

FILE NOTATIONS

Entered in NID File ✓Entered On S R Sheet ✓Location Map Pinned ✓Card Indexed ✓

I W R for State or Fee Land _____

Checked by Chief ✓Copy NID to Field Office ✓Approval Letter ✓

Disapproval Letter _____

COMPLETION DATA:

Date Well Completed 12/24/57

OW _____ WW _____ TA _____

GW _____ OS _____ PA ✓

Location Inspected _____

Bond released _____

State of Fee Land _____

LOGS FILED

Driller's Log 1-7-58Electric Logs (No. 1) 2E _____ II _____ E-I 2 GR _____ GR-N _____ Micro 2

Lat _____ Mi-L _____ Sonic _____ Others _____

STATE OF UTAH
OIL AND GAS CONSERVATION COMMISSION
NOTICE OF INTENTION TO DRILL

October 31 19 57

OIL AND GAS CONSERVATION COMMISSION

In compliance with Rule C-4, notice is hereby given that it is our intention to commence the work of drilling Well No. 2, which is located 782 ft from () line and 660 ft from (E) () line of Sec 10, Twp 8S, R 22E, Salt Lake White River (Meridian) (S) (Field or Unit)

Uintah on or about 10 day of November, 19 57
(County)

LAND: Fee and Patented ()
State ()
Lease No _____
Public Domain (x)
Lease No SL--071975A

Name of Owner of patent or lease Sinclair Oil & Gas Co. - 50%
Std. Oil Co. of Calif. - 50%
Address Standard Oil Company of California, P.O. Box 1076,
Salt Lake City 10, Utah
Sinclair Oil & Gas Company, 455 East 4th South,
Salt Lake City 11, Utah

Is location a regular or exception to spacing rule? Regular Has a surety bond been filed? No With whom? _____ Area in drilling unit 19,467.16 Acres
(State of Federal)

Elevation of ground above sea level is 4931 (estimate) ft. All depth measurements taken from top of Derrick floor which is 10 (approx) above ground
(Derrick Floor, Rotary Table or Kelley Bushing)

Type of tools to be used Rotary. Proposed drilling depth 6200 ft. Objective formation Final elevation will be submitted at a later date.
is Uinta, Green River and Wasatch formations.

PROPOSED CASING PROGRAM

Size of Casing Inches A.P.I.	Weight Per Foot	Grade and Type	Amount Ft. In.	Top Bottom	Cementing Depths	
10-3/4"	Unknown	Unknown	205'	20'	225'	Cement to surface
7"	Unknown	Unknown	Depends on production and testing.			

Details as to weight, grade & type will be submitted when casing is received.

AFFIDAVIT

I hereby certify under the penalty of perjury, that the information contained and statements herein made are to the best of my knowledge and belief, true, correct and complete.

Approved John B. Fugate

By W. P. Winham

Date 11/1 19 57

Division Superintendent
(Title or Position)

By John B. Fugate

STANDARD OIL COMPANY OF CALIFORNIA
(Company or Operator)

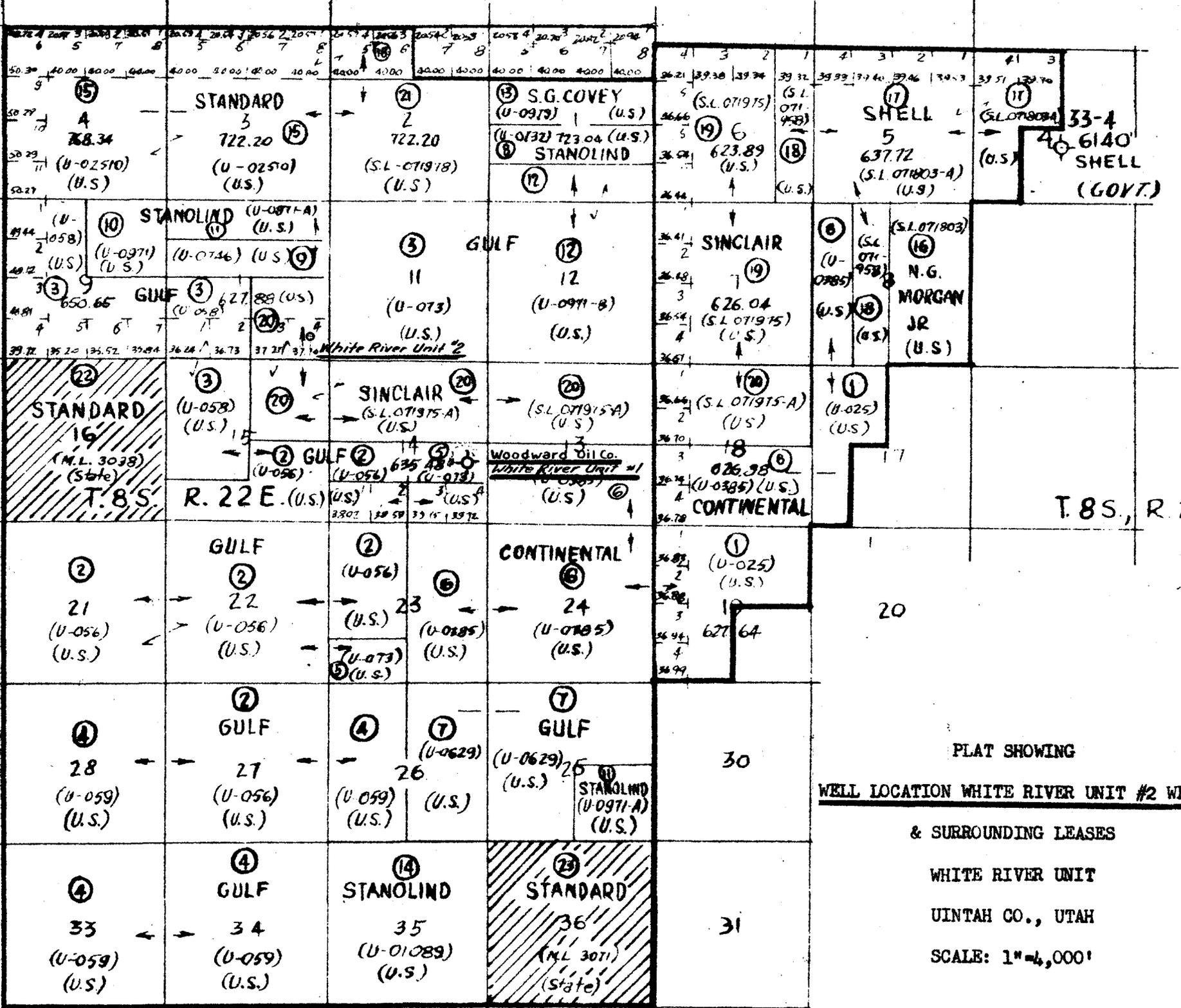
Title Secretary

Address P.O. Box 1076

Salt Lake City 10, Utah

INSTRUCTIONS:

1. Complete this form in duplicate and mail both copies to the Oil and Gas Conservation Commission, Rm 105, Capitol Bldg, Salt Lake City 14, Utah.
2. A plat or map must be attached to this form showing the location of all leases, property lines, drilling and producing wells within an area of sufficient size so that the Commission may determine whether the location of the well conforms to applicable rules, regulations and orders.
3. Any information required by this form that cannot be furnished at the time said form is submitted must be forwarded to the commission as soon as available.
4. Use back of form for remarks.



PLAT SHOWING
 WELL LOCATION WHITE RIVER UNIT #2 WELL
 & SURROUNDING LEASES
 WHITE RIVER UNIT
 UINTAH CO., UTAH
 SCALE: 1" = 4,000'

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

Budget Bureau No. 42-R356.5
Approval expires 12-31-60.

LAND OFFICE Salt Lake City
LEASE NUMBER SL-071975A
UNIT White River

LESSEE'S MONTHLY REPORT OF OPERATIONS

*Noted
O.A.H.
12-5-57*

State Utah County Uintah Field Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of November, 19 57

Agent's address P.O. Box 1076 Company Standard Oil Co. of California
Salt Lake City 10, Utah Signed W.P. Winham (Enc)

Phone DA2-5831 Agent's title Division Superintendent

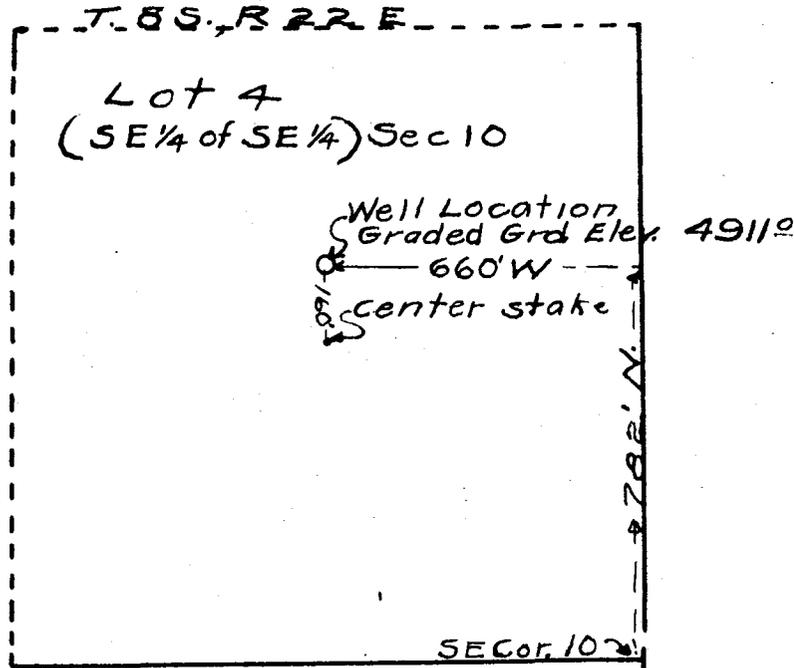
SEC. AND ¼ OF ¼	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
SE SE Sec. 10	8S	22E	2							<p>December 1, 1957. Drilling at 4739 feet in shale and streaks of sandstone of the Green River formation. Well spudded November 15, 1957. Cemented 10-3/4" casing at 267 feet with 220 sacks.</p> <p>DST #1: 3130-3161', open 45 minutes, SI 30 minutes. Recovered 98 feet mud, no shows. IF 50, FF 75, SIP 125. Ran Induction- Electric & MicroLog to 4458 feet. Top Uinta-surface "Green River" 2460'</p>

NOTE.—There were No runs or sales of oil; No M cu. ft. of gas sold;
No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

PLAT SHOWING
LOCATION OF THE STANDARD OIL COMPANY OF
CALIFORNIA WELL IN THE SE $\frac{1}{4}$ OF THE SE $\frac{1}{4}$
SECTION 10, TOWNSHIP 8 SOUTH, RANGE 22
EAST, SALT LAKE BASE AND MERIDIAN.

Scale of plat 1" = 400 feet.



I, Leon P. Christensen of Vernal, Utah, do hereby certify that this plat correctly shows the location of the well shown hereon as surveyed by me October 17, 1957, and levels were run November 11, 1957; that said well is located at a point 782 feet North and 660 feet West of the Southeast corner Section 10, Township 8 South, Range 22 East, Salt Lake Base and Meridian.

Leon P. Christensen
Prof. Engr. and Land Surveyor

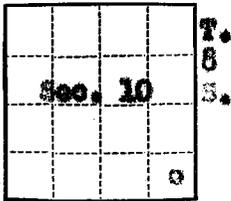


(SUBMIT IN TRIPLICATE)

Land Office Salt Lake City

Lease No. SL-071975A

Unit White River



R. 22E.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Noted
1-7-58 H

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....		SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....		SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....		SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....		SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....	X		

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

White River Unit

December 23, 19 57

Well No. #2 is located 782 ft. from DKS line and 660 ft. from E line of sec. 10

SE SE Sec. 10
(¼ Sec. and Sec. No.)

T. 8S. R. 22E.
(Twp.) (Range)

SL
(Meridian)

Wildcat
(Field)

Uintah
(County or Subdivision)

Utah
(State or Territory)

The elevation of the derrick floor above sea level is 4,920 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)

Verbal Approval to abandon well obtained from Mr. Russell on December 20, 1957

Total Depth: 6133', bottoming 671' into the Wasatch formation.

Formation Tops: Uinta surface, Green River 2160', Wasatch 5462'.

Shows: Several minor shows were logged in the Green River and Wasatch formations and were tested with negative results.

Casings: 10-3/4" O. 267'.

Proposed Plugs for Abandonment: 55 sax cem't. 5400-5500', 75 sax cem't 2400-2550' 75 sax cem't 215-325', 15 sax in top of 10-3/4" casing.

Location: Erect location marker and clean-up location.

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

Company STANDARD OIL COMPANY OF CALIFORNIA

Address Att: Mr. W. P. Winham

P. O. Box 1076

Salt Lake City, Utah

By W. P. Winham (AUC)

Title Division Supt.

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

Budget Bureau No. 42-R386.5
Approval expires 12-31-60.
Salt Lake City

LAND OFFICE
LEASE NUMBER **SL-071975A**
UNIT **White River**

LESSEE'S MONTHLY REPORT OF OPERATIONS

Noted
H-1-7-58

State Utah County Uintah Field Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of December, 1957,

Agent's address P.O. Box 1076 Company Standard Oil Co. of California
Salt Lake City 10, Utah Signed W.P. Winham *WRD.*

Phone DA2-5831 Agent's title Division Superintendent

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GALLONS	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
SE SE Sec. 10	8S	22E	2							Abandoned on 12-23-57, at 6133' in shale and sandstone of the Wasatch formation.
<p><u>Casings:</u> 10-3/4" C. 267'. <u>Fm. Tops:</u> Green River 2460' Wasatch 5462' <u>Plugs:</u> 5400-5500 w/ 55 sacks cement. 2400-2550 w/ 75 sacks cement. 215-325 w/ 75 sacks cement.</p> <p><u>Formation Tests:</u> DST #2: 3985-4086', ISI 30 min, open 2 hrs, FSI 1 hr. Gas to surface in 23 min @ 5-10 MCF/D. Rec. 3827' of GWM grdg to clear water. Max. sal. 260 g/g NaCl. ISI 1830, IF 375, FF 1685, FSI 1805, HH 2046. DST #3: 5447-5508', ISI 30 min, open 2 hrs, FSI 1 hr. Rec. 105' SO&G Mud. Sal. 600 ppm Cl. ISI 175, IF 35, FF 55, FSI 348, HH 2840. DST #4: 5933-5956', ISI 30 min, Open 1 hr, FSI 1 hr. Rec. 75' S.O. Mud. Sal. 1230 ppm Cl. ISI 50, IF 40, FF 40, FSI 63, HH 3163. DST #5: 5840-5853', ISI 30 min, open 1 hr, FSI 30 min. Est. rec. of 1000' of fluid based on pressure chart; actual rec. 60' salt water; equalizing valve leaked. Sal. 27,900 ppm Cl. ISI 2447, IF 49, FF 435, FSI 2009, HH 3010.</p>										

NOTE.—There were No runs or sales of oil; No M cu. ft. of gas sold; No runs or sales of gasoline during the month. (Write "no" where applicable.)

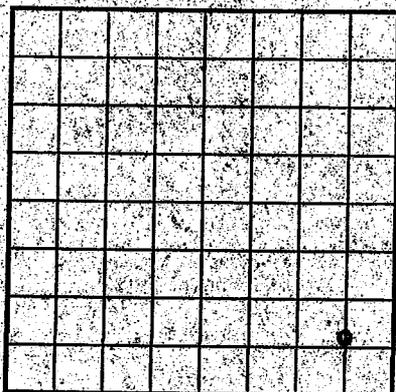
NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

R. 22E.

Salt Lake City

U. S. LAND OFFICE
SERIAL NUMBER **BL-0719 75A**

LEASE OR PERMIT TO PROSPECT **White River**



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company Standard Oil Company of California Address P.O. Box 1076, Salt Lake City 10, Utah

Lessor or Tract Tract #20, White River Unit Field Wildcat State Utah

Well No. 2 Sec. 10 T. 8S. R. 22E. Meridian Salt Lake County Uintah

Location 782 ft. ^{N.}_{S.} of S Line and 660 ft. ^{E.}_{W.} of E Line of Sec. 10 Elevation 4920 D.F.
(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 W.P. Winham (SUC)

Date January 2, 1958 Title Division Superintendent

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

Commenced drilling November 15, 1957. Finished drilling December 23, 1957.

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—	
10-3/4"	40.5	8 Rnd	Youngs	252'	Baker				Surface

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10-3/4"	267'	220	Displacement		

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

FOLD | MARK

FOLD MARK

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10-3/4"	267'	220	Displacement		

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 6133 feet, and from _____ feet to _____ feet
 Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

_____, 19____ Put to producing _____, 19____
 The production for the first 24 hours was _____ barrels of fluid of which _____ % was oil; _____ % emulsion; _____ % water; and _____ % sediment. Gravity, °Bé. *Dry hole*
 If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____
 Rock pressure, lbs. per sq. in. _____

EMPLOYEES

J. M. Sample _____, Driller C. R. McCollum _____, Driller
 H. R. Schanck _____, Driller E. J. Barker _____, Tool Pusher

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0'	2460'	2460	Uinta
2460	5462	3002	Green River
5462	6133	671	Wasatch
<u>FORMATION LOG</u>			
0'	275'	275	No record.
275	690	415	Shale, red-brown, part silty, with some intbd sandstone, very fine-medium grain, rd, gy, sl calc, & siltstone, gy, calc. Trace anhydrite.
690	1250	560	Shale, vari-colored, calc, pt silty, w/ intbd intervals of sandstone, very fine-medium grain, gy, & siltstone, lt gy, calc.
1250	1330	80	Sandstone, fine-medium grain, wh-gy, w/ spotty blk oil staining, dull gold fluor. & intbd sh, do.
1330	1460	130	Shale, do, w/ some intbd sandstone, very fine grain, sl calc, ti, tr hvy blk oil stain, & siltstone, gy.
1460	2290	830	Shale, do, w/ some intbd siltst, gy, calc, & sandstone, fine-medium grain, lt gy, gy.
2290	2385	95	Sandstone, do, siltst, do, & some intbd shale do.
2385	2460	75	Siltstone, gy, grn, brn, pt sdv, w/ str sandstone, gy, very fine grain, silty, mic.

FORMATION RECORD COVER **JAN 7 1958**

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION
2460'	2765'	305	Shale, dk grn-gy, gy, slty, pt dolo, pt sdy, carb. pyritic, pt O-sh & some intbd sltst, gy, tn, argl, & occ. sandstone, wh, gy, very fine-fine grain, argl, calc.
2765	2910	145	Oil shale, dark brown, pt dol; shale, dark gy, carb. pyr, & sltst, gy-brn, mica, pt sdy; pt pyritic, pt dol.
2910	3625	715	Oil shale, dark brn, dk gy-brn, slty, carb. pt dol, pyr, hd, some spty tary oil stn.
3625	3720	105	Oil shale, do, and dolomite, lt grn-gy, argl, calc, slty, w/ some brn oil stn.
3730	4150	420	Oil shale, do, w/ intbd sltst, lt gy, dol, & sandstone, wh, lt gy, very fine-fine grain, w/ tr brn oil stn.
4150	4450	300	Intbd shale, gy, dol; sltst, gy, v. dol; & sandstone, fine-medium grain, lt gy, occ tr oil stn.
4450	4600	150	Shale, do, sltst, do, sandstone, do, and limestone, brn, dns.
4600	5370	770	Shale, gy, brn, slty, dol, pt ost & ool, and occ intbds of oil shale, and thin beds of limestone, gy, tn, ost-coq., slty, ti, some scattered traces of oil.
5370	5400	30	Sandstone, lt gy, very fine-fine grain, com ost, sl calc, ti, oil stn & siltstone, do.
5400	5462	62	Limestone, ost-coq., tn, dk gy, argl, ool, pt slty, dns & sandstone, do.
5462	6133	671	Intbed shale, red-brn, grn, osh, pt bent, pt slty, occ pyr; sandstone, wh, lt gy, very fine-coarse grain, occ pbl, slightly calc, pt qtzose, pt slty, pt argl, ti to fair perm. Oil stn 5935-50; and siltstone, grn-gy, calc, sdy, argl.

FORM 10-54



STANDARD OIL COMPANY OF CALIFORNIA
WESTERN OPERATIONS, INC.

211 EAST THIRD SOUTH STREET • SALT LAKE CITY • UTAH

EXPLORATION DEPARTMENT
GREAT BASIN DIVISION
W. P. WINHAM
DIVISION SUPERINTENDENT

January 6, 1958

Oil and Gas Conservation Commission
Room 105
Capitol Building
Salt Lake City 114, Utah

*Noted H.
1-9-58*

Re: White River Unit #2
Section 10, T.8S., R.23E.
Uintah County, Utah

Gentlemen:

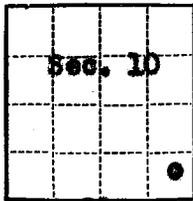
Enclosed is form 9-330 "Log of Oil or Gas Well",
together with copy of MicroLog and Induction-Electrical
Log covering subject well.

Very truly yours,


W. P. Winham

EWC/mgs

Encls.



(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Salt Lake
Lease No. 81-071975A
Unit White River

H
1-27-58

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....	SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....	SUBSEQUENT REPORT OF ABANDONMENT.....	X
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)

White River Unit

January 15, 1958

Well No. 2 is located 782 ft. from ~~xxx~~ line and 660 ft. from [E] line of sec. 10
[S]

SE SE Sec. 10 85. 22E. Salt Lake
(¼ Sec. and Sec. No.) (Twp.) (Range) (Meridian)

Wildcat Uintah Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 4920 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)

Well was abandoned December 24, 1957.

Total Depth: 6133', bottoming 671' into the Wasatch formation.

Formation Tops: Uinta - surface, Green River 2460', Wasatch 5462'.

Shows: Several minor shows were logged in the Green River and Wasatch formations and were tested with negative results.

Casing: 10-3/4" G. 267'.

Plugging Program: The following plugs were placed: 55 sacks cement 5400-5500', 75 sacks cement 2400-2550', 75 sacks cement 219-325', 15 sacks in top of 10-3/4" casing.

Location: Location marker was erected and location has been cleaned up.

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

Company STANDARD OIL COMPANY OF CALIFORNIA

Address c/o Mr. W. P. Winham

P.O. Box 1076

Salt Lake City 10, Utah

By W. P. Winham (EC)

Title Division Superintendent

511

ABANDONMENT REPORT

STANDARD OIL COMPANY OF CALIFORNIA

O & G C C

1-27-58

FIELD: White River Unit

PROPERTY: Section 10

WELL NO: White River Unit #2

Sec 10 T. 8 S. R. 22 E. SL B. & M.

Following is complete and correct record of all work done on the well since the previous record dated _____

PURPOSE OF WORK:

DATE OF REPORT: January 20, 1958

BY: C. V. Chatterton
Manager, Producing Department

WORK DONE BY: Mountain States Drilling Company

COMMENCED OPERATIONS: November 15, 1957

COMPLETED OPERATIONS: December 23, 1957

DATE WELL LAST PRODUCED:

DATE RETURNED TO PRODUCTION:

PRODUCTION:

PRIOR TO WORK

AFTER WORK

Oil	_____	B/D	_____	B/D
Water	_____	B/D	_____	B/D
Gas	_____	Mcf/D	_____	Mcf/D
Gravity	_____	°API	_____	°API
Tubing	_____	PSIG	_____	PSIG
Casing	_____	PSIG	_____	PSIG
Method of Production: Pumping	_____	_____	_____
Flowing	_____	_____	_____
Gas Lift	_____	_____	_____

S U M M A R Y

TOTAL DEPTH: 6133'

CASING: 16" conductor @ 42'
10 3/4" casing cemented @ 267'.

DRILL STEM TESTS:

- #1 - 3130 - 3161'
- #2 - 3985 - 4086'
- #3 - 5447 - 5508'
- #4 - 5933 - 5956'
- #5 - 5840 - 5853'

Well plugged and abandoned.

WELL NO.: #2

PROPERTY: Section 10

WHITE RIVER UNIT

WORK DONE

0' - 42' 16" conductor.

November 10-15, 1957

Mountain States Drilling Company moved in and rigged up.

Spudded 9:30 P.M. November 15, 1957

Drilled 15" hole 4 $\frac{1}{2}$ " Hughes Extra Hole Drill Pipe Water drilling fluid.

November 16, 1957

42' - 275' - 233' 15" hole drilled.

Cemented 10 3/4" casing 267'. Cemented 252', 10 3/4", 40.5#, 8 rd, J-55 casing at 267' with 220 sacks Type I cement. Howco equipment. 12 min mixing to average 15 $\frac{1}{2}$ -16 ppg slurry. 7 min displacing with 21 bbl water to leave 50' cement inside casing. Cement in place 3:20 P.M. Good returns to surface.

Casing Detail:

All 6 jts. 10 3/4", 40.5#, J-55 w/G.S
 Below K.B.
 Landed

252.46'
 15.0'
 267'

November 17, 1957

Cut and recovered 15' of 16" conductor. Installed Class III BOPE. Pressure tested to 1200 psi with clear water. After standing 22 hours, drilled out cement and Guide shoe.

Drilled 9" hole, 4 $\frac{1}{2}$ " F.H. D.P., water drilling fluid.

275' - 2122' - 1847' drilled

November 20, 1957

Lost circulation 2122'. Partial returns, added gel, sawdust, and fiber. Full returns.

Drilled 9" hole, gel mud.

2122' - 3161' - 1039' drilled

November 23, 1957

DST #1 - 3130-3161'. Ran Howco sidewall anchor DST on 4 $\frac{1}{2}$ " HEH D.P. and 358' 6"-7" D.C. Bowen ITCO jars, Howco safety joint. Set packers 3124 & 3130. Sidewall anchor 3136'. Opened tool for 20 min, initial buildup 5:10 P.M. Opened tool for 45 min flow test 5:30 P.M. Weak blow to very weak in 15 min. Dead at 40 min. Shut in 30 min. Rec 98' mud with small amount (few chunks) shale oil. Charts indicate packers not holding during initial shut in. Charts, top: IH-1590, IF-50, FF-75, CIP-125, FH-1570; bottom: IH-1585, IF-105, FF-130, CIP-130, FH-1585.

WELL NO.: #2

PROPERTY: Section 10

WHITE RIVER UNIT

Drilled 9" hole, gel mud.
3161' - 4267' - 1106' drilled

November 28, 1957

Lost cone and bearing in hole. Recovered with McCullough Magnet.

Drilled 9" hole, 4 1/2" HEM D.P., gel mud.
4267' - 4458' - 191' drilled

November 30, 1957

Ran Schlumberger Induction Electric log and Microlog Caliper survey. Recorded 4452' - 266' and 4457' - 266', respectively. Checked d.p. measurement bottom @ 4458'

Drilled 9" hole.
4458' - 4804' - 346' drilled

December 2, 1957

Core #1 4804 - 4813', Rec 9' (8 7/8" hole)

4804 - 4804' 8" - 8" Dolomite, algal? growth, brown sub-crystalline, dense, vy sli argl, some sh and occ oolites and osts filling in openings within the algae. A few minor frags that are oil stn'd; oil is lt brn, dull golden fluor, lt brn cut & sli oil odor, frags are ti

4804' 8" - 4805 - Shale, brn w/sli grn mott, sl silty, sli mica, bent & soft
4805 - 4813 - Shale, gry w/occ brn layers, dolo, pyritic, rare mica, lam; rare, vy th, discontinuous slty & sndy lenses; some carb material, fish scales & ostracods; core was badly broken up during coring;

December 3, 1957

Dst #2 - 2 hr JFT 3985 - 4086'. Ran Howco tester on dry k.p. sidewall anchor tester, Bowen jars, TIF safety jt, set packers @ 3979', 3985' and 4086'. Took 30 min initial SI test, 2 hr flow test and 1 hr final shut in. Med strong initial blow decreasing to fair at end of test. Gas to surface in 23 min, too weak to measure. Rec 3827' rise, gassy water mud grading to clear gassy water. Charts, top: IH-2112, ICIP-1790, IF-760, FF-1652, FCIP-1765, FH-1990; Bottom: IH-2100, indicates bottom packer held o.k.

Measured tester in hole. Measurements check D.P. measurements being carried minus laid down measurement.

Drilled 9" hole, gel mud
4813 - 5112' - 299' drilled

December 7, 1957

Core #2 - 5112 - 5127', Rec 12', (8 7/8" hole)

WELL NO.: #2

PROPERTY: Section 10

WHITE RIVER UNIT

Core #2 (cont'd)

- 5112 - 5118 - Sh, brn gy, dolie, sl slty & mic, occ pods ss, gy, fn, calc, v ti; vert, ti, NS; incr mica; bcm slty; mud invaded, patchy tan o stn, bri yel fluor, bcm mahogany brn, minor slt & mic; irreg frac filled w/ss, tn stn, vfn, dolie, v hd & ti, yel fluor
- 5118 - 5122 - Sh, bcm brn gy, ag, w/v th discont strks ss, yel fluor; bcm thinly & irregly varved, some slty strks; ti, bl yel fluor, no fis stn
- 5122 - 5124 - Sh, gy, dolie, v slty & sdy w/thinly inbd ss, gy(10% w/lt tn stn) v fn to fn, scat med, scat rnd gns blk & gy cht(fn to med), dolie, ti, w/bl to dull or fluor; open, tan to red brn stn, bri yel fluor; Sh, gy brn, some slty strks
- 5124 - 5127 - No recovery

Drilled 9" hole

5127' - 5508' - 381' drilled
December 12, 1957

DST #3 - 5447-5508'. Ran Howco sidewall anchor straddle test on dry $4\frac{1}{2}$ " EH DP and 358' 6 $1\frac{1}{4}$ -7" DC. Bowen ITCO jars - Howco safety jt. Set packers 5442, 5447 and 5467'. Sidewall anchor 5472'. Took 30 min initial shut in. Opened tester 4:25 A.M. for 2 hr test, mild blow 5 min, weak blow 15 min. Dead 20 min, very weak blow, steady remainder flow period. SI 1 hr. Pulled loose after jarring 40 min. 20-25 ton jar max pull 180,000 (90,000 over pipe weight). Rec 105' slightly oily mud (2% dark green oil) bottom chart indicates bottom packer did not hold therefore tested interval 5447 - 5508'. Packer failed after initial SI. Charts, Top: IH-2828, ICIP-153, IF-45, FF-70, FCIP-310, FH-2828; middle: IH-2840, ICIP-175, IF-35, FF-55, FCIP-348, FH-2840.

Measured tester in hole - measurement checked current DP measurements.

Drilled 9" hole

5508' - 5849' - 341' drilled

December 17, 1957

Core #3 - 5849 - 5857', Rec 8', 8 7/8" hole

- 5849 - 5854 - Ss, gy & clr, fn-med, cgl, fair sorting, qtz w/com scat crs, v crs & pebs of sh, wh; ls, tan & gy, & sh, blk, v hd & cht, milky, calc, low to fair perm, no show, spotty gold min fluor; bcm v calc, ti
- 5854 - 5855 $\frac{1}{2}$ - Sh, gy grn, occ red brn mot, com v sdy patches
- 5855 $\frac{1}{2}$ - 5857 - Sh, red brn, com grn mot, v slty, calc, firm, sdy

Drilled 9" hole

5857 - 5944' - 87' drilled

December 18, 1957

Core #4 5944 - 5956', Rec 11' (8 7/8" hole)

WELL NO.: #2

PROPERTY: Section 10

WHITE RIVER UNIT

Core #4 (cont'd)

- 5944 - 5945 $\frac{1}{2}$ - Sh, lt gy grn, calc, waxy, v slty, bcm v sdy, grades to:
 5945 $\frac{1}{2}$ - 5950 $\frac{1}{2}$ - Ss, lt gy, vfg, calc, com blk acc, v ti, hd, NSOF; bcm grn gy,
 v arg, bcm pyr; Ss, ab, w/patchy (25-75%) v lt tn o stn, bri yel
 fluor, poor cut; some v argil patches; less calc, v lo perm, even
 stn, fair petrol odor; ti, fairly even stn, com v thin sh breaks;
 vert fracs, ti, tan oil stn, bri yel fluor; minor stain, incr sh
 breaks
- 5950 $\frac{1}{2}$ - 5952 - Sltst, gy, sl calc, argl, pyr, v ti, NSOF; occ strk v fn ss,
 grades to:
- 5952 - 5955 - Sh, gy to grn gy, slty, pyr, hd; Sh, dk gy, dolie, slty, mic, hd,
 fairly com ost, several roughly circular planar organic(?) objects
 w/fingerprint pattern - fish scales?
- 5955 - 5956 - No recovery

December 19, 1957

DST #4 - 5933 - 5956'. Ran Howco tester on dry 4 $\frac{1}{2}$ " EH D.P. and 356' 6 1/4-7" DC. Bowen ITCO jars, Howco safety joint. Set packers 5923 and 5933'. Took 30 min ICIP. Opened tester 6:40 A.M. for 1 hr flow test. Very weak blow 10 min, dead remainder. Shut in 60 min for FCIP. Rec 75' sl oily mud. Charts, top: IH-3132, ICIP-38, IF-25, FF-25, FCIP-49, FH-3132; Bottom IH-3163, ICIP-50, IF-40, FF-40, FCIP-63, FH-3163.

DST #5 - 5840 - 5853'. Ran Howco sidewall anchor straddle test on dry 4 $\frac{1}{2}$ " EH D.P. and 356' 6 1/4-7" DC. Bowen ITCO jars, Howco safety joint. Packers 5835, 5840 and 5853'. Anchor 5868'. Took 30 min ICIP. Opened tester 2:45 P.M. for 1 hr flow test. Mild steady blow. No gas to surface. Final shut in 30 min. Rec est. 1000' water. Pressure type reverse valve open 60' above tools. Bottom chart indicates bottom packer held o.k. Water tests 28,500 PPM CL⁻. Charts, top: IH-3085, ICIP-2530, IF-37, FF-435, FCIP-2043, FH-3085; bottom: IH-3010, ICIP-2447, IF-49, FF-435, FCIP-2009, FH-3010.

Measured in (measurements check current pipe tally).

 Drilled 9" hole

5956' - 6101' - 145' drilled

December 22, 1957

Ran Schlumberger IES & Microlog 6096 - 4452' 6101' drillers depth; drilled 6101-6133'. Placed cement bridge 5500'-5400'. Howco equalized 55 sacks Type I cement through open end DP at 5500'. 9 min mixing to 15 ppg, 10 min displacing with 78 bbl, 10 bbl water ahead. Cement in place 7:45 P.M. Placed cement bridge 2550-2400'. Howco equalized 75 sacks type I cement through open end 4 $\frac{1}{2}$ " E.H. D.P. @ 2550'. 6 min mixing to 15 $\frac{1}{2}$ ppg, 7 min displacing with 35 bbl, 10 bbl water ahead. Cement in place 9:30 P.M. Placed cement bridge across shoe 10 3/4" casing 315' - 215'. Howco equalized 75 sacks Type I cement w/2% calcium chloride. Through open end DP at 315'. 4 min mixing, 1 min displacing w/3 $\frac{1}{2}$ bbls, 10 bbl water ahead. Cement in place 11:15 P.M.

WELL NO.: #2

PROPERTY: Section 10

WHITE RIVER UNIT

December 23, 1957

Located top bridge across casing shoe.
Top firm cement 219'.

Rig released 2:30 P.M. 12/23/57.

50