DEVONIAN OIL

chian fields, Panhandle, McKenzie river, the fields of Persia and vary-

other fields of importance. In a treatise on the Sweetgrass rch, written in 1928, E. Byers Em-

Correlation

'No doubt exists regarding the correlation of the Devonian series which has a thickness of from 335 to 425 feet. It is generally divisible dithologically into an upper and lower limestones, spearated by varying thickness of shale and shaley limestone. The upper division weathers yellow and is generally corralline and contains some dolomitic beds, which are underlain by greenish and bluish shales alternating with thin limestones. Beds of salt and gypsum occur in the formation at Athabaska, Northwest territories, Canada, are of the Devonian series.

"This district may be said to comprise within its limits the district north of Latitude 54, west of the Great Slave lakes and east of the Rocky Mountains. Oil seepages and drilled wells have proven the senoul horizon to be percentifications. general horizon to be petroliferous throughout the entire extent of at least 1,000 miles. The lithological character and stratigraphic relations of the limestones and shales are al-most identical throughout the dis-

Sands Fed From Devonian

"What is probably the world's greatest seepage of bituminous and asphaltic material exist in the "tar sands" on the Athabasca river. These sands are probably Dakota and immediately overlie the Devonian. The tar sands underlie an area over 1,000 square miles in extent. Reds in the Cretaceous series overlie the Devonian in the southern part of this district, but the Dakota sandstone which occupies the base thins very rapidly south of this district and by the time the Sweet-grass Arch is reached it is either absent or lenticular and quite thin. The distance from the last surface sures of the Devonian to the is but a little more than 300 s. In this interval the Koot-Devonian and Madison limeenal. Devonian and Madison lame-stone group have come in. There is no geological reason why the petroliferous character of the rocks should have changed in this dis-tance. That they have not changed is proven by the fact that all wells drilled on the Arch that have penetrated the formation have found some oil or gas; namely the Bears Den, Troy Sweetgrass, Three-in-One, Frazer deep test, Dry Fork at Con-rad, Cascade Oil & Gas Co., northwest of Great Falls, Allen Oil Co., Rainbow No. 2, and the Great Northern Mutual, north of Vaughn. At least four of these wells were

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KLINGLER'S GARAGE

SHELBY, MONTANA

"It might be well to state that production from the Dewonian and older limestones might be somewhat erratic and irregular or in other erratic and irregular or in other words spotted on on account of the scarcity of sandy strata the fissile character of the beds and the presence of oil in dolomitic limestone or gypsilferous beds. It is also quite probable that any oil found will have an asphaltic base but may be quite high in gravity. The Devonian is one of the main producing series in the eastern fields.

Is It Ordovician?
Below the Devonian is the Silus Below the Devonian is the Silurian, from 190 to 275 feet thick and below that the Ordovickan, which has been penetrated to a dept of about 1600 feet in the deepest well that has been drilled in northwestern Montana, the Emrick report continues. This appears to be bottomed in a dolomite limestone which may be the Trenton. The report of 3,000 feet of Devonian at Moose Dome has led local oil men to wonder whether the porous imestone sought at 3,100 feet at Moose Dome actually is Ordovickan which is the famous Wilcox horizon of Oklahoma. All beds thicken to the west but not emough to increase the west but not emough to increate the Devonian from 300 to 3,0 feet, Montanans say.

CANADIAN LUCK

35-3W, was put on the pump this week It made 17 barrels the first day, pumping off in nine hours. It

day, pumping off in nine nours. It pumped off in seven hours the next day and in two hours the third day. On the east side of this same high gravity oil pool, Tomilson, Agent-Davidson No. 1, NW NE 14 SE 14, 28-35-2W. is drilling at 1325, after having cemented off lost tools at 1240.

Anaconda-Kevin-Government No. 5, NW SE¼ NE½ 19-35-2W was acidized this week and made 25 barrels of oil and 45 barrels of

Water.
Cassidy-Mary No. 1, CSL NE ½
NW ½ 5-34-3W, drilling, 1200,
Capitol-Pace No. 1, C SE ½ SW ½
27-36-1W, fishing, 2010.
Crumley-O'Haire No. 2, NE SW ½
SE ½ 35-36-2W. had Sunburst sand
from 1460 to 1497 and bottoms at
1502. It is raided at from 10 to 1 It is rated at from 10 to 15

Eddy-Seabrook No. 7, SE SW 1/4
SW 1/4 19-35-2W, drilling, 1275.
Howell-Lanewood-Osthoff No. 1,
NE SE 1/4 SW 1/4 1-35-3W, shut down
after running 8-inch casing at 1080.

after running 8-inch casing at 1080. Horner-Shelton-Ness No. 1, C NW ¼ NE ¼ 30-35-3W, was this week plugged and abandoned, unable to make a well from the showing. Ogden-Kevin-Zachor No. 7, SE SW ¼ NW ¼ 20-35-1W, was acidized and is making 35 barrels.
Ohio-Swayze .No. .3, . SE NE ¼ SW ¼ 35-36-2W, drilling, 650, California Co.-Zimmerman No. 6, NE NW ¼ NE ¼ 36-35-2W, drilling 1100.

Crumley & Son-Freiberger No. 10, SW NE 1/4 SE 1/4 24-35-2W, drilling,

Dockery et al-Gunderson No. 2, SE SW ½NW ½ 19-35-2W, south of the excellent No. 1 producer is drilling at 600.

E. BYERS EMRICK

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not located upon favorable struc- A. C. M. REFINERY AT GREAT FALLS TO RESUME WORK

wire mill and copper refinery at Great Falls will resume immediwas made by C. F. Kelley, president of Anaconda Copper Mining Co., in Great Falls Thursday. Mr. Kelley is here together with J. R. Hobins, executive vice president, and D. M. Kelly, vice president. Steam plants are being installed to supply electric energy lacking from hydro electric plants ciwing to the unprecedented drouth which has lowered the waters of the Missouri river. Power consumption elsewhere is being curtailed whereever possible. Electric street cars in Butte are shortly to be replaced with busses, to make the power available for operating the mines,

Mr Hobbins expressed optimism regarding copper and zinc markets, in an interview with the Great Falls

"The demand for copper today is the best since 1929," Hobbins said "and the situation in regard to Rimrock Production Co. is dril- high grade zinc probably is better ling Schmidt No. 3, north of its best well at 760 feet.

In the south end of this pool, in part to development within the Watson-Leach No. 2, NE corner 31 last two years of a large demand for shell cast fittings in the automotive industry. Increased industrial activities in the last few years have reduced the stocks of zinc to a low figure. I can see no reason why Montana copper and zinc operations should not resume their normal course as soon as sufficient precipitation is received in the state to give normal water supply."

NEW WILDCAT

Laurel Oil Company, a new concern ramrodded by G. H. Randall HOME OWNERS LOAN CORPORATION, of Billings ,has moved a National rig, capable of drilling 3500 feet, onto location NW 4 of SW 4 Sec. 7. T. 2S, R. 24E.

Laurel Oil Company location is about 17 miles west of Billings and about 1½ miles Northeast of the Riverton Oil company well, now be-ing drilled by J. W. Havlik, 4 miles West of Laurel.

Mr. Randall expects to find pay t 1900 feet in the Morrison for

DEEP DRILLING

mation permits an excessive water condition that washes out oil ac-cumulations and predominates the oil flow."

Dr. Thom will remain in camp at Red Lodge until August 29th when he will return to the East.

Dr. Thom was asked the question, "Do you think the Midland Empire will eventually develop a production equal to some of the large Texas fields?" Dr. Thom would not predict such a possibility, however, he said, "Deep drilling in many locatione is finding larger producing wells which indicates a possibility of much greater results than in the past."

It is a known fact that many of

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SUMMONS

JOSEPH JELLICA and MARY JELLICA, his wife, and all other persons, unknown claiming or who might claim any right, title, estate or interest in, or lies or encumbrance upon, the real property described in the complaint, or any thereof, adverse to plaintiffs ownership, or any cloud upon plaintiffs title thereto, adverse to plaintiffs title thereto, whether such claim or possible claim be present or contingent, including any claim or possible claim of dower, inchoate or accrued.

claim or possible claim of dower, inchoate or accrued.

THE STATE OF MONTANA Sends Orectings to the Above Named Defendants. And to Each of Them:
You are hereby summoned to answer of the complaint in this action which is filled in the office of the Clerk of this Court, a copy of which is herewith served upon one of you in each County wherein any of you reside, and to file your answer and serve a copy thereof upon the plaintiffs attorney within twenty days after the service of this Summons, exclusive of the day of service, and in case of your failure to appear or Answer, Judgment will be taken against you by default, for the relief demanded in the complaint. This action is brought for the purpose of quieting title to that certain piece of the purpose of

NOTICE TO VALUE OF STATE OF MARTHA ELLEN MIDDLE-ON, Deceased, NOTICE IS HEREBY GIVEN by the indersigned the administrator of the state of Martha Ellen Middleton, Deceased, to the creditors of and all persons laving claims against the said Deceased, o exhibit them with the necessary vouchers, within four months after the first publication of this notice, to the said administrator at the office of Swanberg & Swanberg, 527-525 Ford Building, Great Falls, Montana the same being the place for the transaction of the business of said estate in the County of Cascade.

Dated July 29th, 1837.

WILLIAM MIDDLETON, Administrator of the estate of Martha Ellen Middleton, Deceased, Deceased, International Country of Cascade.

Date of first publication, July 31, 1937

N THE DISTRICT COURT OF THE EIGHTH JUDICIAL DISTRICT OF THE STATE OF MONTANA IN AND FOR THE COUNTY OF CASCADE.

RAYMOND K. HAHN, EVELYN HAHN, FRANK LAMBERT and RUTH 8.

SHERIFF'S SALE UNDER DECREE
OF FORECLOSURE
Under and by virtue of the Decree in
the above entitled case the Sheriff of
said County will sell at Sheriff of
the show named defendants in and to
the show named defendants in and to
the following described property, to-wit:
A three-acre tract of land lying in
the Southeast Quarter of the Northeast
Quarter (SEINE2) of Section Twentyfive (25), Township Twenty (20), North
Range Three (3) East of the Montana
Principal Meridian, in the County of
follows: Beginning at a point one
thousand four hundred fifty-three
(1,453) feet south of the Northeast
Corner of Section Twenty-five (25),
Township Twenty (20) North Range
Three (3) East of the Montana Principal Meridian; thence west six hunded fifty-three
(3) East of the Montana Principal Meridian; thence west six hunded fifty-three and four-tenths
(653,4) feet; thence ast six hundred fiftythree and four-tenths
(853,4) feet; thence and sundred fiftythree and four-tenths
(853,4) feet; thence north two hundred (200) feet to
the place of beginning.

Dated at Great Falls, Montans, this
lith day of August, 1937.

GUY PALAGI Sheriff,

By HUGH C. SUTHERLAND

Under Sheriff,

Date of first publication Aug. 14 1337

N THE DISTRICT COURT OF THE EIGHTH JUDICIAL DISTRICT OF THE STATE OF MONTANA, IN AND FOR THE COUNTY OF CASCADE.

SUMMONS

and serve a cepy thereof upon the plaintiffs attorney within twenty days after
the agrice of this Summons, exclusive
tof the day of service, and in case of
your failure to appear or answer, Judgment will be taken against you, by desant, for the relief demanded in the
complaint. This is an action for divorce
brought upon the grounds of willful desertion without cause, continuing for a
plant of more than one year prior to
the following the complaint herein.
Witness my hand and the Seni of
(SEAL)

GEORGE HARPER, Clerk.
By Julius Hilgard, Deputy Clerk.
SWANBERG & SWANBERG,
Attorneys for Plaintiff,
Great Falls, Montans.
227-529 Ford Building,
Date of first publication, Aug. 7, 1967.
4x

IN THE DISTRICT COURT OF THE EIGHTH JUDICIAL DISTRICT OF THE STATE OF MONTANA, IN AND FOR THE COUNTY OF CASCADE. SUMMONS

MELVIN P. NUMMEDAHL,

RUTH NUMMEDAHL,

THE STATE OF MONTANA Sends Greetings to the Above Named Defendants, and to Each of Them:
You as heeby summoned to answer the complaint in this action which is filed in the office of the Clerk of this Court, a copy of which is herewith served upon one of you in each County wherein any of you reside, and to file your answer and serve a copy thereof upon the plaintiffs attorney within twenty days after the service of this Summons, exclusive of the day of service, and in case of your failure to appear or answer, Judgment will be taken against you by default, for the relief demanded in the complaint. This is an action for divorce brought upon the grounds of wilful desertion continuing for a period of more than one year prior to the filing of the complaint herein.

Witness my hand and the Seal of said RUTH NUMMEDAHL,

in.

'itness my hand and the Seal of said
rt this lith day of August, 1957.

GEORGE HARPER, Clerk.
By H. J. SKINNER, Deputy Clerk.
ANBERG & SWANBERG,
orneys for Plaintiff,
529 Ford Building,

TOOLE COUNTY

By Shelby Abstract & Title Company SHELBY, MONTANA

CALL FOR BIDS ON STATE OIL AND GAS LEASES SEPTEMBER R. 1987
-Notice is hereby given that the State Board of Land Commissioners of the State of Montana will receive bids at open connectitive bidding at the State Land Office in the State Capitol at 2.00 o'clock P. M., Wednesday, Sept. 8, 1937, for oil and gas leases on the following described lands:
Subdiv Sec Twp. Rgc. Acres Subdiv Sec Twp. Rgc. Acres 1 8E; 4 27N 5W 160
2 WiWi 16 27N 5W 160 5W) 5W) 5W) 28 28N 8W{SE} 28N 5W) EISEI. 5W)

Eyse4, Swyse4
5 Lots 2, 3, 4, 5
Sei3nW4 6 27N 5W)
Lots 3, 4, 5
Ei3sW4 31 28N 5W)
6 All 26 35N 4W 640
The Board reserves the right to reject any and all bids,
For further information apply to:
NANITA B. SHERLOCK,
Secretary, State Board of Land
List Publication August 21
2nd Publication August 23
3rd Publication September 4

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By Glacier County Abstract CUT BANK, MONTANA

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