

UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS: Geological Formations: Surface - Mancos Bottom - Curtis
 Kelly bushing flowed water. Ferron 1245-1775'

(No file) bul. 50

DATE FILED Prior OGCC

LAND: FEE & PATENTED STATE LEASE NO. PUBLIC LEASE NO. X INDIAN

DRILLING APPROVED:

SPUDDED IN:

COMPLETED:

INITIAL PRODUCTION:

GRAVITY A. P. I.

GOR:

PRODUCING ZONES:

TOTAL DEPTH: 3710

WELL ELEVATION: 6222

DATE ABANDONED: 3-5-53

FIELD OR DISTRICT: ~~Sevier~~ 3/86 Wildcat

COUNTY: Sevier APT # 43-041-20206

WELL NO. K. D. Owen # 1

LOCATION: FT. FROM (N) (S) LINE, FT. FROM (E) (W) LINE NE SW NE QUARTER - QUARTER SEC. 23

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR
22S	5E	23	K. D. Owen				

GEOLOGIC TOPS:

QUATERNARY	Star Point	Sinbad	Brazer
Recent	Wahweap	PERMIAN	Pilot shale
Alluvium	Masuk	Kaibab	Madison
Lake beds	Colorado	Coconino	Leadville
Pleistocene	Mancos	Cutler	Redwall
Lake beds	Upper	Hoskinnini	DEVONIAN
TERTIARY	Middle	DeChelly	Upper
Eocene	Lower	White Rim	Middle
Humboldt	Emery	Organ Rock	Lower
Salt Lake	Blue Gate	Cedar Mesa	Ouray
Oligocene	Ferron	Halgaite tongue	Elbert
Bishop conglomerate	Frontier	Phosphoris	Guilmette
Oligocene	Dakota 2560'	Park City	Simonson dolomite
Horwood	Burro Canyon	Rico (Goodridge)	Sevy dolomite
Eocene	Cedar Mountain	Supai	North Point
Duchesne River	Buckhorn	Bird Springs	SILURIAN
Uinta	JURASSIC	CARBONIFEROUS	Laketown dolomite
Bridger	Morrison 2686'	Pennsylvanian	ORDOVICIAN
Green River	Salt Wash	Oquirrh	Eureka quartzite
Upper	San Rafael Gr.	Weber	Pogonip limestone
Middle	Summerville 3140'	Morgan	CAMBRIAN
Lower	Bluff sandstone	Hermosa	Lynch
Wasatch	Curtis 3560'	Upper	Bowman
Colton	Entrade	Lower	Tapeats
Flagstaff	Moab tongue	Molas	Ophir
Almy	Carmel	Paradox	Tintic
Paleocene	Glen Canyon Gr.	A	PRE-CAMBRIAN
Current Creek	Nava jo	B	
North Horn	Kayento	C	
CRETACEOUS	Wingate	Manning Canyon	
Montana	TRIASSIC	Mississippian	
Mesaverde	Chinle	Chainman shale	
Price River	Shinarump	Humbug	
Blackhawk	Moenkapi	Joana limestone	

CIRCULATE
DIRECTOR
PETROLEUM ENGINEER
MINE COORDINATOR
ADMINISTRATIVE ASSISTANT
ALL
RETURN TO Thalia
FOR FILING

File

February 23, 1976

TO: Ron Daniels - Jim Carter

FROM: P.L. Driscoll

Re: Potential Disposal
Wells or zones
Consolidation Coal Co.
Emery County, Utah

I have looked at the nearby area in which Consolidation plans its future operations. The first well investigated was:

- (1) Skelly Oil Company, Federal #1
660 FSL, 1980 FEL (C SW $\frac{1}{4}$ SE $\frac{1}{4}$)
Sec. 34, T. 22 S., R. 5 E.
Total Depth 10,740'
Plugged - February 14, 1962
Casing left in hole: 20" conduit @ 25'
 13 5/8" casing @ 244'
 9 5/8" casing @ 4784'

Significant shallow water sands were encountered from 1174' to 1190' (Sand in the Mancos Shale) and from 1620' to 1710' (Sand in the Mancos Shale). Both zones had strong water flows against 300 psig back pressure. The salinity was not measured and I did not calculate it from the logs. However, there are definitely brackish water sands at the following depths:

5400-5750 - This is 350' of gross sand containing brackish saline water. The porosity appears good and the permeability is fair. Roughly, the net sand is about 220' and should be an excellent repository for disposed waters. This thickness will take a considerable amount of water even before a minor increase in surface disposal pressure is noted.

The formation containing this sand is the Entrada. As this sand is only 300' below the base of the casing in the hole, it could be re-entered and reactivated fairly cheaply.

6600-6965 - This is the Navajo and this gross interval is characterized by numerous brackish water bearing sands. Net sand was not counted. The gross interval is highly stratified and P & P appears fair to poor. It will accept water, but is not as significant as the Entrada.

8730-8910 - Kiabab Formation. Approximately similiar to the preceding zone. Stratification is not as noticeable.

→ (2) K.D. OWEN FEE #1

C NE SW NE Sec. 23, T. 22 S., R. 5 E.

43 041 20206 PA

This well was drilled and abandoned in 1953, and as this predates the existence of this Division, the files are incomplete. The total depth reached was 3710' and we do not have a casing record. There is a notation in the file that the Ferron Sand from 1245' to 1775' had considerable water flow. The quality and quantity are unknown, but the Strata correlates quite closely to the shallow water sands in the Skelly well, approximately three miles to the southwest.

I did not look at any wells outside of a five (5) mile radius from Consolidation's proposed workings, but it appears from this preliminary survey that underground disposal is quite feasible and certainly within economic consideration.

UTAH GEOLOGICAL AND MINERALOGICAL SURVEY

AFFILIATED WITH

THE COLLEGE OF MINES AND MINERAL INDUSTRIES

UNIVERSITY OF UTAH

SALT LAKE CITY, UTAH

DRILLING RECORDS

FOR OIL AND GAS IN UTAH

COMPILED UNDER THE DIRECTION OF

GEORGE H. HANSEN, H. C. SCOVILLE,

AND THE

UTAH GEOLOGICAL AND MINERALOGICAL SURVEY



*From the Records of the Oil and Gas Leasing Branch of the
Conservation Division of the U.S. Geological Survey*

Bulletin 50

February 1955

Price \$5.00

19-171	NWN	SE 2-43S22E	In	Western Natural Gas Co. #3	Boundary Butte Pool	3-18-49	5423	Navajo	Permian		
19-172	NWSW	23-43S22E	In	Mutual Oil Co. #1	Boundary Butte	8-9-24	?	Navajo	Navajo		
19-173	C SWNE	25-43S22E	In	Western Natural Gas Co., Byrd-Frost Inc., Paul English Tribal #2	Boundary Butte	?	5121	Navajo	Hermosa		
19-174	SWSWNE	25-43S22E	In	Western Natural Gas Co. #1	Boundary Butte	11-30-48	5104	Navajo	Pennsylvanian		
19-175	NWSE	25-43S22E	In	Utah Oil & Refining Co. #1	Boundary Butte	6-12-24	?	Navajo	Navajo		
19-176	MENW	32-43S23E	In	Union Oil Co. #1	Boundary Butte	7-23-24	?	Navajo	Navajo		
19-177	C SENW	32-43S23E	In	Western Natural Gas Co. #2	Boundary Butte Pool	4-22-49	5400	Navajo	Pennsylvanian		

SANPETE COUNTY

20-1	NESE	27-15S4E	P	S. Jenson #?	Mt. Pleasant	1918?	6000?	Quaternary ?			
20-2	NWNESE	18-15S6E	Pu	Three States Nat. Gas Co. #1 C. K. Steiner	Joes Valley	?	10283	North Horn	Star Point		
20-3	NESE	3-17S3E	P	Producers Oil Co. #1	Ephraim	12-?-20	5500?	Quaternary ?			
20-4	W NWNE	8-19S1E	Pu	Gunnison Oil Co. #1	Gunnison	?	5200	Green River	?		
20-5	NESW	24-20S1W	P	Sanpete Oil Co. #1	Redmond	?	?	Quaternary ?			
20-6	SESW	24-20S1W	P	Ben H. Bullock, et al #1	Redmond	12-?-41	?	Quaternary	Cretaceous		

SEVIER COUNTY

21-1	SWNE	36-20S1W	S	Sanpete Oil Co. #2	Redmond Anticline	5-?-48	?	Quaternary ?			
21-2	SWNE	15-22S2E	Pu	El Paso Natural Gas Co. #1	Salina Canyon	9-3-53	6136	Price River	Morrison		
21-3	SWSWSW	12-22S4E	Pu	Gordon Gray #1	Emery	1-1-53	7200	Star Point Sandstone	Lower Mancos Shale		
21-4	NESWNE	23-22S5E	Pu	K. D. Owen #1	Sevier	3-5-53	6222	Mancos	Curtis		
21-5	C SWSW	13-25S5E	Pu	American Liberty Oil Co. #1	North Last Chance	9-13-48	5900	Entrada	Coconino		

SUMMIT COUNTY

22-1	W SENW	28-6N8E	P	Utah Southern Oil Co. Hatch #1	Evanston Dome	3-28-52	6890	Almy	Nugget		
22-2	SWSE	35-3N5E	P	Longwall Petroleum Co. #1	Coalville	5-20-44	6400?	Frontier	Frontier		
22-3	NWSE	9-2N5E	P	Mountain Fuel Supply Co. #1	Coalville	9-2-38	5635	Frontier	Morrison		
22-4		16-2N5E	P	Western Empire Petroleum Co. #1	Coalville	1-?-27	5800	Frontier	Frontier?		
22-5	NWSE	6-2N6E	Pu	Ohio Oil Co. #1	Coalville	11-6-24	6500	Frontier	Frontier?		

TOOELE COUNTY

23-1	NW	31-1S5W	P	National Oil and Gas Co. #1	Burmaster	1917	4300	Lake Beds	?		
23-2	SENE	14-2S6W	P	Bonneville Oil & Gas Exploration C. Worthington #1	Flux	7-?-48	?	Quaternary ?			

Note: Wells for each county are "spotted" on the accompanying map.

										No show oil or gas. Fresh water at TD, filled 1000'. Water well.	1,557	Abd
											502	Abd
										PB 4506 shut down acidized 7000g, tested 9000 MCFG, 1173# RP.	5,308	Drg
										Re 410', Rsh 1060', Rm 1150', Pco 1380', Pr 3380', Cph 3530'.		
										Re 410', Rsh 1060', Rm 1150', Pco 1365', Pr 3380', Cph 3530'.		
										IP 9,000 MCFG PD, initial RP 1140 Psi, Cp 4365-4450'.	5,306	GSI
											510	Abd
											550	Abd
											4,882	Abd
											1,408	Abd
											3,450	DSI
											921	Abd
											1,800	DSI
											1,462	Abd
											85	Abd
											250	DSI
											6,117	Abd
										Ksp 950', Km shale 1300', Kme 2040', Middle Shale 2520', Kmf 4210', Sanpete 5650', Jm 6015'.		
										Kme 860', Kmm 2030', Kmf 3413'.		
										Several DSTs, no shows reported.	3,973	Abd
										Kd 2560', Jm 2686', Js 3140', Jc 3560'.		
										Kmf 1245-1775'; kelly bushing flowed water.	3,710	Abd
										Jca 326', Jn 610', Jk 2217', Jw 2355', Rc 2723', Rsh 2825', Rm 2950', Rsi 3918', Pk 4195', Pco 4315'.	4,493	P&A
										Evanston 2050', Beckwith 3450', Basal Beckwith 5978', Twin Creek 6683', Nugget 8570'.		
										Casing: 10-3/4" cc at 380'. Dry hole.	8,630	Abd
										Log available on photostats.	4,423	Abd
										Log available on photostats.	5,538	P&A
										Log available on photostats.	3,870	Abd
											3,197	Abd
											1,127	Abd
											3,115	Abd

Note: For abbreviated legend data see explanation before tables.