

Scout Report sent out	<input type="checkbox"/>
Noted in the NID File	<input type="checkbox"/>
Location map pinned	<input type="checkbox"/>
Approval or Disapproval Letter	<input type="checkbox"/>
Date Completed, P. & A, or operations suspended	<u>PEA</u> <u>POOR DECC</u>
Pin changed on location map	<input type="checkbox"/>
Affidavit and Record of A & P	<input type="checkbox"/>
Water Shut-Off Test	<input type="checkbox"/>
Gas-Oil Ratio Test	<input type="checkbox"/>
Well Log Filed	<input type="checkbox"/>

**FILE NOTATIONS**

Entered in NID File	_____	Checked by Chief	_____
Entered On S R Sheet	_____	Copy NID to Field Office	_____
Location Map Pinned	_____	Approval Letter	_____
Card Indexed	_____	Disapproval Letter	_____
IWR for State or Fee Land	_____		

**COMPLETION DATA:**

Date Well Completed	<u>1932</u>	Location Inspected	_____
OW _____	WW _____	Bond released	_____
TA _____		State of Fee Land	_____
GW _____	OS <u>A</u>		

**LOGS FILED**

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

u

State of Maryland

PW

UTAH OIL AND GAS CONSERVATION COMMISSION

WELL LOG \_\_\_\_\_ ELECTRIC LOGS \_\_\_\_\_ FILE X NO FILE \_\_\_\_\_

REMARKS: Gas shows: 1408-1625. It is known that the well has had three major blow outs since abandonment. The last of these in 1937 was plugged with 180 tons of cement. Top of the plug is possibly 5 to 8 feet below the head & since oil & gas leak through the plug this space is continuously full of oil & gas under low pressure.

DATE FILED Prior O&GCC

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

DRILLING APPROVED: 4-11-25 Source - USGS, J. Harstead, per. Comm. Quite possibly

SPOUDED IN: 4-25-25? this card refers to Mid West #1 Fed. Loc. 859' FSL

COMPLETED: & 585' FWL. TD also reported as 5280' from P.I.

INITIAL PRODUCTION: 1000BD, 90% oil

GRAVITY A. P. I. \_\_\_\_\_

GOR: \_\_\_\_\_

PRODUCING ZONES: \_\_\_\_\_

TOTAL DEPTH: \_\_\_\_\_

WELL ELEVATION: 3945' G. Est.

DATE ABANDONED: X 12-31-39 per BLM 2-4-91 NO PRODUCTION

FIELD OR DISTRICT: 3/86 Wildcat

COUNTY: Grand

WELL NO. SHAFFER #1

LOCATION: 370 11/30 FT. FROM ~~XX~~ (S) LINE, 620 9/16 FT. FROM ~~WEST~~ LINE. NE SE SEC 1 1/4-1/4 SEC. 31

Full 16 1/2

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR
------	------	------	----------	------	------	------	----------

<u>26 S</u>	<u>21 E</u>	<u>31</u>	MIDWEST & UTAH SOUTHERN OIL CO.				
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UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS: Good showing of oil at 2024'. Tested by Utah Southern Oil in fall of 1927 but not made commercial. May 1939 - work under Fed. Project OP 752-05-139B-1, of cleaning out cellar to make examination of wellhead fittings to determine where oil & gas were leaking, commenced May 16 & was compld 5-26-39. Project required 164 man-hours.

\* Per T.M. 2-4-91

*see file*

WELL RECORD CHART

DATE FILED Prior O&GCC

LAND: FEE & PATENTED STATE LEASE NO. PUBLIC LEASE NO. U-026375 INDIAN

DRILLING APPROVED: --

SPUDED IN: \* 1-30-25 4-11-25

COMPLETED: \* 3-21-27

*see log # 1 - 1st well drilled in time  
G.E. Conrad all strata*

INITIAL PRODUCTION:

GRAVITY A. P. I.

\* NO PRODUCTION

GOR:

PRODUCING ZONES:

TOTAL DEPTH: 5000' Paradox *also reported from 2000' to 5000'*

WELL ELEVATION: 3944'

DATE ABANDONED: \* 11-27-29

FIELD OR DISTRICT: ~~Gone Creek~~ 3/86 Wildcat

COUNTY: Grand

WELL NO. FEDERAL 1

API NO. 43-819-11581

LOCATION: 859 FT. FROM (S) LINE, 585 FT. FROM (W) LINE. C SW SW QUARTER - QUARTER SEC. 31

13

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR
				26 S	21 E	31	MIDWEST EXPLORATION CO.

29

Midwest #1 (SL. c) 21  
Shafter #1 4/15/92

Location

859' from S line & 585' from W line Lot 6  
sec. 31, T. 26 S., R. 21 E. NW 1/4 SW 1/4 sec

Drilling

Commenced 4-11-25, Finished 3-21-27

Total Depth

5000'

Casing

20" @ 70'; 15 1/2" @ 891' w/50 sx (did not hold);  
12 1/2" @ 1408' w/86 sx; 10" @ 2025' w/50 sx;  
8 1/2" @ 2024' w/100 sx; 6 1/4" @ 3272' w/60 sx;  
4 3/4" @ 3735' (rec. 2560')

Oil or Gas Zones

Oil Zones: <sup>Form 9-330</sup> 2022-2025' & <sup>(Gusher)</sup> 3640'-3650'

Gas pocket re-ported @ 4,980'

Plugged as follows in 1929

Shot hole between 2020 & 2030' with 52 sticks <sup>60% powder</sup> ~~dynamite~~. Dumped heavy mud. Dumped one barrel cement (60' barrel on bottom). Continued filling hole with mud & shot pipe @ intervals of 125' (24 sticks of powder in each shot) with last shot @ 1525'. Filled hole to 1452' w/ mud & put in solid bridge. Drove 300 lbs of lead wool on bridge & dumped 10 sks of cement on top. Filled with mud to surface cementing over top of all strings of casing.

Remarks

In August 1937 well started flowing oil & gas & then salt water. Leakage stopped by WPA (?) in 1939. Oil gushed from upper oil zone in 1925' & bar caught fire, & burned rig. Gusher height estimated @ 350'.

plugged w/ WPA funds - but leaks.



Casing record Midwest well No. 1, C SW $\frac{1}{4}$ SW $\frac{1}{4}$  31-269-21E.

20" - 70'

17 $\frac{1}{2}$ " - 891' cc w/50 sacks - did not hold

12 $\frac{1}{2}$ " - 1108' cc w/86 sacks

10" - 2025' cc w/50 sacks ) Collapsed at 1950' swaged &

8" - 2024' cc w/100 sacks ) drilled up to 2024'

6" - 3272' cc w/60 sacks

4 $\frac{1}{2}$ " - 3735' - recovered 2560'

### December 1939

"Well was abandoned as follows: Shot hole between 2020 and 2030' with 52 sticks 60% powder, then started dumping mud using mud just as heavy as possible to dump with bailer, 10 $\frac{1}{2}$  pounds or better, also dumped one bailer cement, 60' bailer, at bottom. Continued filling hole with mud as above and shep pipe at intervals of 125 feet using 24 sticks of above mentioned powder in each shot, last shot at 1525'. Filled hole to 1452' with mud and put in solid bridge, then drove 300 pounds of lead wool on top of bridge to stop any agitation and dumped 10 sacks of cement on top of same. Then filled hole with mud to surface, cementing over top of all strings of casing and embedded 4" iron pipe in cement which stands at least 4' above surface. Left all casing in hole."

Well later began leaking gas and oil, and in May and June 1939 it was plugged with W.P.A. funds at a cost of \$157.32, as follows:

"Work of cleaning out cellar to make an examination of wellhead fittings to determine points where oil and gas leakages were occurring commenced May 16, 1939, under Federal Project. Junk, wire line and cement were removed and cellar cleaned out to original depth of approximately 14 feet below ground level. Oil, gas and water were found to be leaking through a one-inch pipe cemented in top of 6 $\frac{1}{2}$ " casing; oil and gas were found to be leaking through a one-inch pipe cemented in annular space between the 15 $\frac{1}{2}$ " and 10" casings and through a side outlet on a bradenhead followed by salt water, through annular space between the 12 $\frac{1}{2}$ " casing and 20" conductor occurred when cleaning out cellar. A gage of 75 lbs. pressure was taken on side outlet to the bradenhead. All leakages of oil and gas were stopped, temporarily at least, cellar cribbed to surface and covered over with 2-inch boards solidly nailed down, on completion of the project. The cellar will be later filled in to eliminate as much as possible oil and gas hazards about the location. An examination of wellhead fittings made on June 7, 1939, showed about one barrel of oil in bottom of cellar, which probably came up between the conductor string and 15 $\frac{1}{2}$ " casing. All oil and gas leakages were found to be stopped."

*Verification  
made  
WPA  
log  
May*

31-268-21E N SW SW, Utah Southern Oil Co., F. Shafer #1 (S.L. 026-375). Ref. No. 1.

STATUS: P&A. T. D. 5000'. (Visited 8-18-37)

REMARKS: This well was abandoned in the latter part of 1929 and subsequent report of abandonment approved Nov. 27, 1929. The well started flowing oil and gas on August 14, 1937 apparently through annular space between six and eight strings and between eight and ten inch strings and through the six inch casing. After flowing clean oil for about one hour, estimates place the amount of clean oil produced as in excess of 100 barrels, the well started making salt water with the oil and continued to make oil, gas and water for about four or five hours when the pressure was exhausted. The well at time of visit was making eight to ten barrels of salt water with some gas and a show of oil through the six inch casing and some gas, estimated 1000 to 2000 cubic feet, through annular space between casings. The Utah Southern Oil Company has disclaimed any liability for reabandonment of the well and since the Cane Creek Oil Company is financially unable to do the work, the work will probably have to be done by the Government when funds are available.

CANE CREEK - Grand County

✓  
31-268-21E

?  
N SW SW, Utah Southern Oil Co., Frank Shafer #1,

(S.L. 026375). Ref. No. 1.

X STATUS: P&A - 5000'. (OCTOBER, 1938)

REMARKS: Approval for expenditure of P.W.A. funds not to exceed \$200, for the purpose of making examination of well-head conditions, has been received. The work will be done under Federal Project O.P. 752-05-139B-1X, and will consist of cleaning out cellar to original depth, or as much as may be necessary to determine channels through which oil, gas and water are escaping at the surface. The work will be done at the same time an inspection trip is made to the Cane Creek Oil Company well to witness shut-off test, and it is estimated it will require 25 man-days labor plus some additional expenditure for materials and tools.

CANE CREEK - Grand County

31-268-21E

OSW/SW, Utah Southern Oil Co., Frank Shafer #1

(S.L. 026375) Ref. No. 1

(NOVEMBER, 1938)

Corrected location.

X STATUS: P&A - 5000'. (Visited 11-30-38)

REMARKS: No work done on Federal Project O.P. 752-05-139B-1X in the cleaning out of cellar and making an examination

of the well-head during the month.

CANE CREEK - Grand County

31-26S-21E C SW $\frac{1}{4}$ SW $\frac{1}{4}$ , Utah Southern Oil Co., Frank Shafer #1 (S.L. 026375)

Ref. No. 1. (DECLARED, 1939)

X STATUS: P&A - 5,000'.

REMARKS: No work done on Federal Project O.F. 752-05-139B-1X in the cleaning out of cellar and making an examination of wellhead fittings during the month. Will omit from future reports until repair work is commenced.

CANE CREEK - Grand County

31-26S-21E C SW $\frac{1}{4}$ SW $\frac{1}{4}$ , Midwest Exploration Company-Utah Southern Oil

(MAY, 1939) Company, well No. 1, (S.L. 026375), Ref. No. 1.

X STATUS: P&A - 5000'. (Visited 5/16-5/26-39).

REMARKS: Work of cleaning out cellar to make an examination of wellhead fittings to determine points where oil and gas leakages were occurring commenced May 16 and was completed May 26, 1939, under Federal Project O.P. 752-05-139B-1. Junk, wire line and cement were removed and cellar cleaned out to original depth of approximately 14 feet below ground level. Oil, gas and water were found to be leaking through a one-inch pipe cemented in top of 6 $\frac{1}{2}$ " casing; oil and gas were found to be leaking through a one-inch pipe cemented in annular space between 10" and 6 $\frac{1}{2}$ " casings and through a

(CONTINUED ON NEXT SHEET)

side outlet on a bradenhead between the 15 $\frac{1}{2}$ " and 10" casings. A flow of oil, estimated at five barrels, followed by salt water, through annular space between the 12 $\frac{1}{2}$ " casing and 20" conductor occurred when cleaning out cellar. A gage of 75 lbs. pressure was taken on side outlet to the bradenhead. All leakages of oil and gas were stopped, temporarily at least, cellar cribbed to surface and covered over with 2-inch boards solidly nailed down, on completion of the project. The cellar will be later filled in to eliminate as much as possible oil and gas hazards about the location.

CANE CREEK - Grand County

31-268-21E C SW $\frac{1}{4}$ SW $\frac{1}{4}$ , Midwest Exploration Company-Utah Southern Oil Company, Well #1 (S.L. 026375). Ref. No. 1.

STATUS: P&A - 5000'. (Visited 6-7-39). (JUNE, 1939)

REMARKS: An examination of wellhead fittings made on June 7 showed about one barrel of oil in bottom of cellar, which probably came up between the conductor string and the 15 $\frac{1}{2}$ " casing. Gas and oil leakages mentioned in May report were found to be stopped. Material and labor costs in making an examination at this well, under Federal Project O.P. 752-05-159B-1, inadvertently omitted from the May report, are as follows: 164 man-hours of unskilled labor were required at a cost of \$125.00; the material cost, including lumber, tanks, and nails, amounted to \$51.00.

UTAH SOUTHERN OIL COMPANY

FORMATION RECORD \* J. L. SHAFER WELL

<u>From</u>	<u>To</u>	<u>Total Feet</u>	<u>Formation</u>
4125	4198	71	Salt.
4198	4198	2	Hard shell.
4198	4228	30	Salt.
4228	4230	2	Shell.
4230	4272	42	Salt.
4272	4300	28	Gypsum with sandy shale.
4300	4302	2	Hard shell - show of gas.
4302	4329	27	Gray sandy shale with gypsum.
4329	4335	6	Gray shale.
4335	4345	10	Salt.
4345	4358	13	Black shale with streaks of iron pyrites at 4357'.
4358	4360	2	Black shale.
4360	4375	15	Salt.
4375	4396	21	Black shale.
4396	4450	54	Salt.
4450	4485	15	Gray sandy shale.
4485	4508	43	Gray sandy shale and salt.
4508	4520	12	Salt.
4520	4530	10	Gray sandy shale.
4530	4539	9	Salt, gypsum and sand.
4539	4552	13	Salt.
4552	4565	13	Gray sandy shale.
4565	4580	15	Salt and shale.
4580	4586	6	Gray sandy shale.
4586	4588	2	Hard shell.
4588	4690	102	Salt.
4690	4700	10	Gray shale.
4700	4725	25	Salt - carrying shale.
4725	4735	10	Gray shale.
4735	4735	30	Salt.
4735	4780	15	Gray shale.
4780	4860	70	Salt.
4860	4918	66	Black sandy shale.
4918	4948	32	Salt.
4948	4949	1	Hard shell - slight show of oil
4949	4951	2	Salt carrying gypsum.
4951	5000	49	Salt.
	5000		Total Depth Shut down March 11, 1927.

FOUNDATION BULLETIN NO. 10, SHARPEY, MISS. 1911

No.	No.	Total feet	Description
187	897	1	Gray limestone.
188	898	17	Gray sandy shale.
189	899	10	Gray shale.
190	900	17	Gray sandy limestone.
191	901	17	Gray sandy limestone.
192	902	17	Gray sandy limestone.
193	903	17	Gray sandy limestone.
194	904	17	Gray sandy limestone.
195	905	17	Gray sandy limestone.
196	906	17	Gray sandy limestone.
197	907	17	Gray sandy limestone.
198	908	17	Gray sandy limestone.
199	909	17	Gray sandy limestone.
200	910	17	Gray sandy limestone.
201	911	17	Gray sandy limestone.
202	912	17	Gray sandy limestone.
203	913	17	Gray sandy limestone.
204	914	17	Gray sandy limestone.
205	915	17	Gray sandy limestone.
206	916	17	Gray sandy limestone.
207	917	17	Gray sandy limestone.
208	918	17	Gray sandy limestone.
209	919	17	Gray sandy limestone.
210	920	17	Gray sandy limestone.
211	921	17	Gray sandy limestone.
212	922	17	Gray sandy limestone.
213	923	17	Gray sandy limestone.
214	924	17	Gray sandy limestone.
215	925	17	Gray sandy limestone.
216	926	17	Gray sandy limestone.
217	927	17	Gray sandy limestone.
218	928	17	Gray sandy limestone.
219	929	17	Gray sandy limestone.
220	930	17	Gray sandy limestone.
221	931	17	Gray sandy limestone.
222	932	17	Gray sandy limestone.
223	933	17	Gray sandy limestone.
224	934	17	Gray sandy limestone.
225	935	17	Gray sandy limestone.
226	936	17	Gray sandy limestone.
227	937	17	Gray sandy limestone.
228	938	17	Gray sandy limestone.
229	939	17	Gray sandy limestone.
230	940	17	Gray sandy limestone.
231	941	17	Gray sandy limestone.
232	942	17	Gray sandy limestone.
233	943	17	Gray sandy limestone.
234	944	17	Gray sandy limestone.
235	945	17	Gray sandy limestone.
236	946	17	Gray sandy limestone.
237	947	17	Gray sandy limestone.
238	948	17	Gray sandy limestone.
239	949	17	Gray sandy limestone.
240	950	17	Gray sandy limestone.
241	951	17	Gray sandy limestone.
242	952	17	Gray sandy limestone.
243	953	17	Gray sandy limestone.
244	954	17	Gray sandy limestone.
245	955	17	Gray sandy limestone.
246	956	17	Gray sandy limestone.
247	957	17	Gray sandy limestone.
248	958	17	Gray sandy limestone.
249	959	17	Gray sandy limestone.
250	960	17	Gray sandy limestone.
251	961	17	Gray sandy limestone.
252	962	17	Gray sandy limestone.
253	963	17	Gray sandy limestone.
254	964	17	Gray sandy limestone.
255	965	17	Gray sandy limestone.
256	966	17	Gray sandy limestone.
257	967	17	Gray sandy limestone.
258	968	17	Gray sandy limestone.
259	969	17	Gray sandy limestone.
260	970	17	Gray sandy limestone.
261	971	17	Gray sandy limestone.
262	972	17	Gray sandy limestone.
263	973	17	Gray sandy limestone.
264	974	17	Gray sandy limestone.
265	975	17	Gray sandy limestone.
266	976	17	Gray sandy limestone.
267	977	17	Gray sandy limestone.
268	978	17	Gray sandy limestone.
269	979	17	Gray sandy limestone.
270	980	17	Gray sandy limestone.
271	981	17	Gray sandy limestone.
272	982	17	Gray sandy limestone.
273	983	17	Gray sandy limestone.
274	984	17	Gray sandy limestone.
275	985	17	Gray sandy limestone.
276	986	17	Gray sandy limestone.
277	987	17	Gray sandy limestone.
278	988	17	Gray sandy limestone.
279	989	17	Gray sandy limestone.
280	990	17	Gray sandy limestone.
281	991	17	Gray sandy limestone.
282	992	17	Gray sandy limestone.
283	993	17	Gray sandy limestone.
284	994	17	Gray sandy limestone.
285	995	17	Gray sandy limestone.
286	996	17	Gray sandy limestone.
287	997	17	Gray sandy limestone.
288	998	17	Gray sandy limestone.
289	999	17	Gray sandy limestone.
290	1000	17	Gray sandy limestone.

POOR COPY

POOR COPY

1370	1315	11	Brown shale.
1371	1316	7	Black lime.
1372	1317	3	Blue shale.
1373	1318	7	Gray lime.
1374	1319	32	Gray shale.
1375	1320	12	Blue shale.
1376	1321	8	(Gray lime.
1377	1322	2	White formation (pale, chalk or gyp).
1378	1323	2	Gray shale.
1379	1324	12	Gray lime - show of gas thru hole full of water.
1380	1325	10	Made some gas after drilling out plugs at 1300'.
1381	1326	7	Brown lime.
1382	1327	19	Brown shale.
1383	1328	1	Black shale.
1384	1329	14	Shell.
1385	1330	11	Shale and sand.
1386	1331	11	Gray shale - slightly sandy.
1387	1332	11	Gray lime - with streaks of gypsum.
1388	1333	11	Gray lime.
1389	1334	5	Gray shale.
1390	1335	12	Gray lime - showing salt.
1391	1336	12	Shale.
1392	1337	12	Salt, lime and shale.
1393	1338	12	Gray lime.
1394	1339	12	Gray shale.
1395	1340	12	Gray lime.
1396	1341	12	Salt.
1397	1342	12	Gray lime shale.
1398	1343	12	Gray shale.
1399	1344	12	Some show gas at 1340 with slight show of oil.
1400	1345	12	Alternating beds of sand, shale, salt and a little
1401	1346	12	lime. Good shell at 1325 with 500 bbl. flow of
1402	1347	12	water on top of shell.
1403	1348	12	Formation of oil and gas flooded at 1325 and rig
1404	1349	12	showed down.



DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Land Office Salt Lake City  
Serial Number 026375  
Lease or Permit Permit

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	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	<b>X</b>

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

June 1, 1939

Following is a ~~notice of intention to do work~~ report of work done on land under ~~lease~~ permit described as follows:

Utah

Grand

Cane Creek

(State or Territory)

(County or Subdivision)

(Field)

Well No. 1 C SW $\frac{1}{4}$  SW $\frac{1}{4}$  sec. 31 26 S., 21 E. S. L. M.  
( $\frac{1}{4}$  Sec. and Sec. No.) (Twp.) (Range) (Meridian)

The well is located 859 ft. N of S line and 585 ft. E of W line of sec. 31

The elevation of the derrick floor above sea level is 3944 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.)

Summary of work done on this well under Federal Project O.P. 752-05-1309-1

Work commenced May 16, 1939 and was completed May 26, 1939. Junk, wire line, and mask were removed from cellar and cellar cleaned out to original depth of about 14' below ground level. Well made flows oil and gas through a 1" pipe cemented in annular space between 6 $\frac{1}{2}$ " and 10" casings, through a side outlet to bradenhead between 15 $\frac{1}{2}$ " and 10" casings, and flows of oil, gas, and water through a 1" pipe cemented in top of 6 $\frac{1}{2}$ " and through annular space between 15 $\frac{1}{2}$ " casing and 20" conductor. Cellar cribbed to ground level, filled behind cribbing, covered at surface with 2" boards tightly nailed down, and fence placed about cellar for protection. Oil, gas and water leakages shut in at time of completion of work.

COST OF PROJECT:

Labor - 136 hrs @ \$0.75, 28 hrs @ \$0.85	\$ 125.80
Materials - Lumber \$24.94, Tools \$4.20, Misc. \$2.20	\$1,52
	<u>\$ 157.32</u>

Approved as a matter of record

(Date) June 1, 1939

Company

By Midwest Exploration Co.

Title District Engineer

Title

Address

306 Federal Bldg. SURVEY  
Salt Lake City, Utah.

Address

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

<u>Formation</u>	<u>Top</u>	<u>Bottom</u>
Gypsum carrying fine sandy shale	4272	4300
Hard shell - gas showing	4300	4302
Gray sandy shale	4302	4329
Gray shale	4329	4335
Salt	4335	4345
Black shale - pyrite at 4350	4345	4358
Black muddy shale	4358	4360
Salt	4360	4375
Black shale, cavy	4375	4396
Fine white salt	4396	4450
Dark gray sandy shale	4450	4465
Gray shaly sand	4465	4508
Gray sandy shale	4508	4530
Salt and gypsum	4530	4539
Salt	4539	4552
Dark gray sandy shale	4552	4565
Salt and Shale	4565	4580
Gray sandy shale	4580	4586
Hard shale	4586	4588
Salt	4588	4595
Salt	4595	4630
Salt carrying sandy shale	4630	4640
Salt carrying black shale	4640	4675
Salt carrying black oily shale	4675	4690
Dark gray shale	4690	4700
Salt, carrying, muddy shale	4700	4725
Dark gray muddy shale	4725	4735
Salt	4735	4765
Dark gray shale	4765	4780
Fine white salt	4780	4805
Salt	4805	4850
Black sandy shale	4850	4865
Black muddy cavy shale	4865	4890
Black gritty shale	4890	4910
Black cavy shale	4910	4916
Salt	4916	4932
Salt carrying shale	4932	4948
Hard shell	4948	4949
Fine white salt	4949	4961
Salt - gas showing	4961	4975

POOR COPY

<u>Formation</u>	<u>Top</u>	<u>Bottom</u>
Shale, dark gray, muddy and sticky	2830	2852
Very hard shell	2852	2857
Salt	2857	2905
Salt, fine, some gypsum	2905	2970
Hard shell	2970	2972
Fine white salt	2972	2995
Salt and gypsum, very sticky and cavy	2995	3007
Lime shell	3007	3008
Black shale, soft, cavy	3008	3027
Gray shale	3027	3037
Salt, gray med, coarse	3037	3050
Salt, little gypsum	3050	3195
Salt, fine white	3195	3258
Black shale	3258	3342
Black shale	3342	3345
Salt	3345	3383
Hard lime shell	3383	3385
Gray sandy shale	3385	3391
Salt very coarse	3391	3409
Fine sand	3409	3413
Salt	3413	3422
Black shale	3422	3457
Gray sandy shale	3457	3514
Salt	3514	3622
Black shale	3622	3627
Porous sandy lime and shale, gray, gas pocket at 3628 and light show of oil.	3627	3633
Black cavy oily shale	3633	3642
Black shale	3642	3650
Gyp, little gray shale	3650	3661
Gypsum	3661	3670
Gray sandy shale	3670	3673
Salt	3673	3679
Gray sandy shale	3679	3682
Black sandy shale	3682	3688
fine white salt	3688	3853
Sandy fine shale	3853	3859
Sandy shale & gypsum	3859	3865
Black shale	3865	3887
Black shale & gypsum	3887	3892
Salt	3892	4057
Black shale	4057	4067
Hard shell—4066-7	4067	4075
Gypsum streak, sand & lime	4075	4125
Gypsum carrying, gray shale & FeS	4125	4196
Salt	4196	4198
Hard shell	4198	4228
Salt	4228	4230
Shell	4230	4272
Salt		

-6 1/2 - 3012  
60 SX Pak.  
mud, with  
S.O.

+ 3 1/4 added  
left in  
2500+

31-263-21E N SW SW, Utah Southern Oil Co., F. Shafer #1 (S.L. 026-375). Ref. No. 1.

STATUS: P&A. T. D. 5000'. (Visited 8-18-37)

REMARKS: This well was abandoned in the latter part of 1929 and subsequent report of abandonment approved Nov. 27, 1929. The well started flowing oil and gas on August 14, 1937 apparently through annular space between six and eight strings and between eight and ten inch strings and through the six inch casing. After flowing clean oil for about one hour, estimates place the amount of clean oil produced as in excess of 100 barrels, the well started making salt water with the oil and continued to make oil, gas and water for about four or five hours when the pressure was exhausted. The well at time of visit was making eight to ten barrels of salt water with some gas and a show of oil through the six inch casing and some gas, estimated 1000 to 2000 cubic feet, through annular space between casings. The Utah Southern Oil Company has disclaimed any liability for reabandonment of the well and since the Cane Creek Oil Company is financially unable to do the work, the work will probably have to be done by the Government when funds are available.

✓  
31-26S-21E

?  
CANE CREEK - Grand County  
?  
N SW SW, Utah Southern Oil Co., Frank Shafer #1,  
(S.L. 026375). Ref. No. 1.

X STATUS: P&A - 5000'. (OCTOBER, 1938)

REMARKS: Approval for expenditure of P.W.A. funds not to exceed \$200, for the purpose of making examination of well-head conditions, has been received. The work will be done under Federal Project O.P. 752-05-139B-1X, and will consist of cleaning out cellar to original depth, or as much as may be necessary to determine channels through which oil, gas and water are escaping at the surface. The work will be done at the same time an inspection trip is made to the Cane Creek Oil Company well to witness shut-off test, and it is estimated it will require 25 man-days labor plus some additional expenditure for materials and tools.

31-26S-21E

CANE CREEK - Grand County  
CSW~~SW~~<sup>SW</sup> 1/4, Utah Southern Oil Co., Frank Shafer #1

(S.L. 026375) Ref. No. 1

(NOVEMBER, 1938)

\*Corrected location.

X STATUS: P&A - 5000'. (Visited 11-30-38)

REMARKS: No work done on Federal Project O.P. 752-05-139B-1X in the cleaning out of cellar and making an examination of wellhead fittings during the month.

CANE CREEK - Grand County

31-26S-21E C SW $\frac{1}{4}$ SW $\frac{1}{4}$ , Utah Southern Oil Co., Frank Shafer #1 (S.L. 026375)

Ref. No. 1. (DECEMBER, 1938)

X STATUS: P&A - 5,000'.

REMARKS: No work done on Federal Project O.F. 752-05-139B-1X in the cleaning out of cellar and making an examination of wellhead fittings during the month. Will omit from future reports until repair work is commenced.

CANE CREEK - Grand County

31-26S-21E C SW $\frac{1}{4}$ SW $\frac{1}{4}$ , Midwest Exploration Company-Utah Southern Oil

(MAY, 1939) Company, well No. 1, (S.L. 026375), Ref. No. 1.

X STATUS: P&A - 5000'. (Visited 5/16-5/26-39).

REMARKS: Work of cleaning out cellar to make an examination of wellhead fittings to determine points where oil and gas leakages were occurring commenced May 16 and was completed May 26, 1939, under Federal Project O.P. 752-05-139B-1. Junk, wire line and cement were removed and cellar cleaned out to original depth of approximately 14 feet below ground level. Oil, gas and water were found to be leaking through a one-inch pipe cemented in top of 6 $\frac{1}{4}$ " casing; oil and gas were found to be leaking through a one-inch pipe cemented in annular space between 10" and 6 $\frac{1}{4}$ " casings and through a

(CONTINUED ON NEXT SHEET)

side outlet on a bradenhead between the 15 $\frac{1}{2}$ " and 10" casings. A flow of oil, estimated at five barrels, followed by salt water, through annular space between the 12 $\frac{1}{2}$ " casing and 20" conductor occurred when cleaning out cellar. A gage of 75 lbs. pressure was taken on side outlet to the bradenhead. All leakages of oil and gas were stopped, temporarily at least, cellar cribbed to surface and covered over with 2-inch boards solidly nailed down, on completion of the project. The cellar will be later filled in to eliminate as much as possible oil and gas hazards about the location.

CANE CREEK - Grand County

51-268-21E

C SW $\frac{1}{4}$ SW $\frac{1}{4}$ , Midwest Exploration Company-Utah Southern Oil Company, Well #1 (S.L. 026375). Ref. No. 1.

STATUS: P&A - 5000'. (Visited 6-7-39). (JUNE, 1939)

REMARKS: An examination of wellhead fittings made on June 7 showed about one barrel of oil in bottom of cellar, which probably came up between the conductor string and the 15 $\frac{1}{2}$ " casing. Gas and oil leakages mentioned in May report were found to be stopped. Material and labor costs in making an examination at this well, under Federal Project O.P. 752-05-139B-1, inadvertently omitted from the May report, are as follows: 164 man-hours of un-

skilled labor were required at a cost of \$128.00; the

materials used, including lumber, nails, and gas, accounted for \$51.00.

Jack -

The attached is copy of a report submitted by Neane Landall to Mason's stockholders giving the histories of the Cone Creek Wells.

I grabbed copies to fill our files.

Don Russell might like a copy, too.

Please print me a personal copy, also.

Doc

Dunt 4/9/59

DUANE C. RANDALL  
CONSULTING GEOLOGIST

POST OFFICE BOX 66  
MOAB, UTAH

Midwest and Utah Southern Shafer #1  
El. 3945 Gr Est.

970 N of SL 620 W of KL  
Sec. 31, T26S R21E E of W Line

Data obtained from Moab Times Independent Files:

see document in Mason #1  
file (43019 10038), also by Mr. Randall.  
First sentence says Mason #1 is 50' from "Old  
Midwest Well" *AK*

The rig and equipment was moved to location by horse drawn sleighs over the frozen Colorado River. The well was spudded April 25, 1925 and drilling proceeded with gas shows at 1408 and 1625. A string of 15 1/2" casing was set at 1408 and cemented with 100 sacks. A second string of 10" was run to 1408 and later underreamed and lowered to 1990 following oil and gas shows from 1990 to 2028. Well blew out Dec. 8 immediately following lowering of casing. The oil became ignited immediately and burned for 10 hours. A control head was installed but well continued to flow through annulus. The volume of flow was estimated variously up to 32,000 B.D. with heads that could be seen above cliff approximately 300 feet above surface. The 10" casing was cemented, presumably at 1990, but collapsed when plug was drilled. While swedging the well blew out through the annulus. Ran 8 1/2" casing and cemented at 2024 with 100 sacks. When plug was drilled the well flowed at an estimated 2000 B.D. rate. The record is confused but it appears that water came in and it is stated that base of water was 2020 and top of oil 2024. Casing was recemented with 9 sacks which did not effect a water shut off as water and oil flow estimated at 1400 B.D.

A string of 6 1/2" casing was then run with no shut off. Pulled and rerun with a packer. The well was bailed to 700 and water broke in. The well was deepened to 2031, again bailed to 700 and water flowed. Pressure dropped in annulus. The 6 1/2" was pulled and the well swabbed in 8 1/2". It started flowing in 5 hours with about 65% oil and at a rate of 25 BPH. By the third day it was flowing 80' in air having broken the 3" flow line. By the 6th day it was flowing over the top of the derrick at a rate of 1000 BD, 90% oil.

The oil flow was shut off (How?) and drilling started again. It had flowed for 6 months and last gauge was still 1000 BD.

The well was drilled through salt and shale to 3272 where 6 1/2" casing was set and cemented with 75 sacks. An oil sand was penetrated at 3623 with 300 feet of fill up. A 4 3/4" casing was run but no test was made. Maximum fill up 800 feet. Sandy shale was reported 3623-48, oil shale to 3651, gypsum to 3661. Drilling started again and continued to 4876 where well blew out with oil flowing over the crown. Tools were blown up the hole and lodged about 3650'. After blow out oil stood 200 feet over fish. The 4 3/4" casing was pulled and an attempt was made to drill by the fish. This was successful and the well flowed at 6 to 8 BOPH while waiting on new string of 4 3/4". When it arrived it was run to 3740 and well was cleaned out running in to old cable. New cable parted leaving 2000 feet of cable and tools in hole. Fish was recovered and well cleaned/but well failed to come in and drilling suspended.  
to 4850

No attempt has been made to trace the history since then however it is known that the well has had three major blow outs since abandonment. The last of these in 1937 was plugged with 180 tons of cement. The top of the plug is possibly 5 to 8 feet below the head and since oil and gas leaks through the plug, this space is continuously full of oil and gas under low pressure. A Hempel Analysis was made on a sample taken in April of 1958, copy of which is attached.

Branch of Oil and Gas Operations  
416 Empire Building  
Salt Lake City 11, Utah

March 6, 1963

Subject: Abandoned well, Shafer #1  
Utah 0496, Cane Creek Area, Grand  
County, Utah. Your claim S-2944,  
Bond 26160

American Casualty Company  
6th & Washington  
Reading, Pennsylvania

Attention: William E. Cain

Gentlemen:

On February 28, we conferred with a representative of the Texas Gulf Sulfur Producing Company regarding the plugging of the wells in the Cane Creek area. Texas Gulf's concern is the protection of valuable potash deposits which were penetrated during the drilling of the wells. Their representative mentioned that they might be willing to contribute to the cost of plugging the wells and also that they might be willing to make arrangements to have the work done by a single contractor who would proceed directly from one well to another until all the wells were plugged. We would supervise each plugging operation.

We would approve a joint project for the plugging of the wells provided each well is to be plugged in accordance with a procedure approved by this office.

If interested, you could contact the following: James H. Ogg, Texas Gulf Sulfur Company, P. O. Box 248, Moab, Utah.

Please be advised that the bonding companies and not Texas Gulf are liable for the plugging of the wells and, in the event a joint project is initiated, we would cooperate with Texas Gulf as the representative of the bonding companies and not as the responsible party liable for the plugging of the wells.

Very truly yours,

(ORIG. SGD.) J. N. Harstead

J. N. Harstead,  
Acting District Engineer

cc: Texas Gulf  
State Oil & Gas Commission ✓

9-546  
 (AMERICAN SURVEY  
 GEOL. INST. 1932)  
**JUN 19 1939**  
 SALT LAKE CITY, UTAH  
 OIL & GAS LEASING DIVISION

DEPARTMENT OF THE INTERIOR  
 GEOLOGICAL SURVEY

*Salt Lake City  
 Office  
 Copy*

Laboratory - Midwest, Wyoming

INFORMATION TO BE FURNISHED WITH EACH SAMPLE OF CRUDE OIL  
 MARKS ON CONTAINER Gallon jug Lab. No. 39-031 (Filled by Chemist)  
 SOURCE OF SAMPLE:

Field Came Creek, Grand Co., Utah Farm or Permit 026375  
XXXX Salt Lake City 026375  
 Operator Midwest Exploration Co. Operator's Address Casper, Wyoming  
 (Serial Number)  
 Well No. 1 6 34 SW,  $\frac{1}{4}$  Sec. 31, T. 26 S, R. 20 E, M. S.L.N.

Sample taken by E. W. Henderson Date taken May 26, 1939

If known, name of sand (or formation) from which this sample is produced Doubtful  
 (If doubtful, so state)  
 Depth to top of sand 2022 or 2640 Depth to bottom of sand 2025 or 2650

Depth well drilled 5900 Present depth Abandoned

Depths (if known) where water encountered 2022, 70-82

Depth at which water string is landed, cemented, mudded 6 1/2", 8 1/2" and 10" casing shot  
at 125' intervals between 2025  
 METHOD OF SAMPLING: and 1535'

Place where sample was obtained (sump hole, lead line, flow tank, bailer, etc.)  
Sample bailed from sump after flowing approximately 5 bbls. of oil between 20" conductor  
and 15 1/2" casing.  
 Method of production (flowing, pumping, air, etc.) Oil leaking from abandoned well.

Initial production:	Present production:
Barrels Oil <u>Uncertain</u>	Barrels Oil <u>Leakage probably less than</u>
Barrels Water <u>"</u>	Barrels Water <u>one barrel a day.</u>
Gas Volume <u>"</u>	Gas Volume <u>Some water flowing from well.</u>
Rock Pressure <u>500</u>	Rock Pressure <u>Probably less than one bbl.</u>
	<u>- Not determined</u>
	<u>Rock pressure 75(?)</u>

- REASON FOR ANALYSIS:
- (1) Future reference:
  - (2) Reasonable determination of depth from which oil is coming after exp.
  - (3) Correlation: compare with previous analyses of wells from various depths.
  - (4) Suggest complete analysis be made and included with representative crude analyses.

Note: A sample for analysis is of no value unless accompanied by above information  
 Complete information on this form is to be attached to each sample container; other-  
 wise sample will be disregarded. Be sure to seal or tightly cork all containers  
 immediately after sampling and label all samples so that there will be no confusion.

CRUDE OIL ANALYSIS

Condition of sample ..... Laboratory No. **39-081**  
 Analysis by **J.G. Crawford** at **Midwest, Wyoming** date **6-17-30**

GENERAL CHARACTERISTICS

Specific Gravity **.843** A.P.I. gravity **28.4**  
 Per cent Sulphur **0.11%** Pour point **50° F.**  
 Saybolt Universal Viscosity at 100° F. **84** sec. Color: **Green**  
 B. S., mud and water (by centrifuge)

DISTILLATION, BUREAU OF MINES, HEMPEL METHOD

Dry Distillation Barometer **620** mm. First Drop: **115° C. (230° F.)**

Temperature °C.	Per cent cut	Sum per cent	Sp.Gr. of cut	°A.P.I. of cut	Viscosity at 100° F.	Cloud test °F.	Temperature °F.
Up to 50	--	--	--	--			Up to 122
50 - 75	--	--	--	--			122 - 167
75 - 100	--	--	--	--			167 - 212
100 - 125	<b>2.8</b>	<b>2.8</b>	<b>.748</b>	<b>57.7</b>			212 - 257
125 - 150	<b>5.1</b>	<b>7.9</b>	<b>.750</b>	<b>54.0</b>			257 - 302
150 - 175	<b>5.8</b>	<b>13.7</b>	<b>.772</b>	<b>51.8</b>			302 - 347
175 - 200	<b>6.8</b>	<b>20.5</b>	<b>.784</b>	<b>49.0</b>			347 - 392
200 - 225	<b>8.0</b>	<b>28.5</b>	<b>.794</b>	<b>46.7</b>			392 - 437
225 - 250	<b>8.6</b>	<b>37.1</b>	<b>.806</b>	<b>44.3</b>			437 - 482
250 - 275	<b>7.5</b>	<b>44.6</b>	<b>.818</b>	<b>41.5</b>			482 - 527

Vacuum distillation at 40 mm.

Up to 200	<b>2.5</b>	<b>2.5</b>	<b>.800</b>	<b>57.4</b>	<b>41</b>	<b>10</b>	Up to 392
200 - 225	<b>4.2</b>	<b>6.7</b>	<b>.848</b>	<b>55.4</b>	<b>45</b>	<b>30</b>	392 - 437
225 - 250	<b>6.7</b>	<b>13.4</b>	<b>.882</b>	<b>54.0</b>	<b>54</b>	<b>45</b>	437 - 482
250 - 275	<b>6.0</b>	<b>19.4</b>	<b>.882</b>	<b>52.7</b>	<b>75</b>	<b>60</b>	482 - 527
275 - 300	<b>6.8</b>	<b>26.2</b>	<b>.872</b>	<b>51.0</b>	<b>117</b>	<b>60</b>	527 - 572

Carbon residue of residuum **1.5%**

Carbon residue of crude **0.52%**

APPROXIMATE SUMMARY

	Per cent	Sp.Gr.	°A.P.I.	Viscosity
Light gasoline	--	--	--	
Light gasoline and naphtha	<b>2.3</b>	<b>.750</b>	<b>58.5</b>	
Kerosene distillate	<b>20.4</b>	<b>.787</b>	<b>51.8</b>	
Gas oil	<b>9.2</b>	<b>.804</b>	<b>49.6</b>	Below 50
Nonviscous lubricating distillate	<b>13.1</b>	<b>.840-.857</b>	<b>35.4-51.7</b>	50-100
Medium lubricating distillate	<b>6.0</b>	<b>.857-.875</b>	<b>31.7-30.0</b>	100-200
Viscous lubricating distillate	--	--	--	
Residuum	<b>35.4</b>	<b>.880</b>	<b>24.2</b>	
Distillation loss	<b>0.2</b>	--	--	

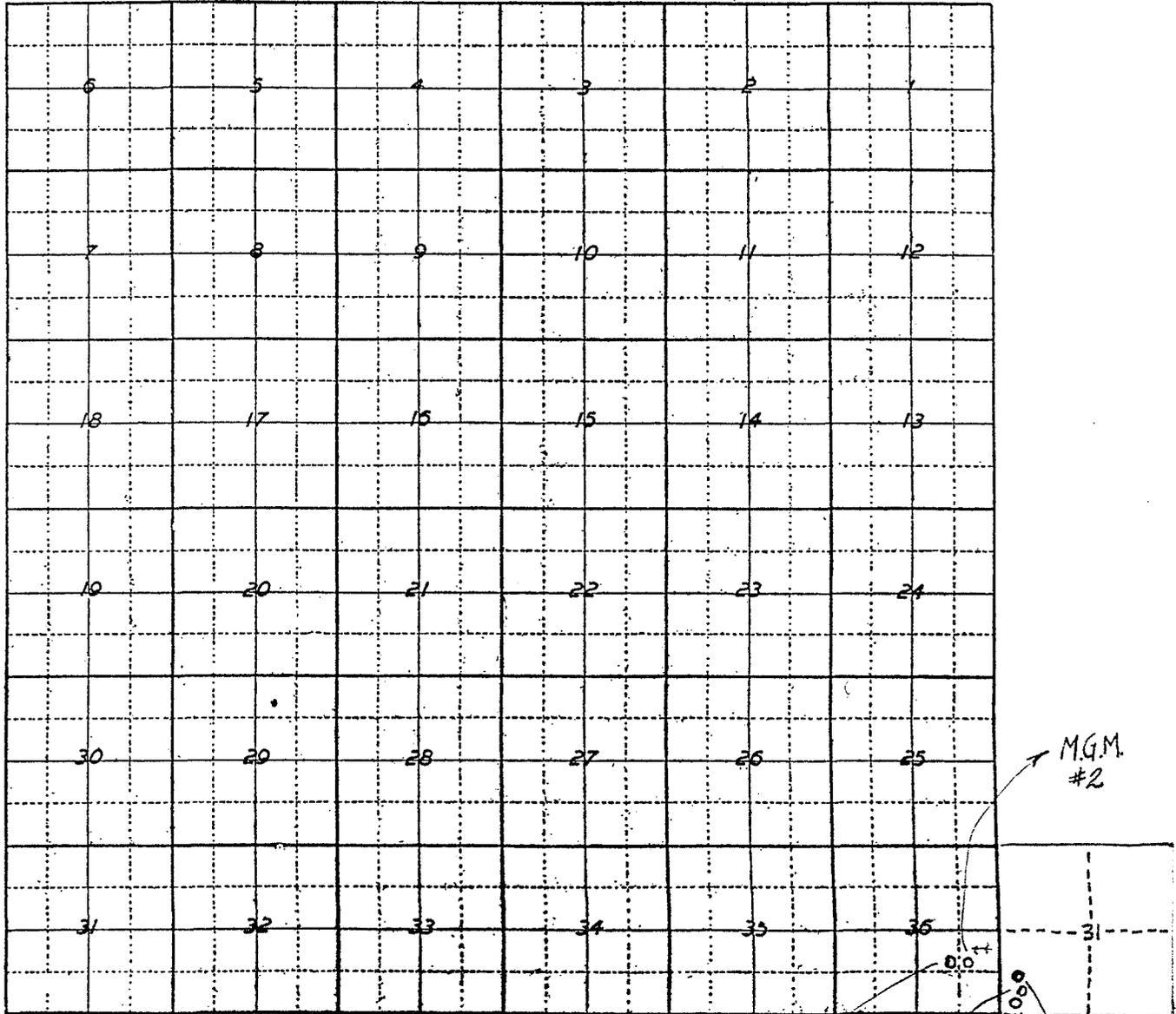
Base: Specific Gravity

# Cane Creek Wells.

Grand County.  
Range No.

M.G. Mason, Opr.  
Meridian.

Township No.



Shot from file for MGM #1 well  
(43-019-11301) 4/16/92

MGM #1  
Cane Cr. oil #1  
Americal #1  
Midwest Exp Co #1

Township 26<sup>50</sup> Range 20 & 21 East Meridian

SCALE 5280 FEET TO AN INCH

Tends to support 3 well hypothesis - no fourth well shown

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
OIL AND GAS INSPECTION RECORD

OPERATOR: MIDWEST & UTAH SOUTHERN OI LEASE: PUBLIC  
WELL NAME: SHAFER #1 API: 43-019-10729  
SEC/TWP/RNG: 31 26.0 S 21.0 E CONTRACTOR:  
COUNTY: GRAND FIELD NAME: WILDCAT

DRILLING/COMPLETION/WORKOVER:

<input type="checkbox"/> APD	<input type="checkbox"/> WELL SIGN	<input type="checkbox"/> HOUSEKEEPING	<input type="checkbox"/> BOPE
<input type="checkbox"/> SAFETY	<input type="checkbox"/> POLLUTION CNTL	<input type="checkbox"/> SURFACE USE	<input type="checkbox"/> PITS
<input type="checkbox"/> OPERATIONS	<input type="checkbox"/> OTHER		

SHUT-IN \_ / TA \_:

<input type="checkbox"/> WELL SIGN	<input type="checkbox"/> HOUSEKEEPING	<input type="checkbox"/> EQUIPMENT *	<input type="checkbox"/> SAFETY
<input type="checkbox"/> OTHER			

ABANDONED:

<input type="checkbox"/> MARKER	<input type="checkbox"/> HOUSEKEEPING	<input type="checkbox"/> REHAB	<input type="checkbox"/> Y OTHER
---------------------------------	---------------------------------------	--------------------------------	----------------------------------

PRODUCTION:

<input type="checkbox"/> WELL SIGN	<input type="checkbox"/> HOUSEKEEPING	<input type="checkbox"/> EQUIPMENT *	<input type="checkbox"/> FACILITIES *
<input type="checkbox"/> METERING *	<input type="checkbox"/> POLLUTION CNTL	<input type="checkbox"/> PITS	<input type="checkbox"/> DISPOSAL
<input type="checkbox"/> SECURITY	<input type="checkbox"/> SAFETY	<input type="checkbox"/> OTHER	

GAS DISPOSITION:

<input type="checkbox"/> VENTED/FLARED	<input type="checkbox"/> SOLD	<input type="checkbox"/> LEASE USE
--	-------------------------------	------------------------------------

LEGEND: Y = YES/SATISFACTORY N = NO/UNSATISFACTORY A = NOT APPLICABLE

\*FACILITIES INSPECTED:

REMARKS:

PER BLM RECORDS-PA AND REHAB COMPLETED.

ACTION:

INSPECTOR: JIM THOMPSON

DATE: 11/16/89