

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Field Office _____
Big Lake City
 Serial Number **052365**
 Lease or Permit **Permit**

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL (Resume)	X	SUBSEQUENT RECORD OF SHOOTING	
NOTICE OF INTENTION TO CHANGE PLANS		RECORD OF PERFORATING CASING	
NOTICE OF DATE FOR TEST OF WATER SHUT-OFF		NOTICE OF INTENTION TO PULL OR OTHERWISE ALTER CASING	
REPORT ON RESULT OF TEST OF WATER SHUT-OFF		NOTICE OF INTENTION TO ABANDON WELL	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO SHOOT		SUPPLEMENTARY WELL HISTORY	

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

_____, 19
 _____, **March 9, 1937**
 Following is a **{notice of intention to do work}** on land under **{permit}** described as follows:
{report of work done} **{lease}**
~~XXXXXXXXXXXX~~ ~~XXXXX~~

 (State or Territory) **Utah** (or Subdivision) **Grand** (or Subdivision) **Crescent** (or Field)
 Well No. **I** **NW 1/4 NE 1/4 Sec. 9** **22 S., 10 E.** **S. 10 M. 20**

The well is located **300** ft. **N** of _____ line and **1317** ft. **E** of _____ line of sec. **9**.

The elevation of the derrick floor above sea level is **4850** ft.

DETAILS OF PLAN 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.)

This well was drilled by Brendel Oil & Gas Company in 1932 to a total depth of 4125' as a test for potassium under a potassium permit and has remained in a shut down status subsequent to September, 1932. Holes is cased as follows: 20" landed at 27 1/2'; 8" landed at 2258'; 12 1/2" landed at 1124 1/2'. Hole is filled to surface with a heavy brine solution which can be kept bailed down while drilling.

The undersigned proposes to continue this test for oil or gas under an oil and gas prospecting permit to whatever depth found practicable with equipment now on location. Casing required for making proper test of all oil or gas showings and to properly protect mineral bearing formations will be run as required.

Approved _____
 (Date)

 Title _____
 GEOLOGICAL SURVEY

Company **W.S.L. Main**
W. S. L. Main and Charles Stansbury
 By _____
 Title _____
Partner

Address _____

Address **Thompson, Utah.**

NOTE.—Reports on this form to be submitted in triplicate to the Supervisor for approval.

Grand County Brendell Oil & Gas Co. Well #1
Crescent NW NE NE Sec. 9-228-192

Placer
Claim

Brendell Oil & Gas Co. Well #1,
NW NE NE Sec. 9-228-192 (Placer Claim)

Spudded in 7/24/28 to meet lease requirements. Actual drilling to start soon. A standard rig is being used. This well is located 400' south of the notorious Crescent Eagle well and it is hoped that the controversy regarding the oil and potassium possibilities of this area can be determined by this test. The same company is reported to have picked another location in this same area to be drilled immediately.
(Salt Lake Tribune) (Mr. Atkins 8/20/28)

Brendell Oil & Gas Co., Well #1,
NW NE NE Sec. 9-228-192 (Placer Claim)

SEP 1928

*Corrected location 400' S/N line and 1260' W/E line (Placer) Sec. 9.
Spudded in 7/24/28. No further drilling to date.
S. L. Tribune 8/16/28 (Visited 8/21/28)

OCT - - 1928

Brendell Oil & Gas Co. Well #1,
NW NE NE Sec. 9-228-192 (Placer Claim)

No further drilling down to date. Spudded in 7/24/28.
(Mr. Strong 10/22/28)

NOV 1928

Brendell Oil & Gas Co., Well #1,
NW NE NE Sec. 9-228-192 (Placer Claim)

No further drilling to date. Spudded in 7/24/28.

DEC 1928

Brendell Oil & Gas Co., Well #1,
NW NE NE Sec. 9-228-192 (Placer Claim)

Spudded in 7/24/28. Drilling not yet resumed. Will not be reported again until active work is resumed.

9-228-192, Brendell Oil & Gas Co., Well #1, (Placer claim) ~~STATUS~~

APR STATUS: DRG to DRG, Spudded only (Dyer 5-1-32)

REMARKS: Operations have been resumed at this well with the intent of making a test of oil and potash possibilities of the area. Cable tools will be used to drill to the top of the salt expected at 2500' and to test the Dakota sand at 1800'. The salt beds will be cured for potash.

9-228-192 Well No. 3, Brendell Oil & Gas Co., Well #1 (Placer Claim) ✓
NW NE NE

STATUS: DRG, 581 feet, dark gray shale (T.R. Van Kirk 5-20-32)

REMARKS: Operations resumed May 13, 1932 using cable tools and bitting in 15" hole. (CRESCENT - Grand County)

(See next page)

GRAND COUNTY
Crescent

9-228-19E Ref. No. 3, Brendel Oil & Gas Co., Well #1 (Placer Claim)

NW NE NE

STATUS: DRG 2175 feet, gray sand (Visited 6-22-32)

REMARKS: 12 1/2" casing set at 1110 feet. The top of the

JUN

1932

salt was found at 1736 feet, the Dakota sands were expected to be found above the salt at approximately this depth but were not present. Drilling samples are being taken at every run and a representative of the coal section of the Mining Division stationed at the well making tests of the salt for water soluble potassium salts. These salts were found in the Crescent Eagle well located in the SE 1/4 of Sec. 4-228-19E. (S. J. Brendel) (CRESCENT - Grand County)

9-228-19E. Ref. No. 3, Brendel Oil & Gas Co., Well #1 (Placer Claim)

NW NE NE

STATUS: DRG at 3200 ft. Salt and shale (James McKim)

REMARKS: Caving formation has interfered with taking of samples and made it necessary to fill up lower part of hole with cement. Now waiting for cement to set. (CRESCENT - Grand County) JUL 1932

✓ 9-228-19E Ref. No. 3, Brendel Oil and Gas Co., Well #1 (Placer Claim) NW NE NE

STATUS: DRG, 3426 feet, anhydrite, salt and shale (James McKim 8-8-32)

REMARKS: From 3384 to 3390 small showings of gas in black mud. Due to excessive amount of cavings it was necessary to cement the hole. Operations have been shut down temporarily waiting for the cement to set. (CRESCENT - Grand County) AUG 1932

9-228-19E Ref. No. 3, Brendel Oil and Gas Co., Well #1 (Placer Claim)

NW NE NE

SEP

1932

STATUS: DRG to DSI, 4125 feet, anhydrite (James McKim 9-29-32)

REMARKS: Operations have been temporarily shut down. No important oil or gas showings were encountered. This well will be dropped from further reports until operations are resumed. (CRESCENT - Grand County)

9-225-117E. Ref. No. 3, Brandel Oil & Gas Co. Well No. 1 (Placer
Claim) NW NE NE

Feb 1934

STATUS: BSI. 4125', anhydrite.

REMARKS: Observations of subsurface temperatures in this well were made by the district engineer February 20-21, 1934 to a depth of 1790' at the suggestion of the Geologic Branch. Hole was found to be bridged with salt deposited in the casing at about 1800' and lower readings could not be made. Equipment loaned to this office by Mr. C. E. Van Orstrand was used and the following results obtained:

<u>DEPTH</u>	<u>TEMPERATURE</u>	<u>FORMATION</u>
100 ft.	60.0	Shale
500 "	70.2	Shale
1000 "	83.95	Sand-Water
1500 "	89.0	Shale
1790 "	93.0	Shale

(Crescent - Grand County)

UTAH
S.L.M.

CRESCENT - Grand County

9-228-19B NW NE NE, Brendel Oil & Gas Co., Well #1 (Placer Claim)

Ref. No. 3. (MARCH, 1938)

STATUS: CO. T.D. 4125', ~~and~~ (Visited 3-22-38)

REMARKS: This well was drilled to a total depth of 4125' in September, 1932, as a potash test, and has remained in a shut down status subsequent to that time. Although a potash permit covering the ground on which this well is located was outstanding, and a drilling bond covering operations of the Brendel Oil & Gas Company on all permits held by the company, was posted, no approvals were made in connection with drilling operations by the Geological Survey. In consideration of this fact and contention of the company the well is on a placer claim, the well at time of drilling was carried on status sheets and reports as being on placer ground. California interests propose to deepen this well as a test for oil and gas, and have submitted plans for approval, and a designation of agency signed by oil and gas permittee Salt Lake City 052365. Unexpected difficulty in obtaining a drilling bond to accompany the request for approval of plans has prevented any action being taken by this office. Indications are that the parties interested in deepening this well now propose to carry on operations under the placer claim. Inasmuch as the potash prospecting permit has been canceled and the oil and gas permit is to be ignored by the present operator, an investigation will probably be necessary to determine the status of land on which this well is located.

S.L.M.

PERMIT - Grand County

9-222-192 NW NE NE, W. S. L. Main, Well #1 (S. L. 052205)-

Ref. No. 5. APRIL, 1938

Crescent
formerly reported as Brendel Oil & Gas Company,

Well No. 1 (Placer claim), Ref. No. 3.

STATUS: CO. 2800'. T.B. 4125', anhydrite. (Visited
4-29-38).

REMARKS: After considerable difficulty and delay due to submission of an improperly executed individual surety bond, operator finally obtained and submitted on April 13, 1938, a corporate surety bond conditioned to cover past and future operations on the permit area. Operator is reported to have entered into an agreement with Crescent Eagle Oil Company as owner of the placer claim on which this well is located, and with the permittee who has some connection with the Crescent Eagle Oil Company, whereby the operator agreed to advance money toward completion of this well and an offset well drilled to a total depth of 4006 ft. by Crescent Eagle Oil Company. The walls of the hole and casing were found to have been heavily coated with salt, deposited during the six years operations were suspended, which made cleaning out a difficult task. Salt water which filled hole to surface has been bailed down to point cleaned out.

S.L.M.

CRESCENT - Grand County (MAY, 1938)

9-228-18E NW NE NE, W. S. L. Main, Well #1 (S.L. 052365) Ref. No. 5.

STATUS: CO. 4125'. T.D. 4125'. anhydrite. (Visited 5-12-38)

REMARKS: Slow progress being made in cleaning out due to difficulty of bailing salt from hole and some caving. A number of gas pockets with sufficient volume and pressure to lift tools off bottom have been encountered below bridges drilled out.

CRESCENT - Grand County JUNE, 1938

9-228-18E NW NE NE, W. S. L. Main, Well #1, (S.L. 052365) Ref. No. 5.

STATUS: CO. 4117'. T.D. 4125' (B.W. Dyer 6-30-38).

REMARKS: Continued caving has made deeper drilling in open hole impossible. Crew rebracing and repairing rig preparatory to running a string of 6" casing to bottom.

CRESCENT - Grand County

9-228-19E NW NE NE, W. S. L. Main, Well #1 (S.L. 052365) Ref. No. 5.

STATUS: SD 4117'. T.D. 4125' (Visited 7-12-38).

REMARKS: Operations suspended entire month waiting for casing and clearing up of lease titles. Casing reported to have been purchased and drilling to be resumed about

July 1. (JULY, 1938)

AMERICAN OIL COMPANY

CRESCENT - Grand County

✓
9-22S-19E NW NE NE, W. S. L. Main, Well #1 (S.L. 052365) Ref. No. 5.

X
STATUS: SD 4117'. T.D. 4125' (Visited 8-2-38).

REMARKS: Operations remained suspended entire month due to financial difficulties of operator. (AUGUST, 1938)

AL
S. L. M. ✓ CRESCENT - Grand County

9-22S-19E NW NE NE, W. S. L. Main, Well #1 (S.L. 052365) Ref. No. 5. (SEPTEMBER, 1938)

X
STATUS: SD 4117', T.D. 4125' (Visited 9-14-38).

REMARKS: Operator reported to have paid up outstanding bills and preparing to resume operations.

JTAH

S. L. M. ✓ CRESCENT - Grand County

9-22S-19E NW NE NE, W. S. L. Main, Well #1 (S.L. 052365) Ref. No. 5.

X
STATUS: SD 4117', T.D. 4125'. (OCTOBER, 1938)

REMARKS: No information received as to plans for resuming operations. Will omit from future reports.

PIONEER COPY

PRELIMINARY ABANDONMENT REPORT

No application

Salt Lake City District
Date February 14, 1940 Land Office Salt Lake City
State Utah Serial Number 052365
County Grand Date Canceled _____
Field or Area Crescent Date ~~Extended~~ Terminated To December 31, 1939
Well No. 1 Subdivision NE¹NE¹ Sec. 9 Twp. 22 S. Rg. 12 E.

Permittee D. H. Vincent Address Salt Lake City, Utah
Operator W. S. L. Main Address Thompsons, Utah

Financial Status \$5,000 drilling bond, executed April 12, 1938, with New Amsterdam Casualty Company, bond surety.

Dates Notified to P&A Not notified Allowed _____

Drlg. Commenced July 24, 1928 Drlg. Ceased Sept. 14, 1932 T. D. 4125 ft.

Last Visited May 12, 1938 Is Well Doing Damage Doubtful

Depth and Content of Sands:

water at 990' in lime shell 3367 to 3369' water in anhydrite
Water at 1275' in shale water at 3800' in black shale and anhydrite

Casing Record: 20" landed at 27'
 1125' of 12 $\frac{1}{2}$ " casing landed
 2258' of 8 $\frac{1}{4}$ " casing landed

} *Commented 99 (Probably Bad Cable tool)*

Condition of Hole: Hole making very small flow of salt water with oil and gas shows. Standard rig, engine, boiler and some tools on location.

Water Level Below Surface or Volume if Flowing Flowing a few gallons a day.

Estimated Cost of Plugging and Abandonment 2000
\$1500. using equipment now on location

Recommended Procedure for Plugging:

Clean out salt which has deposited and filled upper several hundred feet of casing. Fill hole with mud fluid by circulation through tubing to displace water from hole. Continue circulation under pressure until mud returns show no loss in volume or weight. Bridge hole solidly 10' below depths where water is reported and cap all bridges with sufficient cement or other plugging material not effected by salt to extend 10' above water. All or as much as possible of 8 $\frac{1}{4}$ " and 12 $\frac{1}{2}$ " strings will be recovered to permit proper setting of plugs. Cement marker pipe in 20" casing and clean up location.

Just need 20' plug across Envy (Gannon) & Salt.
1,700 - 1900

subject to

D. W. Vincent

727 Ramona Av.

Salt Lake City - Ward left no address

Mr. Bernard A. King

New Amsterdam Casualty Co.

5600 W. Elshere Blvd.

Los Angeles, Calif - Address Unknown

→ also 227 H Paul St. Baltimore³ Md.

also 727 W. Seventh St.
Los Angeles 17, Calif.

W.S.L.

W. N. Mann

Thompson, Utah



from B

WELL NO. 1 WEL - GRAND COUNTY, UTAH

	FEET	IN TO FT.
Loam	0	
Black shale	30	308
Grey sand	335	368
Shale	353	385
Lime shell (water 300' - salt)	355	1015
Shale	1015	1275
Lime (gas and water - 1275')	1275	1285
Shale	1285	1522
Sand (hard)	1522	1554
Shale	1554	1605
Sand	1605	1730
Shale	1730	1826
FIRST DAKOTA (hard)	1826	1834
Green shale	1834	1854 <i>Worrison</i>
Salt	1854	1933
Sand	1933	1987
Salt	1987	2087
Shale	2087	2100
Sandy lime	2100	2111
Salt	2111	2518
Shale	2518	2739
Salt	2839	2925
Shale	2925	2918
Salt	2918	2964
Shale	2964	2990
Salt	2990	3054
Shale	3054	3065
Salt	3065	3090
Shale	3090	3140
Salt	3140	3245
Shale	3245	3276
Salt	3276	3295
Shale (water 3297' to 3300')	3295	3431
Salt	3431	3462
Salt (K ₂ O)	3462	3479
Black shale	3479	3498
Shale and salt (about equal proportion)	3498	3722
Black shale (water at 3800')	3722	3807
Salt	3807	3978
Shale	3978	4125
Present depth		4125

casing was run as follows
 20' 27.5'
 12 1/2' 1124.5'
 8' 2258.4'

100 - shale
500 - shale

LOG
BRUNDEL NO. 1 WELL

			Feet
Water	999		
Gas and water	1878		
Salt	1884	1903	79
Sand	1933	1987	
Salt	1987	2067	70
Anhydrite	2067	2109	
Sandy lime and anhydrite	2109	2111	
Salt	2111	2518	407
Anhydrite	2518	2699	171
Salt	2699	2791	108
Mixed anhydrite - shale and salt	2791	2818	27
Salt	2818	2848	30
Salt and anhydrite	2848	2858	
Anhydrite and shale	2858	2909	
Anhydrite and salt	2909	2972	42
Anhydrite, salt and black shale	2972	2990	
Salt	2990	3054	164
Black shale	3054	3080	
Black shale, anhydrite and salt	3080	3083	
Salt	3083	3089	6
Salt and black shale	3089	3090	
Salt	3090	3090	10
Black shale, anhydrite and salt	3090	3143	
Salt	3143	3194	51
Salt, anhydrite, black shale	3194	3222	
Salt	3222	3258	18
Salt and anhydrite	3258	3247	
Cementing job	3276		
Salt	3247	3298	48
Salt, anhydrite and black shale	3298	3301	
Black shale	3301	3331	
Black shale and salt	3331	3347	
Black shale, anhydrite and salt	3347	3359	
Anhydrite	3359	3371	
Anhydrite, black shale	3371	3380	
Black shale	3380	3390	
Anhydrite and salt, some shale	3390	3428	
Cementing job			
Salt	3428	3479	53
Black shale and salt	3479	3506	
Salt	3506	3557	49
Salt and anhydrite	3557	3580	
Salt	3580	3722	140
Black shale and anhydrite	3722	3748	
Salt, black shale and anhydrite	3748	3807	
Salt -	3807	3972	165
Salt and black shale	3972	3988	
Black shale	3988	4008	
Black shale and anhydrite	4008	4018	
Anhydrite	4018	4125	

(COPY)

052365

W. S. L. Main Well No. 1, Crescent Field, Grand County, Utah. 300' from N. line and 1317' from E. line of NE $\frac{1}{4}$ sec. 9 (NW NE $\frac{1}{4}$ NE $\frac{1}{4}$) T. 22 S., R. 19 E., S.L.M.

Total Depth 4125'

	<u>From</u>	<u>To</u>	<u>Formation</u>
	0	30	Loam
	30	805	Black shale
	805	858	Gray sand
	858	955	Shale
	955	1015	Lime shell (water 990' - salt)
	1015	1275	Shale
	1275	1285	Lime (Gas and water - 1275')
	1285	1522	Shale
	1522	1554	Sand (hard)
	1554	1605	Shale
	1605	1730	Sand
	1730	1826	Shale
<i>Dakota</i>	1826	1834	FIRST DAKOTA (hard)
	1834	1854	Green shale
	1854	1933	Salt
	1933	1987	Sand
	1987	2057	Salt
	2057	2100	Shale
	2100	2111	Sandy lime
	2111	2518	Salt
	2518	2689	Shale
	2689	2805	Salt
	2805	2813	Shale
	2813	2864	Salt
	2864	2890	Shale
	2890	3054	Salt
	3054	3063	Shale
	3063	3090	Salt
	3090	3140	Shale
	3140	3243	Salt
	3243	3276	Shale
	3276	3295	Salt
	3295	3431	Shale (water 3367' to 3369')
	3431	3462	Salt
	3462	3479	Salt (K ₂ O)
	3479	3488	Black shale
	3488	3722	Shale and salt (about equal proportion)
	3722	3807	Black shale (water at 3800')
	3807	3978	Salt
	3978	4125	Shale

Manassas Shale

Dakota

Paradeep

E O E I

NOTICE OF INTENTION AS TO FURTHER DRILLING

In lieu of the requirement by G. A. Hauptman, District Engineer, United States Geological Survey, that the Potash Company of America, in its operations in the Woods No. 1 well, agrees to extend said hole through the Paradox formation, it is proposed, all in accordance with good drilling practices and subject to and in compliance with the Oil and Gas Operation Regulations and requirements of the U. S. G. S., and by use of rotary drilling equipment:

1. If the conditions and showings in the Woods No. 1 well at 3000 feet shall be found comparable to the conditions and showings in the Defense Plant Corporation well at about 4400 feet, then to:

- (a) Continue core drilling in the Woods No. 1 well for an additional 1000 feet, unless at lesser depth complete penetration of the Paradox formation is definitely established.
- (b) Upon completion of said additional drilling for 1000 feet, or to sooner established penetration of the Paradox formation, to consider with the U. S. G. S. the justification and desirability of proceeding to greater depth in view of the then disclosed facts and condition of the hole; or

2. If the conditions and showings in the Woods No. 1 well at 5000 feet are such as not to indicate near approach to the bottom of the salt section in Paradox formation, to move and install the drilling equipment either at the D. P. C. well or at the Bradley well (the conditions and showings in which at about 4200 feet are understood to be similar to the conditions and showings in the D. P. C. well). Preparations of foundations for deeper drilling will be essential at either location.

3. In the event it shall be concluded to install the drilling equipment at the D. P. C. well then:

- (a) To clean out to bottom and condition the hole with mud.
 - (b) To core drill ahead for 1000 feet unless at lesser depth complete penetration of the Paradox formation is definitely established.
 - (c) Upon completion of said additional drilling for 1000 feet, or to sooner established penetration of the Paradox formation, to consider with the U. S. G. S. the justification and desirability of proceeding to greater depth in view of the then disclosed facts and condition of the hole.
 - (d) When it is concluded that there shall be no further deepening of the hole, to plug back, case and make a proper test of the oil and gas showings encountered at about 4200 feet.
- (3) To properly test the gas showing encountered at about 3000 feet unless it shall appear to the Operator desirable to first make solution production tests in the salt section, in which event it may appear desirable to postpone the testing of said gas showing until completion of said solution tests.

4. In the event it shall be concluded to install the drilling equipment at the Brendel well, then:

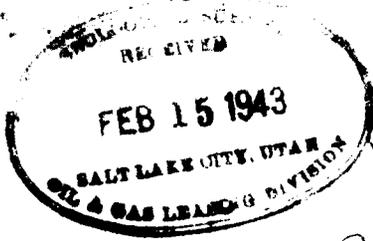
- (a) To clean out to bottom and condition the hole with mud. (It is understood that the cleaning out will involve handling of the bailer reported lost in the hole).
- (b) To core drill ahead for 1000 feet unless at lesser depth complete penetration of the Paradox formation is definitely established.
- (c) Upon completion of said additional drilling for 1000 feet, or to sooner established penetration of the Paradox formation, to consider with the U. S. G. S. the justification and desirability of proceeding to greater depth in view of the then disclosed facts and condition of the hole.
- (d) When it is concluded that there shall be no further deepening of the hole, to plug back, case and make a proper test of the oil and gas showings understood to have been encountered at about 4200 feet.

5. Where conditions and showings appear to justify and are favorable to an electric survey, to make a Schlumberger survey of said additional hole drilled or of the present hole in the D. P. C. well or Brendel well if such further drilling is in one of said wells.

6. In any additional drilling above referred to, to core all potentially productive oil and gas zones encountered, and to adequately drill-stem test encountered showings of oil and/or gas.

7. To notify the U. S. G. S. representative of any mudding, cementing, water shut-off, and oil or gas test in order that a representative of the Survey may be present at the time of such test, and also to notify such representative of any change in the operations above proposed which may appear desirable to the Operator in view of developments, and to consider such changes with such representative looking toward approval of any changes made.

Rec'd USGS
Salt Lake City, Utah
Oct. 19, 1943



Wm. C. ...

82.C.052 365

**FIELD ANALYSES
BRIDEL NO. 1 WELL**

Potash

Depth	Field Analyses		Formation Drilled	Drilling Solution		Remarks
	Brine	Drill Cuttings				
0 - 1726			Shale			
1726 - 1736			Sand			
1736 - 1745			Salt & Shale			
1850 - 1858	Tr.		Salt	Fresh Water		First clean (salt reported.)
1858 - 1864	"		"	"	"	
1864 - 1870	"		"	"	"	
1870 - 1875	"		"	"	"	
1875 - 1880	"		"	"	"	
1880 - 1885	"		"	"	"	
1885 - 1891	"		"	"	"	
1891 - 1897	"		"	"	"	
1897 - 1903	"		"	"	"	
1903 - 1909	"		"	"	"	
1909 - 1916	"		"	"	"	
1916 - 1922	"		"	"	"	
1922 - 1927	"		"	"	"	
1927 - 1933	0.05		"	"	"	
1933 - 1987			Sand & Shale	"	"	
1987 - 1933	Tr.		Salt	"	"	
1993 - 1998	"		"	"	"	
1998 - 2001	"		"	"	"	
2001 - 2007	"		"	"	"	
2007 - 2015	"		"	"	"	
2015 - 2023	"		"	"	"	
2023 - 2030	"		"	"	"	
2030 - 2037	"		"	"	"	
2037 - 2045	"		"	"	"	
2045 - 2049	"		"	"	"	
2049 - 2057	"		"	"	"	
2057 - 2111			Sand & Shale			
2111 - 2117	0.2		Salt	NaCl, Salt, Brine		
2117 - 2122	0.25		"			
2122 - 2128	0.24		"			
2128 - 2134	0.42		"			
2134 - 2139	0.22		"			
2139 - 2145	0.2		"			
2145 - 2151	0.2		"			
2151 - 2161	0.24		"			
2161 - 2167	0.26		"			
2167 - 2177	0.26		"			
2177 - 2185	0.2		"			
2185 - 2190	0.78		"			
2190 - 2195	Tr.		"			
2195 - 2202	"		"			

*193
1850
83*

Depth	Field Analyses Brine Drill Cuttings	Formation Drilled	Drilling Solution	Remarks
2202 - 2212	Tr.	Salt	NaCl Brine	
2212 - 2220	"			
2233 - 2238	"			
2248 - 2253	"			
2253 - 2258	"			
2258 - 2264	"			
2264 - 2271	"			
2271 - 2278	"			
2278 - 2285	"			
2285 - 2291	"			
2291 - 2297	"			
2309 - 2314	"			
2314 - 2320	"			
2320 - 2327	"			
2327 - 2335	"			
2335 - 2340	"			
2340 - 2346	"			
2346 - 2351	"			
2351 - 2356	"			
2356 - 2361	"			
2361 - 2367	"			
2367 - 2372	"			
2372 - 2377	"			
2377 - 2382	"	Salt	NaCl Brine	
2382 - 2387	"	"	"	
2387 - 2392	"			
2392 - 2397	"			
2397 - 2402	"			
2402 - 2407	"			
2407 - 2412	"			
2412 - 2417	"			
2417 - 2421	"			
2421 - 2426	"			
2426 - 2432	"			
2432 - 2437	"			
2437 - 2442	"			
2442 - 2448	"			
2448 - 2453	"			
2453 - 2458	"			
2458 - 2464	"			
2464 - 2469	"			
2475 - 2480	"			
2480 - 2485	"			
2485 - 2490	"			
2490 - 2495	"			
2495 - 2501	"			

Depth	Field Analyses		Formation Drilled	Drilling Solution	Remarks
	Brine	Drill Cuttings			
2501 - 2506	Tr.		Salt	NaCl Brine	
2506 - 2511	"				
2511 - 2518	"				
2518 - 2618	"		Anhydrite		
2550 - 2553	"				
2553 - 2556	"				
2602 - 2610	"				
2618 - 2624	"		(Shale-Oil show- ing & Gas)		
2624 - 2689	"		Shale & Anhydrite		
2689 - 2692	0.32		Salt		
2692 - 2696	0.5		"		
2696 - 2702	0.5				
2702 - 2708	0.6				
2708 - 2714	0.85				
2714 - 2719	0.6				
2719 - 2724	0.56				
2724 - 2730	0.53				
2730 - 2735	0.51				
2735 - 2740	0.6				
2740 - 2745	0.36				
2745 - 2751	0.6				
2751 - 2756	0.5				
2756 - 2762	0.56				
2762 - 2768					
2768 - 2774	0.71	Tr.			
2774 - 2780	0.8				
2780 - 2785	0.61				
2785 - 2791	0.6		Salt	NaCl Brine	
2791 - 2803	0.65		(Anhydrite, Shale & Salt)		
2803 - 2813	0.31		" " "		
2813 - 2818	0.3		Salt		
2818 - 2827	0.6				
2827 - 2832	0.2				
2832 - 2838	0.46				
2838 - 2843	0.44				
2843 - 2848	0.4				
2848 - 2853	0.55		Salt & Anhydrite		
2853 - 2858	0.1		" "		
2858 - 2869			Anhydrite & shale		
2869 - 2872	0.5		"	Salt	
2872 - 2882	0.71				
2882 - 2890	0.5				
2890 - 2894	0.5		Anh., Salt & Shale		
2894 - 2899	0.26		Salt		
2899 - 2904	0.3				
2904 - 2910	0.33				
2910 - 2915	0.25				
2915 - 2921	0.8				
2921 - 2927	0.5				

Depth	Field Analyses		Formation Drilled	Drilling Solution	Remarks
	Brine	Drill Cuttings			
2927 - 2932	0.46				
2932 - 2938	0.46				
2938 - 2943	0.3				
2943 - 2950	0.4		Salt	NaCl Brine	
2950 - 2960	0.35				
2960 - 2965	0.46				
2965 - 2971	0.32				
2971 - 2978	0.3				
2978 - 2985	0.36				
2985 - 2992	0.3				
2992 - 2999	Tr.				
2999 - 3004	"				
3004 - 3010	0.48				
3010 - 3017	0.48				
3017 - 3023	0.56				
3023 - 3031	0.3				
3031 - 3037	0.34				
3037 - 3043	0.34				
3043 - 3049	0.32				
3049 - 3054	0.31				
3054 - 3060			Blk. Shale		
3060 - 3063			Sh. Anh. & Salt		
3063 - 3069	Tr.		Salt		
3069 - 3080	"		" & Shale		
3080 - 3085	"		Salt		
3085 - 3090	"		"		
3090 - 3143	"		Blk. Sh., Anh. & Salt		
3090 - 3110	"		" " "		
3131 - 3137	"		" " "		
3137 - 3143	"		" " "		
3143 - 3148	"		Salt		
3148 - 3154	"		"		
3154 - 3159	0.3		"		
3159 - 3164	Tr.		"		
3164 - 3169	"		"		
3169 - 3176	"		"		
3176 - 3182	0.25		"		
3182 - 3188	Tr.		"		
3188 - 3194	0.35		"		
3194 - 3200	0.5		Salt, Anh. & Blk. Sh.		
3200 - 3208	Tr.		" " "		
3208 - 3213	0.3		" " "		
3213 - 3219	Tr.		" " "		
3219 - 3221	0.25		" " "		
3221 - 3224	0.25		Salt		
3224 - 3229	0.25		"		
3229 - 3234	Tr.				
3234 - 3243					
3234 - 3248	Tr.		Salt		
3238 - 3243	0.47		Salt & Anh.		
3243 - 3247	0.42		" "		

Depth	Field Analyses		Formation Drilled	Drilling Solution	Remarks
	Brine	Drill Cuttings			
3247 - 3255	0.52		Salt	NaCl Brine	
3255 - 3262	Tr.		"		
3262 - 3269	"		"		
3269 - 3272	0.25		"		
3272 - 3276	Tr.		"		
3276 - 3282	"		"		
3282 - 3288	0.5				
3288 - 3295	Tr.				
3295 - 3301	"		Anh. & Blk. Sh.		
3301 - 3331			Black Shale		
3306 - 3331					
3331 - 3337	0.65		Blk. Sh. & Salt		
3337 - 3342	0.5		" " "		
3342 - 3347	0.45		" " "		
3347 - 3352	0.3		Blk. Sh., Anh. & Salt		
3352 - 3357			" " "		
3357 - 3358	0.6		" " "		
3358 - 3360			" " "		
3358 - 3359	0.5		Anhydrite		
3359 - 3371			"		
3366 - 3369	1.35		"		First Mg. noted
3369 - 3371	3.00	1.5	"		K ₂ O Approx. 0.51
					lbs./
					(gal. Mg. = 1.079
					lbs./
					(gal. 20 bailers,
					next day 16
					bailers.
3371 - 3375	1.25		Anh. & Blk. Sh.		
3375 - 3380	1.00		" "		
3380 - 3384	2.00	1.25	Blk. Shale		
3384 - 3390			"		
3390 - 3395	1.75		Anh., Salt & some Sh.		
3395 - 3400	2.25	1.15	" " " "		
3400 - 3406	1.45	2.3	" " " "		
3406 - 3414	1.00	0.75	" " " "		
3414 - 3420	2.25	0.85	" " " "		
3420 - 3426	1.20	1.2	" " " "		
3426 - 3433	1.00	1.18	Salt		
3433 - 3438	1.00		"		
3438 - 3444	1.00		"		
3444 - 3449	1.00		"		
3449 - 3455			"		
Corrected to			"		
3462 - 3468		1.65	"		
3468 - 3470		1.21	Salt		
3470 - 3474		3.00	"		
3474 - 3479		1.65	"		
3479 - 3482		1.49	Blk. Shale & Salt		
3482 - 3487		1.66	" " "		
3487 - 3491		3.94	" " "		
3491 - 3502		2.44	" " "		
3502 - 3508		1.57	" " "		
3508 - 3514		1.55	Salt		
3514 - 3520		1.50	"		

added
H₂O

Depth	Field Analyses		Formation Drilled	Drilling Solution	Remarks
	Brine	Drill Cuttings			
3520 - 3525		1.45	Salt		
3525 - 3534			"		
3534 - 3540		1.00	"		
3540 - 3547		1.30	"		
3547 - 3553		1.08	"		
3553 - 3559		3.8	"		
3559 - 3566		3.8	Salt & Anh.		
3566 - 3572		2.16	"		
3572 - 3580		1.68	"		
3580 - 3585		1.47	Salt		
3585 - 3591		2.55	"		
3591 - 3596		2.60	"		
3596 - 3602		2.20	"		
3602 - 3608		2.07	"		
3608 - 3614		1.41	"		
3614 - 3621		1.44	"		
3621 - 3628		1.25	"		
3628 - 3633		0.97	"		
3633 - 3641		1.08	"		
3641 - 3646		1.80	"		
3646 - 3651		1.57	"		
3651 - 3658		1.27	"		
3658 - 3664		1.10	"		
3664 - 3670		0.88	"		
3670 - 3677		1.27	"		
3677 - 3685		1.20	"		
3685 - 3691		1.10	"		
3691 - 3698		1.10	"		
3698 - 3704		1.02	"		
3704 - 3712		1.20	"		
3712 - 3717		1.30	"		
3717 - 3722		1.12	"		
3722 - 3729		0.99	Blk.Sh. & Anh.		
3729 - 3731		1.18	"		
3731 - 3737		0.91	"		
3737 - 3743		1.12	"		
3743 - 3749		1.12	Salt, Blk.Sh. & Anh.		
3749 - 3756	1.05	1.10	"		
3756 - 3762	1.70		"		
3762 - 3768		0.95	"		
3768 - 3773			"		
3773 - 3778			"		
3778 - 3783			"		
3783 - 3788		1.50	"		
3788 - 3800	3.65	3.72	"		
3800 - 3809	3.28	1.85	"		
3807 - 3814	3.08	1.35	Salt		
3814 - 3825		1.60	"		
3825 - 3833		1.24	"		
3833 - 3838		1.43	"		

Adding 4 Gal.
 Salt brine.
 No H₂O added

Oil showing on heating.

7 1/2 bailers

Depth	Field Analyses		Formation Drilled	Drilling Solution	Remarks
	Brine	Drill Cuttings			
3838 - 3844		1.90	Salt		
3844 - 3851		1.80	"		
3851 - 3859		1.50	"		
3859 - 3866		2.55	"		
3866 - 3873		7.90	"		
3873 - 3880		6.72	"		
3880 - 3886		4.51	"		
3886 - 3891		3.30	"		
3891 - 3899		3.33	"		
3899 - 3905	3.7	8.66	"		8.6% K ₂ O in total solids in brine. 4.7 & 4.73% K ₂ O in large sample of outtings with brine drained off.
3905 - 3912		5.10	Salt		
3912 - 3919		5.00	"		
3919 - 3927		1.95	"		
3927 - 3933		1.44	"		
3933 - 3940		1.30	"		
3940 - 3946		1.13	"		
3946 - 3952		1.05	"		
3952 - 3958		1.70	"		
3958 - 3965		1.06	"		
3965 - 3972		1.03	"		
3972 - 3979		1.44	Blk. shale & salt		
3979 - 3984		1.92	"		
3984 - 3988		1.86	"		
3988 - 4008			Blk. shale		
4008 - 4016			Blk. sh. & anh.		
4016 - 4125			Anhydrite		Stopped Sept. 13, 9 pm
Bailings -					
Sept. 14	2.66	2.4			8 a.m., Sept. 14 - 75° water in the hole.
Soluble salts		8.57			Dried sample 72% insoluble by weight.

UTAH OIL & GAS CONTROL COMMISSION
310 NEWHOUSE BUILDING
10 EXCHANGE PLACE
SALT LAKE CITY 11, UTAH

Bob:

I've written a formal memo for the files which pretty well explain the deal on the Defense Plant Well now.

Incidentally, the well that I called the Defense Plant well in those pictures is not the Defense Plant Well. You recall the only way I could differentiate between them was by the different size casing sticking up. The well with the largest casing sticking up is called Brendell #1 drilled by Crescent Eagle Oil Corporation. The one with the smaller casing is Crescent Eagle #1. I did not take a picture of the Defense Plant Well mainly because I couldn't or didn't find it out there when I was taking pictures.

The well that Kern County Land Company turned in a "Notice to Alter Well" was the Amerada Green River #1 over on the Green River. All they did there was remove the cap and bail out some water and put the cap back.

This Alderman has quite a bit of dope on those wells around Crescent Junction.

HARVEY L. COONT'S

Branch of Oil and Gas Operations
8416 Federal Building
Salt Lake City, Utah, 84111

**CERTIFIED MAIL
RETURN RECEIPT REQUESTED**

October 26, 1965

W. S. L. Main
Thompson, Utah ✓

D. M. Vincent
727 Ramona Avenue
Salt Lake City, Utah ✓

Gentlemen:

According to our records Mr. Vincent was holder of Federal Oil and Gas Prospecting permit Salt Lake 052365, now expired, and Mr. Main was Mr. Vincent's designated agent under the permit. Our records also show that Mr. Main submitted a \$5,000 drilling bond with the New Amsterdam Casualty Company as surety to cover his operations on the subject permit. Well 1, ~~NE&NE~~ sec. 9, T. 22 S., R. 19 E., SLEM, Grand County, Utah, was reentered and deepened by Mr. Main in 1938 but was never properly plugged and abandoned.

The title to the land on which the subject unplugged well is located was conveyed to the State of Utah effective February 8, 1965, under authority of Section 2 of the Act of September 12, 1964, PL 88-590 (78 Stat. 934) Canyonlands National Park exchange lands. Hence, this department now has no further jurisdiction over these lands.

It appears that the obligation to properly plug and abandon the well continues but runs to the State of Utah, since the State has acquired title to the lands containing the unplugged well under the above Act. This letter is being sent to the permittee, the designated agent, and the principal and surety on the bond; and by copy of this letter we are informing the Utah State Land Board, Utah Oil and Gas Conservation Commission, and the Bureau of Land Management of this determination.

Sincerely yours,

(ORIG. SGD.) R. A. SMITH

Rodney A. Smith,
District Engineer

cc: Mr. Bernard A. Guy
New Amsterdam Casualty Company
5600 Wilshire Blvd.
Los Angeles, California

Utah State Land Board
State Capitol Building
Salt Lake City, Utah

Utah Oil and Gas Conservation Commission
348 East South Temple, Suite 301
Salt Lake City, Utah

Manager, Land Office
Bureau of Land Management
P. O. Box 11505
Salt Lake City, Utah

COMMISSIONERS

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PETROLEUM ENGINEERS

PAUL W. BURCHELL
CHIEF ENGINEER
HARVEY L. COONTS
SALT LAKE CITY

THE STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

348 EAST SOUTH TEMPLE
SUITE 301
SALT LAKE CITY, UTAH 84111

DAvis 8-5771

November 17, 1965

W. S. L. Main
Thompson, Utah

New Amsterdam Casualty Company
727 W. 7th Street
Los Angeles 17, California

Gentlemen:

Enclosed is a copy of a letter this office received from the United States Department of the Interior, Geological Survey. As explained in the contents of Mr. Rodney A. Smith's letter, this Commission has now inherited the jurisdiction over the subject well.

On November 11, 1965, an inspection was made of this well located in NE, NE Sec. 9, T. 22 So., R. 19 E., Grand County, Utah. The hole was found uncapped, unplugged, and filled with salt water which had a static head at the surface. After examining the lithological log of the well, it appears that several brine flows were encountered both in the Mancos and Paradox formations. The Paradox is made up of salt beds which are known to be highly mineralized throughout the area. Therefore, the condition of this well could be detrimental to future mining operations. It should be noted that migration of these brines into the Dakota sandstone could also lead to a serious pollution problem.

In view of the "reasonable" length of time which has been allowed to elapse since this site was drilled, it is recommended that plugging and abandonment procedures be instigated as soon as possible. If no action is taken by the operator or the New Amsterdam Casualty Company, as surety to cover his obligation, by January 1, 1966, the matter will be turned over to the Attorney General's Office.

Please be advised that before any plugging operations are commenced, it will be necessary to contact this office so that a proper program can be outlined.

Very truly yours,

PAUL W. BURCHELL
CHIEF PETROLEUM ENGINEER

PWB:kh

**New Amsterdam Casualty Company
227 St. Paul Street
Baltimore 3, Maryland**

**Rodney Smith U.S.G.S.
District Engineer
8416 Federal Building
Salt Lake City, Utah**

**State Land Board
State Capitol Building
Salt Lake City, Utah**

**Attorney General's Office
Room 236
Attn: Ronald Boyce
State Capitol Building
Salt Lake City, Utah**



1841

SECURITY INSURANCE GROUP

LOS ANGELES, CALIFORNIA 90005

BRANCH OFFICE

3600 WILSHIRE BOULEVARD

PHONE: DUNKIRK 1-2921

November 24, 1965

State of Utah
Oil and Gas Conservation Commission
348 East South Temple, Suite 301
Salt Lake City, Utah 84111

Re: File No. 8-14-18701
Drilling Bond

Gentlemen:

We have your letter of November 17, 1965, copy of which was sent to W. S. L. Main of Thompson, Utah.

Unfortunately, your letter does not go into sufficient detail regarding a bond number and full name of the principal and date the bond was executed.

The copy of the letter sent to you by the District Engineer of the Department of the Interior Geological Survey Division indicates that the original bond was executed in 1938. You must understand that unless we have a bond number or a copy of the bond that was executed in 1938, it would be almost impossible to check our records that far back.

Any additional information you can provide us will expedite the handling you call for.

Please be assured of our cooperation as soon as we have received the additional information requested herein.

Very truly yours,

N. D. Crisafulli
Claims Manager

NDC:ld

Note: Sent this to USGS - PWB



1841

SECURITY INSURANCE GROUP

LOS ANGELES, CALIFORNIA 90005

BRANCH OFFICE

3600 WILSHIRE BOULEVARD

PHONE: DUNKIRK 1-8921

Nov. 29, 1965

State of Utah
Oil & Gas Conservation Commission
348 E. South Temple, suite 301
Salt Lake City, Utah, 84111

Re: W. S. L. Main
Thompson, Utah

Gentlemen:

We have been furnished with copies of the attached letters concerning a \$5000. Oil & Gas Drilling bond executed in our Company.

From the information given we have not been able to find the bond file and would appreciate a bond number, copy of the bond or some evidence to enable us to track down the file. Apparently this is a very old item and our filing systems have been changed and some branch offices closed out necessitating the moving of old files. We would appreciate any information you can give us to enable us to find the files.

Postage paid envelope is enclosed for your convenience in replying.

Very truly yours,

G. E. Dixon
Bond Department

GED/d
encl.

12/1/65

USGS - received same letter and will answer Mr. Dixon with a carbon copy to this office. PMP

Branch of Oil and Gas Operations
8416 Federal Building
Salt Lake City, Utah, 84111

December 1, 1965

Mr. G. E. Dixon
Security Insurance Group
3600 Wilshire Boulevard
Los Angeles, California 90005

Dear Mr. Dixon:

Our office is not the office of record for lease bonds filed to cover operations on Federal oil and gas leases; however, we obtained and are enclosing a copy of the \$5,000 bond filed for terminated lease Salt Lake 052365 as requested in your November 29 letter.

If you have any further inquiries concerning the bond or the lease itself, you should contact the Manager, Land Office, Bureau of Land Management, P. O. Box 11505, Salt Lake City, Utah.

Sincerely yours,

(ORIG. SGD.) GEORGE F. BROWN

George F. Brown,
Acting District Engineer

Enclosure

cc: Mr. Paul Burchell w/copy bond
Utah Oil and Gas Conservation Commission
348 East South Temple
Salt Lake City, Utah

2-9-66

Copy of Bond sent to Hale Prince, State Land Bd, after
telephone conversation requesting the Land Bd as I soon to
ask atty Gen to have well plugged

WJF



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

January 15, 1986

TO: Norm Stout, Well Records Supervisor
FROM: John Baza, Petroleum Engineer *JB*
RE: Well No. Brendal 1, Sec. 9, T. 22S, R. 19E, Grand County, Utah

Based on recent field inspections conducted by William Moore, Oil and Gas Field Specialist, it has been determined that the original operator of the listed well no longer exists. Therefore, the well status should be considered as a shut-in well with operator unknown because no further information on the well can likely be obtained.

The well is open to the atmosphere with a large diameter casing. Two other unplugged wells exist on the site that have no well files. The wells lack identification and rehabilitation. The original lease and bond have been terminated. The well should be listed as shut-in without operator until further operations are proposed.

WM/sb
0214T-18

From: Bob Krueger
To: Trimmer, Edie
Date: 8/31/00 10:25AM
Subject: Re: Orphan Well Surface and Mineral Ownership

Edie, this well was drilled in 1943. Since the BLM passed this well along to the state with the property, I will confirm with John that we want to move ahead with plugging plans for this well. The main reason for my email was to verify the well was not on private surface for right-of-entry purposes.

>>> Edie Trimmer 08/30/00 04:28PM >>>
Hi Bob

Yes it is on sovereign lands. We acquired this section from BLM in 1965. I have no record of a lease on it. When was the well drilled? And what does this mean for us?

Edie

>>> Bob Krueger 08/30 4:16 PM >>>
Hi Edie, my records indicate that FFSL is the surface and mineral owner of the land where the following orphan well resides. Can you verify this information for me??

Brendal Fed. #1, Grand Co., NE/NE-9-T22S-R19E, API# 43-019-10683

Thanks,

Robert J. Krueger, Petroleum Engineer
Utah Division of Oil, Gas and Mining
1594 W. North Temple, Suite 1210
Salt Lake City, Utah 84114
(801) 538-5274 Phone
(801) 359-3940 Facsimile
nrogm.bkrueger@state.ut.us

CC: John Baza

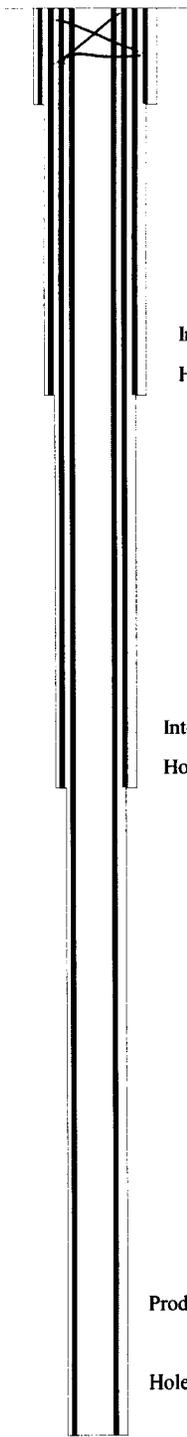
Wellbore Diagram

API Well No: 43-019-10683-00-00 Permit No: Well Name/No: BRENDEL FED 1
 Company Name: ORPHAN-NO RESPONSIBLE OPER
 Location: Sec: 9 T: 22S R: 19E Spot: NENE
 Coordinates: X: 602368 Y: 4308186
 Field Name: WILDCAT
 County Name: GRAND

String Information

String	Bottom (ft sub)	Diameter (inches)	Weight (lb/ft)	Length (ft)	Capacity
SURF	27	20			
I1	1125	12.5			
I2	2258	8.25	26.7		3.361 f/c f
PROD	4125	6			
HOL4	4125				

Current TD @ 15' unknown condition of hole below



Surface: 20 in. @ 27 ft.
Hole: Unknown

Intermediate: 12.5 in. @ 1125 ft.
Hole: Unknown

Intermediate: 8.25 in. @ 2258 ft.
Hole: Unknown

Production: 6 in. @ 4125 ft.
Hole: @ 4125 ft.

TD: 4125 TVD: PBSD:

Cement Information

$$15' / (6.18) (3.361) = 4.5x$$

Perforation Information

Formation Information

Formation	Depth	Formation	Depth
MNCS	0		
DKTA	1826		
PRDX	1834		

Orphan Well Cost Estimate

Brendel Federal # 1 Well
API # 43-019-10683
NENE Section 9 T22S, R19E, SLM

Item	Item Description	Unit Cost (FY04)	Quantity	Subtotal
A - WORKOVER RIG LABOR AND EQUIPMENT				
A1	4-Man Crew Travel, Round Trip to/from Location(s) Including Wages and Vehicle	\$/day 330.00	1	330.00
A2	Operations Supervisor/Cementer Including Transportation, Cellular Phone and Pager	\$/hr 65.00	4	260.00
A3	Pulling Unit Rig Rate Including Crew; BOP (3M Specification per 43 CFR 3160); All Rams and associated equipment	\$/hr 208.00	0	0
A4	Drilling Package Including Power Swivel; 180 bbl Minimum Capacity Mud Pit; 4 bpm/2,000 psi WP Minimum Triplex Pump	\$/hr 230.00	0	0
A5	Water Storage and Well Flowback Tanks – 180 bbl Minimum Capacity (Incl. Steel Connecting Lines)	\$/day 60.00	0	0
A6	Tubing Work String (2 3/8-inch) Rental	\$/ft/day 0.20	0	0
A7	Standby Time Including Crew and Support Equipment	\$/hr 150.00	0	0
B - CEMENTING SERVICES				
B1	Cement Pump Charge-Balanced Plug Including Circulating All Fluids and Pressure Testing	\$/plug 700.00	0	0
B2	Cement Pump Charge-Surface Plug Including Circulating All Fluids and Pressure Testing	\$/plug 600.00	1	600.00
B3	Pump Charge for Mixing Fluids; Well Circulating; and Pressure Testing – When Plug Not Set	\$/hr 30.00	1	30.00
B4	API Class G or H Cement – FOB Location	\$/sk 19.00	4	76.00
B5	API Class G Cement with 2 % CaCl – FOB Location	\$/sk 20.00	0	0
B6	Cement Retainers/Bridge Plugs – Mechanically Set: 1) Cement Retainer and, 2) Bridge Plug Note: Supply the manufacturer and model of the Cement Retainer/Bridge Plug used for each size and type.			
B6.1	<u>Manufacturer/Model</u>	SIZE: 4 1/2-inch	\$/each	
			1) 1140.00	0
			2) 1140.00	0
B6.2	<u>Manufacturer/Model</u>	SIZE: 5 1/2-inch	\$/each	
			1) 1160.00	0
			2) 1160.00	0
B6.3	<u>Manufacturer/Model</u>	SIZE: 6 5/8-inch	\$/each	
			1) 1510.00	0
			2) 1510.00	0
B6.4	<u>Manufacturer/Model</u>	SIZE: 7-inch	\$/each	
			1) 1510.00	0
			2) 1510.00	0
B6.5	<u>Manufacturer/Model</u>	SIZE: 7 5/8-inch	\$/each	
			1) 1740.00	0
			2) 1740.00	0
B6.6	<u>Manufacturer/Model</u>	SIZE: 8 5/8-inch	\$/each	
			1) 2410.00	0
			2) 2410.00	0
B6.7	<u>Manufacturer/Model</u>	SIZE: 9 5/8-inch	\$/each	
			1) 2540.00	0
			2) 2540.00	0
B6.8	<u>Manufacturer/Model</u>	SIZE: 10 3/4-inch	\$/each	
			1) 2820.00	0
			2) 2820.00	0

Orphan Well Cost Estimate

Item	Item Description	Unit Cost (FY04)	Quantity	Subtotal
C - WIRELINE SERVICES				
C1	Travel to/from Location Including Crew Wages and Vehicle	\$/mi 2.50	600	1500.00
C2	Annular Squeeze Perfs: HCS – 3 1/8-inch or 4-inch, 3 Holes Add'l Holes	\$/event 750.00	0	0
C3	Annular Squeeze Perfs: Bi-Wire – 1 11/16-inch or 2 1/8-inch, 2 or 4 Holes Add'l Holes	\$/event 700.00	0	0
C4	Jet Cut Casing – 1) 4 1/2-inch through 7-inch 2) Jet Cut Tubing – 4 1/2-inch through 7-inch	\$/event 900.00	0	0
C5	Jet Cut Shot of Casing Collar w/Petrogel or Approved Equal	\$/event 650.00	0	0
C6	Free Point Determination	\$/event 1400.00	0	0
C7	Mast Truck with Driver	\$/hr 60.00		
C8	Depth Charge for Gage Rings, Junk Basket, and Bridge Plugs Minimum Charge	\$/ft 0.15	0	0
C9	Cement Retainers/Bridge Plugs – Wireline Set: 1) Cement Retainer; and, 2) Bridge Plug Note: Supply the manufacturer and model of the Cement Retainer/Bridge Plug used for each size and type			
C9.1	<i>Manufacturer/Model</i>	SIZE: 4 1/2-inch	\$/each	
		1) 935.00	0	0
		2) 740.00	0	0
C9.2	<i>Manufacturer/Model</i>	SIZE: 5 1/2-inch	\$/each	
		1) 935.00	0	0
		2) 810.00	0	0
C9.3	<i>Manufacturer/Model</i>	SIZE: 6 5/8-inch	\$/each	
		1) 1550.00	0	0
		2) 1250.00	0	0
C9.4	<i>Manufacturer/Model</i>	SIZE: 7-inch	\$/each	
		1) 1550.00	0	0
		2) 1250.00	0	0
C9.5	<i>Manufacturer/Model</i>	SIZE: 7 5/8-inch	\$/each	
		1) 1610.00	0	0
		2) 1440.00	0	0
D – TRANSPORTATION AND MISCELLANEOUS SERVICES				
D1	Winch Truck and Driver - Incl. Wages and Mileage	\$/hr 104.00	0	0
D2	Water Truck and Driver - Incl. Wages and Mileage	\$/hr 88.00	0	0
D3	Backhoe w/ Driver and Helper Incl. Wages and Mileage	\$/hr 124.00	2	248.00
D4	Single Axle Truck w/ Driver - Incl. Wages and Mileage	\$/hr 77.00	0	0

Orphan Well Cost Estimate

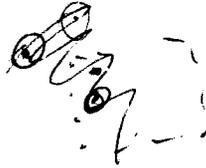
Item	Item Description	Unit Cost (FY04)	Quantity	Subtotal
D5	Vacuum Truck with Driver – Incl. Wages and Mileage	\$/hr 88.00	0	0
D6	Hot Oiler – Incl. Equipment, Labor and Mileage	\$/hr 88.00	0	0
D7	Welder – Incl. Equipment, Labor and Mileage	\$/hr 55.00	4	220.00
D8	P&A Marker - Complete per State of Utah Specifications	\$/each 210.00	1	210.00
D9	Non-Corrosive Spacer Fluid for placement between plugs-Description: _____	\$/bbl 7.00	0	0
D10	Per Diem Incl. Room and Board	\$/man/day 85.00	6x1	510.00
E – THIRD PARTY CHARGES-Not accounted for above (Including but not limited to tool rentals (casing scraper, etc.); mud materials; chemicals not otherwise specified; and, well fluid disposal fees)-Please attach description and costs.				
E1	Third Party Charges	Total (\$) 0	% Markup 15	
F – OTHER ITEMS (Items not listed above necessary to do a Responsible job – Subject to State Approval)				
F1	Cement Pump Truck Mob/Wireline Mob	2.50/mile	600/0	1500.00
F2	Location Cleanup	500.00/event	1	500.00
F3	Hauling Equipment Left on Location	600.00/event	1	600.00
F4	Contingency	10%	6584.00	658.40
TOTAL			7,242.40	
NOTES: _____ Includes Mob Fee for Cement Truck and Crew _____				

(Brendal Federal #1)

File

TD = 4125' - Bridge off scale open

Surface set @ 1100'



Inspection

~~15" casing (11")?~~

7" casing (8"?)

TD = 15'

using 8" capacity = 3361 f/cf

$15 / (1.18 \times 3361) = 4 \text{ sx}$

1932

Sundry

TD 4125'

20" landed @ 27 1/2'

8" landed @ 2258'

12 1/2" landed @ 1124 1/2'

Water @ 990' } 1275', 3367', 3800'

Needs

Cement Truck

Procedure

1 day

M: P 4 sx cont,

4 hrs.,

cut offs weld Dry hole marks ✓

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: FEE
2. NAME OF OPERATOR: ORPHAN-NO RESPONSIBLE OPERATOR		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: CITY _____ STATE _____ ZIP _____		7. UNIT or CA AGREEMENT NAME:
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0400 FNL 1260 FEL		8. WELL NAME and NUMBER: BRENDLE FED 1
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NENE 9 22S 19E S		9. API NUMBER: 4301910683
COUNTY: GRAND		10. FIELD AND POOL, OR WILDCAT: WILDCAT
STATE: UTAH		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: 11/28/2007	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input checked="" type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

This well was plugged as part of the Orphan Well Plugging Program - Project 2008-01. Well was filled with cement from measured TD of 15' back to surface. See attached daily report for work done on November 28, 2007.

NAME (PLEASE PRINT) <u>Dustin K. Doucet</u>	TITLE <u>Petroleum Engineer</u>
SIGNATURE 	DATE <u>1/25/2008</u>

Digitally signed by Dustin K. Doucet
DN: cn=Dustin K. Doucet, o=Division of Oil, Gas and Mining,
ou=State of Utah, email=dustindoucet@utah.gov, c=US
Date: 2008.01.25 15:11:16 -0700

(This space for State use only)

VALLEY CITY (CRESCENT JUNCTION) WELLS
CRESCENT EAGLE #0, BRENDDEL FEDERAL #1
WELL PLUGGING COMPLETION
November 28, 2007 (FY 2008)

- 8:00 a.m. Pick up dry hole markers in Thompson Springs.
- 9:00 a.m. Arrive site call office. Drive path to wells.
- 10:30 a.m. Cement truck arrives.
- 10:05 a.m. Begin dropping cement into Crescent Eagle #0. Fills beyond 1.2 cu.yd. estimated. Water rises to surface. Hole was dry on November 6. Place dry hole marker, cement falls 1 foot. Move to Brendel.
- 10:20 a.m. At Brendel Federal #1. Begin dump, overfill, place dry hole marker.
- 10:25 a.m. Cement truck moves back to Crescent and dumps scraps remaining in truck. Brings cement to 1 foot again. Shovel all of spillage into hole as well.
- 11:10 a.m. Cement truck washed out, off site. Close gate.
- 4:00 p.m. Return to site to check on cement. Crescent Eagle #0 has fallen 3 feet. Brendel Federal #1 a few inches.

GPS on Crescent Eagle #0 (accurate to within 16 ft.)
UTM 602300
12S 4308215
Elev. 4772

GPS on Brendel Federal (accurate to within 17 ft.)
UTM 602357
12S 4308213
Elev. 4770

- 4:15 p.m. Close gate. Leave site for Salt Lake City.

*Helen Sadik-Macdonald, CPG
Engineering Services
Utah Division of Oil, Gas and Mining
November 29, 2007*