

Sam. Munn • Will • 9-11-22

Laurie Plancher

FILE OPERATIONS

Filed in NID File
 On S R Sheet
 Location Map Pinned
 Card Indexed
 IWR for State or Fee Land

Checked by Chief RJS
 Copy NID to Field Office _____
 Approval Letter
 Disapproval Letter _____

COMPLETION DATA:

Date Well Completed 7-1-62 Location Inspected 2-5-63-By Paul Bunchell
 OW _____ WW _____ TA _____ Bond released _____
 GW _____ OS _____ PA X State of Fee Land _____

LOGS FILED

Driller's Log 5-4-62
 Electric Logs (No.) 1
 E _____ L _____ E-I _____ GR _____ GR-N Micro _____
 Lat Mi-L _____ Sonic Others Land

Subsequent Report of Handover _____
 _____ (2)

(SUBMIT IN TRIPLICATE)

Land Office Salt Lake
Lease No. U-014242
Unit Bow Knot

	5	
X		

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

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

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

September 25, 19 61

Bow Knot Unit

Well No. 14-5 is located 660 ft. from S line and 504 ft. from W line of sec. 5

SW SW Sec. 5
($\frac{1}{4}$ Sec. and Sec. No.)

26S
(Twp.)

17E
(Range)

SLB&M
(Meridian)

Wildcat
(Field)

Emery
(County of Subdivision)

Utah
(State or Territory)

The elevations of the ~~surface~~ Graded Ground above sea level is 5041 ft.

5051' 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)

Propose to drill well thru Mississippian formation at a depth of approximately 6500' to test for oil and gas.

Will set approximately 850' of 8-5/8" surface casing with cement circulated to surface.

If commercial quantities of oil or gas are encountered will set either 4 1/2" or 5 1/2" casing to T.D.

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'

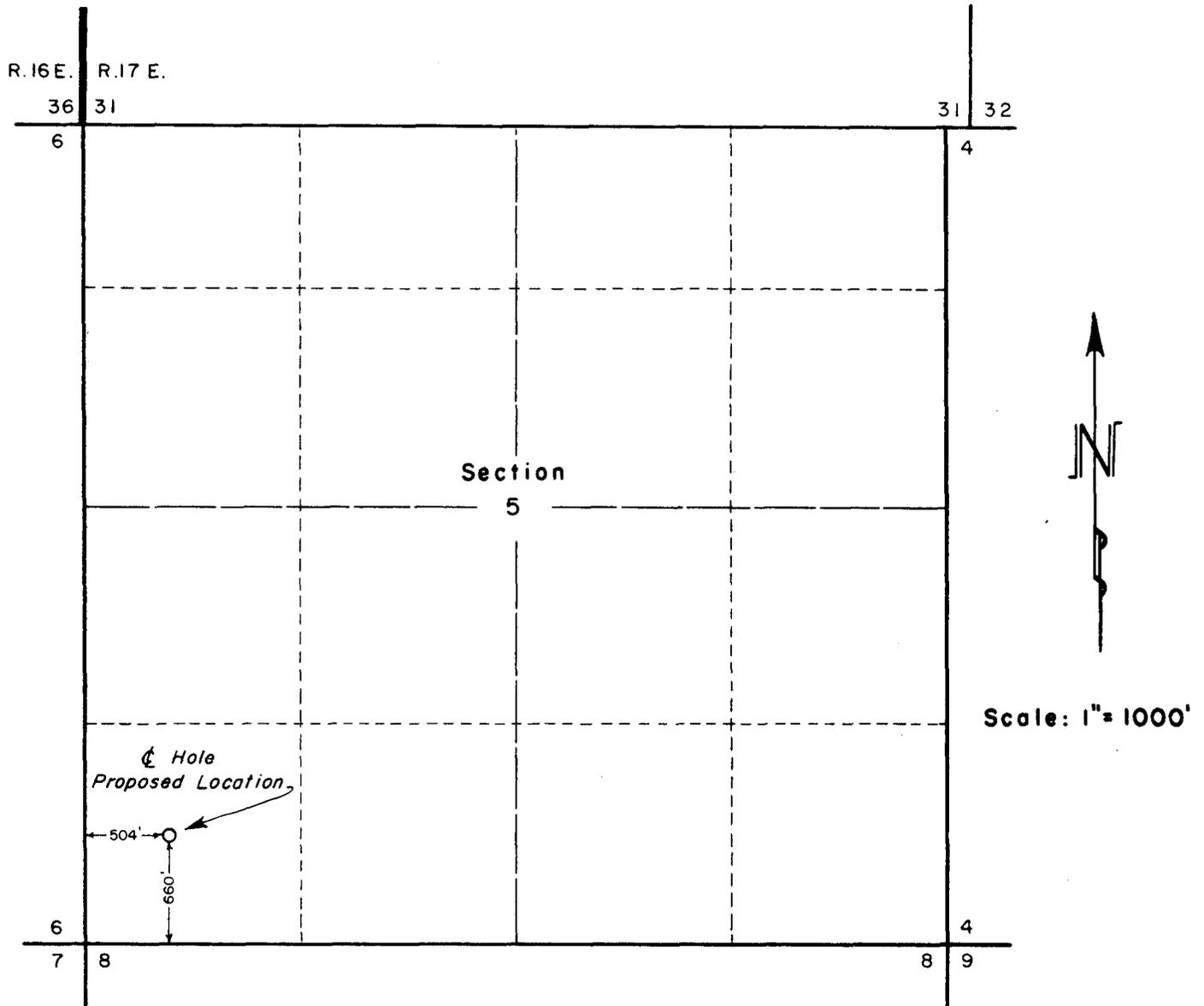
Cortez, Colorado

Original Signed By
W. M. RAMSBURG

By W. M. Ramsburg

Title Engineer

CERTIFICATE OF SURVEY



WELL LOCATION: The Superior Oil Company - Bowknot Unit # 14-5

Located 660 feet North of the South line and 504 feet East of the West line of Section 5,
 Township 26 South, Range 17 East, Salt Lake Base & Meridian.
 Emery Co., Utah
 Existing ground elevation determined at 5043 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.

Elmer M. Clark

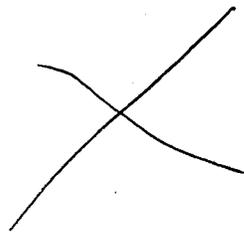
ELMER M. CLARK
 Registered Land Surveyor
 State of Utah (No. 2307)

E.M. CLARK & ASSOCIATES
 Durango, Colorado

July 6, 1961
 File No. 61048



6262



Calculation
H.L.C.

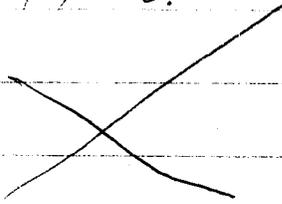
Superior oil 6

Bowman 14-5

Top pay 6262

FT	x	Priority	=	with salt
8	x	8.6	=	FT SW 25 x 0 = 25
14	x	11	=	81 x 44 = 3564
31	x	12.4	=	106
24	x	14.5	=	3589
16	x	15.6	=	106 34%
<u>13</u>	x	14.2	=	
106			=	1403.0

Avg = 13.2



Rt =

Rw = 0.38 from sample

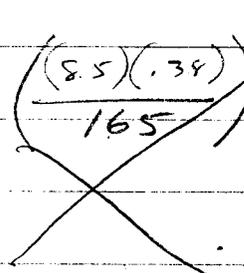
$$\frac{.064 + .380}{2} = \frac{.444}{2} = .222 \in R_{10}$$

$$\frac{R_{113} - .25 R_{10}}{.75} = R_t$$

$$\frac{12400 - (25)(22)}{.75}, R_t = 165$$

$$SW = \sqrt{\frac{FRW}{R_t}} = \left(\frac{(8.5)(.38)}{165} \right)^{\frac{1}{2}} = \left(\frac{32.3}{165} \right)^{\frac{1}{2}} = (.195)^{\frac{1}{2}}$$

SW = 44%



September 28, 1961

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

Attn: W. M. Ramsburg, Engineer

Gentlemen:

This is to acknowledge receipt of your notice of intention to drill Well No. Bow Knot Unit #14-5, which is to be located 660 feet from the south line and 504 feet from the west line of Section 5, Township 26 South, Range 17 East, SLEM, Emery 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.

Under Rule A-3, the approval of this Commission is not necessary when an unexecuted copy of the unit agreement is on file with this office. In such a case, it is only necessary to file copies of all notices of intention and subsequent reports that are filed with the United States Geological Survey.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

CLEON B. FREIGHT,
EXECUTIVE SECRETARY

CBF:avg

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

H. L. Coonts - OGCC, Moab

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 6498 feet, and from _____ feet to _____ feet

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

Operations Suspended

January 19, 19 62

DATES

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. _____

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

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

Contr: R. L. Manning Drig. Co. Driller _____, Driller
 _____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
			<p><u>ELECTRIC LOG TOPS:</u></p> <p>Coconino 1935'</p> <p>Organ Rock 2227'</p> <p>Hermosa 3348'</p> <p>Top Salt 4379'</p> <p>Base Salt 5667'</p> <p>Mississippian 6001'</p> <p>Massive Porosity 6262'</p>

PLEASE KEEP THIS INFORMATION CONFIDENTIAL

WMR/njh

FORMATION RECORD (OVER)

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REVISION CONTROL LOG
 REVISION NUMBER
 REVISION DATE
 REVISION BY

THE SUPERIOR OIL COMPANY

P. O. DRAWER G

CORTEZ, COLORADO

January 29, 1962

State of Utah
Oil & Gas Conservation Commission
310 Newhouse Building
Salt Lake City, Utah

Attention: Mr. R. L. Schmidt

Subject: Bow Knot Unit #14-5
Section 5, T26S, R17E
Emery County, Utah

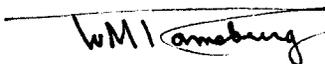
Dear Mr. Schmidt:

As was done on our Moon Ridge Unit wildcat, my letter of December 13, 1961, we are again withholding the filing of final notices on the subject well for the 90-day period of grace. At that time we will submit electric logs and required notices along with a letter requesting that said information be kept confidential for the maximum legal period.

However, as the USGS requires that this same information be filed within a period of fifteen (15) days following completion of the well, we are filing that information with them at this time requesting that they keep it confidential.

Yours truly,

THE SUPERIOR OIL COMPANY


W. M. Ramsburg
Drilling Engineer

WMR/njh

File

Copy H. L. C

		5	
X			

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Salt Lake
Lease No. U-014242
Unit Bow Knot

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.....	Subsequent	Notice of Suspended Operations.....	X

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

January 29, 1962

Bow Knot Unit

Well No. #14-5 is located 660 ft. from $\left\{ \begin{matrix} \text{N} \\ \text{S} \end{matrix} \right\}$ line and 504 ft. from $\left\{ \begin{matrix} \text{E} \\ \text{W} \end{matrix} \right\}$ line of sec. 5

SW SW Section 5 26S 17E SLB&M
($\frac{1}{4}$ Sec. and Sec. No.) (Twp.) (Range) (Meridian)

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

The elevation ~~at the derrick floor~~ above sea level is 5051 ft. KB
5041 ft. Gr.

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: 6498' in Mississippian formation.

SPUDED: November 23, 1961.

COMPLETED: Well has not been completed - Operation Suspended January 19, 1962.

CASING: 8-5/8" set @ 837' with 350 sacks cement
5-1/2" set @ 6498' with 357 sacks cement (top of cement above 3500' - top of salt @ 4379').

(Over)

PLEASE KEEP THIS INFORMATION CONFIDENTIAL

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
W. M. RAMSBURG
By W. M. Ramsburg
Title Drilling Engineer

THE SUPERIOR OIL COMPANY

P. O. DRAWER G
CORTEZ, COLORADO

May 1, 1962

State of Utah
Oil & Gas Conservation Comm.
310 Newhouse Building
Salt Lake City, Utah

Attn: Mr. R. L. Schmidt

Subject: Bowknot Unit #14-5
Sec. 5, T26S, R17E
Emery County, Utah

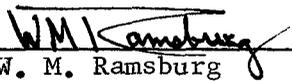
Dear Mr. Schmidt:

Per my letter of January 29, 1962 and in accordance with the rules of the Utah Oil & Gas Conservation Commission, we enclose final notices of suspended operations and electric logs for the subject well.

Please keep this information confidential for the maximum legal period of four (4) months.

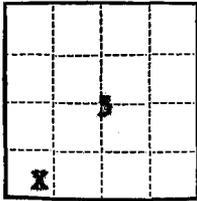
Yours truly,

THE SUPERIOR OIL COMPANY


W. M. Ramsburg
Drilling Engineer

WMR/ba

cc: File



Copy H.L.C.
(SUBMIT IN TRIPLICATE)

Land Office Salt Lake
Lease No. U-014242
Unit Bow Knot

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

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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)

August 22, 1962

Bow Knot Unit

Well No. #14-5 is located 660 ft. from SW line and 504 ft. from W line of sec. 5

SW SW Sec. 5
(¼ Sec. and Sec. No.)

26S
(Twp.)

17E
(Range)

SLBGM
(Meridian)

Wildcat
(Field)

Emery
(County or Subdivision)

Utah
(State or Territory)

The elevation of the ~~top of the casing~~ above sea level is 5051 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)

SFUDDED: November 23, 1961

ABANDONED: July 19, 1962 TD: 6498' KB

CASING: 8-5/8" set @ 834' with 350 sacks cement.
5-1/2" set @ 6498' with 357 sacks cement.

(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'
CONTEZ, COLORADO

Original Signed By
C. R. WALLER

By C. R. Waller
Title Production Engineer

ELECTRIC LOG TOPS:

Coconino	1935'	Base of Salt	5667'
Organ Rock	2227'	Mississippian	6001'
Harnosa	3348'	Massive Porosity	6262'
Top of Salt	4379'		

DST #1 (5946'-5961') - 10 min. initial flow - 30 min initial shut in. 20 min. flow test. Poor blow of air immediately decreasing to 1/2 initial blow. in 20 min. 1 hr. FSI. Rec. 50' drilling mud with trace of oil. ISIP - 205, IFF - 38, FFP 38, FSIP - 295, HP - 3240.

DST #2 (6270-6350') - 6 min. initial open. Gas to surface in 2 mins. (non-flammable), 30 min. initial shut in. 63 min. flow test. Very good blow of non-flammable gas immediately - increasing to strong in 2 mins. 1 hr. final shut in. Rec. 10' salt water. ISIP - 2405, IFF - 1395, FFP - 1650, FSIP - 2405, HP 3535.

DST #3 (6350-6410') - 10 min. initial open. Non-flammable gas to surface in 2 mins. 1/2 hr. initial shut in. 1-3/4 hr flow test. Good blow of gas immed. increasing to strong in 2 mins., fluid to surface in 17 mins. Flowed by heads, changed to small spray of sulphur water after 28 mins. Flow rate 6.8 mscfpd @ 27# on 2" side static tester. Surface pressure 500# on 3/4" choke. 1 hr FSIP. Rec. 450' water. ISIP 2420, IFF - 715, FFP 1140, FSIP 2420, HP - 3460.

DST #4 (6270-6350' Straddle Test) - 10 min. initial open. Non-flammable gas to surface in 2 mins. 1/2 hr. initial shut in. 1 hr. flow test. Good blow of gas immediately, increasing to strong in 2 mins. Fluid to surface in 9 mins. Flow rate 8.5 mscfpd @ 43# on 2" side static tester. Pressure 725# on 3/4" choke. 1 hr. FSI. Rec. 25' sulphur salt water. ISIP - 2420, IFF - 1140, FFP - 1660, FSIP - 2420, HP - 3500. Bottom gauge HP - 3500.

DST #5 (6410-6466') - 10 min. initial open. Gas to surface in 4 mins. 1/2 hr initial shut in. 1 hr. flow test. Good blow of gas immediately increasing throughout test. Fluid to surface in 35 mins. 1 hr. final shut in. Rec. 2340' sulphur salt water. Max. flow rate 300 mscfpd at 36# on 1/2" orifice. Surface pressure 100# on 3/4" choke. ISIP - 2385, IFF - 805, FFP - 1400, FSIP - 2385, HP - 3520.

DST #6 (6270-6350') (Straddle Test) - 1 hr. flow test. Good blow of air immediately increasing to strong in 2 mins. Gas to surface in 2 mins. 1/2 hr. shut in. Rec. 80' sulphur salt water. IFF - 1180, FFP - 1680, SIP - 2390, HP - 3435. Bottom packer - ok. Surface pressure 725.

PLUGGING DETAIL

Cut off 8-5/8" and 5-1/2" casing and placed 10 sack plug in top of casing.

A standard dry hole marker has been erected. Location is cleaned and ready for inspection.

207 1 190

September 6, 1962

STAFF MEMO FOR FILING

Re: SUPERIOR OIL COMPANY
Bowknot Unit #14-5
Sec. 5, T. 26 S, R. 17 E.,
Emery County, Utah

The notice of intention to abandon the above well dated July 9, 1962, and the subsequent notice of suspended operations report dated January 29, 1962, reached my office on September 5, 1962, due to being held in the confidential file.

Referring particularly to the 'notice to abandon report', I note that the proposal required only a 10 sack cement plug at surface with 6498' of 5½" casing apparently full of mud. I checked with Superior Oil Company and found that this program was approved by the U.S.G.S. and the well already plugged.

I do not feel the well has sufficient cement plugs although the zones are cased. According to all reports in our files, the well is to be considered permanently abandoned. Therefore, this casing must permanently maintain all fluids and gases migrating up and down the hole. There is a good possibility of eventual casing failure and this possibility is magnified due to the acidic content of gases found on DST's run while drilling.

On this basis, I recommend that we require the operator to drill out the existing surface plug and reset plugs at intervals in the casing of not more than 2500' apart.

HARVEY L. COONTS
PETROLEUM ENGINEER

HLC:cnp

September 11, 1962

MEMO FOR HARVEY:

Re: Superior Oil Company
Well No. Bow Knot Unit
#14-5, Sec. 5, T. 26 S, R.
17 E., Emery County, Utah

With reference to your memorandum of September 5, 1962, please be advised that the above mentioned well has been confirmed as being permanently abandoned by Superior Oil through a conversation with Mr. Joe Harstead (U.S.G.S) September 11, 1962. Investigation has found that the 5½" casing set at 6498' had sufficient cement circulated up the Annulus to cover the top of the Salt. From the top of the Salt up to the surface casing, no shows of oil, gas or water were encountered. This is also verified by the logs indicating no porosity. Therefore, I feel that this well should suffice as a properly abandoned well.

PAUL W. BURCHELL
CHIEF PETROLEUM ENGINEER

PWB:cp

September 26, 1962

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

Re: Well No. Bow Knot Unit #14-5
Sec. 5, T. 26 S, R. 17 E.,
Emery County, Utah

Gentlemen:

We are in receipt of your "Log of Oil or Gas Well", U.S.G.S. Form 9-330, for the above mentioned well. We note, however, that a date of plugging and abandonment was omitted from this report. It would be greatly appreciated if you would furnish us with this date and also, a Subsequent Report of Abandonment, Form OGCC #1, in accordance with Rule D-2, General Rules and Regulations and Rules of Practice and Procedure, Utah State Oil and Gas Conservation Commission.

Thank you for your cooperation in this matter.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

CONNIE F. PALOUKOS
RECORDS CLERK

CFP:cnp
Encl.

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0113
7

THE SUPERIOR OIL COMPANY

P. O. DRAWER 6

CORTEZ, COLORADO

October 2, 1962

Utah Oil & Gas Conservation Commission
310 Newhouse Building
Salt Lake City 11, Utah

Attention: Connie F. Paloukos

Dear Madam:

We wish to acknowledge receipt of your letter of September 26, 1962 concerning reports on our Bow Knot Unit #14-5 well, drilled in Emery County. As of this date we have not filed a Subsequent Report of Abandonment with the U. S. Geological Survey as we have not removed all materials from the location. We plan to accomplish all necessary work and prepare the location for inspection during the next two weeks. The Report of Abandonment will be filed as soon as this work is finished and copies will be forwarded to your office. For your information, the well was officially abandoned on July 19, 1962.

If we can be of further assistance, please contact us.

Sincerely,

Jerome C. Gordy
Jerome C. Gordy

JCG/njh

4.