO CASPER APR 2 - 1951

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 REDRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING 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			
Notice of Intention to Test	<input checked="" type="checkbox"/>		

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

March 29, 1951

Well No. 2 is located 1980 ft. from N line and 1980 ft. from E line of sec. 6

6 (1/4 Sec. and Sec. No.) 18 (Twp.) 27 (Range) 10N (Meridian)

W. Marshall Unit (Field) Bohannon (County or Subdivision) Utah (State or Territory)

The elevation of the derrick floor above sea level is 6559 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)

After casing has been set and cemented, it is proposed to test from bottom of casing to total depth of 12,518'. Other intervals to be tested (in pipe) will be from 10,737 to 10,787'; 10,485 to 10,525'; 10,083 to 10,186'. These testing intervals are subject to slight changes.

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 591

Yernal, Utah

Approved APR 2 - 1951

Castaupman
District Engineer

Adolph P. Johnson
Adolph P. Johnson
District Engineer

Form 1-1951
(February 1951)

Budget Bureau No. 42-R359
Approval Expires 11/30/48
Indian Agency

(SUBMIT IN TRIPPLICATE)

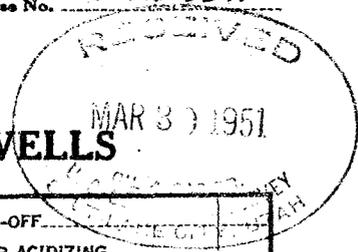
Utah & Garay

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Allottee **Ute Tribe**
Lease No. **I-109-5147**

APR 2 - 1951

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 REDRILL OR REPAIR WELL.....	SUBSEQUENT REPORT OF REDRILLING 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.....	
Notice of Intention to set Casing *	

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

March 29, 19 51

Well No. 1 is located 1980 ft. from N line and 1980 ft. from E line of sec. 6

SW NE 6

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

1S

(Twp.)

2W

(Range)

USM

(Meridian)

WC Bluebell Unit

(Field)

Duchesne

(County or Subdivision)

Utah

(State or Territory)

The elevation of the derrick floor above sea level is 6559 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)

7" casing will be set at approximately 11,140 feet. Approximately 350 cubic feet of slow-set cement and 350 cubic feet of Strata-Crete and 4% Aquagel will be used.

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

Company The American Oil Company

Address Box 531

Verona, Utah

[Handwritten signature]

[Handwritten signature]

(SUBMIT IN TRIPPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Indian Agency Uintah-Ourray
Allotment Ute Tribe
Lease No. I-109-5347

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 REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING 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	Report of running casing	*

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

March 31, 19 51

Well No. 1 is located 1980 ft. from (N) line and 1980 ft. from (E) line of sec. 6
SW NE 6 1S 2N USM
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
WC Bluebell Unit Duchesne Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 6552 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)

269
 Ran 7 1/2 lbs 7" OD N-80 Casing. Set at 11,138' and cemented with 350 sacks Slo-Set cement, 350 cubic feet Strata-Crete plus 4% Gel. Lost circulation while running pipe. Circulation never regained.

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 592

Vernal, Utah

By Z. L. Grimes

Title District Foreman

Z. L. Grimes

Form G-551 (February 1957)

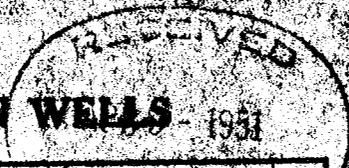
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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

ORIGINAL FORWARDED TO GASFER

APR 17 1951

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 REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING 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	Report of R.-S.-I.

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

April 5 1951

Well No. 1 is located 1900 ft. from N line and 1900 ft. from E line of sec. 6

SW NE 6 (1/4 Sec. and Sec. No.) 18 (Twp.) 27 (Range) 10N (Meridian)

WC Bluebell Unit (Field) Duchesne (County or Subdivision) Utah (State or Territory)

The elevation of the derrick floor above sea level is 6552 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)

T.D. 12,518'. Set hook-wall packer at 11,125'. Tool open 2 hours. Medium blow. Recovered 2,010' drilling fluid, very slightly oil and gas-cut. Initial flowing pressure 180#. Final flowing pressure 960#. Shut in pressure 2780#, 15 minutes.

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 591

Vernal, Utah

By Z. L. Grimes

Z. L. Grimes

Title District Foreman

Approved APR 17 1951

C. Hauptmann

District Engineer

Form D-331D
(February 1947)

Budget Bureau No. 42-8359

Approval Expires 11/30/48

Indian Agency

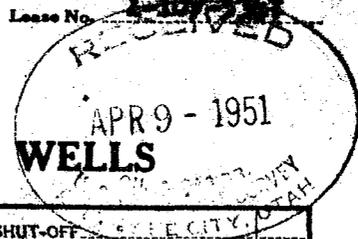
(SUBMIT IN TRIPPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
APR 17 1951

Visit to Survey

Allottee **The Tribe**

Lease No. **1-109-521**



ORIGINAL FORWARDED TO CASPER

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 REDRILL OR REPAIR WELL.....	SUBSEQUENT REPORT OF REDRILLING 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.....	Report of Plug Back

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

April 6, 1951

Well No. 1 is located 1980 ft. from N line and 1980 ft. from E line of sec. 6

<u>SW NE 6</u> (Of Sec. and Sec. No.)	<u>18</u> (Twp.)	<u>2W</u> (Range)	<u>USM</u> (Meridian)
<u>WC Blueball Unit</u> (Field)	<u>Duchesne</u> (County or Subdivision)	<u>Utah</u> (State or Territory)	

The elevation of the derrick floor above sea level is 6559 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.)

Flagged back from total depth (12,518') to 11,900', with 225 sacks Slo-Set cement.

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 591

Vernal, Utah

By Z. L. Grinne
Z. L. Grinne
Title District Foreman

Approved APR 17 1951

C. Hauptman
District Engineer

SUBMIT IN TRIPlicate

**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

Approved: *[Signature]*

License No. *[Blank]*

ORIGINAL FORWARDED TO CASPER APR 17 1951

APR 12 1951

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 ACIDIZING ACIDIZING	<input checked="" type="checkbox"/>
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING 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)

April 10, 19 51

Well No. 1 is located 1980 ft. from N line and 1980 ft. from E line of sec. 6

SW NE 6 (1/4 Sec. and Sec. No.) 13 (Twp.) 2W (Range) 13M (Meridian)
WC Bluebell Unit (Field) Duchesne (County or Subdivision) Utah (State or Territory)

The elevation of the derrick floor above sea level is 6559 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)

Acidised from 11,138 to 11,895' with 5000 gallons 15% Hydro-chloric acid. Starting tubing pressure 900#. Final tubing pressure 1350#. Acid displaced in 2 hours and 20 minutes. Packer set at 11,101'.

Following the plug back operation on April 6th, the plug back total depth was reported to be 11,900'. A check ~~xxx~~ revealed this depth to be 11,895'.

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 591

Vernal, Utah

By *[Signature: Fred F. Hill]*
Fred F. Hill

Title DISTRICT FOREMAN

[Signature: C. Hampton]

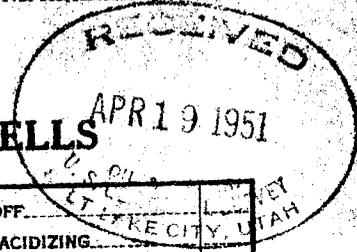
(SUBMIT IN TRIPPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Business 11/20/48
Edition Expires
Albottas Geo. Frink
Lease No. L-389-527

ORIGINAL FORWARDED TO CASPER APR 20 1951

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 REDRILL OR REPAIR WELL.....	SUBSEQUENT REPORT OF REDRILLING 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.....	Report of Plug Back	*

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

April 13, 19 51

Well No. 1 is located 1980 ft. from N line and 1980 ft. from E line of sec. 6

SW NE 6 (1/4 Sec. and Sec. No.) 13 (Twp.) 2W (Range) USM (Meridian)
W3 Bluebell Unit (Field) Duchesne (County or Subdivision) Utah (State or Territory)

The elevation of the derrick floor above sea level is 6559 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)

Plug back total depth 11,895'. Set Baker Model K cement retainer at 11,085'. Mixed and pumped in 100 sacks Ideal Regular cement. Displaced 95 sacks below retainer, with 900# press. Dropped bridging ball. Placed 5 sacks on top of retainer. Top of plug 11,060'. Bottom of plug 11,400'.

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 591
Vernal, Utah

By Z. L. Grinne
Title District Foreman

[Signature]
District Engineer

(SUBMIT IN TRIPPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

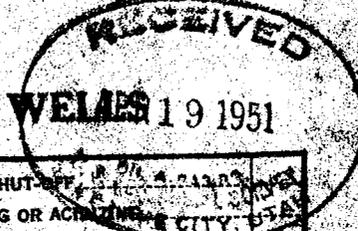
Utah Survey

Alotta: 5th Tribe

Lease No. 2-22-527

ORIGINAL FORWARDED TO CASPER APR 20 1951

SUNDRY NOTICES AND REPORTS ON WELLS 19 1951



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 REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING 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	Report of D.S.F.

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

April 14, 1951

Well No. 1 is located 1980 ft. from N line and 1980 ft. from E line of sec. 6

SW NE 6 13 27 USM
 (1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
WC Blackball Unit Duchesne Utah
 (Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 6559 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)

3 hours
 Set Hook-Wall Packer at 10,455'. Tool open MINERAL SPRINGS. SUPERMUD
MINERAL Fair blow throughout test. Recovered 120' very heavily emulsified oil.
 450' very slightly oil and gas-cut mud, no pressures.

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 591
Vernal, Utah

By [Signature]
Z. L. Grimes
Title District Foreman

Approved APR 20 1951
[Signature]
District Engineer

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Uintah-Quay

Allottee Ute Tribe

Lease No. I-109-5147

APR 15 1951

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 XXXXXXXXXX	*
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING 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)

April 15, 1951

Well No. 1 is located 1980 ft. from N line and 1980 ft. from E line of sec. 6

SW NE 6 13 2W USM
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
WC Bluebell Unit Duchesne Utah
(Field) (County or subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 6559 ft.

DETAILS OF WORK

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

Perforated from 10,481 to 10,520' with 465 - 9/16" conventional bullets. Shot by Lane-Wells. Preparing to swab.

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 591

Wendell, Utah R.

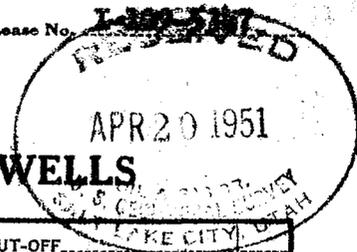
WELLS

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Utah-Coray
Allottee **Ute Tribe**
Lease No. **1-199-231**

ORIGINAL FORWARDED TO CASPER APR 16 1951



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 REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING 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	Report of D.S.T.

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

April 16, 1951

Well No. 1 is located 1980 ft. from N line and 1980 ft. from E line of sec. 6

SW NE 6 18 2W USM
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
WC Bluebell Unit Duchesne Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 6559 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)

Plug back total depth 11,060'. Hookwall packer set at 10,448'. Tool open 4 hours, 50 minutes. Swabbed 2 hrs with no recovery. Recovered 270' heavily emulsified oil cut with water which could be drilling fluid, and 315' drilling fluid with slight oil specks.

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 591
Vernal, Utah

By [Signature]
Z. L. Orin
Title District Foreman

[Signature]
District Engineer

Form 8-2511
(February 1957)

Budget Bureau No. 42-R359

Approval Expires 11/30/48

Indian Agency

(SUBMIT IN TRIPLICATE)

Utah Survey

UNITED STATES

Allottee Ute Tribe

DEPARTMENT OF THE INTERIOR

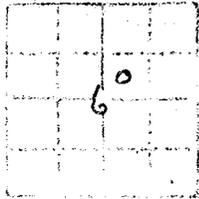
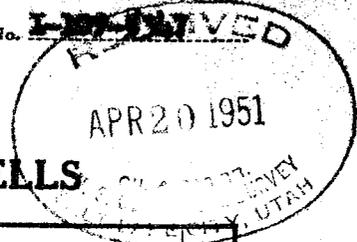
Lease No. 1-17-1416

GEOLOGICAL SURVEY

APR 20 1951

ORIGINAL FORWARDED TO CASPER

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 WATER ACIDIZING.....	*
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....	SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL.....	SUBSEQUENT REPORT OF REDRILLING 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)

April 17, 1951

Well No. 1 is located 1980 ft. from N line and 1980 ft. from E line of sec. 6

SW NE 6

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

1S

(Twp.)

2W

(Range)

USM

(Meridian)

WC Bluebell Unit

(Field)

Duchesne

(County or Subdivision)

Utah

(State or Territory)

The elevation of the derrick floor above sea level is 6552 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)

Plug back total depth 11,060'. Set Baker RT Retainer at 10,443'. Tail pipe at 10,509'. Displaced 1000 gallons mud acid to 10,509'. Closed preventers, displaced 1000 gallons mud acid into formation. Initial Pressure 1000#. Maximum 1800#. Final pressure 1700#.

EXPLORATION COMPANY

(SUBMIT IN TRIPPLICATE)

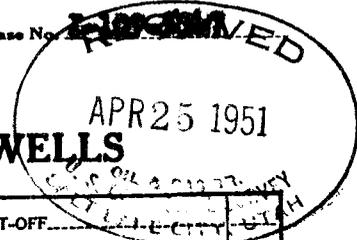
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Indian Agency _____

~~Utah-Cary~~

Allottee Ute Tribe

Lease No. _____



	60	

COMMUNICATIONS SECTION

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 REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING 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	<u>Report of Swabbing</u>	<u>X</u>

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

April ~~17~~ 18, 1951

Well No. 1 is located 1980 ft. from N line and 1980 ft. from E line of sec. 6

SW NE 6 (1/4 Sec. and Sec. No.) 18 (Twp.) 2W (Range) USM (Meridian)
W G Bluebell Unit (Field) Duchesne (County or Subdivision) Utah (State or Territory)

The elevation of the derrick floor above sea level is 6559 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)

Set Baker RT Retainer @ 10,443'. Tail pipe at 10,509'. After acidizing w/1000 gal mud acid, started swabbing. Swabbed drill pipe dry in 12 hrs. Swabbed 37 bbls very heavy black oil in next 33 hrs. April 19, 20, 21, 22 & 23rd. Acidized w/5000 gals mud acid. Retainer at same place. Swabbed drill pipe down in 12 hrs. Swabbed 1 bbl of heavy black oil, 3 bbls salt water per hour for remainder of test. Total hours swabbing 92.

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 591

Vernal, Utah

By Z. L. Grimes

Z. L. Grimes

Title District Foreman

Approved APR 25 1951

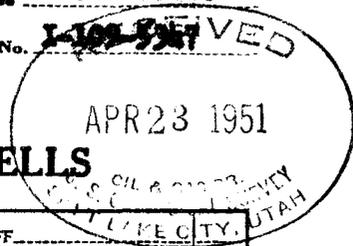
C. Staupman
District Engineer

(SUBMIT IN TRIPPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Indian Agency Uintah-Garay
Allottee Ute Tribe
Lease No. 1-109-5347

ORIGINAL FILED IN TO CASPER APR 20 1951



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 ACIDIZING ACIDIZING	*
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING 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)

April 19, 1951

Well No. 1 is located 1900 ft. from N line and 1900 ft. from E line of sec. 6
SW NE 6 18 2W 10M
 (1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
WC Bluebell Unit Duchesne Utah
 (Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 6559 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)

Baker RT Retainer set at 10,443'. Tail pipe at 10,509'. Pumped in and displaced into formation 5000 gals mud acid. Initial press. 800#. Maximum press 1100#. Final press. 1100#.

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 591
Vernal, Utah

By Z. I. Grimes
 Z. I. Grimes

C. H. Houghton
 U. S. GOVERNMENT
 Geologist

(SUBMIT IN TRIPLICATE)

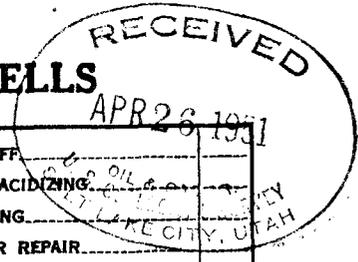
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Indian Agency Uintah-Cury
Allottee Ute Tribe
Lease No. L-109-5347



CONVEYED TO THE OFFICE

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 REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING 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	Report of Plug Back	#

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

April 23, 1951

Well No. 1 is located 1980 ft. from N line and 1980 ft. from E line of sec. 6
SW NE 6 (1/4 Sec. and Sec. No.) 18 2W USM (Twp.) (Range) (Meridian)
WC Bluebell Unit Duchesne Utah (Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 6559 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)

Set Baker Model K Retainer at 10,470'. Displaced 30 sacks regular cement on top of retainer. Top of cement plug 10,360'.

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 591
Vernal, Utah

By Z. L. Grimes
 Title District Foreman

Approved APR 26 1951
Castanetman
 District Engineer

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Indian Agency _____

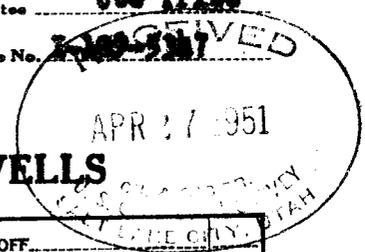
Uintah-Coray

Allottee Ute Tribe

Lease No. 7-100-341

APR 27 1951

CHIEF ENGINEER



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 REPAIRING	<input checked="" type="checkbox"/>
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING 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)

April 24, 1951

Well No. 1 is located 1980 ft. from N line and 1980 ft. from E line of sec. 6

SW NE 6 (1/4 Sec. and Sec. No.) 15 (Twp.) 2W (Range) USM (Meridian)

WG Bluebell Unit (Field) Duchesne (County or Subdivision) Utah (State or Territory)

The elevation of the derrick floor above sea level is 6559 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)

Perforated with 1-in. Jet charges, a total of 336 holes with McCullough Gun Perforating process. Holes shot as follows: 8 holes/foot 10,123' to 10,132'; and 16 holes/foot 10,123' to 10,117; 8 holes per foot 10,117' to 10,108'; 8 holes/foot 10,160' to 10,148'

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 591
Vernal, Utah

By _____

[Handwritten signature]
District Engineer

Form 9-331 b
(February 1937)

Indian Agency _____

Uintah-Cury

Allottee Ute Tribe

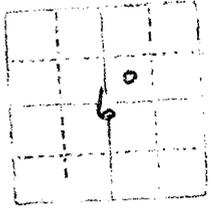
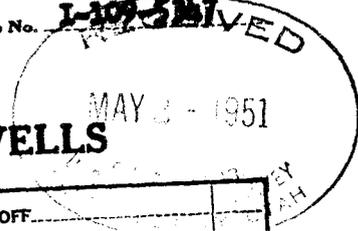
Lease No. L-109-521

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

ORIGINAL FORWARDED TO CASPER

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 REDRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING 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		Report of swabbing	*

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

See Below _____, 19____

Well No. 1 is located 1980 ft. from N line and 1980 ft. from E line of sec. 6

SW NE 6 (1/4 Sec. and Sec. No.) 1S (Twp.) 2W (Range) USM (Meridian)

WC Bluebell Unit (Field) Duchesne (County or Subdivision) Utah (State or Territory)

The elevation of the derrick floor above sea level is 6559 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)

On 4-25-51 set Howco Hook-wall packer @ 10,080'. Plug back T.D. 10,360'. Tool open 5 hrs 30 minutes before starting to swab. When starting to swab, found fluid 4480' from bottom. Well started swabbing 7 bbls fluid per hour. Estimated 95% water. Swabbed total of 10 1/2 hrs. Well still making 7 bbls fluid per hour, 99% water.

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 591
Vernal, Utah

By Z. L. Grimes
Title District Foreman

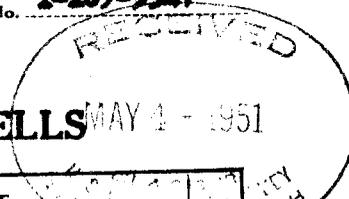
C. A. Skipton

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Indian Agency Uintah-Carey
Allottee Ute Tribe
Lease No. I-109-5347

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 REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING 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	Report of Squeeze Cement Job

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

May 2, 1951

Well No. 1 is located 1980 ft. from N line and 1980 ft. from E line of sec. 6
SW NE 6 1S 2W USM
(¼ Sec. and Sec. No.) (Twp.) (Range) (Meridian)
WC Bluebell Unit Duchesne Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 6559 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)

Set Baker Model K Cast Retainer at 10,100'. Squeezed 56 sacks Slo-Set cement below retainer. Displaced 40' cement on top of retainer.

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 591
Vernal, Utah

(SUBMIT IN TRIPLICATE)

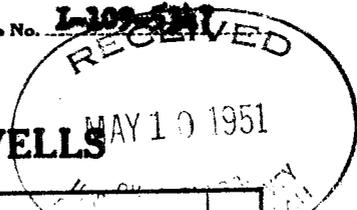
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Indian Agency _____

Uintah-Ouray

Allottee Ute Tribe

Lease No. L-109-541



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 REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING 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 6, 1951

Well No. 1 is located 1980 ft. from N line and 1980 ft. from E line of sec. 6

SW NE 6 (1/4 Sec. and Sec. No.) 1S (Twp.) 2W (Range) USM (Meridian)
WC Bluebell Unit (Field) Duchesne (County or Subdivision) Utah (State or Territory)

The elevation of the derrick floor above sea level is 6559 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)

Total depth 12,518'. Plugged back total depth 10,060'. 16" Surface Casing set at 962'. Started cutting off pipe with McCullough Jet Cutter at 6010'. Worked back up hole, getting pipe loose at 3016'. Pulled same. Displaced 40 sack cement from 980' back into surface pipe at ~~930'~~ 930'. Placed 15' cement at top of surface pipe, cementing in 4" pipe for marker, which extends 4' above ground level.

Location will be graded and pits filled as soon as rotary equipment is moved off.

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 591

Vernal, Utah

By _____

MAY 20 1953

Title District Foreman

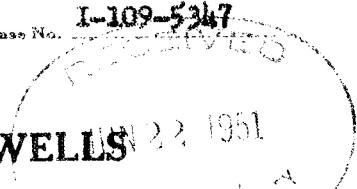


(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Indian Agency Uteah-Oursay
Abbottee Ute Tribe
Lease No. I-109-5347

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 REDRILL OR REPAIR WELL.....	SUBSEQUENT REPORT OF REDRILLING 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 20, 19 51

Well No. 1 is located 1980 ft. from N line and 1980 ft. from E line of sec. 6
SW NE 6 1S 2W USM
(¼ Sec. and Sec. No.) (Twp.) (Range) (Meridian)
WC Bluebell Unit Duchesne Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 6559 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)

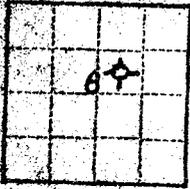
This is to inform you that Bluebell Unit, Well No. 1, has been cleaned up and ready for your inspection. Reserve pit has been drained, graded and filled, all mud covered and water pit has been drained and filled. Location graded. Cellar filled. 4' marker erected.

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 591
Vernal, Utah
 Date MAY 20 1953
 Title District Foreman

(Orig. Sgd.) H. G. Scoville
 District Engineer

[Handwritten Signature]



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
CONSERVATION BRANCH

Sec. 6
T. 1 S.
R. 2 W.

INDIVIDUAL WELL RECORD

Uinta Mer.

INDIAN LAND:

Date July 11, 1951

Ref. No. 1

Reservation Uintah and Ouray State Utah
Ute Tribal I-109-5347 County Duchesne
 Lessee The Carter Oil Co. and Stanolind Oil and Gas Co. Field Bluesbell Unit Area
 Operator The Carter Oil Company District Salt Lake City
 Well No. 1 Subdivision C SW ^{NE} 1/4

Location 1980 ft. from N. line and 1980 ft. from E. line of sec. 6

Drilling approved March 2, 19 50 Well elevation 6559 feet

Drilling commenced March 21, 19 50 Total depth 12,518 feet

Drilling ceased May 6, 19 51 Initial production _____

Completed for production _____, 19 _____ Gravity A. P. L.

Abandonment approved May 20, 1953 Initial R. P. _____

Geologic Formations		Productive Horizons	
Surface	Lowest tested	Name	Depth
<u>Duchesne River</u>	<u>Nasatch</u>		

WELL STATUS

Year	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
1950			DRG	DRG	DRG	DRG	DRG	DRG	DRG	DRG	DRG	DRG
1951	DRG	DRG	DRG	DRG	Abd							
1953												

REPLACE

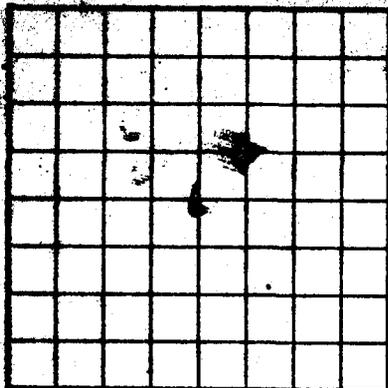
Casing:

42' 23" cc w/55 sax at 53'
942' 16" cc w/1200 sax
7" cc at 11,138' w/350 sax - recovered ³⁰⁶²~~3016~~'

Tops:

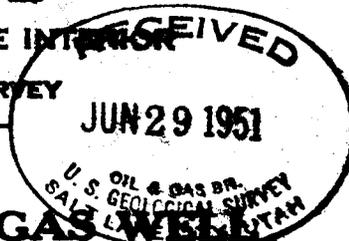
Uinta	3995'	(tentative)
Green Arch	5980'	
Wasatch	7000'	
	11,650'	"
	12,082	

U. S. LAND OFFICE Uintah and Ouray
Ute Tribal
 SERIAL NUMBER _____
 LEASE OR PERMIT TO PROSPECT 5347
Blustell Well No. 2



LOCATE WELL CORRECTLY

UNITED STATES
 JUL 11 1951 DEPARTMENT OF THE INTERIOR
 GEOLOGICAL SURVEY
 APPROVED UNIT
 ORIGINAL FORWARDED TO CASPER



LOG OF OIL OR GAS WELL

Company The Carter Oil Company Address Box 120, Denver 1, Colorado
 Lessor or Tract _____ Field Blustell State Utah
 Well No. 2 Sec. 6 T. 12 R. 24 Meridian T. 12 N. R. 24 W. County Park
 Location 1900 ft. N. of 1/2 Line and 1900 ft. S. of 1/2 Line of Section 6 Elevation 5777
(Elevation feet 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.
 Signed COPY ORIGINAL SIGNED C. L. COOKSEY
 Date June 22, 1951 Title Division Production Superintendent

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

Commenced drilling March 21, 19 50 Finished drilling May 5, 19 51

OIL OR GAS SANDS OR ZONES
 (Denote gas by G)

No. 1, from _____ to _____ 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 _____ 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—	

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>2 1/2"</u>	<u>5</u>	<u>6</u>	<u>Balliburton</u>		
<u>1 1/2"</u>	<u>900</u>	<u>1800</u>	<u>Balliburton</u>		
<u>7"</u>	<u>11130</u>	<u>350 & 350 Cu. Ft.</u>	<u>Stratocrete and 1/2 Bentonite</u>		

PLUGS AND ADAPTERS

Adapters Material

Length

Depth

SHOOTING RECORD

POOR COPY

Size

Shell used

Explosive used

Quantity

Date

Depth shot

Depth cleaned out

TOOLS USED

Rotary tools were used from 0 feet to 12,518 feet, and from ... feet to ... feet. Cable tools were used from ... feet to ... feet, and from ... feet to ... feet.

DATES

Put to producing ... 19... barrels of fluid of which ... % was oil; ... % Gravity, 36. Guller's gasoline per 1,000 cu. ft. of gas ...

EMPLOYEES

Driller ... Driller ... Driller

FORMATION RECORD

FROM

TOTAL FEET

FORMATION

SURFACE

7775

Duchesne River

Sandstone, buff to reddish brown, fine to coarse, very conglomeratic. Very poorly sorted and dirty. Most slightly limey. Many interbeds of red, with some green, silty shales. Contained minor amount of tuffaceous material and traces of pyrite, gypsum and anhydrite.

3975

7000

3005

Uinta

Shale, drab, tannish-yellow, minor amounts of red and green. Scattered, comparatively thin beds of sandstone similar to those of the Duchesne River. Traces of gray, dense limestone in lower 500 feet. Traces of ash, anhydrite, and gypsum.

7000

7895

895

Green River

Shale, red, green and drab yellow. Some dark carbonaceous shale. Some gray, dense limestone.

7895

8740

845

Sandstone, fine, tight, very limey. Much oil stain. Some thin conglomerates. Some thin beds of dark gray oil shale.

(OVER)

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION
8740	9650	910	Oil Shale, brown, calcareous. Some fine, tight, oil stained sandstone beds.
9650	10,476	826	Siltstone and sandstone, gray, dense, some oil stain in sands. Few thin beds of oil shale and gray, limey shale as above. Some thin fossiliferous limestones in lower 400 feet.
10,476	12,082	1606	As above, with shale trending toward a greenish gray color. Abundant ostracods in upper 700 feet.
12,082	12,518	436	Wasatch Formation Shale, red, green and gray. Mostly mottled. Some scattered dark shales as in green river above. Few unsorted sands and silts with traces of oil stain.

April 26, 1965

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

Re: Well No. Bluebell Unit #1
Sec. 6, T. 1 S., R. 2 W.,
Duchesne County, Utah

Gentlemen:

Upon checking our files we find that we do not have electric and/or radioactivity logs for the above mentioned well. This well was drilled prior to the establishment of the Commission, however, we are making an attempt to complete our records on wells that have been drilled in the state.

It would be appreciated if you could forward said logs to this office as soon as possible.

Thank you for your assistance in this request.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

KATHY G. WARNER
RECORDS CLERK

kgw



HUMBLE OIL & REFINING COMPANY

DENVER, COLORADO 80201

CENTRAL REGION

P. O. BOX 120

DENVER AREA

W. P. RYMAN
AREA EXPLORATION MANAGER

J. ROY DORROUGH
AREA PRODUCTION MANAGER

April 29, 1965

Kathy G. Warner
Utah State Oil & Gas Conservation Comm.
348 East South Temple - Suite 301
Salt Lake City, Utah 84111

Dear Miss Warner:

In answer to your request we are sending you copies of the electric, radioactivity and microlog on our Bluebell Unit #1, located in Sec. 6, T 1 S - R 2 W, Duchesne County, Utah.

Very truly yours,

HUMBLE OIL & REFINING COMPANY

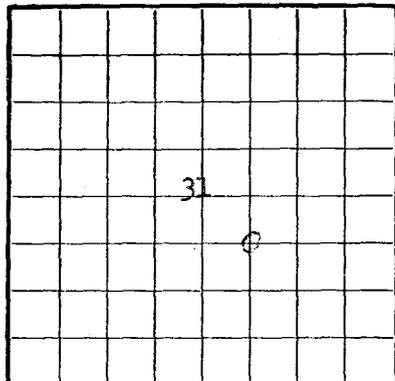

Ray H. Tuell

j
Enclosures



STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

Salt Lake City, 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 Humble Oil & Refining Co. Address P. O. Box 120, Denver, Colorado 80201

Lease or Tract _____ Field Bluebell State Utah

Well No. 1 Sec. 6 T. 1S R. 2W Meridian U S M County Duchesne

Location 1980 ft. $\left\{ \begin{matrix} N. \\ S. \end{matrix} \right\}$ of N Line and 1980 ft. $\left\{ \begin{matrix} E. \\ W. \end{matrix} \right\}$ of E Line of Section 6 Elevation 6559'
(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.

Signed _____
Title District Operations Supt.

Date January 25, 1966

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

Commenced drilling March 21, _____, 1950 Finished drilling May 5, _____, 1951

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from _____ to _____ 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 _____ 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-	
23"		Welded		42'		None			
16"	65 & 75	8	H40-J55	972'		None			
7"	23 to 32	8	N-80	11211'		3062'			

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
23"	53	65	Halliburton		
16"	962	1200	Halliburton		
7"	11138	350 & 350 Cu. Ft.	Stratocrete and 4% Bentonite		

MARK

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 0 feet to 12,518 feet, and from feet to feet

Cable tools were used from feet to feet, and from feet to feet

DATES

Date P & A, 19..... Put to producing, 19.....

~~The production for the first 24 hours was~~ Dry and Abandoned
 The production for the first 24 hours was barrels of fluid of which% was oil;% emulsion;% water; and% sediment. Gravity, °Bé.

If gas well, cu. ft. per 24 hours Gallons gasoline per 1,000 cu. ft. of gas

Rock pressure, lbs. per sq. in.

EMPLOYEES

....., Driller Driller

....., Driller Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
			At the end of complete Driller's Log add Geologic Tops. State whether from Electric Logs or samples.
Surface	3995	3995	Duchesne River Sandstone, Buff to reddish brown, fine to coarse, very conglomeratic. Very poorly sorted and dirty. Most slightly limey. Many interbeds of red, with some green, silty shales. Contained minor amounts of tuffaceous materials and traces of pyrite, gypsum and anhydrite.
3995	7000	3005	Uinta Shale, drab, tannish-yellow, minor amounts of red and green. Scattered, comparatively thin beds of sandstone similar to those of the Duchesne River. Traces of gray, dense limestone in lower 500 feet. Traces of ash, anhydrite, and gypsum. Shale, red, green and drab yellow. Some dark carbonaceous shale. Some gray, dense limestone.
7895	8740	845	Green River Sandstone, fine tight, very limey. Much oil stain. Some thin conglomerates. Some thin beds of dark gray oil shale.

[OVER]

JAN 28 1966

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION
8740	9650	910	Oil Shale; Brown, calcareous. Some fine, tight, oil stained sandstone beds.
9650	10,476	826	Siltstone and sandstone, gray, dense, some oil stain in sands. Few thin beds of oil shale and gray, limey shale as above. Some thin fossiliferous limestones in lower 400 feet.
10,476	12,082	1606	As above, with shales tending toward a greenish gray color. Abundant ostracods in upper 700 Feet.
12,082	12,518	436	Wasatch Formation: Shale, red, green and gray. Mostly mottled. Some scattered dark shales as in Green River above. Few unsorted sands and silts with traces of oil stain.

13-2W

CARTER AND STANOLIND, BLUEBELL #1
 DUCHESNE COUNTY, STATE OF UTAH
 Elevation 6559 ft.

D.S.T. #1

7936 to 7996

Open	12:10 PM	Recovered 1020 feet fluid. 30 ft. mud and oil about 50/50. 990 feet oil, gas and water cut mud. Salinity 26,000 ppm. Weight of recovered fluid 8.9 lbs/gal. Weight of clear drilling fluid 9.8 lbs/gal.
Closed	2:25 PM	
IFP	250 lbs.	
FFP	500 lbs.	
SIP	1700 plus	
S. I.	15 min.	

Oil is low gravity, probably in 20's; however, it was too badly emulsified and mud cut to get exact gravity. Black color pore-point about 70°.

Fluid was heavily gas charged. High salinity of filtrate proves formation water; however, slight decrease of weight indicates this cut to be very slight.

D.S.T. #2

7975 to 8011

Open	1:00 PM	Received 180 feet plus slightly gas cut drilling mud. A circulating sub., two stands above the tool opened accidentally coming out of the hole. Part was lost. No oil evident.
Closed	3:15 PM	
S. I.	15 min.	
IFP	115 lbs.	
FFP	260 lbs.	
SIP	3410 lbs.	

D.S.T. #3

8076 to 8106

Open	2 hrs.	Received 4150 feet gas cut drilling fluid. Good blow for 50 minutes, then gradually decreased.
S. I.	15 min.	
IFP	1330 lbs.	
FFP	2020 lbs.	
SIP	3360 lbs.	

D.S.T. #4

8168 to 8192

Open	2 hrs. 40 min.	Received 960 feet heavily gas cut mud. Some oil and slight water cut in lower 500 feet.
S.I.	25 minutes	
IFP	400 lbs.	Good blow for 40 minutes, then decreased steadily to end of test. The appearance of oil in the lower
FFP	800 lbs.	
SIP	3300 lbs.	

part of the column would indicate that oil entry had just begun about the last part of the test.

It is uncertain just how much mud had been lost in this zone, but it is doubtful that a D.S.T. of any length could completely exhaust it. The oil and water cut pulled the mud weight down from a normal 9.9 to 9.3. Salinity 1200 ppm.

BLUEBELL #1

D.S.T. #58204 to 8243

Open	3 hrs. 15 min.
S. I.	15 min.
IFP	410 lbs.
FFP	1000 lbs.
SIP	----

FLUID SAMPLE ANALYSIS		
Top	9.04	Bottom 9.0
WL.	2.7	3.4
Sal.	1200 ppm	6100 ppm.

Received 1890 feet gas cut drilling mud. Slight oil and water cut in lower 800 feet.

Blow was very good throughout test although weaker at end than at beginning. Formation is badly fractured and although packer was holding, mud was apparently going around packer through formation.

D.S.T. #68255 to 8278

Open	1 hr.
S. I.	15 min.
IFP	0 lbs.
FFP	500 lbs.
SIP	500 lbs.

Received 1005 ft. drilling fluid. Very weak blow for 40 minutes. Most of recovered fluid was lost in hole while setting tool.

D.S.T. #78369 to 8406

Open	2 hrs. 30 min.
S. I.	20 min.
IFP	100 lbs.
FFP	100 lbs.
SIP	2760 lbs. plus

Received 250 feet oil and gas cut drilling mud. Top 45' very heavily oil cut. Light blow steady throughout test. Shut in pressure did not reach final build up. Estimated S.I.P. well in excess of 3000 lbs.

D.S.T. #88680 to 8767

Open	3½ hrs.
S.I.	30 min.
IFP	350 lbs.
FFP	1000 lbs.
SIP	Not obtained

Gas to surface in 3 hrs. Received 2340 feet fluid. Top 450 feet oil gas and water cut drilling fluid. Remaining 1890 feet water. Salinity, 1000 ppm. Very strong blow immediately after opening tool.

Increased slightly and gradually for first 3 hours. Decreased very slightly during last 30 minutes after gas reached surface.

BLUEBELL #1

D.S.T. #9

<u>8949 to 9055</u>	
Open	1½ hrs.
S. I.	10 min. (4100 lbs.)
IFP	300 lbs.
FFP	550 lbs.
SIP	4100 lbs.

Received 810 feet gas out of drilling fluid. Very slight oil cut. Fair blow for 10 minutes. Increased to very strong for 20 min. Decreased to approximately initial rate during last hour.

D.S.T. #10

<u>9206 to 9326</u>	
Open	1½ hrs.
IFP	0
FFP	120 lbs.
SIP	0 (15 min.)

Received 185 feet drilling fluid. Slight initial blow decreasing throughout test.

D.S.T. #11 9-19-50

<u>9400 to 9509</u>	
Open	2 hrs.
S. I.	10 min.
IFP	120 lbs.
FFP	240 lbs.
SIP	240 lbs.

Received 321 feet slightly gas cut drilling fluid. Fair blow for 1 hour. Died gradually during duration of test.

D.S.T. #12

<u>9640 to 9745</u>	
Open	1½ hrs.
S. I.	15 min.
IFP	0
FFP	150 lbs.
SIP	150 lbs.

Received 315 feet mud, very slightly gas cut. Weak blow dead in 40 min.

D.S.T. #13

<u>9783 to 9827</u>	
Open	30 min.
S. I.	20 min.
IFP	0 lbs.
FFP	300 lbs.
SIP	4150 lbs.

Received 270 feet mud, slightly gas cut. Blow weak. Dead in 7 min.

D.S.T. #14

<u>9784 to 9891</u>	
Open	5 hrs.
S. I.	15 min.
IFP	325 lbs.
FFP	1000 lbs.
SIP	3200 lbs.

Received 1890 feet gas cut mud and 90 feet salt water and mud. Strong blow 2-45, fair 1-30, weak 45.

BLUEBELL #1D.S.T. #159898 to 9978

Open	5 hrs.
S. I.	15 min.
IFP	770 lbs.
FFP	2495 lbs.
B.H. SIP	2495 lbs.

Received 5490 feet heavily gas cut fluid. Bottom 3000 feet mud cut brackish water. Very slight blow decreasing to weak at end of test.

D.S.T. #1610,017 to 10,087

Open	2 hrs.
S. I.	15 min.
IFP	235 lbs.
FFP	415 lbs.
SIP	2665 lbs.
Hyd. Mud P.	5315 lbs.

Received 780 feet of gas cut mud. No oil show. Good initial blow decreasing gradually throughout test.

D.S.T. #1710,083 to 10,186

Open	1 hr., 5 min.
S. I.	20 min.
IFP	300 lbs.
FFP	2100 lbs.
SIP	4300 (?) lbs.

Received 5410 feet heavily gas cut drilling mud--top 500 feet oil cut. Appeared water cut in spots. Analysis of single mud sample from pipe did not show any water. Believe mud bypassing packer either directly or through formation. Recorded shut in pressure is probably breakdown pressure of formation.

D.S.T. #1810,100 to 10,186

Open	1 hr., 5 min.
S.I.	15 min.
IFP	400 lbs.
FFP	1300 lbs.
SIP	----

Received 2700 feet fluid. Top 560 ft oil and mud. Remainder is oil and mud cut water. Very heavy oil cut at top of water column decreasing downward. Est. oil/water ratio in excess 20/1.

D.S.T. #1910,209 to 10,257

Open	2½ hrs.
S. I.	25 min.
IFP	300 lbs.
FFP	2325 lbs.
B.H. SIP	4275 lbs.

Received 360 feet gas cut mud, 4290 feet gas cut brackish water.

BLUEBELL #1

D.S.T. #2010,300 to 10,326

Open	2 hrs.
S. I.	20 min.
IFP	200 lbs.
FFP	200 lbs.
SIP	---

Received 90 feet drilling mud, 5 ft. black, high pore-point oil. Fairly light blow at beginning of test decreasing gradually to about 50% of initial blow by end of test.

D.S.T. #2110,349 to 10,377

Open	2 hrs., 15 min.
S. I.	15 min.
IFP	200 lbs.
FFP	1325 lbs.
SIP	3850 lbs.

Received 2950 feet heavily gas cut brackish water. Very slight oil cut.

D.S.T. #2210,485 to 10,525

Open	2 hrs.
S. I.	15 min.
IFP	300 lbs.
FFP	300 lbs.
SIP	3500 plus lbs.

Received 600 feet of oil and mud. Fluid was so badly intermixed no quantitative determination of relative amounts was possible. 30 to 40% oil--conservative figure.

Identical to the Ute Tribal type of oil. Shut in pressure lacked complete build up, indicating extreme tightness of tested fracture. Initial blow weak and increased steadily, after 20 minutes stayed steady.

D.S.T. #2310,591 to 10,643

Open	1½ hrs.
S. I.	15 min.
IFP	425 lbs.
FFP	1050 lbs.
SIP	----

Received 2100 feet fluid. Top 180 feet drilling mud, no cut. 1920 feet oil, gas and mud cut water. Fairly strong initial blow decreased gradually throughout test. Estimated oil cut 3-5%.

D.S.T. #2410,737 to 10,787

Open	1 hr.
S. I.	15 min.
IFP	--
FFP	--
SIP	--

Tool accidentally opened off bottom. 3570 feet drilling fluid. No shows.

D.S.T. #2510,826 to 10,917

Open	1 hr.
S. I.	15 min.
IFP	0 lbs.
FFP	150 lbs.
SIP	150 lbs.

Received 510 feet drilling fluid. No shows. Light initial blow died in 45 minutes.

BLUEBELL #1

D.S.T. #26 12-28-50

<u>11,046 to 11,138</u>	
Open	1 hr.
S. I.	20 min.
IFP	110 lbs.
FFP	295 lbs.
SIP	485 lbs.
Hyd. Mud P.	5710 lbs.

Received 465 feet drilling mud with slight gas cut and scum of oil at top of column. Upper few feet had slight oil cut. Very slight blow, decreasing gradually to end.

D.S.T. #27

<u>11,155 to 11,235</u>	
Open	1 hr.
S. I.	15 min.
IFP	190 lbs.
FFP	225 lbs.
SIP	950 lbs.
Hyd. Mud P.	5790 lbs.

Received 335 feet drilling fluid with slight gas cut and slight oil cut at top of column. Light initial blow decreasing gradually during test.

D.S.T. #28

<u>11,230 to 11,348</u>	
Open	30 min.
IFP	60 lbs.
FFP	125 lbs.
SIP	360 lbs.

Received 100 feet mud. No show. Slight blow died in 10 minutes.

D.S.T. #29

<u>11,349 to 11,400</u>	
Open	1 hr.
S. I.	15 min.
IFP	225 lbs.
FFP	225 lbs.
SIP	---

Received 300 feet mud with slight oil and gas cut. Top 10 feet had fairly heavy oil cut. Oil appeared to be a more distinct green color than that previously recovered.

D.S.T. #30?

<u>11,398 to 11,551</u>	
Open	2 hrs.
S. I.	15 min.
IFP	60 lbs.
FFP	340 lbs.

Recovered 645 feet gas cut drilling fluid with slight oil cut in upper 90 feet.

D.S.T. #31? 2-16-51

<u>11,732 to 11,873</u>	
Open	1 hr., 35 min.
S. I.	15 min.
IFP	50 lbs.
FFP	120 lbs.
SIP	150 lbs.

Received 285 feet drilling mud. No shows.

TWO DRILL STEM TESTS MISSING

BLUEBELL #1

D.S.T. #3311,918 to 12,072

Open	40 min.
IFP	60 lbs.
FFP	60 lbs.
SIP	180 lbs.

Received 180 feet mud. No show.

D.S.T. #3412,288 to 12,354

Open	2 3/4 hrs.
IFP	110 lbs.
FFP	160 lbs.
SIP	200 lbs.

Received 95 feet oil cut and slightly gas cut mud.

D & A

ELEVATION 6,659 RB

NOTES:

Want 50% farm out. Seis will not guarantee S. high east of initial well.
This well cost \$650,000. Sloan would accept undivided one-half for free well.

Next well should be at least 12,000 ft. deep since 10,000 foot well only penetrated half of Unit D.

Omit 27

Carter Oil Co. - Stanolind Oil & Gas, #1 Unit Bluebell
C SW NE 6-1S-2W
Duchesne County, Utah

RE-EXAMINATION OF CORES
By George Shapard

Core #4 8061 - 8073' Cored 12', recovered 6'
8061-8061.3' 0.3' Sandstone, gray, very fine grained, calcareous, hard and tight, oil saturated and with much dark brown to black oil on a fracture.
8061.3-8062' 0.7' Shale, black, massive, slightly calcareous and very finely pyritic with micro granules pyrite.
8062-8063' 1.0' Sandstone, gray, calcareous, hard and tight with few fine and finely disseminated black oil specks and occasional fine well-stained streak.
8063-8066' 3.0' Shale, black, calcareous, fractured and very finely pyritic as above.
8066-8067' 1.0' Sandstone, gray, very fine grained, calcareous, hard and tight, with few finely disseminated fine specks black oil.
8067-8073' No return.

Core #5 Don't have.

Core #6 Don't have number code.

Core #7 8204 - 8231'
8204-8205' 1.0' Sandstone, gray, very fine grained, calcareous, hard and tight, oil saturated and with dark brown-black oil on fractures.
8205-8207.5' 2.5' Sandstone, gray, very fine grained, spotty to fair saturation, some is barren of saturation and stained only on fractures.
8207.5-8210' 2.5' Dolomite, dark gray, argillaceous, dense, very finely disseminated micro-granular pyrite, apparently fractured.
8210-8210.5' 0.5' Sandstone, gray, fair to well sorted with few fine to medium sized grains dark gray microcrystalline chert, poor and spotty oil saturation with a fair stained fracture.
8210.5-8215' 4.5' Sandstone, gray, very fine grained, calcareous, hard and tight, well saturated with dark brown oil, fractured with live black oil on fractures.
8215-8218' 3.0' Sandstone, gray, very fine grained, calcareous, hard and tight and barren of oil saturation, fractured, with spotty black dead oil on fractures.
8218-8219' 1.0' Sandstone, gray, very fine grained, calcareous, hard and tight, conglomeratic texture with fine to medium sized grains microcrystalline dark gray dolomitic grains, barren of saturation.
8219-8220' 1.0' Sandstone, gray, very, very fine grained (siltstone), calcareous, hard and tight, with poor brown oil saturation in a thin streak.

Carter-Stanolind, #1 Bluebell
Duchesne County, Utah

- 8220-8222' 2.0' Sandstone, gray, very fine grained, calcareous, hard and tight, well sorted, with fair to good brown oil saturation, fractured with dark brown to black oil on fractures.
- 8222-8223' 1.0' Sandstone, gray, very fine grained (siltstone), well sorted, calcareous, hard and tight, barren of oil saturation except for 2 or 3 stained laminae and a thin $\frac{1}{2}$ " streak.
- 8223-8225' 2.0' Sandstone, gray, as above, but stained and poorly saturated streaks become more numerous and appear to have a concave-convex pattern probably due to depositional current action.
- 8225-8230' 5.0' Sandstone, gray, very fine grained, well sorted, hard and tight, fair to well saturated with brown oil, well fractured and with live black oil on fracture surfaces.
- 8230-8231' 1.0' Sandstone, gray, very, very fine grained (siltstone), well sorted, calcareous, hard and tight, with 3 or 4 black dead oil laminae.
- Core #8 8231 - 8243'
- 8231 - 8231' 1.0' Marl, brown, very dolomitic, with many fine brown micaceous shale laminae.
- 8231-8232' 1.0' Dolomite, dark gray, dense, with an occasional brown petroliferous shale laminae and very small crystalline calcite inclusion.
- 8232-8233' 1.0' Marl, very dolomitic, laminated with many fine brown laminae
- 8233-8234' 1.0' Sandstone, gray, very fine grained to siltstone, calcareous, well sorted, hard and tight, barren of oil stain and saturation except for few very fine streaks or laminae of black pitchy oil and a vertical fracture
- 8234-8235' 1.0' Sandstone, gray, fine grained, calcareous, hard and tight, barren of oil saturation and very, very faintly stained with vertical fracture
- 8235-8237' 2.0' Sandstone, gray, very fine grained, well sorted, calcareous and hard and tight, well saturated with brown-black oil; thin streak dark gray shale
- 8237-8238' 1.0' Sandstone, gray, fine to medium grained, well sorted, calcareous, hard and tight, with poor oil saturation to well oil stained, and fractured.
- 8238-8239' 1.0' Sandstone, brown-gray, very fine grained to siltstone, hard and tight, well stained with brown oil stain and fair saturation.
- 8239-8241' 2.0' Siltstone, gray, calcareous, hard and tight with some fractures and slightly stained to barren of oil stain.
- 8241-8243' 2.0' Sandstone, gray, very fine grained, hard and tight, spotty oil stain in upper 1', becoming fine grained sandstone and well saturated in lower 1'

Carter-Stanolind #1 Bluebell
Duchesne County, Utah

Core #9	Interval	Thickness	Description
	8243 - 8278'		
	8243-8244.7'	1.7'	Sandstone, gray, very fine grained, soft, calcareous and tight, well stained but poor oil saturation, occasional minute black pitchy gilsonitic inclusion and streaked with black shaly streaks.
	8244.7-8245'	0.3'	Sandstone, gray, very fine grained, becoming conglomeratic at base, grades into black, hard shaley dolomite
	8245-8248.5'	3.5'	Sandstone, brown-gray, very fine grained, calcareous, hard and tight, very well saturated with dark brown-black oil and fractures
	8248.5-8250'	1.5'	Sandstone, brown-gray, fine grained, calcareous, hard and tight and very conglomeratic with some angular and sub-angular pebbles, white and brown chert, brown micro-crystalline dolomite, white anhydrite and many gilsonite pebbles; barren of oil saturation but well stained.
	8250-8260'	10.0'	Limestone, ^{brown} micro-crystalline, dense, argillaceous and slightly silty, well stained and with oily streaks and with a streak brown-gray, hard and tight siltstone or very fine grained sandstone.
	8260-8264'	4.0'	Sandstone, gray, very fine grained, well-sorted, slightly calcareous, hard and tight, fair oil saturation and well stained
	8264-8264.5'	0.5'	Sandstone, brown-gray, fine to medium grained, poorly sorted with grains reworked material, poorly saturated to well oil stained, calcareous, hard and tight.
	8264.5-8265'	0.5'	Sandstone, brown, fine grained, slightly calcareous, hard and tight, poor oil saturation but very well stained.
	8265-8266.5'	1.5'	Siltstone or very fine grained sandstone, brown-gray, calcareous, hard, tight and well stained but poorly saturated.
	8266.5-8267'	0.5'	Sandstone, brown-gray, fine to medium grained, slightly conglomeratic with small pebbles and grains reworked material, calcareous, well cemented, hard and tight, fair and slightly spotty staining.
	8267-8268.5'	1.5'	Limestone, brown, dolomitic, argillaceous and silty, stained and fractured, finely disseminated minute pitchy carbonaceous specks and very slightly pyritic.
	8268.5-8270'	1.5'	Sandstone, brown-gray, fine grained, slightly conglomeratic, well cemented, calcareous, hard and tight, well stained, poor and spotty saturation with black oil.
	8270-8271.5'	1.5'	Sandstone, brown-gray, fine to medium grained, well cemented, calcareous, hard and tight, fair to well saturated with brown-black to black oil having very slight odor, fractures with spotted brown-black oil on fracture surfaces.

Carter-Stanolind, #1 Bluebell
Duchesne County, Utah

- 8271.5-8273' 1.5' Sandstone, brown-gray, coarse grained, fairly sorted, well cemented, calcareous, hard and tight, well stained and spotty good oil saturation with brown-black to black slight odor oil.
- 8273-8275' 2.0' Sandstone, brown-gray, fine to very fine grained, well cemented, calcareous, hard and tight, well stained to poor saturation with spotty good saturation with black, very slight odor, live oil.
- 8275-8278' 3.0' Siltstone or very fine grained sandstone, brown-gray, well cemented, calcareous, hard and tight, fair sorted with occasional coarse sand sized grains, and slightly stained.

Core #10 8364 - 8406'

- 8364-8366' 2.0' Siltstone, brown-gray, slightly calcareous and hard, traces dead oil on few horizontal fractures or bedding planes, some shaley laminae at base.
- 8366-8371' 5.0' Limestone, dark brownish gray, micro-crystalline-dense, argillaceous and hard, with few black shale laminae.
- 8371-8373' 2.0' Sandstone, very fine grained, well sorted and cemented, slightly calcareous, hard and tight, well saturated with brown-black oil.
- 8373-8380' 7.0' Shale, brown-gray, slightly calcareous to dolomitic, hard.
- 8380-8385' 5.0' Sandstone, gray, very fine grained to siltstone, well sorted and cemented, calcareous, hard and tight, with few tight laminae or bedding planes with dead black oil residue.
- 8380-8398' 13.0' Sandstone, gray, very fine grained, well sorted and cemented, slightly calcareous to dolomitic, hard and tight, generally well oil stained with negligible oil saturation, occasional small area barren of saturation and stain.
- 8398-8406' 8.0' Shale, black, tightly compacted, hard and quite limey.

Core #11 8624 - 8687'

- 8624-8631' 7.0' Sandstone, gray, very fine grained, well sorted and cemented, slightly calcareous to dolomitic, hard and tight, with spotted good oil stain and negligible brown oil saturation.
- 8631-8635' 4.0' Shale, black, finely and tightly laminated, quite limey and hard.
- 8635-8639' 4.0' Sandstone, gray to brown-gray, very fine grained to siltstone, well sorted and cemented, calcareous, hard and tight, well stained with brown oil, spotty poor saturation with brown-black oil.

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- 8639-8649' 10.0' Shale, black, finely and tightly laminated, dolomitic and hard with fine interlaminae of brown-gray dense, argillaceous, dolomitic limestone, and a thin streak of brown-gray, limey, very fine grained sandstone or siltstone with dead oil on a bedding plane.
- 8649-8654' 5.0' Dolomite, dark brown-gray, argillaceous, microcrystalline to dense, slightly pyritic with micrograins of pyrite, and occasional carbonized fragment mold.
- 8654-8657' 3.0' Siltstone, brown-gray, calcareous, hard and tight, conglomeratic texture with small pebbles of reworked brown-black soft shale, brown-gray, dense, microcrystalline, argillaceous limestone, and occasional carbonized plant(?) remain.
- 8657-8658' 1.0' Siltstone, gray, calcareous, hard and tight, with many stained shaley laminae or beddings.
- 8658-8659' 1.0' Siltstone or very fine grained sandstone, pale gray, calcareous, well cemented, barren of stain.
- 8659-8666' 7.0' Dolomite, brown-gray, microcrystalline and hard with some black shale laminae.
- Core #12 8725 - 8767'
- 8725-8732' 7.0' Siltstone, or very fine grained sandstone, gray, well cemented, dolomitic, hard and tight, well stained and negligible oil saturation.
- 8732-8735' 3.0' Sandstone, gray, fine grained, well-cemented, hard and tight, conglomeratic with granules and small pebbles reworked shale, limestone and a soft, white calcic evaporite salt.
- 8735-8751' 16.0' Limestone, brown-black, very argillaceous, argillaceous, with abundant black shaley laminae, and a single gilsonite encrusted horizontal fracture or slippage plane.
- 8751-8752.5' 1.5' Sandstone, very fine grained, well sorted and cemented, slightly calcareous, hard and tight, fair general saturation with brown-black oil.
- 8752.5-8767 14.5' Shale, dark brown to black, very hard, limey and massive (almost a very argillaceous limestone), slightly pyritic with micro granules of pyrite.
- Core #13 8955 - 9005'
- 8955-8957.5' 2.5' Sandstone, gray, very fine grained, well sorted and cemented, dolomitic, hard and tight, many rounded granules gilsonite, well stained and with negligible oil saturation.
- 8957.5-8959' 1.5' Sandstone, gray, very fine grained, well cemented, calcareous, hard and tight, conglomeratic with medium to coarse sand sized grains gilsonite.
- 8959-8963' 4.0' Shale, brown-black, finely and very tightly laminated, petroliferous, limey and hard.

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- 8963-8964' 1.0' Siltstone, tan-gray, or very fine grained sandstone, calcareous, hard and tight, barren of stain or saturation, trace dead black oil residue in near-horizontal bedding.
- 8964-8966' 2.0' Shale, brown-black, dolomitic to slightly limey, petroliferous, hard, many carbonized plant(?) fragments on bedding, and with finely disseminated pyrites; some of the shale is well laminated but hard.
- 8966-8968.5' 2.5' Sandstone, very fine grained, brown-gray, slightly calcareous, well cemented, hard, tight and fractured, fair to good general staining and negligible saturation, residual or dead oil in near-vertical fractures.
- 8968.5-8976' 7.5' Shale, brown-black, petroliferous, slightly limey to dolomitic and hard, organic as above.
- 8976-8982' 6.0' Sandstone, brown-gray, very fine grained, well sorted and cemented, fair staining but negligible saturation, some dead oil on near-horizontal tight fracture or bedding.
- 8982-8986' 4.0' Shale, black, moderately petroliferous, laminated, limey and hard, some bulbous forms (distorted ostracods?) on bedding.
- 8986-8987' 1.0' Dolomite, brown, hard, dense and argillaceous, with many small lenses pale green dolomitic, hard siltstone and black oil on horizontal slip planes and some pebble surfaces.
- 8987-8999' 12.0' Dolomite, brown-black, micro-crystalline to dense, hard and argillaceous with many shaley laminae.
- 8999-9001' 2.0' Shale, black, petroliferous, dolomitic and hard with interlaminae of brown dense dolomite, as above.
- 9001-9002' 1.0' Sandstone, brown-gray, very fine grained to fine grained, slightly calcareous to dolomitic, very tightly cemented, hard and tight, oil stained but negligible oil saturation.
- 9002-9005' 3.0' Sandstone, brown-gray, very fine grained, calcareous, very tightly cemented, hard and tight, conglomeratic with reworked small pebbles white hard siltstone and a few chert pebbles, spotted oil stain.
- Core 9005 - 9055'
- 9005-9008' 3.0' Sandstone, gray to brown-gray, very fine grained, very tightly cemented, slightly calcareous, hard and tight, spotted oil stain, barren areas have few fine, stained laminae or bedding.
- 9008-9010' 2.0' Dolomite, brown-black, argillaceous, hard and organic (dolomitic marlstone).
- 9010-9012' 2.0' Sandstone, brown-gray, very fine grained, very tightly cemented, hard, tight and dolomitic, well oil stained with negligible saturation.
- 9012-9020' 8.0' Sandstone, pale gray, very fine grained, very tightly cemented, well sorted, limey, with spotted oil stain and poor saturation, with a very thin stringer black dolomitic, petroliferous, laminated, hard shale.

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- 9020-9023' 3.0' Sandstone, dark gray, very fine grained, very tightly cemented, calcareous, hard and tight, with a laminae of black, massive, sparsely petroliferous shale.
- 9023-9030' 7.0' Siltstone, dark gray, very tightly cemented, very hard, slightly calcareous, conglomeratic with pebbles microcrystalline white chert and occasional laminae brown-black, petroliferous shale.
- 9030-9031' 1.0' Sandstone, brown-gray, very fine grained, very tightly cemented, siliceous to slightly dolomitic, well sorted and oil stained.
- 9031-9046' 15.0' Sandstone, gray, very fine grained, very tightly cemented, well sorted, slightly dolomitic, hard and tight, with spotty oil stain and occasional black, petroliferous shale laminae.
- 9046-9047' 1.0' Sandstone, brown-gray, very fine grained, very tightly cemented, well sorted, dolomitic, fair general oil stain with occasional spotted poor brown oil saturation, hard and tight.
- 9047-9053' 6.0' Limestone, brown-gray, microcrystalline to dense and hard with abundant fine black petroliferous shale laminae.
- 9053-9055' 2.0' Sandstone, brown-gray, very fine grained, well sorted, very tightly cemented, slightly dolomitic, hard and tight, with good oil staining and negligible saturation.

Core #16 9056- 9064'

- 9056-9058' 2.0' Sandstone, brown-gray, very fine grained, well sorted, very tightly cemented, slightly calcareous, hard, tight, fractured with good oil staining and negligible saturation.
- 9058-9059' 1.0' Sandstone, dark gray, fine grained, well sorted, calcareous, very tightly cemented, hard, tight and stained with a single black shale laminae.
- 9059-9060' 1.0' Siltstone or very fine grained sandstone, slightly calcareous, very tightly cemented, hard, tight, good oil stain and a near-vertical, relatively smooth sided fracture with minor amount residual oil.
- 9060-9061.5' 1.5' Limestone, brownish dark gray, argillaceous and dense with one or two black shaley laminae.
- 9061.5-9063' 1.5' Sandstone, brown-gray, very fine grained, very tightly cemented, slightly calcareous, hard and tight, with stained and spotty poor oil saturation.
- 9063-9064' 1.0' Limestone, brown-gray, microcrystalline to dense, hard, silty and slightly organic with a near-vertical calcite lined fracture.

Core #17 9064 - 9109'

- 9064-9086' 22.0' Shale, dark brown, limey, petroliferous and hard, with some plant(?) fragments on the bedding and occasional laminae black, dense, very argillaceous and organic limestone or marlstone.

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- 9086-9088' 2.0' Siltstone, or very fine grained sandstone, brown-gray, well sorted, very tightly cemented, dolomitic to slightly siliceous, hard, tight, fair to poor general stain and spotty fair brown-black oil saturation, occasional near horizontal fracture or bedding with brown-black almost odorless sticky oil.
- 9088-9101' 13.0' Dolomite, brown, limey, dense, argillaceous and organic, with occasional small flat lenticule of brown-gray, calcareous siltstone, and occasional laminae black, argillaceous, dense, limey dolomite or dolomitic marlstone.
- 9101-9102' 1.0' Siltstone, or very fine grained sandstone, very tightly cemented, slightly calcareous, hard and tight, with a few medium sand sized pebbles black chert and rarely a gilsonite pebble.
- 9102-9105' 3.0' Sandstone, gray, very fine grained, well sorted, very tightly cemented, calcareous, hard and tight with spotty oil stain and occasionally a very small, poorly saturated area.
- 9105-9107' 2.0' Dolomite, brown-black, microcrystalline to dense, very argillaceous, very slightly pyritic with finely disseminated pyrite micro granules (dolomitic marlstone).
- 9107-9109' 2.0' Sandstone, brown-gray, very fine grained, well sorted, very tightly cemented, slightly siliceous, well stained to poorly saturated and contains a few small gilsonite grains, hard and tight.
- Core #18 9109 - 9158'
- 9109-9110.5' 1.5' Sandstone, brown-gray, very fine grained, well sorted, very tightly cemented, slightly dolomitic to siliceous, hard, tight, well stained, spotty poor saturation, with an occasional bedding plane having black dead oil residue.
- 9110.5-9113' 2.5' Shale, black, dolomitic, very hard, moderately petro-liferous, organic with abundant carbonized, some petrolized plant(?) fragments.
- 9113-9114' 1.0' Conglomerate, brown-gray, calcareous, very tightly cemented, gray, white and black chert pebbles in very fine grained sandstone matrix, hard and tight.
- 9114-9115' 1.0' Siltstone or very fine grained sandstone, slightly dolomitic to siliceous, very tightly cemented, hard, tight, fair staining, a single near vertical fracture with trace brown oil stain, and a laminae of black hard shale.
- 9115-9119' 4.0' Sandstone, gray, very fine grained, dolomitic, well sorted, very tightly cemented, spotted good oil stain and spotted fair to good brown-black saturation of oil having a faint sharp odor.
- 9119-9120' 1.0' Limestone, black, microcrystalline to dense, very argillaceous, hard, pyritic with finely disseminated

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- micro granules of pyrite and occasional carbonized plant(?) fragment.
- 9120-9121' 1.0' Sandstone, gray, very fine grained, well sorted, very tightly cemented, slightly dolomitic to siliceous, barren of saturation or stain except trace brown oil stain in a near vertical fracture and black residual dead oil on a horizontally trending leaf(?) mold.
- 9121-9122' 7.0' Shale, dark brown, slightly calcareous, moderately petroliferous, with abundant carbonized plant(?) fragments on the bedding, and laminae of black, pyritic limey dense argillaceous dolomite.
- 9122-9130' 2.0' Sandstone, brown-gray, very fine grained, well sorted, very tightly cemented, hard, tight and stained, with some residual black oil on some bedding.
- 9130-9138' 8.0' Shale, dark brown, slightly calcareous, moderately petroliferous, with some quite pyritic laminae, abundant carbonized some pyritized plant(?) remains on bedding.
- 9138-9141' 3.0' Sandstone, brown-gray, very fine grained to fine grained, well sorted, tightly cemented with dolomitic cement, well stained, spotty fair oil saturation, some spotty good saturation with brown-black, live sticky oil having very faint odor.
- 9141-9143' 2.0' Dolomite, black, dense, very argillaceous and hard.
- 9143-9146' 3.0' Sandstone, brown-gray, very fine grained, well sorted, tightly cemented and hard, well stained, poor to trace saturation and spotty fair to good saturation with brown-black sticky odorless oil.
- 9146-9156' 10.0' Shale, dark gray, tightly laminated, slightly dolomitic, inorganic, and hard with interlaminated dark gray to black, argillaceous, dense dolomite.
- 9156-9158' 2.0' Siltstone or very fine grained sandstone, brown-gray, very tightly cemented, slightly dolomitic to siliceous and hard.
- Core #19 9158 - 9169' 2158-9161' 3.0' sandstone, brown-gray, fine grained to very fine grained, well sorted, very tightly cemented, hard, good oil stain and fair to poor saturation with brown oil.
- 9161-9163' 2.0' Siltstone, gray, very tightly cemented, hard, calcareous with a near vertical fracture.
- 9163-9166' 3.0' Dolomite, dark gray to black, very argillaceous, dense and limey.
- 9166-9168' 2.0' Sandstone, brown-gray, very fine grained, very tightly cemented, slightly dolomitic to siliceous, well stained and fair saturation with brown-black live, odorless oil in a near vertical fracture.
- 9168-9169' 1.0' Siltstone, gray, very tightly cemented, slightly calcareous and hard, with some residual dead black oil on a bedding plane.

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Core #20 9170 - 9194'

- 9170-9171' 1.0' Shale, dark brown, laminated, limey, petroliferous and hard.
- 9171-9173' 2.0' Sandstone, brown-gray, very fine grained, very tightly cemented, slightly dolomitic, hard and tight with good oil stain, fair saturation with some black odorless oil on a near horizontal fracture.
- 9173-9185' 12.0' Shale, black, limey, petroliferous and hard, with obscure laminations and occasional laminae of dark gray, hard, dense dolomite.
- 9185-9192' 7.0' Sandstone, brown-gray, very fine grained, well sorted, tightly cemented, hard and tight, well stained, fair to good saturation with black live odorless oil on fractures.
- 9192-9194' 2.0' Sandstone, gray, coarse grained, fair to well sorted, very tightly cemented, calcareous, hard and tight, salt and pepper texture with black, white and gray grains, barren of oil stain or saturation.

Core #21 9194 - 9245'

- 9194-9196' 2.0' Sandstone, gray, coarse grained, fair to well sorted, very tightly cemented, calcareous, hard and tight, salt and pepper texture with black, white and gray grains, barren of oil stain or saturation.
- 9196-9196.5' 0.5' Limestone, brown-black, dense, very argillaceous.
- 9196.5-9197' 0.5' Siltstone or very fine grained sandstone, gray, slightly calcareous, tightly cemented, hard and tight, barren of saturation or stain with a near vertical calcite lined fracture.
- 9197-9210' 13.0' Shale, black, slightly calcareous to dolomitic, tightly laminated, petroliferous and hard.
- 9210-9212.5' 2.5' Sandstone, gray, fine grained, well sorted, tightly cemented, slightly calcareous, hard and tight with abundant carbonized plant(?) fragments and some dead black oil on a minor erosion(?) surface.
- 9212.5-9215' 2.5' Sandstone, brown-gray, fine grained to very fine grained, very tightly cemented, dolomitic to slightly siliceous cement, hard and tight, with good brown oil saturation.
- 9215-9225' 10.0' Limestone, dark brown, microcrystalline to dense, and very argillaceous.
- 9225-9228' 3.0' Sandstone, tannish gray, very fine grain, very tightly cemented, slightly dolomitic, hard and tight, with fair to good spotty oil stain and saturation.
- 9228-9230' 2.0' Limestone, dark brown to brown-black, microcrystalline to dense, very argillaceous and hard, very finely disseminated pyrite micro granules and few carbonized organic fragments.
- 9230-9231.5' 1.5' Sandstone, tannish gray, very fine grained, well sorted, very tightly cemented, slightly calcareous, hard and tight, with spotty fair oil saturation and good stain.

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- 9231.5-9233' 1.5' Limestone, brown-black, microcrystalline to dense, very argillaceous and hard, organic well scattered carbonized fragments.
- 9233-9237' 4.0' Sandstone, tannish gray, very fine grained, well sorted, very tightly cemented, hard and tight, with spotty fair to good saturation and staining; some black dead oil on a minor erosion surface or depositional break.
- 9237-9245' 8.0' Limestone, brown-black, dense, dolomitic, very argillaceous, slightly pyritic and hard.

Core #22 9245 - 9281'

- 9245-9248' 3.0' Shale, brown-black, calcareous, very tightly laminated and hard.
- 9248-9250' 2.0' Sandstone, brown-gray, very fine grained, well sorted, very tightly cemented, hard and tight, with good oil stain and fair to good saturation.
- 9250-9261' 11.0' Shale, brown-black, very tightly indurated, calcareous, petroliferous and hard, with interlaminated tan, dense limestone.
- 9261-9265' 4.0' Shale, black, tightly indurated, richly petroliferous, calcareous and hard with a thin streak of brown-gray, very fine grained sandstone, slightly stained and with abundant carbonized organic fragments, and a .003' streak gilsonite.
- 9265-9270' 5.0' Shale, dark gray, well and tightly laminated, calcareous, hard and petroliferous.
- 9270-9271' 1.0' Sandstone, brown-gray, very fine grained, very tightly cemented, slightly dolomitic, well sorted, hard and tight, with good oil stain, fair to good saturation and a near vertical fracture with trace brown-black oil.
- 9271-9277' 6.0' Siltstone or very fine grained sandstone, gray, well sorted, very tightly cemented, slightly calcareous, hard and tight, with faint oil staining.
- 9277-9279' 2.0' Sandstone, brown, very fine grained, well sorted, tightly cemented, dolomitic to slightly siliceous, hard and tight, well stained and saturated with brown-black odorless oil, and a near vertical fracture.
- 9279-9201' 2.0' Shale, brown-black, calcareous, petroliferous, tightly laminated and hard, with some interlaminated dark brown dense argillaceous limestone.

Core #23 9291 - 9332'

- 9291-9293.5' 2.5' Shale, brown-black, calcareous, petroliferous, tightly laminated and hard with some dark brown, dense limestone interlaminae.
- 9293.5-9296' 2.5' Sandstone, brown-gray, very fine grained, well sorted, tightly cemented, slightly calcareous, hard and tight, with good oil stain and saturation.
- 9296-9299' 3.0' Sandstone, as above, with a well stained vertical fracture, some very fine grained sandstone, gray, with

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- stain aligned along bedding and a near vertical fracture.
- 9299-9314' 15.0' Shale, black, calcareous, richly petroliferous, tightly laminated and hard.
- 9314-9323.5' 9.5' Sandstone, brown-gray, very fine grained, well sorted, tightly cemented, dolomitic to slightly siliceous, hard and tight, with fair to good oil saturation, some brown-black oil on near vertical fracture.
- 9323.5-9326' 2.5' Shale, brown-black, richly petroliferous, calcareous and hard, as above.
- 9326-9327' 1.0' Limestone, black, very argillaceous, dense and slightly pyritic.
- 9327-9328' 1.0' Sandstone, brown, very fine grained, well sorted, very tightly cemented, dolomitic to siliceous, hard, tight and fractured, with good oil saturation, and brown-black odorless oil on fracture.
- 9328-9331' 3.0' Shale, brown-black, richly petroliferous, calcareous, tightly laminated and hard.

Core #24

- 9332 - 9362'
- 9332-9355.5' 23.5' Shale, black, calcareous, hard, very finely pyritic with interlaminated brown-gray, calcareous hard siltstone.
- 9355.5-56.5 1.0' Sandstone, brown, very fine grained, well sorted, tightly cemented, slightly calcareous, hard and tight, with fair brown oil saturation and fractures.
- 9356.5-9360' 3.5' Shale, black, petroliferous, calcareous and hard with interlaminated dense brown-black dolomite.
- 9360-9362' 2.0' Sandstone, brown-gray, very fine grained, well sorted, tightly cemented, calcareous, hard, tight and fractured, fair oil stain and negligible saturation.

Core #25

- 9362 - 9400'
- 9362-9372.5' 10.5' Siltstone or very fine grained sandstone, well sorted, very tightly cemented, calcareous, hard and tight, very faintly oil stained, with streaks brown-black, hard petroliferous shale and tan-gray, very fine grained sandstone or siltstone, very tightly cemented with abundant oil stained fine lamination.
- 9372.5-73.5' 1.0' Sandstone, brown, very fine grained, slightly siliceous, very tightly cemented, hard and tight and faintly oil stained.
- 9373.5-9387' 13.5' Shale, brown-black, calcareous, hard, petroliferous.

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- 9387-9389' 2.0' Sandstone, brown-gray, very fine grained, well sorted, tightly cemented, hard, tight, spotty faint oil stain.
- 9389-9394' 5.0' Shale, brown-black, tightly laminated, calcareous, hard and petroliferous, with interlaminated brown, dense, argillaceous dolomite.
- 9394-9396' 2.0' Sandstone, tannish gray, very fine grained, well sorted, tightly cemented, calcareous, hard and tight, very faint spotty oil stain.
- 9396-9400' 4.0' Shale, black, petroliferous, tightly laminated, calcareous and hard, with few interlaminae black, dense, argillaceous, slightly pyritic dolomite.

Core #26

- 9400 - 9448'
9400-9403' 3.0' Shale, dark brown, tightly laminated, richly petroliferous, calcareous and hard.
- 9403-9407.5' 4.5' Siltstone, greenish gray, well sorted, tightly cemented, calcareous, hard and tight.
- 9407.5-9412' 4.5' Sandstone, brown, very fine grained, well sorted, tightly cemented, dolomitic, hard and tight, well stained and good oil saturation.
- 9412-9419' 7.0' Shale, black, fine and tightly laminated, petroliferous, slightly pyritic, calcareous and hard.
- 9419-9432' 13.0' Siltstone, gray, calcareous, tightly cemented, hard and tight, with a thin streak black, finely pyritic, limey hard shale.
- 9432-9442' 10.0' Sandstone, gray, very fine grained, well sorted, very tightly cemented, slightly calcareous, hard and tight, with spotty oil stain and negligible oil saturation.
- 9442-9448' 6.0' Conglomerate, gray, tightly cemented, slightly calcareous, black and white chert granules in a gray very fine grained sandstone or siltstone matrix, barren of stain.

Core #27

- 9448 - 9484'
9448-9453' 5.0' Sandstone, brown, very fine grained, well sorted, tightly cemented, dolomitic, hard, tight, with a near vertical fracture, spotty good oil saturation in good stain and fair to trace saturation.
- 9453-9463' 10.0' Siltstone, tannish-gray, tightly cemented, slightly calcareous, hard and barren.
- 9463-9469' 6.0' Sandstone, brown, very fine grained to silt, well sorted, very tightly cemented, slightly siliceous, hard and tight, with faint spotty oil stain.
- 9469-9471' 2.0' Sandstone, gray, medium grained, sub-angular, well sorted, tightly cemented, slightly siliceous, hard, tight and barren, with a 1-inch streak richly petroliferous dark brown, hard shale at the base.
- 9471-9480' 9.0' Shale, black, calcareous, slightly petroliferous, silty and hard, with streaks tannish-gray, hard, slightly calcareous siltstone.

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	9480-9484'	4.0'	Siltstone, tan, very tightly cemented, slightly calcareous and hard, with a slightly calcified near vertical fracture.
<u>Core #28</u>	9484 - 9526'		
	9484-9487'	3.0'	Sandstone, tannish-gray, fine grained, well sorted, tightly cemented, slightly calcareous and siliceous, with few black chert grains, hard, tight and barren.
	9487-9499'	12.0'	Shale, dark brown, tightly laminated, moderately petroliferous, calcareous and hard with few inter laminae of dark greenish-gray, argillaceous, slightly silty, dense dolomite.
	9499-9504'	5.0'	Sandstone, brown, very fine grained, well sorted, very tightly cemented, slightly calcareous, hard and tight with spotty black oil on a horizontal fracture and a brown-black, slightly calcareous shale laminae.
	9504-9509'	5.0'	Sandstone, brown-gray, fine grained to very fine grained, calcareous, well sorted, tightly cemented, hard and tight.
	9509-9526'	16.0'	Sandstone, gray, fine grained, well sorted, tightly cemented, calcareous, hard and tight, with fair to good brown-black odorless oil saturation at base.
<u>Core #29</u>	9526 - 9576'		
	9526-9528.5'	2.5'	Sandstone, brown, fine grained, well sorted, tightly cemented, dolomitic to slightly siliceous, hard, tight, with a near vertical fracture, fair to good brown oil saturation.
	9528.5-9530'	1.5'	Siltstone or very fine grained sandstone, tan, well sorted, tightly cemented, slightly siliceous, hard and tight with a streak of waxy brown, reworked shale.
	9530-9566'	36.0'	Shale, brown, laminated, calcareous, moderately petroliferous and hard, with a calcite encrusted very faintly stained, near vertical fracture.
	9566-9567'	1.0'	Sandstone, brown, very fine grained, well sorted, tightly cemented, slightly siliceous, hard, tight, near vertical fracture, slightly shaley, spotty oil staining.
	9567-9573'	6.0'	Shale, dark brown, moderately petroliferous, laminated, calcareous and hard.
	9573-9576'	3.0'	Sandstone, brown, very fine grained, well sorted, tightly cemented, slightly siliceous, hard, tight, with spotted brown oil stain.
<u>Core #31</u>	9576 - 9626'		
	9576-9580'	4.0'	Sandstone, brown, very fine grained, well sorted, tightly cemented, slightly siliceous, hard, tight, fractured, with good oil stain and trace oil saturation.

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9580-9597'	17.0'	Shale, dark brown, petroliferous, calcareous and hard.
9597-9598'	1.0'	Sandstone, brown, very fine grained, well sorted, tightly cemented, siliceous, hard and tight, with fair to good oil saturation at base.
9598-9618'	20.0'	Shale, brown-black, tightly laminated, petroliferous, calcareous and hard, with a thin streak tan, slightly calcareous, tightly cemented siltstone.
9618-9620'	2.0'	Sandstone, brown, very fine grained, well sorted, tightly cemented, slightly siliceous to dolomitic, hard, tight, well oil stained with poor to trace oil saturation.
9620-9626'	6.0'	Shale, black, tightly laminated, petroliferous, calcareous and hard.

Core #32

9626 - 9647'		
9626 - 9647'		Shale, black, tightly laminated, petroliferous, calcareous and hard with few thin streaks brown, dense, argillaceous limestone.

Core #33

9647 - 9684'		
9647-9652'	7.0'	Shale, brown-black and black; petroliferous, tightly laminated, calcareous, hard and very finely pyritic.
9652-9654'	2.0'	Sandstone, tannish-gray, fine grained, well sorted, slightly calcareous, tightly cemented, hard, tight, with near vertical fracture and spotty brown oil stain.
9654-9656'	2.0'	Shale, brown-black, petroliferous, tightly laminated, calcareous and hard.
9656-9660'	4.0'	Sandstone, brown-gray, very fine grained, well sorted, tightly cemented, siliceous to slightly dolomitic, hard and tight with some near vertical fracturing, good brown oil stain with negligible oil saturation.
9660-9660.5'	0.5'	Dolomite, brown-black, dense, slightly limey, very argillaceous, slightly pyritic with finely disseminated micro-grains pyrite, and occasional carbonized organic remains.
9660.5-9663'	2.5'	Sandstone, gray, very fine grained, tightly cemented, calcareous, slightly conglomeratic with medium to coarse sand size grains of black and white chert, oil staining in a thin zone surrounding a bedding plane.
9663-9663.5'	0.5'	Shale, black, sparsely petroliferous, dolomitic, hard, with an unstained or calcified near vertical fracture.
9663.5-65.5'	2.0'	Sandstone, brown, very fine grained, well sorted and tightly cemented, siliceous to slightly dolomitic, hard, tight, and well stained with brown

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- oil, basal 2 inches is gray fine grained sandstone, hard, tight and barren.
- 9665.5-70.5' 5.0' Sandstone, tannish gray, very fine grained, well sorted and tightly cemented, calcareous, hard, tight, spotty brown oil stain and a calcified, unstained near vertical fracture.
- 9670.5-9671' 0.5' Conglomerate, dark gray, tightly cemented, calcareous, hard, pebbles white and gray chert in a dark gray siltstone matrix.
- 9671-9672' 1.0' Siltstone, or very fine grained sandstone, tannish gray, tightly cemented, calcareous, hard and tight, with spotty oil stain arranged in parallel horizontal bands related to bedding.
- 9672-9673' 1.0' Conglomerate, dark gray, gray and white chert pebbles in dark gray siltstone matrix, as above.
- 9673-9678' 5.0' Siltstone, gray, tightly cemented, slightly calcareous and hard with several bedding planes at base containing shaley black residus.
- 9678-9679' 1.0' Shale, brown-black, petroliferous, tightly laminated, calcareous, hard and very slightly and finely pyritic.
- 9683-9684' 1.0' Sandstone, gray, very fine grained, well sorted, very tightly cemented, slightly calcareous, hard, tight, with spotty faint oil stain and a slightly stained near vertical fracture.

Core #34

- 9684 - 9729' 3.0' Shale, dark brown, petroliferous, tightly laminated, calcareous and hard.
- 9684-9687' 4.0' Conglomerate, gray, consisting of granules and pebbles of gray and white chert and reworked tan and white siltstone and few gilsonite(?) grains in a gray siltstone matrix, tightly cemented and barren.
- 9687-9691' 5.0' Sandstone, brown-gray, very fine grained, well sorted, tightly cemented, siliceous to slightly dolomitic, well stained and with trace oil saturation, good brown oil stain on a near vertical fracture.
- 9691-9696' 4.0' Shale, black, organic, dolomitic and hard, finely pyritic, limy and with silty dolomitic laminae.
- 9696-9700' 5.0' Sandstone, gray, very fine grained, well sorted, tightly cemented, slightly calcareous, with spotty oil stain and two calcified and stained near vertical fractures.
- 9700-9705' 5.0' Limestone, dark gray, microcrystalline to dense, very argillaceous and with some shaley partings and very fine pyrite clusters.
- 9705-9710' 3.0' Sandstone, brown, very fine grained, well sorted, tightly cemented, slightly calcareous, hard, tight, with faint brown oil stain on a near vertical fracture.
- 9710-9713' 3.0' Limestone, gray, microcrystalline, argillaceous, hard, with few black shaley laminae.

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- 9716-9719' 3.0' Siltstone, greenish gray, calcareous, tightly cemented and hard, slightly conglomeratic with some black chert granules.
- 9719-9723' 4.0' Siltstone or very fine grained sandstone, tannish-gray, calcareous, tightly cemented, hard and kaolinitic with an earthy odor.
- 9723-9729' 6.0' Siltstone, light gray, calcareous, very tightly cemented, hard with slight earthy odor and few shaley bedding planes.

Core #35

- 9729 - 9745'
- 9729-9733' 4.0' Shale, gray, organic, calcareous and hard.
- 9733-9742' 9.0' Siltstone, green-gray, calcareous, very tightly cemented, with trace oil stain on a near vertical fracture.
- 9742-9744' 2.0' Siltstone, green-gray, calcareous, tightly cemented, slightly conglomeratic with white chert pebbles and a calcite crystal lined fracture.
- 9744-9745' 1.0' Siltstone, gray-green, slightly calcareous, tightly cemented and with faint oil stain on a slightly calcite encrusted near vertical fracture.

Core #37

- 9768 - 9818'
- 9768-9776' 8.0' Shale, dark gray-green, tightly laminated, calcareous, hard and sparsely petroliferous.
- 9776-9780' 4.0' Sandstone, gray, very fine grained, well sorted, tightly cemented, calcareous, hard and tight, with faintly oil stained near vertical fracture; oil staining permeates approximately 1/2 inch into the sand from the fracture.
- 9780-9783' 3.0' Shale, dark brown, petroliferous, calcareous and hard, with interlaminated brown-gray, dense limestone.
- 9783-9787' 4.0' Sandstone, gray-brown, very fine grained, well sorted, tightly cemented, siliceous to slightly dolomitic, hard, tight, with good brown oil staining.
- 9787-9790' 3.0' Sandstone, gray, very fine grained, very tightly cemented, hard and tight, thinly bedded with abundant carbonized organic fragments on bedding.
- 9790-9795' 5.0' Sandstone, brown, very fine grained, tightly cemented, with good oil stain, trace saturation, and brown-black dead oil on a minor erosion surface.
- 9795-9815' 20.0' Shale, brown-black, petroliferous, dolomitic and hard.
- 9815-9817' 2.0' Sandstone, brown, very fine grained, tightly cemented, with faintly stained near vertical fracture.
- 9817-9818' 1.0' Kaolinite, clay stone, calcareous, silty, well indurated and hard, buff.

Core #38

- 9818 - 9827'
- 9818-9818.6' 0.6' Siltstone, tannish gray, calcareous, tightly cemented, richly kaolinitic.

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- 9818.6-9820' 1.4' Siltstone, or very fine grained sandstone, brown, well sorted, tightly cemented, slightly dolomitic to siliceous, hard, tight, with brown oil stain.
- 9820-9823' 3.0' Siltstone, tannish gray, calcareous, kaolinitic, tightly cemented and hard.
- 9823-9824' 1.0' Sandstone, gray, very fine grained, tightly cemented, slightly conglomeratic with white chert pebbles.
- 9824-9827' 3.0' Sandstone, gray, very fine grained, well sorted, tightly cemented, hard, tight and barren.

Core #39

- 9827 - 9834' 1.0' Sandstone, gray, very fine grained, fair to well sorted, tightly cemented, calcareous, hard and tight.
- 9827-9828'
- 9828-9830' 2.0' Sandstone, brown, very fine grained, well sorted, tightly cemented, dolomitic, hard, tight, fractured, with good brown oil stain.
- 9830-9831' 1.0' Sandstone, brown, fine grained, well sorted, good oil stain, fractured and with trace porosity.
- 9831-9834' 3.0' No return.

Core #40

- 9834 - 9871' 5.0' Sandstone, brown, fine grained, slightly conglomeratic, dolomitic, trace porosity and spotty oil stain.
- 9834-9839'
- 9839-9846' 7.0' Sandstone, brown-gray, very fine grained, well sorted, tightly cemented, calcareous, hard, tight and barren.
- 9846-9854' 8.0' Limestone, gray, microcrystalline to dense, slightly kaolinitic and hard, with a slightly stained near vertical fracture.
- 9854-9863' 9.0' Siltstone or very fine grained sandstone, brownish-gray, very tightly cemented, calcareous, hard and tight, with a streak hard, dolomitic brown-black, silty shale and a slightly oil stained fracture.
- 9863-9871' 8.0' Sandstone, gray, very fine grained, well sorted, calcareous, tightly cemented, kaolinitic, hard and tight.

Core #41

- 9871 - 9891' 7.0' Dolomite, gray, very fine crystalline, silty, slightly kaolinitic, and hard.
- 9871-9878'
- 9878-9879' 1.0' Sandstone, brown, very fine grained, tightly cemented, dolomitic, hard, tight and oil stained.
- 9879-9881' 2.0' Dolomite, tannish-gray, very finely crystalline to dense, with a calcite encrusted slightly stained near vertical fracture.
- 9881-9883' 2.0' Sandstone, gray, very fine grained, well sorted, slightly dolomitic to siliceous, tightly cemented, hard, tight, with good brown oil stain and residual brown-black oil on near horizontal fracture.

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9883-9887.5'	4.5'	Limestone, gray, very finely crystalline to dense, hard with shaley black streaks.
9887.5-9891'	3.5'	Sandstone, brown, very fine grained, well sorted, tightly cemented, siliceous, hard, tight and with brown oil stain.
<u>Core #51</u> 10,186 - 10,221'		
10,186-199.5'	13.5'	Shale, brown-black, slightly petroliferous, dolomitic and hard.
10,199.5-200.5'	1.0'	Sandstone, brown-gray, very fine grained, well sorted, tightly cemented, slightly calcareous to dolomitic, hard, tight, flecked with brown oil stain and with shaley black residue in a bedding plane.
10,200.5-202.5'	2.0'	Shale, dark brown, calcareous, slightly silty, dense and hard.
10,202.5-207'	4.5'	Shale, black, dolomitic and hard.
10,207-209'	2.0'	Sandstone, brown, very fine grained, tightly cemented, well sorted, dolomitic, hard and tight, with brown oil stain.
10,209-209.4'	0.4'	Dolomite, tan, very finely crystalline to dense, kaolinitic.
10,209.4-213'	3.6'	Dolomite, gray, dense, argillaceous, limey and hard with few shaley laminae.
10,213-221'	3.0'	Sandstone, brown, very fine grained, well sorted, tightly cemented, dolomitic, spotted brown oil stain.
<u>Core #52</u> 10,221 - 10,257'		
10,221-10,230'	9.0'	Sandstone, brown, very fine grained, well sorted, tightly cemented, dolomitic, hard, tight, spotted brown oil stain.
10,230-239'	9.0'	Dolomite, gray, very finely crystalline, silty and hard.
10,239-10,242.5'	3.5'	Siltstone or very fine grained sandstone, tan, dolomitic, tightly cemented, hard, spotted brown oil stain.
10,242.5-10,248'	5.5'	Sandstone, brown, very fine grained, well sorted, tightly cemented, dolomitic, hard and tight with good oil stain and fair to poor saturation.
10,248-10,250'	2.0'	Dolomite, tannish gray, very finely crystalline to dense, argillaceous and hard with few black shaley laminae.
10,250-10,254'	4.0'	Sandstone, brown-gray, very fine grained, well sorted, tightly cemented, dolomitic, hard and tight, well stained.
10,254-10,254.5'	0.5'	Dolomite, dark gray, dense, argillaceous, limey and hard.
10,254.5-10,255'	0.5'	Siltstone, or very fine grained sandstone, gray, tightly cemented, slightly calcareous, hard and tight.

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- 10,255-10,256' 1.0' Limestone, tannish gray, dense, argillaceous and hard, with a thin dark brown, argillaceous dolomite streak.
- 10,256-10,257' 1.0' Limestone, brownish dark gray, argillaceous, dense and hard.
- Core #53 10,257 - 10,308'
- 10,257-10,269' 12.0' Shale, brown-black, petroliferous, very limey and hard.
- 10,269-10,272' 3.0' Limestone, tan, dense, dolomitic and slightly argillaceous.
- 10,272-10,274' 2.0' Shale, brown-black, petroliferous, calcareous and very hard.
- 10,274-10,276' 2.0' Siltstone or very fine grained sandstone, well sorted, tightly cemented, calcareous, hard, spotted faint brown oil stain.
- 10,276-10,282' 6.0' Limestone, tannish gray, very finely crystalline to dense, slightly argillaceous, with few shaley laminae.
- 10,282-10,289' 7.0' Sandstone, brown-gray, very fine grained, well sorted, tightly cemented, slightly siliceous to dolomitic, hard, tight, good oil stain.
- 10,289-10,291' 2.0' Siltstone or very fine grained sandstone, gray, tightly cemented, calcareous, hard, tight and barren.
- 10,291-10,296' 5.0' Shale, black, petroliferous, tightly laminated and hard.
- 10,296-10,308' 12.0' Siltstone or very fine grained sandstone, gray, calcareous, tightly cemented, hard, tight, with spotted faint oil stain.
- Core #65 10,740 - 10,787'
- 10,740-10,741.5' 1.5' Siltstone, dark green, very limey and very tightly cemented, slightly sandy, hard and tight.
- 10,741.5-10,745' 3.5' Shale, black, petroliferous, dolomitic, hard and very finely pyritic.
- 10,745-10,754' 9.0' Limestone, tan, dense, argillaceous and hard, with a small pod or very thin streak siltstone.
- 10,754-10,759' 5.0' Shale, black, petroliferous, tightly laminated, dolomitic and hard with interlaminated dark brown, dense, silty limestone with many carbonized organic fragments included.
- 10,759-10,760' 1.0' Sandstone, brown, very fine grained, well sorted, very tightly cemented, dolomitic, hard, tight, with spotty brown oil stain and good brown oil stain on a fracture.
- 10,760-10,767' 7.0' Shale, brown-black, petroliferous, dolomitic and very hard.
- 10,767-10,770' 3.0' Sandstone, brown, very fine grained, well sorted, tightly cemented, dolomitic, hard and tight, with fair to good oil saturation, and good brown oil stain on a fracture, becoming siltstone and barren at base.

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- 10,770-10,776' 6.0' Limestone, dark gray, dense, argillaceous and hard.
10,776-10,787' 11.0' Siltstone, gray, hard and tightly cemented with limey cement.

Core #55 10,326 - 10,377'
10,326-10,328'

- 2.0' Sandstone, brown, very fine grained, well sorted, tightly cemented, slightly dolomitic to siliceous, hard, tight, well stained with spotty poor to trace oil saturation.
10,328-10,335.5' 7.5' Shale, dark brown, petroliferous, limey and very hard, with some tan siltstone laminae.
10,335.5-10,339' 3.5' Sandstone, brown, very fine grained, well sorted, tightly cemented, calcareous, hard, tight, with very spotty faint oil stain.
10,339-10,348' 9.0' Siltstone, gray, calcareous, tightly cemented and hard with interlaminated brown-black, hard dolomitic shale.
10,348-10,349' 1.0' Sandstone, brown, very fine grained, well sorted, tightly cemented, dolomitic, hard, tight, oil stained and with spotty fluorescence.
10,349-10,350' 1.0' Dolomite, dark brown, argillaceous, limey, very finely crystalline and hard.
10,350-10,355' 5.0' Sandstone, brown, very fine grained, well sorted, tightly cemented, hard and tight.
10,355-10,363.5' 8.5' Sandstone, brown, very fine grained, well sorted, tightly cemented, dolomitic, spotted oil stain and fair to poor oil saturation.
10,363.5-364.5' 1.0' Siltstone, gray, calcareous, very tightly cemented, hard and barren.
10,364.5-10,365' 0.5' Sandstone, brown, very fine grained, hard and tight, with faint oil stain and trace oil saturation, as above.
10,365-10,366' 1.0' Limestone, tan, dense, silty, kaolinitic and quite hard.
10,366-10,367' 1.0' Sandstone, brown, very fine grained, hard, tight, with faint oil stain and trace oil saturation, as above.
10,367-10,368' 1.0' Limestone, tan, dense, silty and kaolinitic.
10,368-10,370.5' 2.5' Sandstone, brown, very fine grained, well sorted, dolomitic, tightly cemented, hard and tight, faintly oil stained.
10,370.5-372.5' 2.0' Sandstone, brown, very fine grained, well sorted, dolomitic, tightly cemented, hard, tight, oil stained and trace oil saturation with well stained horizontal fracture or bedding.
10,372.5-10,377' 4.5' Sandstone, tan, very fine grained, very tightly cemented, hard, tight and barren, with thin streaks very hard, limey brown shale in lower 2.5 feet.

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<u>Core #56</u>	10,377 - 10,427'		
	10,377-10,390'	13.0'	Sandstone, brown, very fine grained, well sorted, tightly cemented, calcareous, hard, tight and with spotty faint oil stain and occasional streak brown-black, petroliferous, dolomitic hard shale.
	10,390-10,396'	6.0'	Sandstone, brown, very fine grained, well sorted, tightly cemented, dolomitic, hard and tight, oil stained and trace oil saturation, with good oil stain on a near vertical fracture.
	10,396-10,407'	11.0'	Shale, brown-black, moderately petroliferous, calcareous and hard, with a faintly oil stained near vertical fracture.
	10,407-10,421'	14.0'	Sandstone, brown-gray, very fine grained, well sorted, tightly cemented, dolomitic, hard and tight, with spotty oil stain and trace oil saturation.
	10,421-10,427'	6.0'	Limestone, brown-black, very finely crystalline to dense, argillaceous and hard.
<u>Core #57</u>	10,427 - 10,476'		
	10,427-10,429'	2.0'	Limestone, gray, dense, slightly kaolinitic and hard, with some unstained vertical fractures.
	10,429-10,437'	8.0'	Limestone, brown, dense, argillaceous and hard.
	10,437-10,441'	4.0'	Sandstone, tan, very fine grained, well sorted, tightly cemented with limey cement, hard and tight.
	10,441-10,446'	5.0'	Shale, brown-black, petroliferous, dolomitic and hard.
	10,446-10,448'	2.0'	Siltstone or very fine grained sandstone, tan to light brown, well sorted, very tightly cemented with limey cement, hard and tight, barren, but with a faintly oil stained near vertical fracture.
	10,448-10,460'	12.0'	Limestone, dark brown-gray, argillaceous, dense and hard.
	10,460-10,464'	4.0'	Sandstone, tan, very fine grained, well sorted, tightly cemented, limey, hard, tight, with spotty oil stain and brown oil saturation.
	10,464-10,476'	8.0'	Shale, brown-black, petroliferous, calcareous, tightly laminated and hard, with fine interlaminae of brown, dense, argillaceous limestone.
<u>Core #58</u>	10,476 - 10,521'		
	10,476-10,478'	2.0'	Sandstone, tannish gray, very fine grained, well sorted, dolomitic, very tightly cemented, hard, tight, with spotty very faint oil stain.
	10,478-10,480.5'	2.5'	Limestone, tan, dense, kaolinitic and hard.
	10,480.5-481.5'	1.0'	Sandstone, tannish gray, very fine grained, well sorted, dolomitic, very tightly cemented, hard, tight, and barren with few black chert grains.
	10,481.5-10,491'	9.5'	Shale, brown-black, petroliferous, faintly laminated, slightly pyritic, dolomitic and hard.

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- 10,491-10,493' 2.0' Sandstone, brown, very fine grained, well sorted, dolomitic, tightly cemented, hard and tight, with good oil stain and oil saturation and a well stained near vertical fracture.
- 10,493-10,497' 4.0' Siltstone or very fine grained sandstone, gray, slightly calcareous to dolomitic, tightly cemented, hard, tight and barren of stain.
- 10,497-10,499.5' 2.5' Sandstone, brown, very fine grained, well sorted, dolomitic, tightly cemented, hard, tight, with good oil saturation.
- 10,499.5-10,500' 0.5' Shale, black, slightly petroliferous, dolomitic, silty and hard.
- 10,500-10,503' 3.0' Siltstone, or very fine grained sandstone, gray, calcareous, tightly cemented, hard, tight and barren.
- 10,503-10,513' 10.0' Shale, black, petroliferous, obscure laminae, dolomitic and hard.
- 10,513-10,515' 2.0' Siltstone or very fine grained sandstone, black, slightly calcareous to dolomitic, very tightly cemented, hard, tight, oil stained on near vertical fracture, and with a thin streak black, silty hard shale.
- 10,515-10,520' 5.0' Dolomite, black, dense, argillaceous and quite silty.
- 10,520-10,521' 1.0' Sandstone, gray, very fine grained, well sorted, calcareous, tightly cemented, hard, tight and barren of staining.
- Core #63 10,643 - 10,679'
- 10,643-10,644.5' 1.5' Dolomite, gray, dense, limey, silty, hard and slightly argillaceous with a faintly stained and calcite lined near vertical fracture.
- 10,644.5-659.5' 15.0' Limestone, dark gray, dense, argillaceous, slightly silty and hard with an open unstained vertical fracture.
- 10,659.5-10,663' 3.5' Sandstone, brown, very fine grained, well sorted, tightly cemented, slightly dolomitic to siliceous, hard, tight, well stained and fair to good oil saturation, spotted saturation with brown-black oil and oil on a vertical fracture.
- 10,663-10,679' 16.0' Shale, black, petroliferous, slightly calcareous to dolomitic and hard with streaks dark gray to black, dolomitic, tightly cemented, very fine grained sandstone or siltstone.
- Core #66 10,787 - 10,838'
- 10,787-10,789' 2.0' Sandstone, brown, fine grained to very fine grained, well sorted, dolomitic, tightly cemented, hard, tight, with some near vertical fractures and fair to good brown oil saturation.

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- 10,789-10,790' 1.0' Siltstone, gray, slightly calcareous, tightly cemented, with occasional shaley black laminae.
- 10,790-10,791' 1.0' Sandstone, brown, fine grained to very fine grained, well sorted, tightly cemented, dolomitic, hard and tight, with poor to trace oil saturation.
- 10,791-10,792' 1.0' Siltstone or very fine grained sandstone, gray, well sorted, calcareous, tightly cemented, hard and tight, with well developed vertical fracture.
- 10,792-10,793' 1.0' Sandstone, brown, fine grained to very fine grained, well sorted, dolomitic, tightly cemented, hard, tight, good oil stain with fair to poor oil saturation.
- 10,793-10,795' 2.0' Limestone, brown-gray, dense, slightly argillaceous, silty, hard, and very finely pyritic.
- 10,795-10,799' 4.0' Limestone, tan, dense, slightly argillaceous, hard and with sandy streaks.
- 10,799-10,801' 2.0' Sandstone, gray, fine grained, well sorted, calcareous, tightly cemented, hard, tight and barren.
- 10,801-10,803' 2.0' Sandstone, gray, fine grained, as above, with spotty oil stain and trace to poor oil saturation.
- 10,803-10,809' 6.0' Shale, brown-black, petroliferous, dolomitic, hard, massive or obscure fissility and lamination.
- 10,809-10,811' 2.0' Sandstone, gray, fine grained, well sorted, tightly cemented with limy cement, barren of stain.
- 10,811-10,812' 1.0' Shale, brown-black, petroliferous, dolomitic to slightly calcareous, hard and silty.
- 10,812-10,820' 8.0' Sandstone, brown-gray, fine grained to very fine grained, tightly cemented with slightly dolomitic to siliceous cement and spotty faint brown oil stain.
- 10,820-10,823' 3.0' Siltstone, gray, calcareous, tightly cemented, with abundant black shaley streaks.
- 10,823-10,832' 9.0' Sandstone, gray, very fine grained, well sorted, dolomitic, tightly cemented, hard, tight with spotty fair to good oil stain and trace to fair oil saturation.
- 10,832-10,838' 6.0' Limestone, brown, dense, argillaceous, slightly silty, finely disseminated pyrites, hard and with scattered carbonized inclusions.
- Core #67 10,838 - 10,877'
10,838-10,843' 5.0' Sandstone, gray, very fine grained, well sorted, tightly cemented with calcareous cement, hard, tight and with a calcite lined near vertical fracture.
- 10,843-10,850' 7.0' Limestone, brown, dense, argillaceous, slightly silty and hard with streaks of dark gray, tightly cemented limy siltstone.
- 10,850-10,852' 2.0' Sandstone, brown, very fine grained, well sorted, dolomitic, tightly cemented, hard, tight, fractured with good oil stain, fair oil saturation and minor amount dead black oil on near vertical fracture.

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- 10,852-10,855' 3.0' Dolomite, brown, finely crystalline to dense, slightly silty and hard, with a near vertical unstained fracture and occasional streak gray, slightly conglomeratic siltstone.
- 10,855-10,874' 19.0' Shale, black, petroliferous, limey, hard, brecciated with fragments recemented with crystalline calcite, some interlaminae of very fine grained sandstone, gray, calcareous, hard and tight.
- 10,874-10,876' 2.0' Sandstone, brownish gray, very fine grained, well sorted, tightly cemented, calcareous, hard, and tight with an unstained fracture.
- 10,876-10,877' 1.0' Limestone, brown, dense, argillaceous, dolomitic and hard.

Core #75 11,235 - 11,284'
11,235-11,236'

- 1.0' Sandstone, gray, very fine grained, well sorted, calcareous, tightly cemented, hard and tight with few thin streaks brown dense limestone.
- 11,236-11,238' 2.0' Shale, brown-black, petroliferous, calcareous and hard, with a few streaks brown, limey siltstone.
- 11,238-11,250' 12.0' Limestone, black, dense, argillaceous and hard with thin streaks brown, limey, tightly cemented siltstone and a thin streak brown-gray, small pebble limestone conglomerate.
- 11,250-11,258' 8.0' Siltstone, dark gray, calcareous and tightly cemented with few black shaley partings.
- 11,258-11,261' 3.0' Sandstone, gray, very fine grained, well sorted, tightly cemented, slightly dolomitic to siliceous, hard and tight, with a calcite lined vertical fracture and few thin streaks of dark gray limey siltstone.
- 11,261-11,270' 9.0' Shale, black, very slightly dolomitic to siliceous, hard with abundant carbonized plant remains and thin streaks gray slightly limey siltstone with scattered carbonized plant fragments.
- 11,270-11,272' 2.0' Sandstone, brown, very fine grained, well sorted, dolomitic, tightly cemented, hard and tight, with a vertical fracture and saturated with dead black oil.
- 11,272-11,279' 7.0' Limestone, brown-gray, argillaceous and dense with black shaley streaks.
- 11,279-11,284' 5.0' No returns.

Core #76 11,284 - 11,334'

- 11,284-11,285' 1.0' Shale, black petroliferous, limey and hard.
- 11,285-11,286' 1.0' Limestone, brown-gray, dense, argillaceous, silty and hard.
- 11,286-11,287' 1.0' Limestone, brown-black, dense and argillaceous.
- 11,287-11,292' 5.0' Siltstone, dark gray, calcareous, tightly cemented and hard, with few black shale streaks.
- 11,292-11,296' 4.0' Sandstone, brown-gray, very fine grained, well sorted, tightly cemented, slightly dolomitic to

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		siliceous, hard and tight, with a calcite lined fracture, becoming gray, fine grained to medium grained, gray, calcareous, hard and tight sandstone at base.
11,296-11,298'	2.0'	Siltstone, dark gray, siliceous and hard (almost an ortho quartzite).
11,298-11,302'	4.0'	Siltstone, dark gray, limey, tightly cemented and hard, with trace dead oil stain on a near vertical fracture.
11,302-11,309'	7.0'	Limestone, dark gray, silty, argillaceous, dense and hard, with occasional quite silty streak and a thin streak gray, coarse grained, limey, tightly cemented sandstone.
11,309-11,312'	3.0'	Siltstone or very fine grained sandstone, dark gray, calcareous, tightly cemented, hard and tight.
11,312-11,320.5'	8.5'	Dolomite, dark gray, dense, limey, silty and hard with streaks hard, dolomitic black shale.
11,320.5-11,322'	1.5'	Siltstone, dark gray, tightly cemented, slightly dolomitic to siliceous, hard and tight with spotted faint oil stain.
11,322-11,325'	3.0'	Shale, black, petroliferous, tightly laminated, limey and hard, with carbonized plant fragments on bedding.
11,325-11,334'	9.0'	Dolomite, dark gray, argillaceous, dense and hard, with streaks black, hard shale and a thin streak brown, very fine grained sandstone, tightly cemented, dolomitic, hard and tight.
<u>Core #77</u>	11,334 - 11,349'	
	11,334-11,335'	1.0' Siltstone or very fine grained sandstone, brown-gray, well sorted, very fine grained, dolomitic, very tightly cemented, hard and tight with spotty very faint oil stain.
	11,335-11,339'	4.0' Dolomite, dark green, dense, argillaceous and slightly silty.
	11,339-11,341.5'	2.5' Sandstone, dark greenish gray, very fine grained, well sorted, calcareous, tightly cemented, hard, tight and barren.
	11,341.5-11,343'	1.5' Dolomite, dark green, dense, argillaceous and hard.
	11,343-11,348'	5.0' Sandstone, gray, very fine grained, well sorted, tightly cemented, calcareous, hard and tight, with scattered faint flecks of oil stain on a near vertical fracture.
	11,348-11,349'	1.0' Limestone, tannish gray, dense, argillaceous and slightly silty.
<u>Core #78</u>	11,349 - 11,400'	
	11,349-11,350'	1.0' Dolomite, dark green, dense and argillaceous.
	11,350-11,352'	2.0' Siltstone or very fine grained sandstone, gray-brown, well sorted, tightly cemented, dolomitic to slightly calcareous, hard and tight.

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- 11,352-11,354' 2.0' Dolomite, brownish-gray, very finely crystalline, argillaceous and hard.
- 11,354-11,369'
11,369-11,371' 2.0' No samples.
- 11,371-11,373' 2.0' Shale, brown-black, petroliferous, limey, well indurated and hard, with finely disseminated micro-granules of pyrite and a very thin gilsonite streak on carbonized plant remains.
- 11,373-11,375' 2.0' Siltstone, dark gray, tightly cemented and calcareous, with occasional shaley laminae with very thin gilsonite pods.
- 11,375-11,379' 2.0' Shale, dark green, limey and sandy. (N.S. - DSLS description)
- 11,379-11,382' 4.0' Limestone, dark green, dense, argillaceous and slightly silty to sandy.
- 11,382-11,387' 3.0' Siltstone or very fine grained sandstone, gray, well sorted, tightly cemented, dolomitic to slightly calcareous, hard and tight.
- 11,387-11,390' 5.0' Limestone, brown-black, dense, very argillaceous and slightly silty.
- 11,390-11,395' 3.0' Sandstone, gray, very fine grained, well sorted, tightly cemented, dolomitic and slightly siliceous, hard and tight.
- 11,395-11,400' 5.0' Sandstone, as above, slightly conglomeratic. (N.S. - DSLS description)
- 11,400-11,404' 5.0' Sandstone, dark gray, coarse, calcareous, tightly cemented, conglomeratic with small rounded pebbles dark gray chert.

Core #79 11,400 - 11,448'
11,400-11,404'

- 11,404-11,405' 4.0' Sandstone, brownish-gray, medium grained, fair to well sorted, tightly cemented, slightly argillaceous, calcareous, hard and tight with few scattered carbonized plant fragments.
- 11,405-11,416' 1.0' Siltstone, brown-gray, siliceous to slightly dolomitic, tightly cemented.
- 11,416-11,417' 11.0' Siltstone, gray-green, limey and tightly cemented, with an occasional black shaly parting.
- 11,417-11,420' 1.0' Limestone, gray-green, dense, and quite silty.
- 11,420-11,424' 3.0' Siltstone, gray-green, limey and tightly cemented as above, with a thin streak brown-black, dolomitic hard shale, containing abundant carbonized plant fragments.
- 11,424-11,438.5' 4.0' Dolomite, dark gray-green, dense, hard and slightly silty.
- 11,438.5-11,441.5' 14.5' Sandstone, brownish-gray, coarse grained, poorly sorted, conglomeratic, slightly dolomitic to siliceous, hard and tight, with a very faintly and spotty oil stained fracture.
- 11,441.5-11,444.5' 2.0' Dolomite, dark gray-green, dense and argillaceous with a streak gray-green, dolomitic to siliceous shale.

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- 11,441.5-11,445' 3.5' Sandstone, gray-green, fine grained, well sorted, tightly cemented, limey, hard and tight, with spotty faint oil stain near a vertical fracture.
- 11,445-11,448' 3.0' Siltstone or very fine grained sandstone, dark gray-green, tightly cemented and limey with dark gray-green shaley streaks and a thin streak gillsonite.
- Core #80 11,448 - 11,500'
- 11,448-11,449.5' 1.5' Shale, dark green, dolomitic and hard with few and scattered carbonized plant remains.
- 11,449.5-11,453' 3.5' Dolomite, dark green, dense, argillaceous and silty.
- 11,453-11,456' 3.0' Limestone, dark green, dense, argillaceous, silty and slightly dolomitic.
- 11,456-11,486' 30.0' Siltstone, or very fine grained sandstone, dark green, gray-green and brown-gray, slightly dolomitic to siliceous, very tightly cemented, with occasional shaley streak and faintly oil stained vertical fracture, grades into medium grained sandstone and to coarse grained sandstone in lower 4 feet.
- 11,486-11,494' 8.0' Sandstone, brown, fine to medium grained, well sorted, tightly cemented, slightly dolomitic to siliceous, hard and tight with spotty oil stain and poor to trace saturation in upper 3 feet.
- 11,494-11,497' 3.0' Sandstone, gray, very fine grained, well sorted, limey, tightly cemented, hard and tight, becoming conglomeratic with small red chert pebbles and with a thin stringer brown-black shale, petroliferous, tightly laminated, slightly calcareous to dolomitic and hard.
- 11,497-11,500' 3.0' Sandstone, brown, fine grained, fair sorted, with few coarse sand grains, tightly cemented, slightly dolomitic to siliceous, hard and tight, with spotty faint to trace oil stain.
- Core #84 11,640 - 11,692'
- 11,640-11,651' 11.0' Siltstone, dark gray-green, limey and tightly cemented and hard, with scattered small carbonized organic fragments and occasional streak of green argillaceous, dense, silty dolomite.
- 11,651-11,673' 22.0' Shale, reddish brown, massive, slightly dolomitic and gritty, grades into green, massive, slightly gritty shale (mudstone).
- 11,673-11,678' 5.0' Shale, green, slightly silty, slightly dolomitic to siliceous, massive and hard with a stringer of reddish brown massive shale or mudstone as above.
- 11,678-11,681' 3.0' Siltstone or very fine grained sandstone, tightly cemented, siliceous to slightly dolomitic, muddy and hard.

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- 11,681-11,683' 2.0' Shale, dark green, massive, silty, siliceous and hard.
11,683-11,688' 5.0' Siltstone or very fine grained sandstone, slightly dolomitic, tightly cemented, muddy and hard, with a stringer gray-green poorly sorted fine grained sandstone.
11,688-11,691' 3.0' Shale, dark green, massive, quite gritty, slightly dolomitic to siliceous and hard.
11,691-11,692' 1.0' Mudstone, or massive shale, reddish-brown, very gritty, slightly dolomitic and hard.

Core #86 11,692 - 11,721'

- 11,692-11,703' 11.0' Mudstone, red-brown mottled, mottled green, slightly dolomitic, gritty and hard, with some waxy red mudstone spots from 11,692-11,700'.
11,703-11,706' 3.0' Limestone, green, dense, silty and muddy.
11,706-11,712' 6.0' Sandstone, gray-green, very fine grained, poorly sorted with some coarse chert grains, calcareous and tightly cemented.
11,712-11,715' 3.0' Siltstone, green, muddy, massive and hard.
11,715-11,716' 1.0' Siltstone or very fine grained sandstone, well sorted, tightly cemented and slightly dolomitic.
11,716-11,721' 5.0' Mudstone or massive shale, green, gritty and hard, with a stringer red-brown gritty mudstone from 11,717-11,720'.

Core #87 11,721 - 11,770'

- 11,721-11,724.5' 2.5' Siltstone, dark green, muddy and slightly dolomitic.
11,724.5-11,729' 4.5' Sandstone, very fine grained, gray-green, muddy, slightly calcareous and tightly cemented.
11,729-11,731' 2.0' Sandstone, brown, medium to coarse grained, angular to sub-rounded, fair to poor sorting, calcareous, tightly cemented, hard and tight, with spotted brown oil stain.
11,731-11,733.5' 2.5' Siltstone, brown-gray, quartzitic and fractured with a thin streak dark green hard shale.
11,733.5-11,741' 7.5' Sandstone, brown, medium to coarse grained, poor sorting, angular to sub-rounded clear quartz and few black chert grains, tightly cemented with dolomitic cement and hard with spotty brown oil stain.
11,741-11,745' 4.0' Siltstone, dark brown to brownish-gray, calcareous, tightly cemented and hard.
11,745-11,752' 7.0' Siltstone or very fine grained sandstone, dark brown, well sorted, slightly calcareous to dolomitic, tightly cemented and hard with some dead black oil on a fracture.
11,752-11,758' 6.0' Sandstone, gray-green, fine grained to medium grained, poorly sorted, angular to round grains, tightly cemented with calcareous cement, and with occasional small pod green, limey mudstone.

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- 11,758-11,770' 12.0' Sandstone, brown, very fine grained, well sorted, tightly cemented with siliceous cement, and hard, with streaks gray-green muddy siltstone and hard, green mudstone.
- Core #88 11,770 - 11,805'
- 11,770-11,772' 2.0' Siltstone, gray-green and limy.
- 11,772-11,774.5' 2.5' Sandstone, brown, very fine grained, well sorted, dolomitic, tightly cemented and hard, with spotty brown oil stain.
- 11,774.5-776.5' 2.0' Sandstone, gray-green, fine grained, well sorted, calcareous, slightly quartzitic and tightly cemented with a thin streak tannish-gray, dense limestone.
- 11,776.5-779.5' 3.0' Shale, dark gray, limy, silty and hard with stringers dark gray, shaley limy siltstone.
- 11,779.5-11,792' 12.5' Siltstone, gray-green, tightly cemented with limy cement and a thin streak brown poorly sorted coarse grained sandstone, hard and tightly cemented with limy cement.
- 11,792-11,794' 2.0' Shale, dark gray-green, massive and hard.
- 11,794-11,798.5' 4.5' Mudstone, dark gray-green, very gritty with siltstone size grains.
- 11,798.5-11,805' 6.5' Siltstone or very fine grained sandstone, brown, well sorted, tightly cemented with siliceous cement, hard and with poor to trace brown oil saturation.
- Core #89 11,805 - 11,823'
- 11,805-11,809.5' 4.5' Siltstone or very fine grained sandstone, brown and dark gray, well sorted, tightly cemented with dolomitic cement, hard, with spotted good and trace brown oil stain.
- 11,809.5-11,815' 5.5' Shale, massive, dark green, silty and hard.
- 11,815-11,823' 8.0' Siltstone, dark gray-green, limy, muddy and hard.
- Core #90 11,823 - 11,873'
- 11,823-11,828' 5.0' Sandstone, dark gray-green, fine grained, poorly sorted, tightly cemented with dolomitic cement, and with a thin streak silty dark green, finely crystalline hard limestone.
- 11,828-11,831' 3.0' Sandstone, brown, very fine grained, fair sorting, tightly cemented with dolomitic cement, hard and tight with trace brown oil saturation.
- 11,831-11,834' 3.0' Sandstone, dark green-gray, very fine grained, well sorted, tightly cemented with limy cement, hard and tight and barren.
- 11,834-11,838' 4.0' Siltstone, dark gray-green, muddy, slightly siliceous and hard.
- 11,838-11,842.5' 4.5' Sandstone, brown, very fine grained, well sorted, tightly cemented with dolomitic cement, hard and

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- 11,842.5-843.5' 1.0' tight, with brown-black live oil stain on a fracture and poor to trace oil saturation.
Mudstone, or massive shale, green, silty to gritty and hard.
- 11,843.5-11,854' 11.5' Siltstone or very fine grained sandstone, gray-green, well sorted, tightly cemented, calcareous, hard and tight.
- 11,854-11,856.5' 2.5' Sandstone, brownish-gray, fine grained, well sorted, tightly cemented, calcareous, hard, tight and barren.
- 11,856.5-860.5' 4.0' Sandstone, dark gray-green, medium grained to coarse grained, fair to poor sorted, tightly cemented, calcareous, hard and tight.
- 11,860.5-11,866' 5.5' Siltstone, dark green, calcareous, tightly cemented and hard with shaley siltstone streaks.
- 11,866-11,873' 7.0' Sandstone, brownish dark gray, fine grained to medium grained, well sorted, tightly cemented, calcareous, hard and tight, with a streak brown, very fine grained sandstone, hard and tight with trace oil saturation and a calcite encrusted, brown-black oil stained fracture.
- Core #91 11,873 - 11,925'
- 11,873-11,878' 5.0' Dolomite, dark green, finely crystalline, argillaceous and silty.
- 11,878-11,884' 6.0' Siltstone, dark gray, hard, calcareous and tightly cemented with a stringer red-brown mottled green, gritty mudstone.
- 11,884-11,902' 18.0' Mudstone, dark gray-green, gritty and hard, with streaks dark green, tightly cemented siltstone, and a thin stringer green-gray medium grained sandstone, slightly calcareous, hard and tightly cemented.
- 11,902-11,912.5' 10.5' Sandstone, brownish-gray, very fine grained, well sorted, calcareous, tightly cemented, hard and tight, generally barren but with a streak of brown, very fine grained sandstone, hard and tight, with trace oil saturation.
- 11,912.5-11,915' 2.5' Shale, green, dolomitic and slightly silty.
- 11,915-11,921' 6.0' Limestone, dark green, dolomitic, quite silty and argillaceous.
- 11,921-11,925' 4.0' Mudstone, dark red-brown, gritty, slightly argillaceous to dolomitic and hard, with streaks dark green, tightly cemented, slightly calcareous siltstone.
- Core #92 11,925 - 11,974'
- 11,925-11,927' 2.0' Mudstone, dark red-brown with some green mottles, gritty with stringers dark green, hard, silty shale.
- 11,927-11,934.5' Missing.

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- 11,934.5-11,936' 1.5' Siltstone or very fine grained sandstone, tan, quartzitic, hard and tight with a pair of calcite lined vertical fractures.
- 11,936-11,940' 4.0' Sandstone, brown, fine grained to very fine grained, well sorted, tightly cemented, dolomitic, hard and tight, with trace to poor oil saturation.
- 11,940-11,944' 4.0' Siltstone or very fine grained sandstone, gray-green, tightly cemented and quartzitic with a streak brown, very fine grained sandstone, hard, tight, with brown oil stain and trace to poor oil saturation.
- 11,944-11,952' 8.0' Sandstone, dark green, fine grained, well sorted, tightly cemented, calcareous, hard and tight, becoming poorly sorted and conglomeratic at base.
- 11,952-11,964' 12.0' Siltstone, dark green, shaley and tightly cemented.
- 11,964-11,974' 10.0' Mudstone, red-brown, gritty and slightly dolomitic, with streaks dark green very fine grained sandstone, silty and quartzitic.
- Core #93 11,975 - 12,007'
- 11,975-11,977' 2.0' Siltstone, dark green, hard, dolomitic and tightly cemented.
- 11,977-11,982' 5.0' Siltstone, gray, quartzitic, with a vertical open fracture and black oil stained sandy streaks.
- 11,982-11,988' 6.0' Mudstone, dark green, silty and hard with streaks brown silty mudstone.
- 11,988-11,997' 9.0' Sandstone, gray, medium to coarse grained, poor sorting, tightly cemented with slightly calcareous cement, hard and tight, with good brown oil stain and saturation.
- 11,997-12,007' 10.0' Siltstone or very fine grained sandstone, brownish gray, dolomitic, tightly cemented, hard and barren
- Core #94 12,007 - 12,043'
- 12,007-12,016.5' 9.5' Sandstone, tannish gray, very fine grained, well sorted, calcareous, tightly cemented, hard and barren.
- 12,016.5-023.5' 7.0' Mudstone, dark green, dolomitic to slightly calcareous, very silty and hard.
- 12,023.5-12,035' 11.5' Mudstone, dark red-brown, faintly mottled green, and silty, with stringers of gray and gray-green, dolomitic, hard and muddy siltstone.
- 12,035,12,042' 7.0' Sandstone, tannish gray, very fine grained, well sorted, calcareous and tightly cemented, some good sized pyrite clusters and streaks gray-green, muddy siltstone and coarse grained gray-green sandstone, calcareous, tightly cemented and hard.

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- Core #101 12,234 - 12,285'
12,234-12,250' 16.0' Mudstone, dark reddish brown, gritty, slightly calcareous and hard.
12,250-12,254.5' 4.5' Sandstone, tan, fine grained, fair to poorly sorted, slightly conglomeratic with small chert pebbles, calcareous, tightly cemented and slightly muddy; with a thin stringer green, slightly calcareous fine grained sandstone, tightly cemented and slightly conglomeratic with small chert pebbles.
12,254.5-12,285' 33.5' Interbedded dark red gritty, siliceous mudstone, green, muddy, siliceous siltstone and green, gritty siliceous mudstone, with a thin stringer dark red conglomeratic mudstone at base of interval.
- Core #102 12,285 - 12,333'
12,285-12,292' 7.0' Siltstone, green, muddy and siliceous.
12,292-12,293.5' 1.5' Sandstone, pale gray, fine grained to medium grained, fair to well sorted, sub-angular clear quartz and few black chert grains, slightly muddy and calcareous, tightly cemented and hard with a calcite encrusted vertical fracture having residual brown-black dead(?) oil.
12,293.5-294.5' 1.0' Sandstone, brownish-gray, fine grained to medium grained, poorly sorted, slightly conglomeratic with granules clear quartz, slightly calcareous, tightly cemented, sub-angular clear quartz grains, muddy, hard and tight with a slightly calcified, vertical fracture with brown-black dead oil stain as above.
12,294.5-12,297' 2.5' Sandstone, gray, medium grained, poorly sorted and conglomeratic with small gray chert pebbles, slightly muddy, calcareous, tightly cemented, sub-angular clear quartz grains, hard and tight.
12,297.5-12,297.5' .5' Mudstone, green, gritty, siliceous and hard.
12,297.5-12,300' 2.5' Conglomerate, gray, slightly muddy, sandy, assorted small pebbles, gray and white chert, flint and chalcedony, hard and tight.
12,300-12,310.5' 10.5' Sandstone, brown-gray, medium grained, fair sorted, slightly muddy, dolomitic to slightly calcareous, tightly cemented sub-angular and sub-rounded clear quartz grains, hard with very faint oil stain and trace to no oil saturation.
12,310.5-12,333' 22.5' Mudstone, dark red, with faint green mottlings, gritty, slightly calcareous to siliceous and hard.
- Core #103 12,333 - 12,354'
12,333-12,339' 6.0' Mudstone, dark red, faintly mottled green, gritty, slightly calcareous to siliceous and hard.
12,339-12,343.5' 4.5' Siltstone, green, muddy, slightly calcareous to siliceous and hard, with a thin stringer dark red gritty mudstone between 12,341-12,343.5'.

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- 12,343.5-12,347' 3.5' Sandstone, gray, very fine grained, well sorted, siliceous, tightly cemented sub-angular clear quartz grains, and hard.
- 12,347-12,354' 7.0' Mudstone, dark red, silty to gritty, slightly calcareous to siliceous and hard with a thin stringer green, muddy siltstone between 12,349-12,354.

Core #104 12,354 - 12,404'

- 12,354-12,357.5' 3.5' Mudstone, dark red, silty to gritty and hard.
- 12,357.5-12,369' 11.5' Sandstone, light green, fine grained, well sorted, slightly calcareous and muddy, tightly cemented sub-angular clear quartz grains, hard and tight with stringers green, gritty mudstone at 12,365-12,365.5' and 12,368-12,369'.
- 12,369-12,373' 4.0' Sandstone, pale greenish-gray, fine grained, fair sorting, calcareous, tightly cemented, sub-angular clear quartz grains, and hard, grades into:
- 12,373-12,374' 1.0' Sandstone, grayish-white, coarse grained, conglomeratic with small pebbles gray and smoky chert, tightly cemented with calcareous cement; grades into:
- 12,374-12,375' 1.0' Sandstone, gray-white, medium grained, well sorted, calcareous, hard, tightly cemented sub-angular and angular clear quartz grains.
- 12,375-12,376' 1.0' Mudstone, green, muddy and slightly siliceous.
- 12,376-12,391' 15.0' Mudstone, dark red, with some green mottles, gritty and slightly calcareous.
- 12,391-12,395.5' 4.5' Sandstone, green, fine to very fine grained, muddy, silty, poorly sorted, siliceous and tightly cemented.
- 12,395.5-12,396' 0.5' Mudstone, green, gritty, slightly calcareous and hard, with few chert granules.
- 12,396-12,397.5' 1.5' Mudstone, light green, gritty and calcareous.
- 12,397.5-12,400' 2.5' Sandstone, pale green, fine to medium grained, fair sorting, calcareous, tightly cemented sub-angular clear quartz grains.
- 12,400-12,403' 3.0' Sandstone, brown-gray, medium grained, fair to poor sorting, slightly calcareous, tightly cemented, sub-angular clear quartz grains, hard and tight, very faintly oil stained with trace to no oil saturation, becoming conglomeratic with small pebbles and granules of chert and reworked green, hard shale in bottom 0.5'.
- 12,403-12,403.5' 0.5' Sandstone, pale green, fine grained, poor sorting with few coarse grains, calcareous, tightly cemented sub-angular clear quartz grains and barren of oil stain.
- 12,403.5-12,404' 0.5' Sandstone, gray-brown, fine to very coarse, poorly sorted and conglomeratic, slightly muddy, dolomitic to slightly calcareous, tightly cemented with trace oil stain.

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- Core #105 12,404 - 12,455'
12,404-12,412' 8.0' Sandstone, gray-brown, medium to coarse grained, poor sorting, slightly conglomeratic, slightly calcareous, hard and tightly cemented, spotty trace oil stain.
- 12,412-12,413.5' 1.5' Conglomerate, gray-green, heterogeneous assortment of granules and small pebbles, gray, white and black chert, and green reworked shale, muddy and slightly friable.
- 12,413.5-418.5' 5.0' Sandstone, green, fine to very fine grained, fair to well sorted sub-angular clear quartz grains, hard, slightly calcareous and tightly cemented.
- 12,418.5-12,455' 36.5' Mudstone, dark red, mottled green, siliceous to calcareous, gritty and hard, with a stringer green, gritty mudstone from 12,446-448' and a thin stringer brown, muddy, calcareous siltstone between 12,448-455'.
- Core #106 12,455 - 12,502'
12,455-12,476' 21.0' Mudstone, dark red, gritty and hard, calcareous in lower 13 feet.
- 12,476-12,479.5' 3.5' Siltstone, green, muddy, slightly sandy; lower 1.0' is calcareous.
- 12,479.5-12,484' 4.5' Sandstone, gray-brown, fine grained, fair sorting, slightly calcareous to dolomitic, hard, tightly cemented sub-angular clear quartz grains, slightly muddy, with trace dead brown-black oil stain on a fracture.
- 12,484-12,488' 4.0' Sandstone, gray-brown, medium to coarse grained, fair to well sorted, slightly calcareous to dolomitic, generally well cemented, but with trace porosity.
- 12,488-12,489' 1.0' Sandstone, pale green, fine grained, well sorted sub-angular and angular clear quartz grains, calcareous, hard and tightly cemented.
- 12,489-12,493' 4.0' Mudstone, green, gritty, non-calcareous and hard, with a stringer of silty small pebble conglomerate at base.
- 12,493-12,502' 9.0' Mudstone, dark red, gritty and hard with a stringer of muddy, calcareous siltstone from 12,496-498 feet.

Core #107

Missing

T.D. 12,518'

Core