

27293

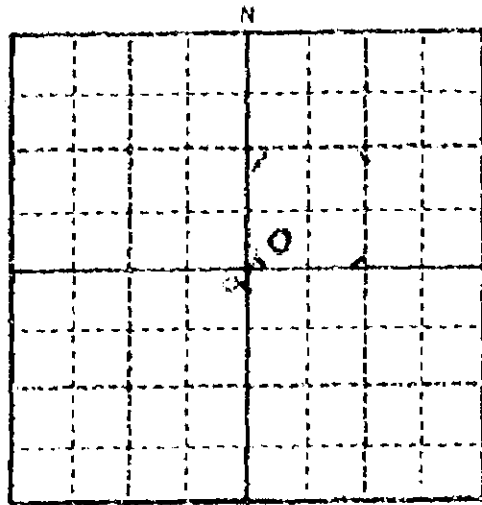
APPLICATION FOR PERMIT TO DRILL A WELL FOR OIL,  
GAS, GEOLOGICAL TEST, BRINE DISPOSAL, GAS OR  
L.P.G. STORAGE OR FOR SECONDARY RECOVERY

UNDER AUTHORITY OF ACT 61, P.A. OF 1939, AS AMENDED, AND ACT 326, P.A. 1937 AS AMENDED.

MAIL TO:  
SUPERVISOR OF WELLS  
GEOLOGICAL SURVEY  
MICHIGAN DEPARTMENT OF CONSERVATION  
LANSING, MICHIGAN 48926

CONS. 7107  
REV. 1/1/64

See Reverse Side Before Filling Out This Application



LOCATE WELL AND OUTLINE LEASE OR UNIT ON SECTION PLAT - 540 ACRES

1. APPLICATION TO DRILL A WELL FOR: <b>Oil &amp; Gas</b>	2. DATE <b>June 9, 1968</b>	3. FEE ENCLOSED <b>\$ 25.00</b>
4. LESSEE (OWNER OF LEASE RIGHTS) <b>Board &amp; Harmon and McClure Oil Company</b>		
5. PERMANENT ADDRESS <b>505 N. Riverside, St. Clair, Mich. 48079</b>		6. PHONE <b>329-4001</b>
7. LESSOR (FULL NAME OF OWNER OF MINERAL RIGHTS) <b>Rail Steel</b>		8. WELL NO. <b>1</b>
9. SURFACE OWNER (IF OTHER THAN MINERAL OWNER)		
10. DRILLING CONTRACTOR <b>North American Drilling Company</b>		
11. ADDRESS <b>1104 North Mission St. Mt. Pleasant, Mich.</b>		12. PHONE <b>773-3945</b>
13. <b>3N</b> 1/4 OF <b>3W</b> 1/4 OF <b>N5</b> 1/4 SECTION <b>2</b> T <b>5N</b> R <b>15E</b>		
14. ACRES IN LEASE OR UNIT (SPECIFY) <b>40 Acre Unit</b>	15. TOWNSHIP <b>Columbus</b>	16. COUNTY <b>St. Clair</b>

17. Locate well in two directions from nearest lines of quarter section and property ownership or unit lines

<b>330'</b> FT. FROM <b>South</b> LINE OF QUARTER SECTION (north-south)	<b>330'</b> FT. FROM <b>West</b> LINE OF QUARTER SECTION (east-west)
<b>330'</b> FT. FROM <b>South</b> (PROPERTY) (UNIT) LINE (north-south)	<b>330'</b> FT. FROM <b>West</b> (PROPERTY) (UNIT) LINE (east-west)

18. KIND OF TOOLS TO BE USED (Cable, rotary, combination) <b>Rotary</b>	19. WELL IS TO BE COMPLETED IN <b>Niagaran</b> FORMATION	20. INTENDED DEPTH OF WELL <b>3200'</b>
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21. PROGRAM OF CASING, SEALING, CEMENTING AND COMPLETING WELL  
**Set 8 5/8" surface pipe (approximately 550') and circulate cement; set 5" production casing and cement, perforate pay zone and acidize.**

CASING IS NOT TO BE STRIPPED FROM THE HOLE AND NO CHANGE IS TO BE MADE IN THE PROGRAM OUTLINED ABOVE WITHOUT APPROVAL OF THE SUPERVISOR OF WELLS OR HIS AUTHORIZED REPRESENTATIVE

22. ARE THERE ANY LAKES, STREAMS, DRAINAGE WAYS, SWAMPS, OR MARSHES NEARER THAN 300 FEET FROM WELL LOCATION? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	23. ARE THERE ANY BUILDINGS OR OTHER STRUCTURES WITHIN 75 FEET OF THE PROPOSED LOCATION? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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24. IF ANSWER TO No. 22 ABOVE IS Yes, DESCRIBE AND GIVE DISTANCE FROM LOCATION.

APPLICANT AGREES TO COMPLY WITH THE PROVISIONS OF ACT 61, PUBLIC ACTS OF 1939, AS AMENDED, AND ACT 326, PUBLIC ACTS OF 1937, AS AMENDED, AND RULES AND REGULATIONS PERTAINING TO THE LOCATING, DRILLING, CASING, SEALING, COMPLETING, PRODUCING, AND PLUGGING OF WELLS. BEFORE COMMENCING DRILLING OPERATIONS, CONTACT THE NEAREST FIELD OFFICE. (See reverse side)

25. ADDRESS CORRESPONDENCE AND PERMIT TO <b>Board &amp; Harmon 505 N. Riverside, St. Clair, Mich.</b>	26. PHONE <b>329-4001</b>
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DATE ISSUED <b>6-10-68</b>	27. OWNER OF LEASE RIGHTS <b>Board &amp; Harmon, McClure Oil Co.</b>
PERMIT NO. <b>27293</b>	28. AUTHORIZED REPRESENTATIVE <b>Joe Board</b>

FOR CASHIER'S USE ONLY - DO NOT WRITE IN THIS SPACE

- DISTRIBUTION
- 1. WHITE - LANSING
  - 2. CANARY - CASHIER
  - 3. BLUE - FIELD
  - 4. GOLDENROD - FIELD
  - 5. GREEN - APPLICANT

STATE OF MICHIGAN  
DEPARTMENT OF CONSERVATION No 9074  
SUPERVISOR OF WELLS

**PERMIT TO DRILL A WELL FOR OIL OR GAS**

(POST WHITE COPY OF PERMIT AT WELL LOCATION)

Permit No. 27293

Date Issued June 10, 1968

Permission is hereby granted to Beard and Harmon and McClure Oil Company  
Owner

505 N. Riverside, St. Clair, Michigan 48079  
Address

Lease Name Emil Stell Well Number One

To drill a well for Oil & Gas

in the SW $\frac{1}{4}$ , SW $\frac{1}{4}$ , NE $\frac{1}{4}$  of Sec. 2, T.5N., R.15E., Columbus Twp., St. Clair Co.

and located 330' from the south and 330' from the west line of quarter section

and located 330' from the south and 330' from the west unit line

This permit is issued subject to the provisions and requirements of Act 61, P. A. 1939 and Act No. 326, P. A. 1937, as amended, and rules, regulations, requirements, or orders issued by the Supervisor of Wells and Department of Conservation.

GERALD E. EDDY, SUPERVISOR OF WELLS

By Robert M. Acker

**SPECIAL REQUIREMENTS**

**NOTICE**

DRILLING PERMIT ISSUED on the basis of the drilling, casing and sealing program as outlined on the application for permit and subject to special requirements as set forth above. No change or alteration is to be made without the permission and approval of the Supervisor of Wells or his authorized representative.

DRILLING OPERATIONS ARE NOT TO BE COMMENCED until all the well location requirements have been completed and the permit has been posted in a conspicuous place at the well site.

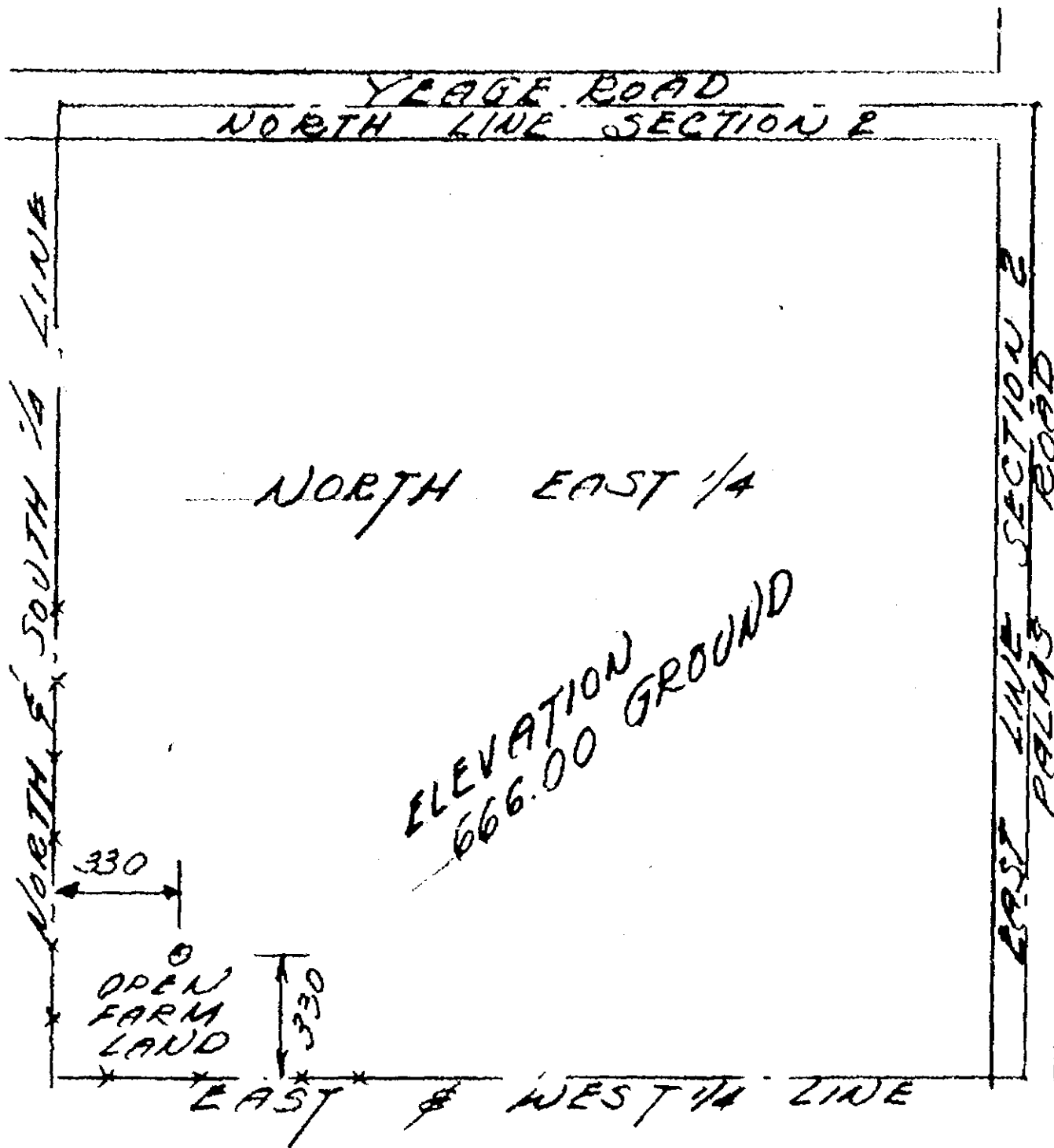
**DEPARTMENT OFFICES**

Lansing, Phone 517-373-1256  
Mount Pleasant, Phone 517-773-9965  
Cadillac, Phone 616-775-9728

Plainwell, Phone 616-685-8051  
Imlay City, Phone 313-724-7015  
Escanaba, Phone 906-786-0333

PERMITS MAY BE TRANSFERRED ONLY WITH THE PERMISSION OF  
THE SUPERVISOR OF WELLS



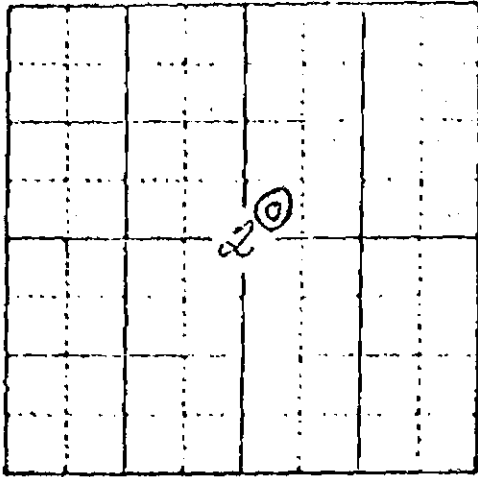


Emil Stell #1

South West 1/4 of South West 1/4 of North East 1/4, Sec. 2,  
T.5 N., R.15 E. Columbus Township, St. Clair County, Michigan.

For: Beard & Harmon &  
McClure Oil Company  
505 N. Riverside Drive  
St. Clair, Michigan

*Earl Phillips*  
Earl Phillips  
Reg. Land Surveyor  
Fair Haven, Michigan  
May 24, 1968



LOCATE WELL ACCURATELY

# LOG OF OIL, GAS OR TEST WELL

TO BE FILED WITH SUPERVISOR OF WELLS WITHIN 30 DAYS  
AFTER COMPLETION OF WELL (ACT 61 P. A. 1939  
AND ACT 326 P. A. 1937)

JUL 8 1968

Permit No. 27293 Deepening No. ....  
GEOLOGICAL SURVEY  
LANSING CITY, MICH.

Owner or Operator Beard & Harmon, McClure Oil Company

Address 505 N. Riverside, St. Clair, Michigan 48079

Well No. 1 Farm Emil Stell

Township Columbus County St. Clair

Location SW SW NE Sec. 2 Twp. 5N Range 15E Elevation 666' GR  
678' KB

Footage 330' ft. from South line and 330' ft. from West line of quarter section

Type of well Dry Hole Total depth 3176 Completed in Niagara  
(OIL, GAS, BRINE DISPOSAL, DRY HOLE)

Name of producing formation None Top of formation .....

Date drilling begun June 17, 1968 Date drilling completed June 26, 1968 Date well completed June 26, 1968

Drilling contractor North American Drlg. Co. Address 1104 N. Mission, Et. Pleasant, Mich.

### WATER ZONES

### OIL OR GAS ZONES

### DEVIATION SURVEY

NAME	FROM	TO	AMOUNT	NAME	FROM	TO	AMOUNT	RUN AT	DEGREES
				AIC	2958	2979	Show in Core		

### CASING AND CEMENTING

### STEEL LINES RUN

SIZE	WHERE SET	CEMENT	AMT. PULLED	RUN AT	CORRECTED TO	RUN BY
8 5/8"	565'	250Sx.	None	3176'	3173'	Schlumberger

### PERFORATIONS

### ACID OR SHOOTING RECORD

DATE	FROM	TO	NO. HOLES	DATE	FROM	TO	GALS. ACID OR QTS. NITRO

Rotary tools from Surface feet to 3176 feet. Cable tools from ..... feet to ..... feet.

Natural initial production first 24 hours None Bbls. After acid or shot ..... Bbls.

If gas well, cu ft. per 24 hours ..... Rock pressure, lbs. per sq. in. ....

The above information is complete and correct.

Signed Joe Beard

Date June 28, 1968

Title Geologist

BEARD & HARMON \* MOCURE OIL COMPANY EMIL STELL #1  
 SW SW NE Section 2, T5N, R15E, Columbus Twp., St. Clair Co., Mich.  
 GL 666' KB 678'

FROM	TO	FORMATION
0	185	Drift, sand & gravel
185	270	Shale, dark gray. Top Sunbury 185
270	330	Sandstone, gray. Top Berea 270
330	560	Shale, gray. Top Bedford 330
560	744	Shale, dark brown to black. Top Antrim 560
744	856	Dolomite and limestone, gray, fossiliferous, trace of chert. Top Traverse Lime 744
856	1030	Shale, gray
1030	1111	Limestone, brown, fossiliferous. Top Dundee 1030
1111	1174	Dolomite, tan, finely crystalline. Top Detroit River Dolomite 1111
1174	1322	Anhydrite, interbedded dolomite. Top Detroit River Anhydrite 1174
1322	1784	Dolomite, tan, very finely crystalline, traces of anhydrite throughout
1784	1882	Shale, gray, interbedded tan dolomite. Top Salina 1784
1882	2146	Salt, stringers of shale, anhydrite, and dolomite. Top "F" Salt 1882
2146	2234	Shale, gray, interbedded light brown dolomite and anhydrite. Top "E" Zone 2146
2234	2266	Salt. Top "D" Salt 2234
2266	2367	Shale, gray, streak of anhydrite, salt stringer 2330-2338. Top "C" Shale 2266
2367	2677	Salt, stringers of anhydrite, shale, and dolomite. Top "B" Salt 2367
2677	2702	Dolomite, brown, finely sucrosic, pyritic. Top A2C 2677
2702	2706	Anhydrite
2706	2732	Dolomite, brown, finely crystalline to sucrosic
2732	2738	Anhydrite
2738	2839	Dolomite, brownish gray, finely crystalline
2839	2856	Anhydrite, whitish brown. Top A2A 2839
2856	2957	Salt, streak of anhydrite in base. Top A2S 2856
2957	3016	Core #1. Top A1C 2958
3016	3076	Core #2. Top Brown Niagaran 3024
3076	3134	Dolomite, brown to gray-brown, finely crystalline
3134	3176	Dolomite, gray, finely crystalline. Top Gray Niagaran 3134

Total Depth 3176. D & A

BEARD & HARMON \* McCLURE OIL COMPANY EMIL STELL NO. 1  
SW SW NE Section 2, T5N, R15E, Columbus Twp. St. Clair Co., Mich.  
GL 666' KB 678'

CORE #1 2957 - 3016 Recovered 59'

- 2957--2958 Anhydrite, bluish gray  
2958 -- 2967.2 Dolomite, brown, very very finely crystalline, tight occasional stylolite, hair line fractures filled with anhydrite, bleeding numerous pin points of brown oil, good oil odor on break. Top ALC 2958 (contact, less than 5 degree dips)  
2967.2--2970 Dolomite, gray, very very finely crystalline, dense, argillaceous to shaly, scattered stylolites. No show.  
2970--2974.5 Dolomite, brown, very very finely crystalline, scattered stylolites, scattered pin points dark brown oil.  
2974.5--2979.2 Dolomite, brown, very very finely crystalline, tight, occasional pin points dark brown oil, slight odor on fresh break, numerous stylolites, 15 to 20 degree dips, streak of anhydrite at 2976.4-2976.6  
2979.2--2983.5 Dolomite, light gray to brown, very very finely crystalline, tight, scattered stylolites, scattered hairline fractures, some infilled with anhydrite. No odor, no show.  
2983.5--2997.8 Dolomite, gray to dark gray, very very finely crystalline, dense, numerous partings and stylolites (poker chip texture), dipping approximately 30 to 35 degrees uniformly, oil odor, occasional pin point dark brown oil, from 2988 to 2997.8 dips gradually increase up to 45 degrees.  
2997.8--3003.8 Anhydrite, whitish, bluish-gray, some irregular dolomitic mottling.  
3003.8--3005.8 Dolomite, dark gray, dense, numerous partings and stylolites (poker chip texture), No odor, numerous small anhydrite nodules.  
3005.8--3012.8 Anhydrite, whitish, bluish-gray, abundant gray-brown dolomitic mottling.  
3012.8--3016 Dolomite, gray, very very finely crystalline, dense, numerous partings and stylolites, dipping approximately 40 to 45 degrees, odor on break, bottom foot brecciated.

CORE #2 3016 - 3076 Recovered 60'

- 3016--3020.8 Dolomite, light brown, very finely crystalline, marbled gray banding, no regular dips, scattered evaporite crystals (selenite?), slight odor on fresh break, tight, no bleeding fluids.  
3020.8--3024.0 Anhydrite, blue-gray to gray.  
3024--3027.2 Dolomite, brown, very finely crystalline to finely sucrosic, some anhydrite infilling, no bleeding fluids.  
3027.2--3029.5 Dolomite, light gray-brown, very finely crystalline, some fine crystalline, numerous carbonaceous partings and stylolites, dipping approximately 40 degrees, few scattered pin point vugs, oil odor with no visible pin points, sweating some water.

- 3029.5—3033 Dolomite as above, pin point to small vugs, dips as above, bleeding water, No odor.
- 3033—3035 Dolomite, gray-brown, very finely crystalline, finely sucrosic in part, tight, thin banding dipping 30 to 35 degrees, heavy water bleeding, no odor
- 3035—3037.0 Dolomite, gray-brown, very fine to finely crystalline, tight, scattered white small anhydrite nodules, scattered partings dipping approximately 35 degrees, no odor, bleeding water
- 3037—3038 Dolomite, light brown, very fine to finely crystalline, numerous pin point small vugs, fair to good porosity, bleeding water
- 3038—3042.2 Dolomite, tan to light gray, very finely crystalline, numerous pin point small vugs, fair to good porosity, many random oriented detrital fragments of dolomite, bleeding water, no banding, slight odor?
- 3042.2—3047.6 Dolomite, light gray to brown, very finely crystalline, some fine crystalline, numerous pin points small vugs, occasional large vugs, filled 95% salt and some anhydrite, bleeding water, no show.
- 3047.6—3050 Dolomite, light gray, some tan, very finely crystalline, few scattered pin point vugs, numerous carbonaceous fragments, sulphur odor, sweating water, salt filling.
- 3050—3068.9 Dolomite, light gray to tan, very very finely crystalline, few scattered pin point small vugs, tight, no odor, sweating some water, scattered styolites, no uniform dips, some salt plugging.
- 3068.9—3072 Anhydrite, whitish to light gray, some tan mottling
- 3072—3076 Dolomite, gray-brown, very fine to finely crystalline, scattered pin point small vugs, fair porosity, some scattered anhydrite infilling, sweating some water.

Core Description by Bill Roth, McClure Oil Company; Don Helmboldt, Basin Oil Company; and Tom Biggs, Hallwell Gas & Oil Company

July 30, 1969

Mr. John Wessel  
8355 Yager Road  
Smith's Creek, Michigan

Dear Mr. Wessel:

In connection with the damages incurred to your property while I was drilling the #1 Stell well, I am enclosing herewith my check in the amount of \$150.00 which represents settlement for damage to your fence and payment for removal of the dead trees if required.

Will you kindly sign the enclosed Release form and have your signature witnessed . Please return one copy for my files.

Thank you.

Very truly yours,

James M. Harmon

JMH/jas  
Encl.  
Ck. No. 1427 - \$150.00  
Release Form

BC: Mr. Sam Alguire

C

O

P

Y

7/30/69

1969

1969

RELEASE

Know All Men By These Presents, that the undersigned, John Wessel, for the sole consideration of \$150.00 acknowledges receipt of same paid by James M. Harmon and does hereby release, acquit and discharge James M. Harmon, Operator from any and all liability, claims, demands, actions and causes of action which the said Frank Wessel may have by reason of the operations of James M. Harmon in the drilling of a well for oil or gas on the Emil Stell #1, SW SW NE Section 2, Columbus Township, St. Clair County, Michigan, including specifically any damage to fences or trees.

Witness whereof the undersigned has set his hand this \_\_\_\_ day of \_\_\_\_\_, 1969.

WITNESS:

\_\_\_\_\_  
John Wessel

Inlay City, Michigan  
July 29, 1969

James M. Harmon  
301 Orchard Street  
St. Clair, Michigan 48079

RE: P#27293 Beard-Harmon-McClure Stoll #1

Dear Jim:

In your letter to Ollie Irwin dated July 22 you state that you and Mr. Wessel were very near a lawsuit. I can't imagine it. Mr. Wessel rightfully has claim of damage but your offer to him for settlement made July 16 seems reasonable. What is the area of disagreement?

Very truly yours, .

GEOLOGICAL SURVEY DIVISION

S. L. Alguire  
Geologist

SLA:nd  
cc: file

July 22, 1969

Mr. Ollie Irwin  
North American Drilling Company  
1104 North Mission  
Mt. Pleasant, Michigan

Dear Ollie-

I am enclosing a copy of my letter to Mr. John Wessel of Smith's Creek, Michigan relative to a fence that was torn down and salt water dumped into a drainage ditch in connection with the drilling operations on the No. 1 Stell, our drilling contract with you dated May 23, 1968.

It is difficult for me to understand why the salt water from the location was dumped in a drainage ditch between two cultivated fields. I also wonder why the fence, which was obviously pushed over in two and three locations while moving the rig in and out was not repaired. I have had conversation with Mr. Wessel since my letter of July 16th and I think we are very close to a lawsuit.

While Mr. Alguire and I were inspecting various property, I also had an occasion to look at the location where the Stell well was drilled and find that it has not been properly leveled and will necessitate another trip for your dozer to put it in presentable condition.

Would you please have your fieldmen take a look at the Stell location and also at the Wessel fence located along the west side of the Stell property and advise me what you think should be done.

Very truly yours,

James M Harmon

JMH/jas  
Encl.

cc: Mr. S. L. Alguire-Imlay City ✓

SEARCHED  
SERIALIZED  
INDEXED  
FILED

JUL 23 1969  
FBI - MOUNT PLEASANT

DEPARTMENT OF CONSERVATION  
LAW ENFORCEMENT DIVISION

NUMBER

DATE RECEIVED

July 3, 1969

TIME RECEIVED

AM 4:00 PM

NAME OF COMPLAINANT

Mr. John Wessel

ADDRESS

(number and street)

8355 Yager Road

(city)

Smith Creek

TELEPHONE NUMBER

TYPE OF COMPLAINT

Never received any contact regarding my letter of 11/15/68. He contacted Harmon and got brush off. Checked the complaint with Wessel. Found fence down and dying trees where the operator allegedly pumped the brine. The ditch and trees are on Wessel's land. His complaint is valid.

LOCATION

(section, twp., roads, etc.)

Res: Permit 27293 Bard-Harmon - McClure Emil Stell #1

SWSWNE Sec. 2, T.5N, R.15E. Columbus, St. Clair

MAKE OF CAR / BOAT

COLOR

YEAR

LICENSE NUMBER

WHERE PARKED OR DIRECTION OF TRAVEL

NUMBER OF PERSONS INVOLVED ( indicate dress )

OTHER IDENTIFICATION (backtag numbers, etc.)

REMARKS

PERSON & OFFICE RECEIVING COMPLAINT

Sam Alquire - Imley City

COMPLAINT REFERRED TO (Name of Officer)

To be handled by above

DISPOSITION

Met Jim Harmon on location and showed him the situation. He will take care of it next week. Sitting a couple of wells in Canada right now.

7-16-69 Harmon wrote Letter to Wessel, copy to

ARRESTS

Imley city. Offering a \$100.00 settlement for damages. Very generous offer. I consider complaint answered and file closed. S.A.

July 16, 1969

Mr. John Wessel  
8355 Yager Road  
Smith's Creek, Michigan

Dear Mr. Wessel:

Mr. S. L. Alguire with the Department of Conservation contacted me last week regarding alleged damages to your fence and also indicated that North American Drilling had dumped salt water from the Stell location into a drainage ditch along your property lines.

I made a trip to your area last week with Mr. Alguire to inspect your complaint. It was obvious that in moving out the rotary rig, portions of your fence were pushed over and never repaired. I would certainly like to straighten this matter out as soon as possible to your satisfaction. Since the fence appears to be a number of years old and torn down in other places not connected with our drilling operation, it would be my suggestion that you take a cash settlement for these damages instead of having the fence repaired. Also, it is possible that two of your small trees may have been killed by the dumping of salt water and may have to be removed at a later date if they fall across your drainage ditch.

I am offering you \$100.00 as a settlement for damage to your fence and payment for removal of the dead trees at some future date. If this sum is agreeable to you, please give me a collect call at the above telephone number, and I will forward you a check.

I am sorry that this has not been called to my attention sooner and hope that it has not caused you any great inconvenience.

Very truly yours,

James M. Harmon

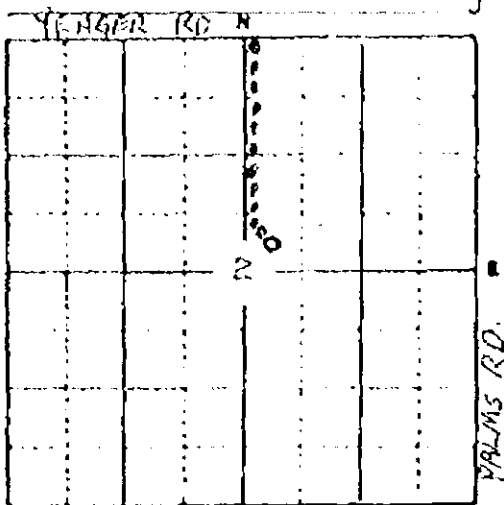
JMH/jas

cc: Mr. S. L. Alguire - Imlay City

STATE OF MICHIGAN  
DEPARTMENT OF CONSERVATION

LOG OF OIL, GAS OR TEST WELL

TO BE FILED WITH SUPERVISOR OF WELLS WITHIN 30 DAYS  
AFTER COMPLETION OF WELL (ACT 81 P. A. 1938  
AND ACT 326 P. A. 1937)



LOCATE WELL ACCURATELY

Permit No. 27293 6-10-68 Deepening No. ....

Owner or Operator Beard & Harmon and McClure Oil Co.

Address 505 N. Riverside, St. Clair, Mich. 48079

Well No. 1 Farm Emil Stell

Township Columbus County St. Clair

Location SW SW NE Sec. 2 Twp. 5N Range. 15E Elevation 666.00 ft., 677.5 KB

Footage 330 ft. from South line and 330 ft. from West line of quarter section

Type of well ..... Total depth ..... Completed in .....  
(OIL, GAS, BRINE DISPOSAL, DRY HOLE)

Name of producing formation ..... Top of formation .....

Date drilling begun 6-18-68 Date drilling completed ..... Date well completed .....

Drilling contractor North American Drlg. Co. Address 1104 N. Mission St., Mt. Pleasant, Mich. 48858

WATER ZONES

OIL OR GAS ZONES

DEVIATION SURVEY

NAME	FROM	TO	AMOUNT	NAME	FROM	TO	AMOUNT	RUN AT	DEGREES

CASING AND CEMENTING

STEEL LINES RUN

SIZE	WHERE SET	CEMENT	AMT. PULLED	RUN AT	CORRECTED TO	RUN BY
8 5/8	565	250	496 LBS	100.5		

PERFORATIONS

ACID OR SHOOTING RECORD

DATE	FROM	TO	NO. HOLES	DATE	FROM	TO	GALS. ACID OR QTS. NITRO

Rotary tools from ..... feet to ..... feet. Cable tools from ..... feet to ..... feet.

Natural initial production first 24 hours ..... Bbls. After acid or shot ..... Bbls.

If gas well, cu ft. per 24 hours ..... Rock pressure, lbs. per sq. in. ....

The above information is complete and correct. Signed .....

Date ..... Title .....



Inlay City, Michigan  
Nov. 15, 1968

North American Drilling Company  
1104 N. Mission Street  
Mt. Pleasant, Michigan 48858

RE: Beard & Harmon and McClure Oil Company Emil Stell #1 SW SW NE Sec. 2,  
T. 5N., R. 15E., Columbus Twp., St. Clair Co., Michigan Permit 27293

Gentlemen:

Received this date a telephone complaint from a Mr. John Wessel, 8355  
Yager Road, Smith Creek, Michigan concerning alleged damages done to his  
land during drilling operations at the subject location.

Mr. Wessel is of the opinion that Mr. Abbey is trying to "brush him off",  
a fact that I'm inclined not to accept. He claims that some fence was knocked  
down and a drainage ditch obstructed by "fine material" that was pumped out  
into the ditch with the water before the pit was closed.

You are aware of the status of the latter mentioned complaint and I trust  
this is the last we will hear of such practice.

Mr. Wessel, I'm sure, will appreciate having someone check with him so  
that things can be cleared up.

Yours truly,

GEOLOGICAL SURVEY DIVISION

*S. L. A.*

S. L. Alguire  
Geologist

SLA:nd  
cc: Beard & Harmon & McClure Oil Co.  
Mr. John Wessel  
File

STATE OF MICHIGAN  
DEPARTMENT OF CONSERVATION  
SUPERVISOR OF WELLS

PERMIT TO PLUG AND ABANDON

PERMIT NO. <b>27293</b>		FIELD NAME <b>Wildcat</b>
OWNER OR OPERATOR <b>Beard &amp; Harmon, McClure Oil Company</b>		
WELL NAME <b>Mail Stall</b>		WELL NO. <b>1</b>
LOCATION <b>SW 34 NE</b>	SECTION <b>2</b>	TOWNSHIP <b>Columbus</b>
	T <b>54</b>	R <b>1E</b>
		COUNTY <b>St. Clair</b>
TYPE OF WELL (Oil, Gas, Dry Hole, etc.) <b>Dry Hole</b>	DATE COMPLETED <b>June 25 19 68</b>	LAST PRODUCTION <b>19</b>
LAST PRODUCTION (Amount per day)	OIL,	WATER, GAS
PLUGGING TO BE DONE BY <b>NADCo and cementing service</b>		DATE PLUGGING WILL START <b>June 26, 19 68</b>
PLUGGING PERMIT REQUESTED BY (Well Owner or Authorized Representative) <b>F. Lofton, NADCo</b>		DATE <b>June 26, 19 68</b>
PERMIT MAILED TO <b>Beard &amp; Harmon</b>		
ADDRESS <b>505 N. Riverside, St. Clair, Michigan 48079</b>		

CASING AND CEMENTING RECORD			
SIZE CASING	DEPTH SET	NO. SACKS CEMENT	PERFORATIONS
<b>8 5/8</b>	<b>565</b>	<b>250</b>	

FORMATION TOPS AND OTHER DATA  
(Formation & depth, Oil, Gas & Water Shows, etc.)

<b>HD - 185</b>	<b>B Salt - 2367</b>
<b>Bed - 330</b>	<b>A-2 Carb - 2676</b>
<b>Ant - 560</b>	<b>A-2 Salt - 2856</b>
<b>Trov - 742</b>	<b>A-1 Carb - 2998</b>
<b>Dd - 1030</b>	<b>King Reef - 3023 (water bearing)</b>
<b>Sal - 1784</b>	<b>TD - 2173</b>
<b>F Salt - 1894</b>	

PLUGGING REQUIREMENTS:

- Run drill pipe to total depth and circulate the hole with heavy mud sucked from the bottom of the mud pit.**
- Balance in 35 sacks cement plugs at 1800 ft. and 600 ft. while laying down drill pipe.**
- Maintain a balanced column of heavy mud in the hole as it is plugged.**
- Cut the surface pipe off 3 ft. below ground level and cap it with a steel plate and/or by bridging a 5 sacks cement plug in the top.**
- Fill the rathole before removing rig from the location.**

Plugging requirements outlined above are to be executed in accordance with the provisions of Act 61, P.A. 1939, and/or Act 326, P.A. 1937, and the rules and regulations issued and adopted thereunder. NOTE: THE PLUGGING OF THIS WELL CANNOT BE APPROVED UNTIL THE PLUGGING IS COMPLETED, CELLAR, RAT HOLE AND PITS FILLED AND THE LOCATION HAS BEEN CLEANED AND LEVELED.

PERMIT ISSUED BY <i>S. L. Algune</i>	FIELD OFFICE <b>Inlay City (Ph 724-7015)</b>	DATE <b>June 26 19 68</b>
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NOTE: WELL PLUGGING RECORD, Form CONS 7213, to be filed in TRIPPLICATE within 30 days after completion.

WELL LOCATION REPORT

Permit No. 27293

Operator Beard & Harmon and McClure Oil Company Rotary - MADCo.

Farm Name Emil Stell #1

Notification 6-16-68 fr. B Anderson "Will try to move rig in tomorrow".

Nature of Location Open farm land

Condition of Pits Reserve; 6 x 20 x 75 Mud 6 x 10 x 75

Distance from Water None

Remarks 6-19-68 cementing 8". Initialed permit.

Approved by *L.A.* Date June 19, 1968

329-6688

Exploratory (00)  
TD 3176 In Niagaran (46)  
Dry Hole2-5N-15E  
Columbus Twp. (St. Clair Co.)

Beard &amp; Harmon &amp; McClure Oil Co.

Emil Stell No. 1

Permit No. 27293

Drilling Contractor: North American Drilling Co. (rotary)

Location: SW $\frac{1}{4}$  SW $\frac{1}{4}$  NE $\frac{1}{4}$  Section 2, T. 5N, R. 15E  
330' from south and 330' from west line of quarter section

Elevation: 678 feet above sea level (rot. bush.)

Record by: B.L. Champion from sample log & core descriptions submitted by  
the company. Logs run: Schlumberger Laterolog-Gamma Ray-Neutron  
Log 100-3173

	Thickness (Feet)	Depth (Feet)
<b>PLEISTOCENE:</b>		
Drift:		
Drift, sand & gravel	185	185 Sj
<b>MISSISSIPPIAN:</b>		
Sunbury:		
Shale, dark gray	85	270 Sj
Berea:		
Sandstone, gray	60	330 Sj
Bedford:		
Shale, gray	230	560 Sj
<b>DEVONIAN:</b>		
Antrim:		
Shale, dark brown-black	184	744 Sj
Traverse Group:		
Dolomite & limestone, gray, fossiliferous, trace chert	112	856
Shale, gray	180	1036 Sj
	(292)	
Dundee:		
Limestone, brown, fossiliferous	75	1111
Dolomite, tan, finely crystalline	42	1153 Sj
	(117)	
Detroit River (?) - Bois Bland:		
Dolomite, tan, finely crystalline	21	1174
Anhydrite, interbedded dolomite (Detroit River Anhydrite @ 1174 Sj)	148	1322
Dolomite, tan, very finely crystalline, traces of anhydrite throughout	286	1608 Sj
	(455)	
<b>SILURIAN:</b>		
Bass Islands:		
Dolomite, tan, very finely crystalline, traces of anhydrite, throughout (?)	126	1734 Sj

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FEB 6 1970

	Thickness (Feet)	Depth (Feet)
Salina:		
Shale, gray, interbedded tan dolomite	148	1882
Salt, stringers of shale, anhydrite, & dolomite (F Salt @ 1882 Sj)	264	2146
Shale, gray, interbedded light brown dolomite & anhydrite (E Unit @ 2146 Sj)	88	2234
Salt (D Salt @ 2234 Sj)	32	2266
Shale, gray, streak of anhydrite, salt stringer 2330-2338 (C Unit @ 2266 Sj; B Unit @ 2344 Sj)	101	2367
Salt, stringers of anhydrite, shale, and dolomite (B Salt @ 2367 Sj)	310	2677
Dolomite, brown, finely sucrosic, pyritic (A2 Carbonate @ 2677 Sj)	25	2702
Anhydrite	4	2706
Dolomite, brown, finely crystalline-sucrosic	26	2732
Anhydrite	6	2738
Dolomite, brownish gray, finely crystalline	101	2839
Anhydrite, whitish brown (A2 Anhydrite @ 2839 Sj)	18	2857
Salt, streak of anhydrite in base (A2 Salt @ 2857 Sj)	100	2957
<u>Core #1 2957-3016 (Recovered 59')</u>		
Anhydrite, bluish gray	1'	2958
Dolomite, brown, very very finely crystalline, tight, occasional stylolite, hair line fractures filled with anhydrite, bleeding numerous pin points of brown oil, good oil odor on break (contact, less than 5° dips)(A1 Carbonate @ 2958 Sj)	9.2'	2967.2
Dolomite, gray, very very finely crystalline, dense, argillaceous-shaly, scattered stylolites, no show	2.8'	2970
Dolomite, brown, very very finely crystalline, scattered stylolites, scattered pin points dark brown oil	4.5'	2974.5
Dolomite, brown, very very finely crystalline, tight, occasional pin points dark brown oil, slight odor on fresh break, numerous stylolites, 15-20° dips, streak of anhydrite @ 2976.4-2976.6	4.7'	2979.2
Dolomite, light gray-brown, very very finely crystalline, tight, scattered stylolites, scattered hairline fractures, some infilled with anhydrite, no odor, no show	4.3'	2983.5
Dolomite, gray-dark gray, very very finely crystalline-dense, numerous partings & stylolites (poker chip texture), dipping approximately 30-35° uniformly, oil odor, occasional pin point dark brown oil, from 2988-2997.8 dips gradually increase up to 45°	14.3'	2997.8
Anhydrite, whitish, bluish gray, some irregular dolomitic mottling (A1 Evaporite @ 2998 Sj)	6.0'	3003.8
Dolomite, dark gray, dense, numerous partings & stylolites (poker chip texture), no odor, numerous small anhydrite nodules	2'	3005.8
Anhydrite, whitish, bluish gray, abundant gray brown dolomitic mottling	7'	3012.8
Dolomite, gray, very very finely crystalline, dense, numerous partings & stylolites, dipping approximately 40-45° degrees, odor on break, bottom foot brecciated	3.2'	3016
<u>Core #2 3016-3076 (Recovered 60')</u>		
Dolomite, light brown, very finely crystalline, marbled gray banding, no regular dips, scattered evaporite crystals (selenite?), slight odor on fresh break, tight, no bleeding fluids	4.8'	3020.8
Anhydrite, blue gray-gray	3.2'	3024.0
	(1290)	

	Thickness (Feet)	Depth (Feet)
Niagaran: (Core #2 Continued)		
Dolomite, brown, very finely crystalline-finely sucrosic, some anhydrite infilling, no bleeding fluids	3.2'	3027.2
Dolomite, light gray brown, very finely crystalline, some fine crystalline, numerous carbonaceous partings & stylolites, dipping approximately 40°, few scattered pin point vugs, oil odor with no visible pin points, sweating some water	2.3'	3029.5
Dolomite, as above, pin point-small vugs, dips as above, bleeding water, no odor	3.5'	3033
Dolomite, gray brown, very finely crystalline, finely sucrosic in part, tight, thin banding dipping 30-35°, heavy water bleeding, no odor	2'	3035
Dolomite, gray brown, very fine-finely crystalline, tight, scattered white small anhydrite nodules, scattered partings dipping approximately 35°, no odor, bleeding water	2'	3037.0
Dolomite, light brown, very fine-finely crystalline, numerous pin point small vugs, fair-good porosity, bleeding water	1'	3038
Dolomite, tan-light gray, very finely crystalline, numerous pin point small vugs, fair-good porosity, many random oriented detrital fragments of dolomite, bleeding water, no banding, slight odor?	4.2'	3042.2
Dolomite, light gray-brown, very finely crystalline, some finely crystalline, numerous pin points small vugs, occasional large vugs, filled 95% salt & some anhydrite, bleeding water, no show	5.4'	3047.6
Dolomite, light gray, some tan, very finely crystalline, few scattered pin point vugs, numerous carbonaceous fragments, sulphur odor, sweating water, salt filling	2.4'	3050
Dolomite, light gray-tan, very very finely crystalline, few scattered pin point small vugs, tight, no odor, sweating some water, scattered stylolites, no uniform dips, some salt plugging	18.9'	3068.9
Anhydrite, whitish-light gray, some tan mottling	3.1'	3072
Dolomite, gray brown, very fine-finely crystalline, scattered pin point small vugs, fair porosity, some scattered anhydrite infilling, sweating some water	4'	3076
Drilled:		
Dolomite, brown-gray brown, finely crystalline	58	3134
Dolomite, gray, finely crystalline (Top Gray Niagaran @ 3134 Sj; 3176 DPM = 3173 Sj)	42 (152+)	3176
Driller TOTAL DEPTH		3176

Casing record:  
 8-5/8" 565 (250 cem.) ANT. TOP

Commenced: 6-17-68  
 Completed: 6-26-68  
 Well Completed: 6-26-68  
 Initial Production: Dry Hole

2850 TVD  
 855

1-21-70  
 kcb

**WELL PLUGGING RECORD**

TO BE FILED WITHIN THIRTY DAYS AFTER PLUGGING IS COMPLETED

Permit No. 27293.....

Date..... June 28.....1968..

Owner or Operator..... Beard & Harmon, McClure Oil Co. Address..... 505 N. Riverside, St. Clair, Mich......

Well Name..... Emil Stell No..... 1..... Location..... SW.....X SW.....X NE.....X, Section..... 2.....

Township..... Columbus County..... St. Clair..... T. 5N....., R. 15E.....

Type of Well..... Dry Hole..... Total Depth..... 3176'..... Formation..... Niagaran.....  
(OIL, GAS, BRINE DISPOSAL OR DRY HOLE)

Date Plugging Started..... June 26, 1968..... Date Plugging Completed..... June 26, 1968.....

Was permission of Department of Conservation obtained before plugging began?..... Yes.....

Name of Department representative who authorized or supervised plugging..... S. L. Aleuire.....

CASING SIZE	WHERE SET	AMOUNT RECOVERED	SHOT OR RIPPED	BRIDGES OR PLUGS (BRUSH, STONE, CEMENT, ETC.)	DEPTH PLACED	NUMBER SACKS
<u>8 5/8"</u>	<u>565'</u>	<u>None</u>		<u>Cement Plug</u>	<u>1800'</u>	<u>35 Sx.</u>
				<u>Cement Plug</u>	<u>600'</u>	<u>35 Sx.</u>

Describe in detail how well was plugged Ran drill pipe to total depth and circulated the hole with heavy mud. Balanced in 35 sacks cement plugs at 1800' and 600' while laying down drill pipe. Cut the surface pipe off three feet below ground level and capped with steel plate.

(USE REVERSE SIDE IF NEEDED)

Were tools, tubing, casing, etc., lost or left in the hole before or during plugging? Yes If so, give details All 8 5/8" surface casing left in hole.

Did a Service Company pump mud, spot cement, or set bridge plugs? Yes If so, give name and address Allied Services, Inc., Mt. Pleasant, Michigan

Was the well plugged by a Company or Contractor other than Owner or Operator? Yes If so, give name and address North American Drilling Company, Mt. Pleasant, Michigan

Representatives of Owner, Operator, Company, or Contractor who witnessed plugging Finney Loffland, Toolpusher  
North American Drilling Co.

**CERTIFICATE:**

I, Joe Beard of Beard & Harmon (Company), state that I am authorized by said Owner or Operator to make this report; and that this report was prepared under my supervision and direction, and that the facts stated herein are true, correct and complete to the best of my knowledge."

Joe Beard  
(SIGNATURE)

505 N. Riverside, St. Clair, Mich. Geologist  
(ADDRESS) (TITLE)

**FINAL INSPECTIONS:**

By Department Representative

Date

[Signature]

6-17-69

Field notes on this well  
are included with the  
file at the field office.

L. Farhat  
7-93