

Index Card filed 5-1-60.

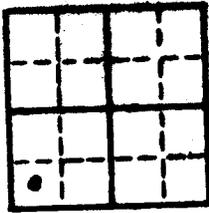
(WOR 5-31-60 Completed as a brine well. T.D. 2020'. Will be placed on pump and storage tanks erected.)

LAND:

Fee and Patented
State
Lease No.
Public Domain
Lease No.
Indian
Lease No.

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

STATE CAPITOL BUILDING
SALT LAKE CITY 14, UTAH



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 Altering Casing.....	
Notice of Intention to Redrill or Repair.....	<input checked="" type="checkbox"/>	Subsequent Report of Redrilling or Repair.....	
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 2, 1960

Well No. Dugan-Vookres #1 is located 660 ft. from S line and 660 ft. from W line of Sec. 1
SW⁴SW⁴ 26.5 21E SLB+M
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Grand Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 4016 feet.

A drilling and plugging bond has been filed with All water zones cased off with 7", @ 414'.
In this case it is felt that a Bond is not necessary, Rule C-4-C.

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 work, surface formation, and date anticipate spudding-in.)

Well originally drilled December 1942, log of which is attached hereto.
Salt entered at 90', well bottomed at 1001 in salt. Plans are to clean out to 1001', run 5" casing and cement at 1000', then deepen in salt to 2000', run 2" tubing and complete as salt brine well at that point, or perforate at 55', 80' and 330' and complete as water well. If the latter procedure is taken then old water application No. 14760 under J. L. Dugan will be re-applied for.

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

Company.....
Address Box 132
Moab, Utah
By E. J. Mayhew
Title Owner

INSTRUCTIONS: A plat or map must be attached to this form showing the location of all leases, property lines, drill or 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.

**LOG OF WELL DRILLED ON THE
L. ALLEN FARM AT NEAR, NEAR.**

Location: SW 1/4 SW 1/4 Section 1,
Township 26 South, Range 21 East,
S. 1. E. & N. being 660 feet North
and 1900 feet West from the North
1/4 Corner of Section 22;
Known as Well No. 6, under Johnston
Water Application No. 14700.

Well opened August 7, 1942,
Drilling camp lated and
well shut down Dec. 2, 1942.

0	30	Gypsum (gray)	
30	40	Sandy gypsum, gray.	
40	50	Blue lime, showing a little water at 50'.	
50	55	Blue shale and gypsum (more water, raised to 35 ft.)	
55	64	Sandy gypsum.	
64	80	Sand and conglomerate (more water).	
80	95	Sand.	
95	97	Black shale.	
97	105	Sand (more water)	
105	108	Black shale.	
108	115	Gray anhydrite. 1/2" C. D. casing run and cemented at 108' with 7 sack water cement.	
115	130	Gray bentonite.	
130	162	Gray bentonite.	
162	190	Gray bentonite.	
190	293	Gray shale.	
293	333	Gray shale and bentonite.	
333	346	Gray anhydrite.	
346	290	Black shale.	
290	315	Black shale and anhydrite.	
315	318	White sand.	
318	322	Black shale.	
322	330	Brown sand - More water raised to 110 ft. from surface.	
330	340	Anhydrite.	
340	347	White sand and anhydrite.	
347	367	" " "	
367	378	Anhydrite and white sand streaks.	
378	390	White sand.	
390	405	Black shale.	
405	414	Light gray sand and shale. 7" C. D. Casing run and cemented at 414' with 15 sack cement.	
414	445	Conglomerate sandy shale and anhydrite. Water shut off-Hole at 414'.	
445	470	Sandy shale and bentonite.	
470	485	Sandy shale.	
485	505	Gray sandy shale and bentonite.	
505	520	Sandy bentonite.	
520	630	Sandy shale, bentonite and conglomerate.	
630	635	Sandy shale.	
635	655	Gray shale.	
655	678	Gray anhydrite and bentonite.	
678	728	Sandy bentonite	
728	750	Gray bentonite	
750	825	Sandy gray bentonite. Water broke in from behind 7" either at shoe or short distance below. Level 110 feet from surface and water the same as above, not brackish. 10-5-42 Cemented hole a number of times just below 7" O. D. casing and finally got a cement job. Started drilling ahead on November 9.	

Log of Well Drilled on the I. V. Allen Farm at ... Utah.

825	815	Gray sandy shale.
835	861	Gray shale.
867	878	Black shale.
878	884	Black shale.
884	905	Gray shale and bentonite.
905	913	Black shale and bentonite.
913	929	Gray shale.
929	935	Gray shale.
935	948	Gray shale.
948	955	Gray shale.
955	960	Gray shale.
960	975	Gray shale.
975	990	Broken black anhydrite. Showing of gas. (Hole filled up with salty brine. Water now ascending from surface, in the hole).
990	1000	Salt.

E. J. MAYHEW
CONSULTING
ENGINEERS AND GEOLOGISTS
May 2, 1960

Mr. Cleon B. Feight
Executive Secretary
The State of Utah
Oil & Gas Conservation Commission
310 Newhouse Building
10 Exchange Place
Salt Lake City 11, Utah

Dear Cleon:

Enclosed herewith is a completed Form OGCC-1 for an old well I am going to work over, also included is a copy of the log of this well as written by Mr. J. L. Bougan of Equity Oil Co, please hand these to Bob.

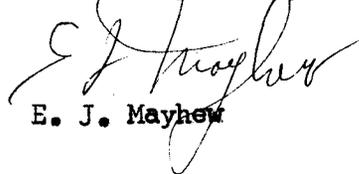
Enclosed also is an invoice for consulting work performed for the Commission between February 17 and March 15.

Sorry you could not make it down here for the oil field barbecue as I understand there were over two hundred attended. We did not make it because we were having lost circulation troubles and were getting ready to run 8-5/8" casing.

Mr. Randall has gone back to Salt Lake and will be in the office getting necessary to complete various maps for you. We need a good base map sepia of the Lisbon area (rather Paradox Basin) so we can start bringing the Miss., and Devonian data up to date for you.

With best personal regards to you and Bob, I am

Yours very truly,



E. J. Mayhew

May 4, 1960

Mr. E. J. Mayhew
Consulting Geologist
Rooms 3 and 4, Arches Building
Moab, Utah

Dear Jay:

This is to acknowledge receipt of your notice of intention to rework and deepen the old Dougan and Vookres Fee No. 1 well located in the SW $\frac{1}{4}$ SW $\frac{1}{4}$ of Section 1, Township 26 South, Range 21 East, SEBM, Grand County.

In view of the fact that you desire to complete this well as a fresh water or salt water well, we are forwarding the information you have furnished us to the State Engineers Office for their approval.

Hops to be seeing you in the not-too-distant future.

Yours very truly,

OIL & GAS CONSERVATION COMMISSION

CLEON B. FREIGHT
EXECUTIVE SECRETARY

CBF:cc

cc: State Engineers Office
403 State Capitol Building
Salt Lake City 14, Utah
(With Attachments)

Utah Water & Pollution Control Board
45 Fort Douglas Boulevard
Salt Lake City, Utah



THE STATE OF UTAH
OFFICE OF STATE ENGINEER
SALT LAKE CITY

WAYNE D. CRIDDLE
STATE ENGINEER

May 10, 1960

Mr. E. J. Mayhew
Consulting Geologist
Rooms 3 and 4
Arches Building
Moab, Utah

Re: Ground Water - Grand County

Dear Mr. Mayhew:

This letter is written in response to Cleon B. Feight's letter to you dated May 4, 1960.

It appears from the information contained in the "Notice to Redrill or Repair" to the Utah Oil and Gas Conservation Commission dated May 2, 1960, that you desire to convert the Dugan-Voohres #1 well to a water well for the production of either fresh or brine water. The well in question is located North 660 feet and East 660 feet from the SW Cor. of Sec. 1, T26S, R21E, S18&M and is at the location of proposed well #6 under permanently lapsed Application No. 14760.

There are three points that must be brought to your attention with regard to the proposal to convert this well to a water well:

- (1) Any repair, deepening or structural alteration of the well to convert it to a water well at this time must be done by a licensed water well driller in accordance with Sec. 73-3-22, 24, 25 and 26 Utah Code Annotated.
- (2) No work is to be done without first having obtained the permission of this office.
- (3) A proper Application to Appropriate must be filed with this office prior to the beginning of any drilling activities unless other satisfactory arrangements are made.

JOHN J. CRIDDLE

Mr. E. J. Mayhew

-2-

May 10, 1960

It is not intended to present you with any unreasonable ultimatums, but rather to forthrightly advise you of the responsibilities and requirements of this office. We would like to have the opportunity to work out a mutually satisfactory arrangement to permit you to proceed with the proposed development work on this well.

Sincerely yours,

Francis T. Mayo
Francis T. Mayo, Chief
Water Resources Branch

FTM: pmm

CC: Utah Oil and Gas Conservation Commission ✓
Utah Water Pollution Control Board

088111 YAM

May 17, 1960

Mr. Francis T. Mayo
Chief Water Resources Branch
State Engineer's Office
State Capitol
Salt Lake City 14, Utah

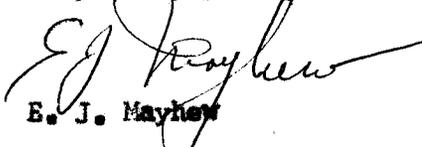
Dear Mr. Mayo:

I have decided to convert the well in question to a salt brine well. I deepened it to 2020', ran 1012' of 5 $\frac{1}{2}$ " 10,000# test tubing and cemented at that depth with 100 sacks of cement. I am now completing the running of 2010' of 2 $\frac{1}{2}$ " tubing to circulate through. 1000' of salt are exposed from 1012' to 2010'. All surface waters are cemented off at 414' with 7" casing as well as cemented off again at 1010' with 5 $\frac{1}{2}$ " casing. Both cement jobs withstood 400# per square inch pressure with zero pressure drop.

Water for circulating this well will be obtained from the city of Moab, a proper and valid lease to the patented grounds on which this well is situated is held by me, both as to the surface and the minerals. Brine produced from this well will be stored in steel tanks located about ten yards from the well. I have had a chemical analysis of the brine and it contains only NaCl, no potash, magnesium or calcium are present in the brine as chlorides, although there is a small amount of gypsum present which will disappear as soon as the well cuttings are washed out.

If I can give you any further information on the well or if any other requirements are to be met please let me know. Since no water is to be appropriated and no natural brine is to be produced I then presume that I have complied with all the requirements of the State of Utah.

Very truly yours,


E. J. Mayhew

CC: State Engineers Office
Utah State Oil & Gas Conservation Commission

E. J. MAYHEW
CONSULTING
GEOLOGICAL ENGINEER

C
O
P
Y



THE STATE OF UTAH
OFFICE OF STATE ENGINEER
SALT LAKE CITY

WAYNE D. CRIDDLE
STATE ENGINEER

June 3, 1960

Mr. E. J. Mayhew
Arches Building
Moab, Utah

Re: Ground Water - Grand County

Dear Mr. Mayhew:

Thank you for your letter of May 17, outlining your program for the use of the Dugan-Veehres #1 well for the production of brine. Since it is not your intention to divert water from the well or to acquire a right to the use of ground water, it appears that there need be no further administrative concern on the part of this office.

As a practical matter, however, this office together with the Utah Water Pollution Control Board and the Oil and Gas Conservation Commission will continue to be interested in the operation of your facilities to the extent that they may offer an opportunity for the pollution of shallow, useable underground water.

Thank you for your cooperation.

Sincerely yours,

Francis T. Mayo, Chief
WATER RESOURCES BRANCH

FTM:pum

CC: Utah Oil and Gas Conservation Commission ✓
Utah Water Pollution Control Board