

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 RHS

Copy NID to Field Office

Approval Letter

Disapproval Letter

COMPLETION DATA:

Date Well Completed 2-17-61

OW _____ VW _____ TA _____

GW _____ OS _____ PA

Location Inspected 5-19-61 H.L.C.

Bond released _____

State of Fee Land _____

LOGS FILED

Driller's Log 3-14-61

Electric Logs (No.) 5

E L EI GR GRN Micro _____

Lat Mi-L Sonic Others _____

COPY TO AIC

Budget Bureau No. 42-R358.4
Approval expires 12-31-60.

Form 9-331a
(Feb. 1951)

	20	X

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Utah
Lease No. Utah 08599
Unit Booknot

SUNDRY NOTICES AND REPORTS ON WELLS

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

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

November 1, 19 60

Booknot Unit

Well No. 43-20 is located 2136 ft. from 17 1/2 line and 710 ft. from E line of sec. 20

NE 1/4 Sec. 20
(1/4 Sec. and Sec. No.)

25S
(Twp.)

17 1/2
(Range)

Salt Lake
(Meridian)

Wildcat
(Field)

Grand
(County or Subdivision)

Utah
(State or Territory)

The elevation of the ~~surface~~ above sea level is 6611 ft. Ungraded Grand.

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)

Propose to drill well to test Devonian Formation at approximately 6950'.

Will set 13-3/8" surface casing at approximately 300' with cement circulated to surface.

Will set 5 1/2" casing through any commercial production encountered.

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

Company The Superior Oil Company

Address P. O. Drawer G

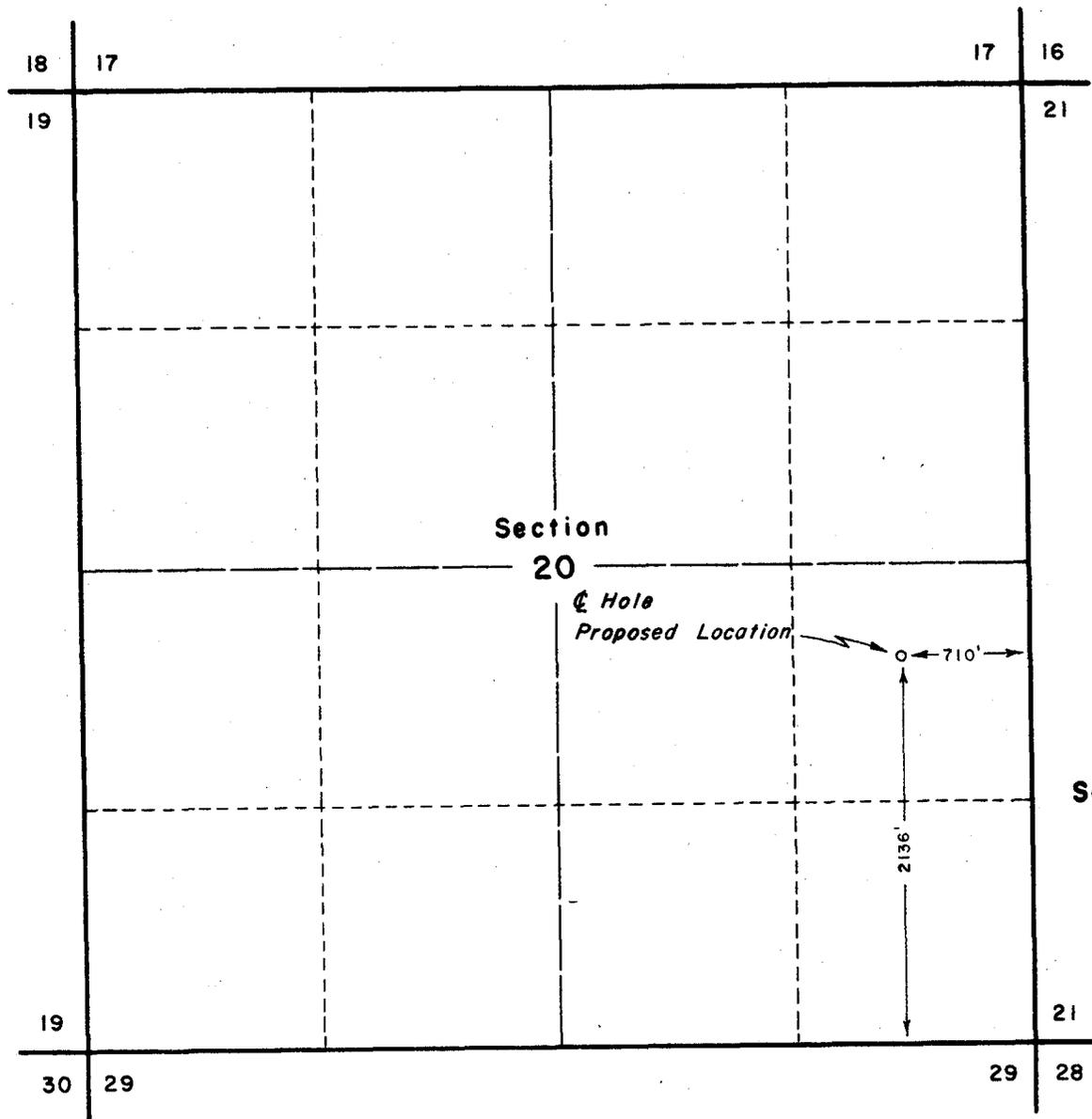
Cortez, Colorado

ORIGINAL SIGNED BY
D. D. KINGMAN

By D.D. Kingman

Title Engineer

CERTIFICATE OF SURVEY



WELL LOCATION: The Superior Oil Co., Bowknot No. 43-20 Spring Canyon Area

Located 2136 feet North of the South line and 710 feet West of the East line of Section 20
Township 25 South Range 17 1/2 East Salt Lake Meridian

Existing ground elevation determined at 4611 feet based on U.S.G.S. Datum

I hereby certify the above plat represents a survey
made under my supervision and is accurate to the
best of my knowledge and belief.



E.M. Clark

E.M. CLARK
Registered Land Surveyor
State of Utah (No. 2307)

E.M. CLARK & ASSOCIATES
Durango, Colorado

Oct. 1, 1960
File No: 60662

November 3, 1960

The Superior Oil Company
P. O. Drawer 'G'
Cortez, Colorado

Attention: D. D. Kingman, Engineer

Gentlemen:

This is to acknowledge receipt of your notice of intention to drill Well No. Bowdnot Unit 43-20, which is to be located 2136 feet from the south line and 710 feet from the east line of Section 20, Township 25 South, Range 17½ East, SLM, Grand County, Utah.

Please be advised that insofar as this office is concerned approval to drill said well is hereby granted.

This approval terminates within 90 days if the above mentioned well has not been spudded in within said period.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

CLEON B. FRIGHT,
EXECUTIVE SECRETARY

CBF:awg

cc: Don F. Russell, Dist. Eng.
U. S. Geological Survey

H. L. Counts - OGCC, Moab

Copy to HC R22

	20	X

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Utah
Lease No. Utah - 08599
Unit Bowknot

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.....	X
NOTICE OF INTENTION TO ABANDON WELL.....		

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

January 10, 19 61

Bowknot Unit

Well No. 43-20 is located 2136 ft. from S line and 710 ft. from E line of sec. 20

NE SE Sec. 20
(¼ Sec. and Sec. No.)

259
(Twp.)

174E
(Range)

Salt Lake
(Meridian)

Wildcat
(Field)

Grand
(County or Subdivision)

Utah
(State or Territory)

The elevation of the ~~surface~~ above sea level is 4620 ft. K.B.

DETAILS OF WORK

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

Spudded: 11-27-60

Present Depth: 5850'

12-6-60: Set 13-3/8" 48# N-40 surface pipe at 909' with 788 sacks cement.

12-15-60: DST #1 2351-2399 ½ hour initial shut in, 1 hour test, very weak blow of air immediately, dead in 38 mins., 1 hour final shut in. Recovered 30' slightly water cut mud. 18IP 855#, FP 15#-15#, FBIP 840#, Hydrostatic 1140#.

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

Company The Superior Oil Company

Address P. O. Drawer 'G'
Cortez, Colorado

By D.D. Kingman
Title Engineer

ORIGINAL SIGNED BY

Copy to HC RLL

Budget Bureau No. 42-B358.4
Approval expires 12-31-60.

Form 9-331a
(Feb. 1961)

	20	
		X

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Utah
Lease No. Utah - 08599
Unit Bowknot

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.....	X
NOTICE OF INTENTION TO ABANDON WELL.....		

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

February 8, 1961

Bowknot Unit

Well No. 43-20 is located 2136 ft. from N line and 710 ft. from E line of sec. 20

NE SE Sec. 20
($\frac{1}{4}$ Sec. and Sec. No.)

25S
(Twp.)

17 $\frac{1}{2}$ E
(Range)

Salt Lake
(Meridian)

Wildcat
(Field)

Grand
(County or Subdivision)

Utah
(State or Territory)

The elevation of the ~~surface~~ above sea level is 4620 ft. K.B.

DETAILS OF WORK

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

- Spudded - 11-27-60 Present Depth - 6976'**
- 1-16-61 Core #1: 6117'-46', Recovered 29' Dolomite
 - 1-18-61 Core #2: 6146'-6206', Recovered 60' limeston & dolomite
D.S.T.#4: 6070'-6206', $\frac{1}{2}$ hour initial shut in, 1 hr. test, very weak BOA immediately, increasing slightly throughout test. No gas to surface. One hour final shut in. Recovered 370' very slightly gas & water cut mud 9#/gal. ISIP-2385#, FP-85#-190#, PSI-1903#, HP-3295#-3305#, BHT 110° F.
 - 1-20-61 Core #3: 6206'-66', recovered 60' limestone.
 - 1-22-61 Core #4: 6266'-6326', recovered 60' limestone & dolomite.
 - 1-24-61 Core #5: 6326'-86', recovered 60' limestone & dolomite.
 - 1-25-61 BST #5: 6361'-86' $\frac{1}{2}$ hour initial shut in, 1 hr. test. Fair BOA throughout test. 1 hr. final shut in. Recovered 5630' of fluid consisting of 50' of mud, 450' of muddy water, & 5130' of salt water. (Over)

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

Company The Superior Oil Company

Address P. O. Drawer 'G'
Cortez, Colorado

By D. D. Ringman
D. D. Ringman
Engineer

912

Form 9-830

U. S. LAND OFFICE Salt Lake City
SERIAL NUMBER U-08599
LEASE OR PERMIT TO PROSPECT _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company The Superior Oil Company Address P. O. Drawer 'G'
Lessor or Tract Bow Knot Unit Field Wildcat State Utah
Well No. 43-20 Sec. 20 T. 25S R. 17E Meridian Salt Lake County Grand
Location 2136 ft. N of S Line and 710 ft. W of E Line of Sec. 20 Elevation 4620 K.B.
(Derrick floor relative to sea level)

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

Date March 9, 1961 Signed W. M. Ramsburg ORIGINAL SIGNED BY
Title Engineer

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

Commenced drilling November 27, 1960 Finished drilling February 14, 1961

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from None 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 None to _____ No. 3, from _____ to _____
No. 2, from _____ to _____ No. 4, from _____ to _____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
<u>13-3/8"</u>	<u>48#</u>	<u>8Rd</u>	<u>Spang</u>	<u>909'</u>	<u>Float</u>	<u>None</u>	<u>None</u>		<u>Surface</u>

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>13-3/8"</u>	<u>909</u>	<u>700</u>	<u>Circulated to surface.</u>		

PLUGS AND ADAPTERS

OLD MARK 2

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 7225 feet, and from feet to feet

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

DATES P & A

....., 19..... ~~Production~~ **February 17**, 19 **61**

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
ELECTRIC LOG TOPS:			
410'	Chinle	3866'	Top of Salt
756'	Moenkopi	5676'	Bottom of Salt
1364'	Coconino	6604'	Ouray
1709'	Halgalito	6826'	Elbert
2016'	Carbonates	6898'	McCracken
2738'	Hermosa	7186'	Cambrian

(OVER)

18-45084-4

FORMATION RECORDS—CONTINUED

MAR 24 1961

BA/njh

(SUBMIT IN TRIPLICATE)

Land Office **Utah**
Lease No. **Utah -08599**
Unit **Bow Knot**

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

	20		
		X	

SUNDRY NOTICES AND REPORTS ON WELLS

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

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

February 24, 1961

Bow Knot Unit
Well No. **43-20** is located **2136** ft. from **XXX** line and **710** ft. from **[E]** line of sec. **20**
NE SE Sec. 20 **258** **17-1/2E** **Salt Lake**
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Wildcat **Grand** **Utah**
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is **4620** ft. **KB**

DETAILS OF WORK

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

Spudded: 11-27-60
P. & A.: 2-17-61
TD: 7225'
Casing: 13-3/8" surface csg. set @ 909' w/788 sacks cement in 17-1/2" hole.

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

Company **The Superior Oil Company**
Address **P. O. Drawer 'G'**
Cortez, Colorado

Original Signed By
G. BANNANTINE
By **G. Bannantine**
Title **Petroleum Engineer**

BGA/nh

FEB 28 1961

ELECTRIC LOG TOPS

Coconino	1364'	Bottom of Salt	5676'
Halgaito	1709'	Ouray	6604'
Permian Carbonates	2016'	Elbert	6826'
Hermosa	2738'	McCracken	6898'
Top of Salt	3866'	Cambrian	7186'

D. S. T. #1: (2351'-2399')

Ran formation tester on 4½" D.P. w/3/4" BHC. Pkr's set @ 2347' & 2351' w/anchor @ 2399'. 1/2 hour S.I., 1 hr. flow test. Very weak BOA immed. to dead in 38 mins. One hr. shut in. Rec. 30' slightly water cut mud 8.6#/gal., 3000 PPM chloride.

ISIP - 855#
 F.P. - 15-15#
 FSIP - 840#
 H.P. - 1140#

D. S. T. #2: (Straddle Test 3533'-3570')

Ran formation tester on 4½" D.P. w/3/4" BHC. Pkr's set @ 3528', 3533' w/bottom pkr. @ 3570' and wall hook @ 3578'. 1/2 hr. ISIP. 1 hr. test. Very weak BOA immed. to dead in 30 mins. 1 hr. FSI. Rec. 40' drlg. fluid.

ISIP - 1335#
 FP - 25#
 FSIP - 1220#
 HP - 1822#
 Bottom Chart 2000#

D. S. T. #3: (5100'-5130')

Ran formation tester on dry 4½" D.P. w/3/4" BHC and 1" surface choke. Pkr's @ 5095' and 5100' w/anchor to 5130'. 1/2 hr. ISI, 3/4 hr. flow test. Very weak BOA immed. to dead in 5 mins. 3/4 hr. F.S.I. Rec. 181' slightly water cut mud. BHT - 130°F, ISIP - 307#, FP - 102-120#, FSIP - 240#, HP - 2860#.

D.S.T. #4: (6070'-6206')

Ran formation tester on 4½" D.P. w/3/4" BHC. Pkr's @ 6965' and 6070' w/perf'd anchor to 6206'. 1/2 hr. ISIP, 1 hr. flow test, very weak BOA immed, increasing slightly throughout test, no gas to surface. 1 hr. S.I. Rec. 370' very slightly gas and water cut mud. 9#/gal. ISIP - 2385#, FP - 85-190#, FSI - 1903#, HP - 3295# - 3305#, BHT - 110° F.

(Cont'd)

D. S. T. #5: (6361'-6386')

Ran formation tester on 4½" D.P. w/3/4" BHC. Pkr's @ 6356' and 6361' w/perf'd anchor to 6386'. 1/2 hr. ISI, 1 hr test. Fair BOA throughout test. 1 hr. FSI. Rec. 5630' of fluid; 50' mud, 450' muddy water, and 5130' S.W. 15,000 PPM chloride. ISIP - 2650#, FP - 595#, 2565#, FSIP - 2650#, HP - 3490#-3460#.

Plugging Detail

- Plug #1: Equalized 50 sacks Ideal Reg. sack cement w/D.P. hung @ 7200'.
- Plug #2: Equalized 50 sacks Ideal Reg. sack cement w/D.P. hung @ 6660'.
- Plug #3: Equalized 100 sacks Ideal Reg. sack cement w/D.P. hung @ 6320'.
- Plug #4: Equalized 50 sacks Ideal Reg. sack cement w/D.P. hung @ 5680'.
- Plug #5: Equalized 50 sacks Ideal Reg. sack cement mixed w/S.W. D.P. hung @ 3870'.
- Plug #6: Equalized 50 sacks Ideal Reg. sack cement w/D.P. hung @ 1730'.
- Plug #7: Equalized 50 sacks Ideal Reg. sack cement w/D.P. hung @ 1370'.
- Plug #8: Equalized 50 sacks Ideal Reg. sack cement w/2% CaCl. D. P. hung @ 900'.
Let Plug #8 set 4 hrs. Located top of plug @ 850'.

Cut off casing 4' below ground level, placed 10 sack plug in top of casing and welded steel plate over casing stub.

A standard dry hole marker has been erected, location cleaned up and ready for your inspection.