

FILE NOTATIONS

Entered in NID File
 Entered On S R Sheet
 Location Map Pinned
 Card Indexed
 IWR for State or Fee Land _____

Checked by Chief RPS
 Copy NID to Field Office _____
 Approval Letter
 Disapproval Letter _____

COMPLETION DATA:

Date Well Completed 2-15-61
 OW _____ WW _____ TA _____
 GW _____ OS _____ PA

Location Inspected _____
 Bond released _____
 State of Fee Land _____

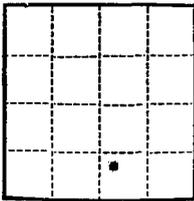
LOGS FILED

Driller's Log 2-1-62
 Electric Logs (No.) _____

E _____ I _____ E-I _____ GR _____ GR-N _____ Micro _____
 Lat _____ Mi-L _____ Sonic _____ Others _____

10-29-90
 JET

Copy 43 HC



(SUBMIT IN TRIPPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office **SALT LAKE**
Lease No. **U-015**
Unit _____

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	<input checked="" type="checkbox"/>	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....		SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....		SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....		SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....			

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

MAY 11, _____, 19**61**

LARSEN-MURRAY

Well No. **# 4** is located **990** ft. from **XIX** line and **2310** ft. from **E** line of sec. **20**

NW SW SE **20 S., 24 E., SALT LAKE**

(1/4 Sec. and Sec. No.)

(Twp.)

(Range)

(Meridian)

UNNAMED

(Field)

GRAND

(County or Subdivision)

UTAH

(State or Territory)

The elevation of the derrick floor above sea level is **4529** ft.

CC-2-UOGCC

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

10" surface casing will be set so that at least one Full Joint is in the Mancos Formation. Casing will be set and cemented with a cement return to the surface.

8" casing will then be carried through the Dakota to control caving and any water from the Dakota, from that point we will then drill a 7" hole to the top of the Brushy Basin Sand in the Morrison, and if productive will pull the 8" casing and set 7" casing cementing from total depth to at least 40' above the Dakota Formation.

Will then complete the well open hole.

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

Company **LEWIS H. LARSEN**

Address **259-7th AVENUE**

SALT LAKE CITY 3, UTAH

By *Lewis H. Larsen*
Lewis H. Larsen
Title **OWNER**

May 15, 1961

Mr. Lewis H. Larsen,
Owner
259-7th Avenue
Salt Lake City, Utah

Dear Mr. Larsen:

This is to acknowledge receipt of your notice of intention to drill Well No. Larsen-Murray #4, which is to be located 990 feet from the south line and 2310 feet from the east line of Section 20, Township 20 South, Range 24 East, SLBM, Grand County, Utah.

Please be advised that insofar as this office is concerned approval to drill said well is hereby granted in accordance with the Order issued in Cause No. 2, on June 28, 1956; however, this approval is subject to the following conditions:

1. That a Plat be furnished this office.
2. This office is to be notified at least 24 hours before the following operations are begun so we may witness such operations:
 - a. Running and cementing of surface casing;
 - b. Running and cementing of production casing; or
 - c. Setting of cement plugs if the well is to be abandoned.

Notification of the above operations shall be given to one of the following named individuals:

Mr. Lewis H. Larsen,
Owner

May 15, 1961
Page -2-

ROBERT L. SCHMIDT, Chief Petroleum Engineer
Office Phone: DA 8-5771 or DA 8-5772
Home Phone: AM 6-8616

CLEON B. FEIGHT, Executive Secretary
Office Phone: DA 8-5771 or DA 8-5772
Home Phone: HU 5-2721

This approval terminates within 90 days if the above mentioned well has not been spudded in within said period.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

CLEON B. FEIGHT,
EXECUTIVE SECRETARY

CBF:awg

cc: Don F. Russell, Dist. Eng.
U. S. Geological Survey
Salt Lake City, Utah

H. L. Coonts - OGCC, Moab

copy to HC

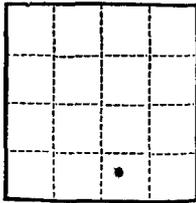
182

Form 9-331a
(Feb. 1961)

Budget Bureau No. 42-R358.4
Approval expires 12-31-60.

(SUBMIT IN TRIPLICATE)

Land Office Salt Lake
Lease No. U-015
Unit _____



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....	SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....	SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....	SUPPLEMENTARY WELL HISTORY.....	X
NOTICE OF INTENTION TO ABANDON WELL.....		

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

May 31, 1961

LARSEN-MURRAY

Well No. **# 4** is located **990** ft. from **XIX** line and **2310** ft. from **[E]** line of sec. **20**

NW SW SE **20 S., 24 E., Salt Lake**
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
un-named **Grand** **Utah**
(Field) (County or Subdivision) (State or Territory)

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

DETAILS OF WORK

CC-2-U0000

(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)

Well spudded May 27, 1961, 53' of 10-3/4" surface casing set with 30 sacks of cement with cement returns to the surface. Waited on cement 30 hours, cleaned out hole, ran Bailer, no leaks.

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

Company Lewis H. Larsen
Address 259-7th Avenue
Salt Lake City 3, Utah

By Donald Bowles
Donald Bowles
Title AGENT

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SALT LAKE
LAND OFFICE
LEASE NUMBER **U-015**
UNIT

LESSEE'S MONTHLY REPORT OF OPERATIONS

State **UTAH** County **GRAND** Field **UNNAMED**

The following is a correct report of operations and production (including drilling and producing wells) for the month of **MAY**, 19**61**,

Agent's address **259-7th Avenue** Company **LEWIS H. LARSEN**
SALT LAKE CITY 3, UTAH

Phone **EM 4-7761** Signed *Donald Bowles* Agent's title **AGENT**

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
NW SW SE Sec. 20	20 S.	24 E.	#4	/	/	/	/	/	/	DRILLING BELOW 280'

NOTE.—There were **NO** runs or sales of oil; **NO** M cu. ft. of gas sold;

NO runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

(SUBMIT IN TRIPLICATE)

Land Office **Salt Lake**
Lease No. **U-015**
Unit _____

	20	

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....	SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....	SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....	SUPPLEMENTARY WELL HISTORY.....	X
NOTICE OF INTENTION TO ABANDON WELL.....		

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

June 26

1961

Larsen-Murray

Well No. # 4 is located 990 ft. from ^{XX}_S line and 2310 ft. from ^E_W line of sec. 20
 NW SW SE 20 S., 24 E., Salt Lake
 (Field) (County or Subdivision) (State or Territory)
 Unnamed Grand Utah

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

CC-2-UOGCC

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

8-5/8" intermediate string was cemented from 530' to 475' with 12 sacks of cement.

Waited on cement 30 hours, ran bailer, no leaks.

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

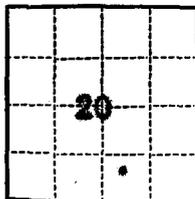
Lewis H. Larsen

Company _____
 Address 259-7th Avenue
 Salt Lake City, Utah

By *Donald Bowles*
 Donald Bowles
 Agent

Copy to HC

R.D.



(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office **Salt Lake**
Lease No. **U-015**
Unit _____

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING	X	SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			

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

June 30, 19 61

LARSEN-MURRAY

Well No. **# 4** is located **990** ft. from **{NK}** line and **2310** ft. from **{E}** line of sec. **20**
NW SW SE **20 S., 24 E., Salt Lake**
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Unnamed Grand Utah
(Field) (County or Subdivision) (State or Territory)

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

cc-2-UOCCC

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

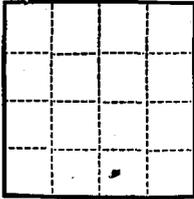
Will spot 20 sacks of cement at T.D. 1015'.
 Will fill with mud to 740' and spot 20 sacks.
 Will cut pipe at approximately 400' and wait several hours, will run bailer to see if pipe is holding, if not, will put 20 sacks at stub.
 Will fill with mud to 60' and spot 15 sacks plus a 10 sack surface plug with a 10' pipe, 6' in ground, 4' above ground with Lease #, Well location, and operators name.
 Will fill in pits.

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

Company **Lewis H. Larsen**
 Address **259-7th Avenue**
Salt Lake City 3, Utah
 By **Donald Bowles**
Donald Bowles
 Title **AGENT**

Copy to HC

R 12



(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office **Salt Lake**
U-015
Lease No. _____
Unit _____

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	X
NOTICE OF INTENTION TO PULL OR ALTER CASING	X	SUPPLEMENTARY WELL HISTORY	X
NOTICE OF INTENTION TO ABANDON WELL			

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

June 30, 19 61

LARSEN-MURRAY

Well No. **24** is located **990** ft. from **N** line and **2310** ft. from **E** line of sec. **20**
NW SW SE **20 S., 24 E., Salt Lake**
(¼ Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Unnamed Grand Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is _____ ft. **cc-2-UGCC**

DETAILS OF WORK

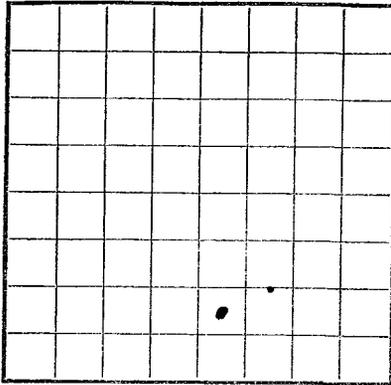
(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Set 20 sack plug in bottom. filled with mud to 740'.
 Set 20 sack plug at 740' filled with mud to 540' set
 15 sack plug. filled with mud to 450' set 20 sack plug
 with squeeze job.
 Shot casing recovered 395'6". 134'6" left in hole.
 Filled with mud to 60' placed 15 sack plug.
 Set 10 sack surface plug with a marker 4" in diameter
 4' high embedded 6' in cement.

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

Company **Lewis W. Larsen**
 Address **259-7th Avenue**
Salt Lake City 3, Utah
 By **Donald Bowles**
AGENT
 Title _____

U. S. LAND OFFICE Salt Lake
SERIAL NUMBER U-015
LEASE OR PERMIT TO PROSPECT _____



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Lewis H. Larsen Address 259-7th Avenue, Salt Lake City
Lessor or Tract LARSEN-MURRAY Field Unnamed State Utah
Well No. 4 Sec. 20 T. 20 S. 24 E. Meridian Salt Lake County Grand
Location 990 ft. N. of S Line and 2310 ft. E. of E Line of Sec. 20 Elevation 4499
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed Donald W. Bowles

Date January 31, 1962 Title Agent

The summary on this page is for the condition of the well at above date.

Commenced drilling May 27, 19 61 Finished drilling July 15, 19 61

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 716 to 728 Sl. Show No. 4, from _____ to _____
No. 2, from _____ to _____ No. 5, from _____ to _____
No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from 518 to 530 No. 3, from _____ to _____
No. 2, from 1007 to 1015 Sulfur No. 4, from _____ to _____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
<u>10 3/4</u>	<u>281b</u>	<u>8</u>		<u>55'</u>			<u>0</u>	<u>55'</u>	<u>Surface</u>
<u>8 5/8</u>	<u>241b</u>	<u>8</u>		<u>530.6'</u>		<u>395.6'</u>			<u>shut off water</u>

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>10 3/4</u>	<u>55'</u>	<u>35</u>			
<u>8 5/8</u>	<u>530.6'</u>	<u>12</u>			

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____

Adapters—Material _____ Size _____

FOLD MARK

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

Cable tools were used from surface feet to 1017' feet, and from _____ feet to _____ feet

DATES

_____, 19____ Put to producing _____, 19____

The production for the first 24 hours was _____ barrels of fluid of which _____% was oil; _____% emulsion; _____% water; and _____% sediment. Gravity, °Bé. _____

If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

_____, Driller _____, Driller
 _____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	36'	36'	Gravel, Silt, and Fill
36'	135'	99'	Blue Shale
135'	295'	160'	Blue Shale
295'	415'	120'	Blue Limey Shale
415'	420'	5'	Hard Lime Shale
420'	498'	78'	Blue Shale, some Bentonite
498'	500'	2'	Bentonite, Lime Stringers
500'	518'	18'	Shale
518'	530'	12'	Sand, Some Water
530'	535'	5'	Gray Sand
535'	575'	40'	gray shale
575'	580'	5'	coarse gray sand
580'	585'	5'	Light gray sand
585'	600'	15'	fine white sand
600'	605'	5'	Black shale
605'	608'	3'	hard limestone
608'	620'	12'	gray shale
620'	648'	28'	green shale
648'	651'	3'	purple shale
651'	676'	24'	gray shale
676'	695'	20'	red shale
695'	700'	5'	brown shale
700'	716'	16'	green shale
716'	728'	12'	sand, hard tight, slight show of oil

[OVER]

16-48094-4

FORMATION RECORD—CONTINUING

74

MARK

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

HISTORY OF OIL OR GAS WELL

16-43004-2 U. S. GOVERNMENT PRINTING OFFICE

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "sidetracked" or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

Casing left in the hole from 530.6 to 740.6
 395.6 total of 43.5' of casing left in hole

Cement plugs placed
 20 sacks at Bottom
 20 sacks at 740'
 15 sacks at 540'
 20 sacks at 450'
 15 sacks at 60'

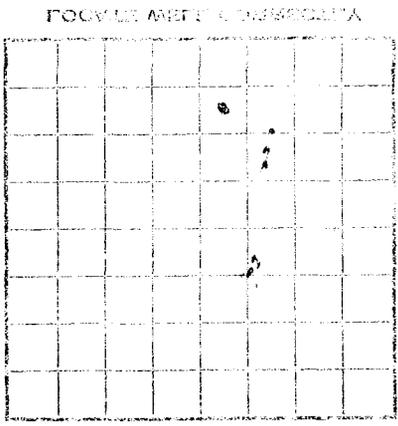
OIL OR GAS SANDS OR MUDS

Commenced pumping 7/21/30
 The primary on this page is for the condition of the well with 4" marker
 diameter set 6" in cement

The information given here is a complete and correct record of the well and all work done thereon

Location NO ELECTRICAL OR RADIOACTIVITY LOGS WERE RUN ON THIS WELL.

WASH. NO. _____
 Person or Firm _____
 Company _____



LOG OF OIL OR GAS WELL

GEOLOGICAL SURVEY
DEPARTMENT OF THE INTERIOR
UNITED STATES

DATE OF REPORT TO BUREAU _____
 SERIAL NUMBER _____
 U. S. FIELD OFFICE _____

FORM 9-330

700-200-0000 10-21-30

February 1, 1962

Lewis H. Larsen
259-7th Avenue
Salt Lake City, Utah

Attn: Donald W. Boles

Re: Well No. Larsen Murray 4,
Sec. 20, T. 20 S., R. 24 E.,
Grand County, Utah

Gentlemen:

We would like to thank you for submitting the well log on the above mentioned well; however, we are returning the log for you to complete. Would you please send us the above report with the specific abandoning date included. Also, would you please note on the back of this report under "History of Oil or Gas Well" whether electric and/or radioactivity logs were run.

Your prompt attention to the above mentioned requests will be very much appreciated.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

ANN W. GLINES,
RECORDS CLERK

AWG:kpb
Enclosure