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STATE OF MONTANA

BOARD OF RAILROAD COMMISSIONERS

STATE OF MONTANA

ANNUAL REPORT OF
OIL & GAS WELL DIVISION

FOR

FISCAL YEAR ENDED
OCTOBER 31, 1949

PREPARED BY

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RESUME OF MONTANA OIL & GAS OPERATIONS
FOR THE FISCAL YEAR ENDING OCTOBER 31, 1949

There were a total of 311 wells drilled in the State, of which 154 were commercial oil wells, 74 were commercial gas wells, 73 were dry, and 10 untested.

Several developments are of particular interest. The Northern Ordnance Inc. completed a wild cat well in Blaine County in the Bowes Field, (Sec. 2-19N-31E) which on a pump test averaged 125 barrels of oil per day the last four days of a six day test. The oil is 19.9 gravity and is found in the Basal Ellis. The gas in this field is found in the Eagle formation at less than 1000 feet in depth. About six miles west of Kevin in Sec. 12, Twp. 34 N., R. 4 W., Engelking brought in a well flowing 65 barrels of 39.5 gravity oil per day from the Basal Ellis sand. The well is an offset to the discovery well drilled by the Hesla Oil Company during the past year which opened a new pool in the area between the Kevin-Sunburst and Cut Bank fields. The Texas Company completed a well with an initial production of between 50 to 100 barrels of 31.5 gravity oil in the Sumatra area (Sec. 5-9N-34E) in Rosebud County. The production was found in the top of the Amsden formation, a lime that reacts favorably to acid. It is possible that after this well has been produced for awhile, another acid treatment may increase the production considerably.

In Devil's Pocket (Musselshell County), Bill Hanlon completed both a gas and oil well in Sec. 9, Twp. 10 N., R. 22 E. in the Basal Ellis and Amsden formations. The sweet gas measured better than 50,000 MCF for a combination of Basal Ellis and the top of the Amsden gas, while the oil just below is estimated to be about 60 barrels per day of 30 gravity. The gas in this well was entirely cased off and they are now trying to condition the well as an oil well since it was drilled into water, and when plugged back both water and oil were shut off. When they are through with the present work it will probably make a small commercial oil well, though if not they should be able to perforate for a commercial gas well.

In the Jack Creek Area of Carbon County (Sec. 13-7S-23E) J. C. Shupak completed a 25 barrel well of high grade oil (39.8°) which may be producing from the Dakota horizon about 506 feet. The exact horizon production is coming from has not been definitely determined due to a faulted condition in the area.

The attached plates contain a summary of the development work done in the oil and gas industry in Montana for the fiscal year ending October 31, 1949.

PRODUCTION

Following is a tabulation of the production by fields for Montana during the fiscal year:

<u>FIELD</u>	<u>TOTAL</u>
Bears Den	2,816 barrels
Berthelote	841 "
Big Wall	163,619 "
Border	14,793 "
Bowes	1,729 "
Brady	950 "
Cat Creek	468,151 "
Cedar Creek	2,808 "
Cut Bank	3,541,485 "
Dry Creek	107,807 "
Elk Basin	2,450,569 "
Flat Coulee	866 "
Frannie	22,918 "
Gage	19,948 "
Jack Creek	360 "
Kevin-Sunburst	1,567,607 "
Lake Basin	718 "
Lothair	116 "
Melstone	46,806 "
Mosser	1,603 "
Pondera	517,757 "
Ragged Point	110,158 "
Reagan	212,768 "
Whitlash	10,359 "
TOTAL	<u>9,267,552 barrels</u>

	<u>BARRELS</u>			
	<u>1948</u>	<u>1949</u>	<u>INCREASE</u>	<u>DECREASE</u>
Cat Creek	536,277	468,151		68,126
Cut Bank	4,128,949	3,541,485		587,464
Dry Creek	106,395	107,807	1,412	
Elk Basin	2,299,920	2,450,569	150,649	
Kevin-Sunburst	1,634,897	1,567,607		67,290
Pondera	336,786	517,757	180,971	
Ragged Point	73,647	110,158	36,511	
Reagan	38,884	212,768	173,884	
Big Wall	12	163,619	163,607	
Melstone (Shut down last 4 months)	4,649	46,806	42,157	
All other fields	<u>122,694</u>	<u>80,825</u>		<u>41,869</u>
	9,283,110	9,267,552	<u>749,191</u>	<u>764,749</u>

In the State as a whole, the total output for all fields was 9,267,552 barrels, as compared with 9,283,110 barrels for the preceding period, a decline of 15,558 barrels. The Amerada wells in the Melstone field were shut in for the past four months due to lack of market, otherwise the total oil produced would have been increased by approximately 40,000 barrels because the field produced over 11,000 barrels in June. The big decline in production was in the Cut Bank field, 587,404 barrels, while Cat Creek decline 68,126 barrels, Kevin-Sunburst 67,290 barrels, and all unlisted small fields a total of 41869 barrels.

NORTHERN AREA PROVEN FIELDS

There were a total of 32 wells drilled in the Cut Bank field, of which 16 were producing oil wells, 9 producing gas wells, 6 dry and 1 untested. The field shows a much larger decline in production since the total decline for 1948 was only 117,652 barrels.

Three oil conservation projects are operating in the field. The Carter Oil Company inject natural gas in two in-put wells, in the Lander Pool in Twp. 35N, R. 6 W., that resulted in an approximate gain of 11% in the Sunburst sand oil production. The Union Oil Company have been injecting natural gas for three years past in one in-put well in the McGuinness pool in Twp. 35N., R. 5 W., resulting in an approximate 22% gain in Sunburst oil production from other wells in that area. The Texas Company inject natural gas in one in-put well in Sec. 16, Twp. 32 N., R. 5 W., in the South Cut Bank area which resulted in a leveling off of oil production from the other Cut Bank sand wells on the lease.

The Montana Power Company have laid all gathering lines from the hydrogen sulphide waste gas flares in both the Reagan and Cut Bank fields and have started their new scrubbing plant, with the cleaned gas going into their main line. This plant is located in the NW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 7, Twp. 35 N., R. 5 W.

In the Kevin-Sunburst field, a total of 96 wells were drilled, of which 78 were commercial oil wells, 6 producing gas wells, 11 dry, and 1 untested. Thirty exhausted wells were plugged and abandoned. The field shows a decline of 67,290 barrels against an increase for last year of 42,467 barrels, but a total decline of approximately 225,000 barrels was recorded for 1947, therefore it is seen that continual drilling and acid treatments have helped.

The use of bottom hole pumps for the handling of more water have been demonstrated favorably. The Crumley Fryberger #37 in Sec. 24, Twp. 35 N., R. 3 W., by handling 1500 barrels of water per day, with 3 barrels of oil, increased the production of a diagonal northeast offset (#22) from 2 barrels per day to 240 barrels per day. At the end of two weeks, this well was still making 8 barrels of oil per hour. L. J. Yealy has good commercial production in wells he has drilled by the use of bottom hole pumps in Sec. 33, Twp. 35 N., R. 2 W. This lease was abandoned by the Ohio Oil Company years ago, because they could not handle the water profitably in those days.

Twenty wells were drilled in the Pondera field, of which 16 were commercial oil wells, two were dry and two testing. The field shows an increase in production of 180,971 barrels.

In the Reagan field twelve wells were drilled, of which 10 were commercial oil, one a commercial gas well and one dry. Production has increased 173,884 barrels over 1948.

SOUTHERN AREA PROVEN FIELDS

Elk Basin is still the largest producer in the southern area, with a total of 2,450,569 barrels, but only seven wells were completed, all commercial oil wells.

The Cat Creek field production declined again this year with a total loss of 68,126 barrels, the field producing a total of 468,151 barrels. A total of 15 wells were drilled of which six were commercial oil wells, 9 dry and abandoned, and 1 with status still undetermined, though it is doubtful if it can be made into a commercial well. This well, the R. M. Amick #1 located in Sec. 7, Twp. 15 N., R. 30 E., was drilled to the Amsden before plugging back to test a good show in the Second Cat Creek sand. All sands with exception of the Second Cat Creek were dry. The field should be tested in the Kibbey horizon, since a well drilled by the California Company in 1941 reported a show of oil in that horizon together with the Ellis sand, though the well was abandoned at 5705 feet, and it was not until 1945 that any well was drilled to the Ellis sand where prolific production has been found.

The Big Wall field produced a total of 163,619 barrels, with only 12 barrels reported for 1948. Seven wells were completed, 6 as commercial oil wells and 1 dry. Nine wells were drilled in the Melstone field of which four were commercial oil wells, 4 dry and abandoned, and 1 untested. The latter well, the Amerada Hougen #3 well, made a few barrels of oil per day, but on account of the depth of the hole may never be put on production. The field produced 46,806 barrels, but has been shut in since June due to lack of market. Three wells were drilled in Ragged Point, one a commercial oil well and two dry. To date the Kibbey sand has not been very productive here, there being only 3 oil wells out of 10 holes drilled, though it is possible the Amsden horizon may be productive if drilled farther down structure. The only well drilled in Dry Creek was drilled to the gas horizon only and it is a fair commercial gas well. Cleaning out some old oil wells increased production 1,412 barrels, or a total production for the year of 107,807 barrels.

NORTHERN AREA WILD CAT WELLS

Some of the wild cat wells in this area had good shows of oil, and either will be tested farther or another well drilled on the structures. The Mid-West Schnitzmier in Sec. 14, Twp. 35 N., R. 16 E., on the Cassidy structure, had a show of oil in the Madison but due to pipe trouble abandoned, and they expect to drill another to test the area.

The Stephens Petroleum Tribal in Sec. 9, Twp. 29 N., R. 8 W, on the

Blacktail structure, had good shows of oil in the cores from the Madison but they have been testing without satisfactory results to date. More tests will be made in the spring. The General Petroleum Waters #1 in the Dutton area, Sec. 12, Twp. 24 N., R. 2 W, was drilled to the Devonian but plugged back to the Ellis-Madison contact to test. They had a saturated core at this horizon, but to date have tested without satisfactory results. The Pioneer Oil Company in Sec. 4, Twp. 34 N., R. 2 W., Kevin-Sunburst field deep test, failed to find production in the Devonian, but expect to drill deeper next year. The Lee Edwards well in Sec. 17, Twp. 35 N., R. 1 W., in the same field is drilling in the Cambrian and has had little or no show to date, though they expect to run pipe and acidize at a later date. Three wells were drilled south of the Great Northern Railroad in what could be called the Devon or Lothair area, all dry. Two were drilled by L. B. O'Neil, and 1 by the Texas Company. In the Bannatyne field, the Tom Carney Speer #1 well located in Sec. 5, Twp. 25 N., R. 1 E., is standing with 1100 feet of oil in the hole, and will be put on the pump after more wells have been completed and a central pumping plant erected.

SOUTHERN AREA WILD CAT WELLS

The British American Oil Company's well in Clark Fork structure, Sec. 26, Twp. 9 S., R. 22 E., was completed as a gas and distillate well in the Dakota horizon, but to date has not been produced. The General Petroleum Corporation drilled a deep test on the Freedom Dome, Sec. 25, Twp. 16 N., R. 38 E., with all horizons dry and the hole was abandoned, as was a deep test on Alice Dome drilled by the Phillips Petroleum Company in Sec. 9, Twp. 13 N., R. 34 E.

The Shell Oil Company drilled a dry hole in the Ash Creek structure in Sec. 36, Twp. 9 S., R. 37 E. No encouraging shows were encountered though the well was drilled through all known producing horizons and to a total depth of 11,519 feet. Two holes, one drilled by the Amerada Petroleum Corporation in Sec. 15, Twp. 4 S., R. 57 E., the other by the Northern Ordnance Inc. in Sec. 34, Twp. 9 S., R. 55 E., in what is called the Ridge area in Carter County, were both dry.

Ike Taylor drilled his Clauson #2 well in Sec. 27, Twp. 13 N., R. 28 E., to the Madison in Rattlesnake Butte, with no results and plugged back into the pipe, making no attempt to produce the oil originally found in the Second Cat Creek sand at this time. After more wells have been drilled to the sand, this hole will probably be cleaned out and the well produced.

CEDAR CREEK AND BOWDOIN

There were 33 commercial gas wells completed at Bowdoin with no dry holes, while 10 wells were completed in Cedar Creek, 9 being commercial gas wells and 1 a dry hole.

CONCLUSION

During the past year both the new Carter Oil Company's 20,000 barrel

per day and the Continental Oil Company's 7,500 barrel per day refineries, located at Billings, were put into operation. A new 68 mile twelve inch pipe line, with a daily crude capacity of 40,000 barrels per day, has been constructed from Silver Tip station in Wyoming to Billings to serve these refineries and also the Farmers Union at Laurel.

It is rumored but not confirmed that the Texas Company plan on a refinery in the same area, a logical conclusion since they have large production in both southern Montana and Wyoming with transportation a decided factor. The big increase in Canadian production has almost eliminated that area as a market for Montana crude.

Wildcat drilling operations in the State were somewhat curtailed the past summer, but General Petroleum Corporation, Texas Company, Amerada Petroleum Corporation, Phillips Petroleum Company, and others, are continuing development. Wells were completed by these companies and other companies including the Gulf Oil Corporation, British American Oil Company, Husky-Rangely Company, Hunt Oil Company, Union Oil Company, and Shell Oil Company. New and old line companies continue to return to the state and are gradually increasing their office staffs. Oil and gas leasing operations have been very extensive, and some 21 geophysical survey crews were working in the State during the summer.

The Montana Power Company has announced they will construct an 83 mile 12-3/4" welded gas transmission pipe line between Bozeman and Butte the coming year. When completed, this company will have more than 400 miles of main transmission lines between its natural gas fields at Cut Bank on the north and Dry Creek on the south.

Development of gas reserves has not been sufficiently rapid to satisfy current and future markets, particularly in eastern Montana and the Dakotas. In an effort to increase this supply, the Montana Dakota Utilities Company have contracted with the Pure Oil Company to take gas from their Poison Spider field near Worland, Wyoming, and transport it through an \$8,000,000.00 pipe line to Baker, Montana. The contract with the Pure Oil Company requires the Montana Dakota Utilities Company take delivery of 35,000,000 cubic feet daily. Any surplus gas will be used to re-pressure the Baker-Glendive gas field. To date, the Federal Power Commission has not approved this pipe line but it is expected to do so in the near future.

The Montana Dakota Utilities have also contracted with the Texas Company to take gas from the Utopia field just north of Chester and Lothair for delivery into their main line at Telstad, then to Great Falls. The gathering line is now under construction and is contracted to be in operation by the first of the year. The Texas Company have better than 100,000,000 cubic feet of sweet gas developed in the Utopia field, the rock pressure being about 1000 PSI.

Two blocks of Indian leases, one of 21,257.12 and one of 16,253.56 acres on allotted and tribal lands in Poplar Dome are being offered to the highest sealed bidder by the Fort Peck Indian Agency. Each tract calls for a well to be drilled on it to 4500 feet, starting within one

year after all leases have been approved by the Secretary of the Interior. It is possible a new oil and gas field will be discovered here. With three new oil fields discovered during the year, the Northern Ordnance at Bowes, the Texas at Sumatra and Bill Hanlon at Devil's Pocket, and with more intensive development of the new fields of Big Wall, Melstone and Sumatra, crude production in Montana should be greatly augmented next year.

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BOARD OF RAILROAD COMMISSIONERS

State of Montana

OIL & GAS WELL DIVISION

Fiscal Year Ended October 31, 1949

PLATES ATTACHED

- Plate I - Wells completed - Abandonments - and Status of Uncompleted wells during Fiscal Year ended October 31, 1949 - CUT BANK FIELD (REAGAN)
- Plate II - Wells completed - Abandonments - and Status of Uncompleted wells during Fiscal Year ended October 31, 1949 - KEVIN-SUNBURST FIELD
- Plate III- Wells completed - Abandonments - and Status of Uncompleted wells during Fiscal Year ended October 31, 1949 - Cat Creek Field
- Plate IV - Wells completed in other fields and areas during Fiscal Year ended October 31, 1949
- Plate V - Status of Uncompleted Wells at end of Fiscal Year on October 31, 1949, not previously listed
- Plate VI - Old exhausted wells plugged and abandoned - Outside Areas - during Fiscal Year ended October 31, 1949
- Plate VII- Status of wells as of October 31, 1949

CUT BANK WELL COMPLETIONS (INC. REAGAN)
FISCAL YEAR ENDING OCTOBER 31, 1949

<u>COMPANY</u>	<u>LEASE</u>	<u>LOCATION</u>	<u>DATE COMPLETED</u>	<u>RESULTS</u>
Big West Oil Co.	Poore Estate #1	19-34N-4W	11-6-48	7,810 MCF Gas
Phillips Pet. Co.	Farmers St. Bk. #8	17-33N-5W	11-9-48	1/2 BOPH
Union Oil Co	Kemmer #1	30-36N-5W	11-10-48	66 bbls.
Levi Burd	Tribal #6	32-32N-5W	11-10-48	62 bbls.
Texas Company	S. J. Walker #4	2-35N-6W	11-18-48	10 bbls.
Carter Oil Co.	Jacobson "T" #6	8-33N-5W	11-20-48	36 bbls.
Texas Company	Jones #3	7-33N-5W	11-22-48	25 bbls.
Carter Oil Co.	Linguist #3	10-32N-5W	11-24-48	Dry - P & A
Phillips Pet. Co. (A.B.Cobb & Co.)	Tribal 211 #3	19-32N-5W	11-29-48	Lost hole - P & A
Union Oil Co.	P. M. Unit #1	5-34N-5W	12-5-48	4,000 MCF Gas
Phillips Pet. Co. (A.B.Cobb & Co.)	Tribal 229 #7	25-32N-6W	12-17-48	Temp. abd.
Phillips Pet. Co.	Tribal Ct. #11 #6	23-32N-6W	12-19-48	Dry - P & A
Phillips Pet. Co.	Tribal 8730 #3-A	19-32N-5W	1-7-49	9 bbl. in 8 hrs.
Hannah-Porter Inland	Tribal 343 #4	23-32N-6W	1-9-49	3 bbls.
Carter Oil Co.	Cardwell #5	10-35N-6W	1-14-49	23 bbls.
Big West Oil Co.	F. Poore #1	19-34N-4W	1-17-49	8,800 MCF Gas

CUT BANK WELL COMPLETIONS (INC. REAGAN)
FISCAL YEAR ENDING OCTOBER 31, 1949

<u>COMPANY</u>	<u>LEASE</u>	<u>LOCATION</u>	<u>DATE COMPLETED</u>	<u>RESULTS</u>
Phillips Pet. Co.	Miller "B" #6	36-32N-6W	1-25-49	22 bbls. in 7 hrs.
Par Oil Co.	Haines #8	2-34N-6W	3-23-49	20 bbls.
Big West Oil Co	Ahlstead #1	8-34N-4W	4-13-49	Dry - P & A
Coolidge & Coolidge	Holt et al #1	24 - 35 N - 6 W	5-2-49	7,304 MCF gas
Big West Oil Co.	State #1	30-35N-4W	6-8-49	4,750 MCF Gas
Drumheller	Yunck #2	1-34N-6W	6-27-49	1,400 MCF Gas
Texas Company	Sherburne Merc. #1	19-36N-4W	7-5-49	7,000 MCF Gas
Union Oil Co.	Tribal 422 #1	31-36N-6W	7-9-49	Dry - P & A
Hagerty Oil Co.	Tribal 431 #1	4-31N-5W	7-15-49	15 bbls.
Big West Oil Co.	Hawn #1	18-34N-4W	8-5-49	15,080 MCF Gas
Hagerty Oil Co.	Jackson #2	25-34N-6W	8-6-49	45 bbls.
Burd, Levi J.	Tribal 418 #1	26-32N-6W	8-28-49	60 bbls.
Texas Company	Sherburne "A" #3	10-34N-6W	9-12-49	10 bbls.
Hagerty Oil Co.	Tribal 419 #1	12-32N-6W	9-14-49	18 bbls.
Union Oil Company.	Luther College Unit2	18-34N-4W	10-13-49	10,000 MCF Gas
Carter Oil Company	Texas-Fee #1	13-33N-6W	10-21-49	Dry - P & A

REAGAN AREA

<u>COMPANY</u>	<u>LEASE</u>	<u>LOCATION</u>	<u>DATE COMPLETED</u>	<u>RESULTS</u>
Montana Power Co.	Tribal 355 #6	16-37N-7W	11-7-48	47 bbls. Nat'l.
Montana Power Co.	Tribal 355 #7	9-37N-7W	11-30-48	40 bbls. in 4 hrs.
Montana Power Co.	Tribal 355 #8	9-37N-7W	12-20-48	96 bbls.
Union Oil Company	Tribal 194 #9	15-37N-7W	2-6-49	88 bbls. -1,800 MCF Gas
Union Oil Company	Tribal 194 #11	15-37N-7W	3-17-49	Flow 60 - 1st 10 days 52
Union Oil Company	Tribal 194 #10	29-37N-7W	4-3-49	Water - Dry - P & A
Montana Power Co.	Tribal 355 #9	9-37N-7W	4-9-49	72 bbls.
Union Oil Company	Tribal 194 #13	10-37N-7W	5-7-49	Swab 65 bbls.
Montana Power Co.	Tribal #355 #10	9-37N-7W	6-4-49	145 bbls.
Union Oil Company	Tribal 194 #14	15-37N-7W	8-2-49	60 bbls.
Union Oil Company	Tribal 194 #12	15-37N-7W	8-11-49	65 bbls. - 660 MCF Gas
Union Oil Company	Tribal 194 #15	15-37N-7W	8-25-49	2,255 MCF Gas

SUMMARY OF CUT BANK COMPLETIONS (INC. REAGAN)

FOR FISCAL YEAR ENDING OCTOBER 31, 1949

<u>No. Wells</u>	<u>Status</u>
10	Oil wells drilled on State & Patented Land
16	Oil wells drilled on Government Land
9	Gas wells drilled on State & Patented Land
1	Gas well drilled on Government Land
3	Dry wells drilled on State & Patented Land
4	Dry wells drilled on Government Land
<u>1</u>	Temporarily abandoned well on Government Land
44	Total wells drilled in Cut Bank Field during Fiscal Year ending October 31, 1949

STATUS OF UNCOMPLETED WELLS IN
CUT BANK FIELD (INC. REAGAN) OCTOBER 31, 1949

<u>COMPANY</u>	<u>LEASE</u>	<u>LOCATION</u>	<u>STATUS</u>
Texas Company	Sec. 11 Unit #13	11-35N-6W	Drlg. 2340
Texas Company	Stuft M 245 #4	30-36N-5W	Drlg. 3205
Union Oil Company	State #1	20-37N-4W	Rng. 10-3/4" @ 467
Hardrock Oil Co.	GF 087337 #3	30-35N-4W	Rng. 5-1/2" @ 2500

CUT BANK FIELD - OLD EXHAUSTED WELLS

PLUGGED AND ABANDONED IN 1949

<u>COMPANY</u>	<u>LEASE</u>	<u>LOCATION</u>	<u>STATUS</u>
Carter Oil Company	Rasmussen #4	33-33N-5W	1-20-49, P & A, oil
Haglund, John C.	Haglund-Fee #3	13-34N-6W	P & A 4-7-49, Oil
Steele Creek Producers	Cunnen #5	19-34N-5W	P & A 3-4-49, Oil
Montana Power Company	Tribal 355 #1	10-37N-7W	10-8-48, P & A, Oil, converted to gas

KEVIN-SUNBURST WELL COMPLETIONS

FISCAL YEAR ENDING OCTOBER 31, 1949

<u>COMPANY</u>	<u>LEASE</u>	<u>LOCATION</u>	<u>DATE COMPLETED</u>	<u>RESULTS</u>
Sorrell, Ray	Sorrell #7	7-34N-2W	11-1-48	35 bbls.
Texas Company	US 083345 #8	9-35N-3W	11-3-48	172 bbls.
Stock Brothers	US 083240 #1 or 3	17-35N-2W	11-5-48	4 bbls.
Vander Pas, H.	McCormick #23	33-35N-2W	11-7-48	15 bbls.
Fulton Pet. Company	Thompson #11-A	28-35N-3W	11-9-48	25 bbls.
Imperial Craig Co.	Gauss #7	18-35N-1W	11-12-48	15 bbls.
Oien, C. T.	Engemoen #34	11-35N-2W	11-18-48	7 Bbls.
Hannah-Porter Co.	Fee #2	29-32N-1W	11-18-48	3,000 MCF Gas
Solberg, M.	Solberg #3	20-35N-3W	11-19-48	2 bbls.
Haeh, A. A.	M. M. Neumann #20	22-35N-2W	11-29-48	15 bbls.
Shay, C. W.	US 083247 #25	10-35N-3W	11-30-48	2 bbls.
Mills Oil Company	US 086693 #2	8-35N-2W	4-16-49	Dry - P & A
Pacific Western Oil Co.	US 085809 #13	9-35N-3W	12-11-48	150 bbls. in 17 hrs.
Sorrell, Ray	Mary #1	5-34N-3W	12-18-48	1 bbl.
Pioneers Oil Co.	US 086338 #2	4-34N-2W	12-23-48	60 bbls.
Vander Pas	McCormick #24	33-35N-2W	12-27-48	4 bbls.

KEVIN-SUNBURST WELL COMPLETIONS

FISCAL YEAR ENDING OCTOBER 31, 1949

<u>COMPANY</u>	<u>LEASE</u>	<u>LOCATION</u>	<u>DATE COMPLETED</u>	<u>RESULTS</u>
Edwards, Lee N.	Bailey #1	34-35N-3W	12-29-48	Dry - P & A
Oien, C. T.	US 083249 #2	2-35N-2W	1-2-49	250 MCF Gas
Agen, J. H.	Krause #8	9-35N-3W	1-15-49	5 bbls.
Enfield Oil Co.	Zachor #15	20-35N-1W	3-12-49	185 bbls.
Texas Company	Bruins #24	9-35N-2W	3-13-49	90 bbls.
Yarbrough	Sohn #6	23-35N-3W	3-22-49	46 bbls.
Texas Company	US 083345 #9	4-35N-3W	3-22-49	77 bbls.
Pacific Western	US 085809 #14	9-35N-3W	3-25-49	19 bbls.
Texas Company	Kenny N. Jt. #17	15-35N-2W	4-4-49	181 bbls.
Vander Pas	McCormick #25	33-35N-2W	4-7-49	Dry - P & A
Imperial Craig Co.	Bluhm #23	19-35N-1W	4-10-49	10 bbls.
Agen, J. H.	State "B" #1	16-35N-3W	4-12-49	5 bbls.
Edwards, Lee N.	DeGroat #2	9-34N-2W	4-14-49	Dry - P & A
Texas Company	H. Good #1	2-34N-3W	4-23-49	11 bbls.
Elliston & Featherstone	Gunderson #5	24-35N-3W	4-23-49	22 bbls.

KEVIN-SUNBURST WELL COMPLETIONS

FISCAL YEAR ENDING OCTOBER 31, 1949

<u>COMPANY</u>	<u>LEASE</u>	<u>LOCATION</u>	<u>DATE COMPLETED</u>	<u>RESULTS</u>
Shay, C. W.	US 083247 #26	10-35-3W	4-28-49	15 bbls.
Dakota-Montana	US 052093 "B" #28	19-35N-1W	4-29-49	25 bbls.
Texas Company	US 083345 #10	9-35N-3W	5-3-49	84 bbls.
Imperial Craig	Martin #14	18-35N-1W	5-4-49	20 bbls.
Vander Pas, H.	McCormick #26	33-35N-2W	5-5-49	Dry - P & A
Texas Company	US 083345 #11	4-35N-2W	5-9-49	90 bbls.
Engelking, J. R.	Danielson #6	20-35N-1W	5-10-49	64 bbls.
Crumley & Sons	Fryberger #37	24-35N-3W	5-15-49	32 bbls.
Mont. Oil & Mines	Ward #6	29-35N-3W	5-20-49	15 bbls.
Oien, C. T.	Engemoen #35	14-35N-2W	5-20-49	3 bbls.
P. M. K. Pet. Corp.	Kal-Kevin #22	19-35N-1W	5-31-49	25 bbls.
Vander Pas	McCormick #27	33-35N-2W	6-2-49	14 bbls.
McKee, E. R.	McKee #16	24-35N-2W	6-6-49	12 bbls.
Day, S. Victor	Halter #7	17-35N-2W	6-17-49	20 bbls.
Mont. Oil & Mines	Ward #7	29-35N-3W	6-21-49	5 bbls.

KEVIN-SUNBURST WELL COMPLETIONS

FISCAL YEAR ENDING OCTOBER 31, 1949

<u>COMPANY</u>	<u>LEASE</u>	<u>LOCATION</u>	<u>DATE COMPLETED</u>	<u>RESULTS</u>
Yealy, L. J.	Shaw #19	35-36N-2W	6-25-49	5 bbls.
Crumley & Sons	Fryberger #38	24-35N-3W	6-27-49	75 bbls.
Coolidge & Coolidge	US 052011 #2	13-34N-2W	6-28-49	2 BOPH
Oien, C. T.	US 083246 #7	11-35N-2W	7-5-49	10 BOPH
P. M. K. Pet. Corp.	Kal-Kevin #23	19-35N-1W	7-7-49	20 bbls.
Thompson Otis	Thumm #5	33-35N-3W	7-7-49	11 bbls.
Shay, C. W.	US 083247 #27	10-35N-3W	7-7-49	25 bbls.
Hesla Oil Co.	Negu #1	12-34N-4W	7-7-49	22 bbls.
P. M. K. Pet. Corp.	Bashor #2	9-35N-1W	7-8-49	Dry - P & A
Barmac Prod. Co.	Maughans #17	30-35N-1W	7-11-49	60 bbls.
Hannah-Porter Co.	McSweeney #1	28-32N-1W	7-12-49	740 MCF Gas
Shoemaker, C. W.	Fee #2	33-35N-1W	7-14-49	6 bbls.
Kluth, M. H.	Overby #1	31-34N-2W	7-16-49	Dry - P & A
Cascadia Dev. & Prod.	McManus #13	21-35N-2W	7-24-49	50 bbls.
Agen, J. H.	State "B" #2	16-35N-3W	7-25-49	Dry - P & A

KEVIN-SUNBURST WELL COMPLETIONS
FISCAL YEAR ENDING OCTOBER 31, 1949

<u>COMPANY</u>	<u>LEASE</u>	<u>LOCATION</u>	<u>DATE COMPLETED</u>	<u>RESULTS</u>
Halter, Wm.	Halter #2	21-35N-2W	7-28-49	7 bbls.
Johnson, Vern	McKee #4	7-35N-1W	7-30-49	150 bbls.
Hannah-Porter Co.	Levick-Rigg #1	17-32N-1W	8-5-49	396 MCF Gas
Oien, C. T.	US 083249 #8	14-35N-2W	8-8-49	4 bbls.
P. M. K. ^{Pet.} Corp.	Kal-Kevin #24	19-35N-1W	8-9-49	10 bbls.
Crumley & Sons	Fryberger #39	24-35N-3W	8-9-49	30 bbls.
Enfield Oil Co.	Zachor #16	20-35N-1W	8-12-49	60 bbls.
Edwards, Lee N.	US 087282 #4	20-35N-3W	8-14-49	75 bbls.
KeSun Oil Company	Stewart Carlson #12	25-35N-3W	8-17-49	100 MCF Gas
Texas Company	Emmert "B" #15	15-35N-2W	8-19-49	77-1/2 bbls.
Vander Pas, H.	McCormick #28	33-35N-2W	8-22-49	Dry - P & A
Engelking, J. R.	Danielson #7	20-35N-1W	8-26-49	8 bbls.
Coolidge & Coolidge	Wait "A" #9	13-35N-2W	8-29-49	Dry - P & A
Oien, C. T.	Helmerick #6	30-35N-2W	9-2-49	8 bbls.
Nepstad, O. A.	US 086322 #3	25-35N-2W	9-6-49	40 bbls.

KEVIN-SUNBURST WELL COMPLETIONS

FISCAL YEAR ENDING OCTOBER 31, 1949

<u>COMPANY</u>	<u>LEASE</u>	<u>LOCATION</u>	<u>DATE COMPLETED</u>	<u>RESULTS</u>
Nepstad & Montgomery	Zachor #10	20-35N-1W	9-7-49	20 bbls.
Shay, C. W.	US 083247 #28	10-35N-3W	9-10-49	200 MCF Gas est.
Texas Company	Fromke #2	11-34N-3W	9-12-49	28 bbls.
Imperial Craig Co.	Martin "2" #15	17-35N-1W	9-12-49	6 bbls.
Edwards, Lee	US 087282 #5	20-35N-3W	9-16-49	15 BOPH
Hesla Oil Company	Negu #2	12-34N-4W	9-17-49	9 bbls. natrl.
Nepstad Oil Co.	Haugen #9	11-35N-3W	9-23-49	30 bbls.
Texas Company	Britten #3	5-35N-2W	9-28-49	24 bbls.
Coolidge & Coolidge	Wait "B" #5	13-35N-2W	9-29-49	30 bbls.
Vander Pas, H.	Zachor #6	20-35N-1W	9-29-49	4 bbls.
Oien Oil Properties	Helmerick #7	30-35N-2W	10-1-49	25 bbls.
Sorrell & Son	Sorrell #4	8-34N-2W	10-3-49	7 bbls.
Fulton Pet. Co.	US 087309 #1	30-35N-3W	10-3-49	Dry - P & A
Shay, C. W.	Wait #19	24-35N-2W	10-3-49	5 bbls.
Pioneer Oil Co.	US 086338 #3	4-34N-2W	10-7-49	Untested

KEVIN-SUNBURST WELL COMPLETIONS

FISCAL YEAR ENDING OCTOBER 31, 1949

<u>COMPANY</u>	<u>LEASE</u>	<u>LOCATION</u>	<u>DATE COMPLETED</u>	<u>RESULTS</u>
Johnson & Maberly	Adams #2	12-34N-2W	10-8-49	55 bbls.
Hesla Oil Company	Negu #3	12-34N-4W	10-21-49	6 bbls.
Texas Company	US 083345 #12	4-35N-3W	10-23-49	182 bbls.
Ke Sun Oil Company	Stewart-Carlson #13	25-35N-3W	10-26-49	10 bbls.
Engelking, J. R.	Negu #1	12-34N-4W	10-28-49	200 bbls.

SUMMARY OF KEVIN-SUNBURST WELL COMPLETIONS
FOR FISCAL YEAR ENDING OCTOBER 31, 1949

<u>No. Wells</u>	<u>Status</u>
51	Oil wells drilled on State and Patented Land
19	Oil wells drilled on Government Land
4	Gas wells drilled on State and Patented Land
2	Gas wells drilled on Government Land
9	Dry wells drilled on State and Patented Land
2	Dry wells drilled on Government Land
<u>1</u>	Untested well drilled on Government Land
88	Total wells drilled in Kevin-Sunburst Field during Fiscal Year ending October 31, 1949

KEVIN-SUNBURST FIELD - OLD EXHAUSTED WELLS

PLUGGED AND ABANDONED IN 1949

<u>COMPANY</u>	<u>LEASE</u>	<u>LOCATION</u>	<u>STATUS</u>
Agen, J. H.	State B #1	16-35N-3W	P & A 10-5-49, oil
Aronow, B. A. S.	US 053153 #9	12-35N-3W	P & A 12-7-48, oil
Consolidated Gas Co.	Hauklund #1	27-33N-2W	P & A 4-9-49, gas
Cobb-Hardrock	US 084648 B #14	20-35N-3W	1-5-49 P & A, oil
Deloraine Oil Co.	McCormick #14	33-35N-2W	P & A 11-2-48, oil
Elliston & Featherstone	Gundersen #4	24-35N-3W	P & A 3-24-49, oil
Edwards, Lee	Davidson #6	28-35N-3W	P & A 7-20-49, oil
Fulton Pet. Co.	Thompson B #4	28-35N-3W	P & A 8-19-49, oil
Haeh, A.A.	Neuman #1	23-35N-2W	P & A 6-16-49, oil
Haeh, A. A.	Abell #6	26-35N-2W	P & A 6-16-49, oil
Hanlon, W. M.	State #3	16-35N-1W	4-7-49 P & A, oil
Hannah-Porter Oil Co.	State #1	16-32N-1W	6-17-49 P & A, gas
Johnsen, J. E.	Adams #1	12-34N-2W	P & A 4-10-49, oil
Ke-Sun Oil Company	Stewart Carlson #3X	25-35N-3W	P & A 1-2-49, oil
Ke-Sun Oil Company	Stewart Carlson #1	25-35N-3W	P & A 11-9-48, oil

KEVIN-SUNBURST FIELD - OLD EXHAUSTED WELLS

PLUGGED AND ABANDONED IN 1949

<u>COMPANY</u>	<u>LEASE</u>	<u>LOCATION</u>	<u>STATUS</u>
Montana Oil & Mines	Ward #2	29-35N-3W	P & A 7-15-49, oil
Nadeau Brothers	Russell #1	1-31N-3W	P & A 12-5-48, gas
Nadeau Brothers	State #1	36-32N-3W	P & A 11-19-48, gas
Nepstad & Montgomery	Zachor #1	20-35N-1W	P & A 6-3-49, oil
Nepstad & Montgomery	Zachor #6	20-35N-1W	P & A 6-15-49, oil
Nepstad Oil Company	Hougen #3	11-35N-3W	P & A 7-15-49, oil
Rim Rock Prod. Co.	US 085548 #7	18-35N-3W	P & A 4-14-49, oil
Rim Rock Prod. Co.	McNamer #1	29-35N-3W	P & A 12-3-48, oil
Rim Rock Prod. Co.	McNamer #4	29-35N-3W	P & A 12-30-48, oil
Sorrell & Edwards	De Groat #1	9-34N-2W	P & A 6-29-49, oil, saved as gas well
13th Pet Corp	Power #1	9-34N-1W	P & A 5-3-49, oil
13th Pet Corp	Maloney #3	5-34N-1W	P & A 6-1-49, oil
13th Pet Corp	Maloney #4	5-34N-1W	6-10-49 P & A, oil
13th Pet Corp	Maloney #5	5-34N-1W	P & A 5-27-49, oil
Thompson, Otis	Thrumm #5	33-35N-3W	8-10-49, P & A, oil

STATUS OF UNCOMPLETED WELLS IN
KEVIN-SUNBURST FIELD OCTOBER 31, 1949

<u>COMPANY</u>	<u>LEASE</u>	<u>LOCATION</u>	<u>STATUS</u>
Anglo-Amer. Oil Co.	Engle #1	35-36N-3W	DSI 1950
Perry-Linville-Smith	GF 052053 #4	12-35N-2W	DSI 1295
Thompson, Otis	Crawford #2	7-34N-2W	DSI 1370
Agen, J. H.	Krause #11	9-35N-3W	Drlg. 1510
Busher, F. J.	Overby #3	30-34N-2W	SD Rep. 1040
Coolidge & Coolidge	Wait B #6	13-35N-2W	Drlg. 1530
Cox, James F.	Blumberg #4	32-35N-2W	Drlg. 700
Edwards, Lee N.	Inland Empire #1	17-35N-1W	Drlg. 2751
Imperial-Craig	Bluhn #24	19-35N-1W	Drlg. 1530
Mills Oil Co.	GF 086693 #3	8-35N-2W	Drlg. 1689
Munger, Fred R.	Haggerty #2	14-35N-2W	Drlg. 1460
Shay, C. W.	GF 083247 #5	15-35N-3W	WOC 320
Stock & Texas	State #8	16-35N-2W	Stdg. 900
Vander Pas, H.	Putnam #1	32-35N-1W	Drlg. 1200
Westermarck	Fee #1	34-31N-1E	Stdg. 800

CAT CREEK WELL COMPLETIONS

FISCAL YEAR ENDING OCTOBER 31, 1949

<u>COMPANY</u>	<u>LEASE</u>	<u>LOCATION</u>	<u>DATE COMPLETED</u>	<u>RESULTS</u>
Continental Oil Co.	US 040097 #2	26-15N-30E	11-23-48	92 bbls. in 18 hrs.
Continental Oil Co.	US 040097 #3	26 - 15 N - 30 E	1-11-49	16 bbls
Schwartz-Allen-Taylor	US 022077 #15	11-15N-29E	1-17-49	Dry - P & A
Hanlon-York-Montana	US 038176 #16	6-14N-31E	2-12-49	50 bbls.
Continental Oil Co.	US 040097 #5	26-15N-30E	3-15-49	Dry - P & A
Hanlon et al	US 038176 #17	6-14N-31E	4-23-49	50 bbls.
Hadley et al	Hunt-Fradd #1	4-15N-29E	5-2-49	Dry - P & A
Continental Oil Co.	"56" Ihde #16	11-15N-29E	5-4-49	88 bbls. in 11 hrs.
Continental Oil Co.	US 035347 #10	12-15N-29E	6-6-49	Dry - P & A
Barnes, Allen	N. P. #1	17-14N-31E	7-18-49	Dry - left as water well
Continental Oil Co.	US 022167A #23	11-15N-29E	7-19-49	Dry - P & A
Amick, R. M.	Tunnicliff et al #1	17-15N-30E	8-6-49	Untested
Continental Oil Co.	US 022331-A #17	14-15N-29E	9-2-49	Dry - P & A
Taylor, Ike W.	US 022005-A #4	27-15N-30E	9-20-49	Dry - P & A
Spencer & Ferguson	Harlan #1	10-15N-29E	10-7-49	Dry - left as water well
Taylor, Ike W.	US 022005-A #5	26-15N-30E	10-11-49	40 bbls.

SUMMARY OF CAT CREEK COMPLETIONS FOR
FISCAL YEAR ENDING OCTOBER 31, 1949

<u>No. Wells</u>	<u>Status</u>
1	Oil well drilled on State & Patented land
5	Oil wells drilled on Government land
3	Dry holes drilled on State & Patented land
6	Dry holes drilled on Government land
<u>1</u>	Untested well drilled on State & Patented land
16	Total wells drilled in the Cat Creek field during Fiscal Year ending October 31, 1949

STATUS OF UNCOMPLETED WELLS IN
CAT CREEK FIELD, OCTOBER 31, 1949

<u>COMPANY</u>	<u>LEASE</u>	<u>LOCATION</u>	<u>STATUS</u>
Hanlon, W. M.	Mitchell #3	21-15N-30E	DSI 104

WELL COMPLETIONS IN OTHER FIELDS AND AREAS

FOR FISCAL YEAR ENDING OCTOBER 31, 1949

<u>COMPANY</u>	<u>LEASE</u>	<u>ALICE DOME</u> <u>LOCATION</u>	<u>DATE</u> <u>COMPLETED</u>	<u>RESULTS</u>
Phillips Petroleum Co.	N. P. #1	9-13N-34E	11-27-48	Dry - P & A
<u>APEX</u>				
A. A. Corporation	M. Johnson #1	11-36N-3E	4-18-49	Dry - P & A
<u>ASH CREEK</u>				
Shell Oil Company	Tribal 7904 #1	36-9S-37E	5-22-49	Dry - P & A
<u>EAST AGAWAN</u>				
General Petroleum Corp.	Bauma #48-9-P	9-26N-4W	8-6-49	Untested
<u>BANNATYNE</u>				
Carney, Tom	Speer #2	5-25N-1E	9-13-49	25 bbls.
<u>BIG COULLEE</u>				
Texas Company	N. P. #1-D	31-5N-20E	11-2-48	48 MCF Gas

BIG WALL

<u>COMPANY</u>	<u>LEASE</u>	<u>LOCATION</u>	<u>DATE COMPLETED</u>	<u>RESULTS</u>
Texas Company	Quinnell #1	24-10N-26E	12-9-48	600 bbls.
Texas Company	Moffett #1	18-10N-27E	2-8-49	140 bbls.
Texas Company	N. P. "B" #3	19-10N-27E	2-18-49	301 bbls. in 20 hrs.
Texas Company	Quinnell #2	24-10N-26E	3-21-49	227 bbls.
Texas Company	Moffett #2	18-10N-27E	4-1-49	84 bbls. + water
Texas Company	N. P. "B" #4	19-10N-27E	5-26-49	911 bbls.
Trigood Oil Company	Hendrix #1	24-10N-26E	4-24-49	300 bbls.
Trigood Oil Company	Hendrix #2	24-10N-26E	8-4-49	Dry - P & A

BOWDOIN

Fidelity Gas Co.	Hedges #880	28-32N-33E	11-3-48	235 MCF Gas
Fidelity Gas Co.	US 085031 #881-A	6-31N-33E	11-8-48	223 MCF Gas
Fidelity Gas Co.	US 084619 #885	4-31N-34E	11-15-48	267 MCF Gas
Fidelity Gas Co.	US 084442 #884	5-31N-35E	11-24-48	211 MCF Gas
Fidelity Gas Co.	US 084442 #882	7-31N-35E	12-2-48	283 MCF Gas
Fidelity Gas Co.	Johnson #886	35-32N-34E	11-20-48	197.8 MCF Gas
Fidelity Gas Co.	US 085069 #883	17-31N-35E	12-23-48	582 MCF Gas

BOWDOIN CONT.

<u>COMPANY</u>	<u>LEASE</u>	<u>LOCATION</u>	<u>DATE COMPLETED</u>	<u>RESULTS</u>
Fidelity Gas Co.	Simonson #902	34-32N-33E	2-12-49	273 MCF Gas
Fidelity Gas Co.	US 085037 #910	4-31N-33E	2-18-49	327 MCF Gas
Fidelity Gas Co.	US 085060 #893	18-32N-34E	3-10-49	279 MCF Gas
Fidelity Gas Co.	US 085048 #892	5-31N-34E	3-16-49	169 MCF Gas
Fidelity Gas Co.	US 085036 #903	5-31N-33E	3-18-49	249 MCF Gas
Fidelity Gas Co.	US 085033 #904	12-31N-32E	3-26-49	267 MCF Gas
Fidelity Gas Co.	US 085033 #905	11-31N-32E	4-1-49	267 MCF Gas
Fidelity Gas Co.	US 087063 #909	35-32N-32E	4-8-49	231 MCF Gas
Fidelity Gas Co.	US 087062 #907	26-32N-32E	4-15-49	353 MCF Gas
Fidelity Gas Co.	US 087061 #906	24-32N-32E	4-21-49	231 MCF Gas
Fidelity Gas Co.	US 087060 #908	23-32N-32E	4-29-49	283 MCF Gas
Fidelity Gas Co.	US 086922 #899	15-32N-32E	5-9-49	249 MCF Gas
Fidelity Gas Co.	US 068378 #901	24-32N-31E	5-16-49	327 MCF Gas
Fidelity Gas Co.	US 066153 #900	12-32N-31E	5-26-49	603 MCF Gas
Fidelity Gas Co.	US 057820 #898	10-32N-32E	6-20-49	365 MCF Gas
Fidelity Gas Co.	US 057842 #914	8-32N-33E	6-28-49	539 MCF Gas

BOWDOIN CONT.

<u>COMPANY</u>	<u>LEASE</u>	<u>LOCATION</u>	<u>DATE COMPLETED</u>	<u>RESULTS</u>
Fidelity Gas Co.	US 056765 #912	9-32N-33E	7-5-49	211 MCF Gas
Fidelity Gas Co.	McDermott #895	8-32N-34E	7-13-49	103 MCF Gas
Fidelity Gas Co.	US 084203 #896	10-32N-33E	7-18-49	249 MCF Gas
Fidelity Gas Co.	Johnson #913	6-32N-33E	7-25-49	516 MCF Gas
Fidelity Gas Co.	Robinson #911	10-32N-33E	8-5-49	577 MCF Gas
Town of Saco	Fee #1	8-31N-34E	8-10-49	304 MCF Gas
Fidelity Gas Co.	Kippen #894	20-32N-34E	8-12-49	327 MCF Gas
Fidelity Gas Co.	US 085065 #897	4-31N-35E	8-19-49	365 MCF Gas
Fidelity Gas Co.	US 085053 #891	28-31N-34E	8-26-49	421 MCF Gas
Fidelity Gas Co.	US 085051 #890	24-31N-33E	9-2-49	641 MCF Gas

S. E. BOWDOIN

Hassie Hunt	Loberg #1	26-30N-36E	1-15-49	Dry - P & A
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BOWES

Montana Gas Corp.	Hayes #1	17-31N-19E	11-5-48	6,000 MCF Gas
Montana Gas Corp.	Hobson #2	9-31N-19E	6-22-49	12,468 MCF Gas

BOWES. CONT.

<u>COMPANY</u>	<u>LEASE</u>	<u>LOCATION</u>	<u>DATE COMPLETED</u>	<u>RESULTS</u>
Montana Gas Corp.	Hobson #3	9-31N-19E	8-16-49	1,400 MCF Gas
Northern Ordnance, Inc.	Guertzen #1	2-31N-19E	8-29-49	200 bbls.

S. BOX ELDER

Amerada Pet. Corp.	Burke #1	25-17N-24E	2-10-49	Dry - P & A
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CARROT BASIN

Phillips Pet. Corp.	US 040461 #1	11-10S-3E	10-13-49	Dry - P & A
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CASSADY

Midwest Drilling Co.	Schnitzmeyer #2	14-35N-16E	9-9-49	Dry - P & A
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CEDAR CREEK

Mont. Dak. Util. Co.	Fee Unit 8-A #343	24-5N-60E	4-29-49	270 MCF Gas
Mont. Dak. Util. Co.	N. P. #340	17-5N-61E	5-10-49	196 MCF Gas
Mont. Dak. Util. Co.	Fee #341	18-5N-61E	6-1-49	175 MCF Gas
Mont. Dak. Util. Co.	US 020608 #344	12-5N-60E	6-6-49	362 MCF Gas
Mont. Dak. Util. Co.	N. P. #368	29-5N-61E	6-16-49	256 MCF Gas

CEDAR CREEK CONT.

<u>COMPANY</u>	<u>LEASE</u>	<u>LOCATION</u>	<u>DATE COMPLETED</u>	<u>RESULTS</u>
Mont. Dak. Util. Co.	N. P. Unit B #367	25-4N-61E	7-1-49	Dry - P & A
Husky-Rangely	N. P. #1	7-4N-62E	7-17-49	35 bbls.
Mont. Dak. Util. Co.	US 023296-80B #366	30-4N-62E	7-29-49	175 MCF Gas
Mont. Dak. Util. Co.	N. P. Unit 6 #365	29-7N-60E	10-4-49	189 MCF Gas
Mont. Dak. Util. Co.	State Unit 6 #364	36-8N-59E	10-18-49	283 MCF Gas
Mont. Dak. Util. Co.	N. P. R. R. #360	23-9N-58E	10-29-49	2,929 MCF Gas

CLARK FORK

British American Oil Co.	US 040218 #1	26-9S-22E	4-19-49	30 bbls.
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WEST DUTTON (OR ACME BLOCK)

British American Oil Co.	Swenson #1	7-24N-2W	6-28-49	Dry - P & A
General Pet. Corp.	Waters #8-12-P	12-24N-2W	10-22-49	Untested

S. W. BERTHELOTE AREA

Lyle-Hawks-Cox	Turner #1	23-35N-1E	11-14-48	Dry - P & A
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DEVIL'S POCKET

<u>COMPANY</u>	<u>LEASE</u>	<u>LOCATION</u>	<u>DATE COMPLETED</u>	<u>RESULTS</u>
Hanlon, W. M.	US 039813 #1	9-10N-22E	11-10-48	Dry - P & A
Hanlon, W. M.	US 039813 #2	9-10N-22E	6-20-49	60 bbls.
Hanlon, W. M.	US 042064 #3	10-10N-22E	5-29-49	Dry - Saved as water well
Hanlon, W. M.	US 042064 #4	10-10N-22E	8-15-49	Untested

DRY CREEK

Ohio Oil Company	Bowman #2	3-7S-21E	4-3-49	3,959 MCF Gas
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E. BEAR'S DEN (OR KEITH BLOCK)

Texas Company	E. G. Osler	23-36N-6E	10-27-47	3,310 MCF Gas
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ELK BASIN

Stanolind O & G Co.	Madison Unit #2 139M	35-9S-23E	11-11-48	450 bbl. thru 3/4" choke
Sinclair-Wyo. Oil Co.	US 038541 Wilkins #6-F	28-9S-23E	11-11-48	144 bbls.
Stanolind O & G Co.	US 038144 A-Zaerr #4	34-9S-23E	12-8-48	60 bbls.
Stanolind O & G Co.	E B Madison Unit 146M	27-9S-23E	3-13-49	222 bbls.
Stanolind O & G Co.	E B Madison Unit 145M	34-9S-23E	3-4-49	317 bbls.
Sinclair Wyo. Oil Co.	US 083533 #2	29-9S-23E	3-5-49	192 bbls.

ELK BASIN CONT.

<u>COMPANY</u>	<u>LEASE</u>	<u>LOCATION</u>	<u>DATE COMPLETED</u>	<u>RESULTS</u>
Stanolind O & G Co.	US 017175B 145 M	35-9S-23E	4-15-49	492 bbls.
<u>FLAT COULEE</u>				
Cobb, A. B.	Erickson #1	15-37N-5E	12-18-48	500 MCF Gas
<u>FREEDOM DOME</u>				
General Pet. Corp.	N. P. 5-25-P	25-16N-38E	1-24-49	Dry - P & A
<u>GREENO AREA</u>				
Cal Exploration Co.	Pierce #1	13-4S-24E	6-22-49	Dry - Saved as water well
<u>HARDIN</u>				
Big Horn O & G Co.	Allot. 8270 #1	18-1S-34E	11-1-48	40 MCF Gas
Big Horn O & G Co.	Allot. 8270 #2	17-1S-34E	12-4-48	57.7 MCF Gas
Big Horn O & G Co.	Allot. 8270 #4	17-1S-34E	5-12-49	44.8 MCF Gas
Big Horn O & G Co.	Allot. 8270 #3	18-1S-34E	6-14-49	40 MCF Gas

JACK CREEK AREA

<u>COMPANY</u>	<u>LEASE</u>	<u>LOCATION</u>	<u>DATE COMPLETED</u>	<u>RESULTS</u>
Shupak et al	Parker #1	13-7S-23E	6-8-49	25 bbls.
Shupak, J. C. et al	US 039073 #1	24-7S-23E	7-14-49	Dry - P & A
Shupak, J. C.	Parker #2	13-7S-23E	8-7-49	Dry - Saved as water well

LAREDO

Texas Company	Keimele #1	26-31N-13E	10-13-49	Dry - P & A
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LITTLE SANDY

Utah Southern	La Buda #1	20-27N-13E	11-18-48	Dry - P & A
Utah Southern	Maxwell #1	22-27N-13E	3-4-49	Dry - P & A
Utah Southern	Maxwell #2	28-27N-13E	3-28-49	Dry - Lost hole - P & A

LOTHAIR NOSE

O'Neil, L. B.	Kolstad #1	29-31N-4E	10-8-49	Dry - Saved as water well
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MARIAS RIVER

O'Neil, L. B.	Pugsley #1	29-30N-5E	7-10-49	Dry - P & A
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MELSTONE

Amerada Pet. Corp.	Hougen #3	26-10N-29E	12-24-48	Untested
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MELSTONE CONT.

<u>COMPANY</u>	<u>LEASE</u>	<u>LOCATION</u>	<u>DATE COMPLETED</u>	<u>RESULTS</u>
Amerada Pet. Corp.	Hougen #2	23-10N-29E	3-7-49	200 bbls.
Amerada Pet. Corp.	N. P. Ry. #1	21-10N-29E	4-13-49	190 bbls.
Amerada Pet. Corp.	Hougen #4	24-10N-29E	4-30-49	241 bbls.
Amerada Pet. Corp.	Hougen #5	23-10N-29E	5-12-49	Dry - P & A
Amerada Pet. Corp.	Hougen #6	24-10N-29E	6-20-49	381 bbls.
Amerada Pet. Corp.	State #1	16-10N-29E	6-20-49	Dry - P & A
Amerada Pet. Corp.	H & H Ranch #1	8-10N-29E	8-19-49	Dry - P & A
Amerada Pet. Corp.	Hougen #7	22-10N-29E	8-28-49	Dry - P & A

MIDWAY

Morris Pet. Company	Scott #1	12-27N-2W	5-3-49	Dry - P & A
Peerless O & G Co.	De Staffany #1	24-28N-2W	8-6-49	Dry - P & A

MCKAY DOME

Union Oil Co.	McKay #1	13-6S-17E	5-25-49	Dry - P & A
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PLEVNA

Becker, F. H.	Becker-Berndt #1	18-5N-60E	8-26-49	450 MCF Gas
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PONDERA

<u>COMPANY</u>	<u>LEASE</u>	<u>LOCATION</u>	<u>DATE COMPLETED</u>	<u>RESULTS</u>
Phillips Pet. Co.	Erickson "D" #3	11-27N-4W	11-4-48	192 bbls.
Phillips Pet. Co.	Walston #3	2-27N-4W	11-13-48	230 bbls.
Phillips Pet. Co.	Erickson "A" #2	10-27N-4W	11-28-48	85 bbls.
Phillips Pet. Co.	Erickson "A" #3	10-27N-4W	12-12-48	181 bbls. in 5 hrs.
Phillips Pet. Co.	Erickson "C" #4	10-27N-4W	12-24-48	60 bbls. in 12 hrs.
Phillips Pet. Co.	Du Bois #2	22-27N-4W	1-10-49	30 bbls.
Phillips Pet. Co.	Wheeler #4	14-27N-4W	1-23-49	30 bbls.
Phillips Pet. Co.	Erickson "B" #3	11-27N-4W	2-7-49	95 bbls.
Phillips Pet. Co.	Erickson "D" #4	11-27N-4W	2-13-49	70 bbls.
Phillips Pet. Co.	Erickson "C" #5	10-27N-4W	2-21-49	8 bbls.
Phillips Pet. Co.	Erickson "D" #5	11-27N-4W	3-3-49	10 bbls.
Triway Oil Co.	Gjullin #1	11-27N-4W	3-6-49	72 bbls.
Triway Oil Co.	Copley #11	11-27N-4W	3-19-49	50 bbls.
Hawley, J. B.	Hirshberg #2	23-27N-4W	3-29-49	15 bbls.
Hawley & Northrup	Campbell #4	11-27N-4W	4-8-49	40 bbls.
Isern & Keyes	Martin #1	12-27N-4W	4-16-49	Untested
Isern & Keyes	Erickson & Rood #1	12-27N-4W	4-25-49	Dry - P & A

PONDERA CONT.

<u>COMPANY</u>	<u>LEASE</u>	<u>LOCATION</u>	<u>DATE COMPLETED</u>	<u>RESULTS</u>
Isern & Keyes	Martin #2	12-27N-4W	5-6-49	Untested
Quigley Drilling Co.	Powers #1	2-27N-4W	5-31-49	Dry - P & A
Lawrence, J. W.	Morris #2	22-27N-4W	6-13-49	60 bbls.

PRIMITIVE DOME

Primitive Oil Co.	Hecker #1	6-11N-34E	4-21-49	Dry - P & A
Primitive Oil Co.	Ven Savage #1	7-11N-34E	6-19-49	Dry - P & A
Primitive Oil Co.	Hecker #2	6-11N-34E	7-20-49	Dry - P & A

RAGGED POINT

Texas Company	Manion #3	5-11N-30E	12-8-48	112 bbls.
Klamath Oil Co.	Stensvad #1	21-11N-31E	6-11-49	Dry - P & A
Texas Company	N. P. "A" #2	3-11N-29E	8-5-49	Dry - P & A

RIDGELWAY AREA

Northern Ordnance, Inc.	US 040812 #1	34-9S-55E	9-14-49	Dry - P & A
Amerada Pet. Corp.	Corral Creek Unit Fee #1	15-4S-57E	9-30-49	Dry - P & A

NORTH WOLF CREEK

<u>COMPANY</u>	<u>LEASE</u>	<u>LOCATION</u>	<u>DATE COMPLETED</u>	<u>RESULTS</u>
Smith, Arnold	Anderson #1-A	11-21N-16E	10-28-49	Dry - P & A

SOUTH WOLF CREEK

Hunt Oil Company	US 039477 #1	6-8S-57E	11-2-48	Dry, - P & A
Hunt Oil Company	US 039481B#1	27-8S-57E	11-22-48	Dry - P & A

WILLIAMS

Pilot Production Co.	McFarland #1	18-29N-3W	4-2-49	Dry - P & A
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SIX SHOOTER

Grant Oil Company	N. P. #2	11-3N-18E	7-1-49	Untested
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SUMATRA

Texas Company	N. P. "E" #1	5-9N-34E	10-8-49	100 bbls.
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WHITLASH

Western Natl. Gas	Schaeffer #5	14-37N-4E	4-29-49	5 bbls.
Western Natl. Gas	State #3	16-37N-4E	7-6-49	3,000 MCF Gas
Western Natl. Gas	Brown #4	18-37N-4E	8-21-49	1,600 MCF Gas
Western Natl. Gas	Iverson #1	8-37N-4E	10-26-49	2,000 MCF Gas

WHITEWATER UNIT

<u>COMPANY</u>	<u>LEASE</u>	<u>LOCATION</u>	<u>DATE COMPLETED</u>	<u>RESULTS</u>
Texas Company	US 085634 #1	11-34N-31E	10-19-49	Dry - P & A

WOMAN'S POCKET

Amick, R. M.	N. P. Ry. #3	29-8N-21E	12-8-48	112 bbls.
Amick Drilling Co.	N. P. Ry. #4	29-8N-21E	3-21-49	Dry - P & A
Wormy Lime Drilling Co.	N. P. Ry. #1	35-8N-21E	8-26-49	Dry - Saved as water well
Amick Drilling Co.	N. P. Ry. #2	29-8N-21E	9-7-49	20 MCF Gas

OLD UTOPIA

Frery - G S & Assoc.	Zorn #1	12-33N-6E	11-1-48	Dry - P & A
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VIRGELLE

Marena Oil Company	Fultz #1	8-25N-12E	6-22-49	Dry - Saved as water well
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STATUS OF UNCOMPLETED WELLS AT END OF
FISCAL YEAR ON OCTOBER 31, 1949, NOT PREVIOUSLY LISTED

<u>COMPANY</u>	<u>LEASE</u>	<u>LOCATION</u>	<u>FIELD OR AREA</u>	<u>STATUS</u>
A. A. Oil Corp.	G. Christian #1	32-37N-3E	Arch Apex	Rep. rig 2509'
Fidelity Gas Co.	US 084576 #843	20-31N-35E	Bowdoin	DSI 106'
Fidelity Gas Co.	US 084575 #842	21-31N-35E	Bowdoin	DSI 107'
Fidelity Gas Co.	US 084577 #865	22-31N-35E	Bowdoin	DSI 167'
C. H. Murphy Jr.	Struck #1	24-10N-26E	Big Wall	Coring 3013'
Stephens Pet. Corp.	Tribal 379 #1	9-29N-8W	Blacktail	Stdg. 4620'
Ajax Oil Company	Rukavina #1	4-6S-24E	Blue Creek	Stdg. 141'
Blue Dome Oil Co.	Rukavina #1	10-6S-24E	Blue Dome	DSI 867'
Midwest Drlg. Co.	Schnitzmeier #1	14-35N-16E	Cassidy	Cementing 5" 4030'
Munger, Fred	Harbolt #1	1-35N-20E	Cherry Ridge	Stdg. 2570'
Harris, G. W.	Winterrowd #1	6-35N-21E	Cherry Ridge	Stdg. 1985'
Mont. Dak. Util. Co.	N. P. #338	33-5N-61E	Cedar Creek	DST 1173'
Tarrant, R. C.	Woods #1	32-28N-1E	Conrad-Midway	Stdg. Pb. 1900'
Cloverleaf Pet. Corp.	N.P.R.R. #1	23-11N-24E	Devil's Basin	Stdg. 1248'
Cloverleaf Pet. Corp.	Morton #1	26-11N-24E	Devil's Basin	Stdg. 1139'

<u>COMPANY</u>	<u>LEASE</u>	<u>LOCATION</u>	<u>FIELD OR AREA</u>	<u>STATUS</u>
Henderson	Bratsberg #1	28-28N-1E	East Midway	DSI 1465'
Linville-Smith	Flage #1	4-32N-3E	Galata	DSI 800'
Morton, K. C.	N.W. Bank #1	33-28N-6W	Gypsy	Drlg. up liner 3000'
Morton, K. C.	Swanson #1	22-28N-6W	Gypsy	DSI 25'
Hunley & Nairns	Rossmiller #1	27-26N-3E	Genou	Stdg. 1875'
Hunley & Nairns	Onstad #1	5-25N-5E	Genou	Rng. 7" 3153'
Snyder, Marcus	Buzzetti-Corkins #16	23-15N-32E	Hardin Area	WOR 100'
Texas Company	Tex.-Amerada Unit #1	2-10N-28E	Howard Coulee	Drlg. 3400'
Shupak, J. C.	Carbon Co. #1	15-7S-23E	Jack Creek	Drlg. 1868'
Laurel Oil Co.	Thacker #1	7-2S-24E	Laurel	DSI 90'
Massey, C. M.	Lynde #1	16-6S-35E	Lodge Grass	Stdg. 1250'
Wagner, M. R.	Jacques #1	6-9N-30E	Melstone	DSI 128'
Far. Union Cent. Exch.	Breese #1	24-10N-29E	Melstone	Drlg. 4100'
Richfield Oil Co.	Wiess #1	20-25N-11E	Mission Creek	Stdg. 4075'
Snyder, Marcus	Kendrick Cattle Co. #1	34-1N-34E	Nine Mile	Stdg. 100'
Inland St. O & G.	Snyder-Griffith #1	7-9S-25E	No. Frannie	Stdg. 2240'
Emrick, E. B.	Gjullin #1	14-27N-4W	Pondera	Stdg. 20'

<u>COMPANY</u>	<u>LEASE</u>	<u>LOCATION</u>	<u>FIELD OR AREA</u>	<u>STATUS</u>
Quigley Drilling Co.	Christianson #2	21-27N-4W	Pondera	Drlg. 1955'
Tarrant-Whitmore	Koenig #1	1-27N-4W	Pondera	DSI 1895'
Appernan, Ralph	Reeves #1	18-34N-19E	Reeves	DSI 885'
Bronson, Chas. R.	Blevins #1	29-34N-18E	Reservoir Coulee	Drlg. 1486'
B & R Gas & Oil Co.	Grazine Co-op. #1	32-34N-18E	Reservoir Coulee	Stdg. 809'
Hauge-Truesdell	Truesdell #1	34-21N-18E	Rock Candy Mtn.	Drlg. 725'
Poston, H. L.	Wendt #1	11-28N-21W	Roger Lee	DSI 1475'
Roche, L. W. et al.	Morgan #1	7-9S-61E	Seven Mile	Stdg, 1495'
Mon-O-Co Oil Corp.	Erickson #1	24-7N-18E	Shawmut	Stdg. 3598'
Tarrant, R. C.	N. P. #1	1-6N-15E	Shawmut (W.Dome)	DSI 1482'
Tarrant, R. C.	N. P. #1	15-3N-18E	Six Shooter	DSI 2870'
Tarrant, R. C.	Harsha #1	14-3N-18E	Six Shooter	DSI 777'
Tarrant, R. C.	Wickland #2	10-3N-18E	Six Shooter	DSI 1150'
Tarrant, R. C.	Cremer #1	10-3N-18E	Six Shooter	DSI 850'
Tarrant, R. C.	Opland, #1	10-3N-18E	Six Shooter	DSI 640'
Tarrant, R. C.	Linder #1 A	24-3N-18E	Six Shooter	DSI 250'
Consolidated Pet. Co.	Tribal 2119 #1	27-6S-32E	Soap Creek	DSI 1804'

<u>COMPANY</u>	<u>LEASE</u>	<u>LOCATION</u>	<u>FIELD OR AREA</u>	<u>STATUS</u>
Prairie Rose Oil Co.	Thieltges #1	21-31N-5E	S.W. Chester	DSI 1775'
Dr. Crosby	Crosby #2	16-1S-31E	Toluca	DSI 3545'
Bert Nelson Oil Dev.Co.	Nelson #1	34-7N-38E	Vananda	DSI 687'
Kornowsky, Fred	Govt. 040400 #1	21-13S-5E	W.Yellowstone	WORT 420'
Western Natl. Gas	Iverson #1	8-37N-4E	Whitlash	Drlg. 2575'
Northwest Pipe Line Co.	Scharf #1	6-21N-18E	Winifred	Drlg. 2160'
Amick Drilling Co.	N. P. #1	29-8N-21E	Woman's Pocket	Stdg. 1900'
Amick Drilling Co.	N. P. #5	35-8N-21E	Woman's Pocket	DSI 100'

OUTSIDE AREAS

OLD EXHAUSTED WELLS PLUGGED AND ABANDONED IN 1949

<u>COMPANY</u>	<u>LEASE</u>	<u>LOCATION</u>	<u>FIELD OR AREA</u>	<u>STATUS</u>
Fidelity Gas Co.	Cabbage #1	6-32N-33E	Bowdoin	P & A 6-29-49, Gas
Fidelity Gas Co.	GF 057851 #743	6-32N-32E	Bowdoin	P & A 9-20-49, Gas
Fidelity Gas Co.	GF 057800 #720	17-32N-34E	Bowdoin	P & A 9-20-48, Gas
Fidelity Gas Co.	Schofield #768	13-32N-34E	Bowdoin	P & A 9-16-49, Gas
Mont. Dak. Util. Co.	Baker Townsite #225	13-7N-59E	Cedar Creek	P & A 2-28-49, Gas
Taylor, Ike W.	Clausen #2	27-13N-28E	Rattlesnake	P & A 5-28-49, Oil
* Texas Company	US 084862 #1	15-33N-4E	Utopia	P & A 11-28-48, Oil
Western Natural Gas		22-37N-4E	Whitlash	P & A 9-7-49, Gas
Western Natural Gas	Hicks	26-37N-4E	Whitlash	P & A 8-25-49, Oil

* Converted to gas well

SUMMARY OF WELLS BY FIELDS FROM
BEGINNING TO OCTOBER 31, 1949

<u>FIELD</u>	<u>GOVERNMENT & INDIAN LANDS</u>			<u>STATE & PRIVATE LANDS</u>		
	<u>POW</u>	<u>PGW</u>	<u>P&A</u>	<u>POW</u>	<u>PGW</u>	<u>P&A</u>
Apex	-	-	-	-	3	1
Armells	-	-	1	-	2	5
Bears Den & E.Bears Den	-	2	2	2	4	5
Bannatyne	-	-	-	1	-	49
Berthelote & SW Berthelote	-	-	-	1	-	8
Big Coulee	-	-	-	-	1	-
Big Wall	-	-	-	9	-	4
Border	-	-	-	12	-	27
Bowdoin	-	166	5	-	164	114
S.E.Bowdoin	-	-	-	-	-	1
Bowes	-	-	-	1	19	5
Box Elder	-	-	-	-	8	11
S. Box Elder	-	-	-	-	-	1
Brady	-	-	-	4	-	6
Cat Creek	109	-	90	65	-	42
Cedar Creek	-	65	20	1	180	29
Clark Fork	1	-	-	-	-	-
Conrad-Midway	-	-	-	3	1	12
Cut Bank(Inc.Reagan)408	-	6	69	760	147	224
Devils Basin	-	-	1	3	-	31
Devils Pocket	1	-	2	-	-	-
Devon	-	-	-	3	23	27
Dry Creek	3	1	4	5	7	1
Elk Basin	37	1	2	36	-	1

<u>FIELD</u>	<u>GOVERNMENT & INDIAN LANDS</u>			<u>STATE & PRIVATE LANDS</u>		
	<u>POW</u>	<u>PGW</u>	<u>P&A</u>	<u>POW</u>	<u>PGW</u>	<u>P&A</u>
Flat Coulee	-	-	-	2	1	2
Frannie	1	-	-	1	-	-
Fred & George Creek	-	-	-	-	1	-
Gage	-	-	-	6	-	12
Grandview	-	-	-	-	1	1
Guinn Dome	-	2	1	-	-	-
Hardin	-	4	-	-	84	9
Havre	-	-	-	-	4	20
Haystack Butte	-	-	-	-	2	2
Ingomar	-	-	-	-	1	1
Jack Creek Area	-	-	1	1	-	1
Kevin-Sunburst	206	21	289	1374	191	1328
Kicking Horse	-	-	-	-	4	1
Kremlin	-	-	-	-	1	6
Lake Basin	-	-	-	2	2	24
Marias River	-	-	-	-	2	10
Melstone	-	-	-	5	-	4
McClaren Coulee	-	-	-	-	2	1
Mosser	-	-	2	6	1	12
Plevna	-	-	-	-	1	-
Pondera	-	-	-	208	-	55
Pritchard	-	-	-	-	1	2
Ragged Point	-	-	2	3	-	8
Rattlesnake Butte	1	-	1	-	-	2
Sherrad	-	-	-	-	1	2
Six Shooter	-	-	-	-	1	3
Soap Creek	6	-	4	-	-	1

FIELD	GOVERNMENT & INDIAN LANDS			STATE & PRIVATE LANDS		
	POW	PGW	P&A	POW	PGW	P&A
Sumatra	-	-	-	1	-	-
Utopia (Lothair)	-	1	-	3	3	5
West Pondera	-	-	-	-	1	2
Whitlash	-	-	-	7	23	23
Winifred	-	-	1	-	1	2
Woman's Pocket	-	-	-	1	1	2
Other Areas	<u>-</u>	<u>-</u>	<u>71</u>	<u>-</u>	<u>-</u>	<u>429</u>
TOTAL	<u>773</u>	<u>269</u>	<u>568</u>	<u>2526</u>	<u>889</u>	<u>2574</u>