EAGLE PLAIN

#1

WESTERN MINERALS LTD.

March 26 1959

WESTERN MINERALS LTD.

MICHAEL BUILDING

CALGARY, ALBERTA

TELEPHONE AMHERST 9-6941

December 12, 1958

The Officers & Directors,
Peel Plateau Exploration Ltd.,
1001 Federal Building,
85 Richmond Street,
Toronto, Ontario.

Gentlemen:

During this last year, Eagle Plains No.1 in the Yukon Territory was deepened to a depth of 9,589 ft. at which point the well was suspended.

Supplementary reports discussing this deepening have been added to the original Stratagraphic Test Hole Report. Additional remarks regarding geological information, is supplied by Mr. E.H. Vallat in his supplement. The operational aspects of the deepening is dealt with by an addenda added by W.G. Campbell. All pertinent data with respect to the deepening of the well, has been added to the original report.

Additional prints of new logs run inthe hole are contained in a separate package and include an Electric Log, Micro Log, and a Radio Active Log.

Respectively submitted,

WESTERN MINERALS LTD.

W. G. Campbell

W.G. CAMPBELL.
Operations Manager.

RESIDENCE CHESTNUT 3-2220

OFFICE AMHERST 2-6239

E. H. VALLAT LTD.
8 MICHAEL BUILDING
3RD STREET WEST AT 9TH AVENUE
CALGARY, ALTA.

December 4th 1957

Officers and Directors, Peel Plateau Exploration Ltd.
1001 Federal Building,
85 Richmond Street West,
TORONTO, Ontario.

Gentlemen:

The attached reports are assembled to provide complete comprehensive records of drilling stratigraphic test hole Eagle Plains No. 1, Yukon Territory.

This location is approximately 200 air miles north of Dawson City, by tractor train trail it was approximately 300 miles. A number of special operational problems due to location and terrain character had to be overcome. Transportation of heavy supplies and equipment constituted the most costly and troublesome phase of the operations. A discussion of these phases is provided by W.G. Campbell. Significant exploratory information obtained in this drilling test is summarized by E.H. Vallat.

A separate package contains prints of logs run by Schlumberger of Canada, which are an essential part of the presentation:

Electric Log,
Micro Log,
Radio Activity Log,
Temperature Surveys.

Respectfully submitted,

E.H. Vallat

EHV.r

PEEL PLATEAU EXPLORATION LTD

Report

on

Stratigraphic Test Hole

EAGLE PLAINS NO.1

YUKON TERRITORY

1956 - 1957

and

1958

E. H. Vallat Ltd. - - - - - Consultant
W. G. Campbell - - - - - - Operations Manager
Wm. F. Wuest - - - - - - Wellsite Control

PEEL PLATEAU EXPLORATION LTD.

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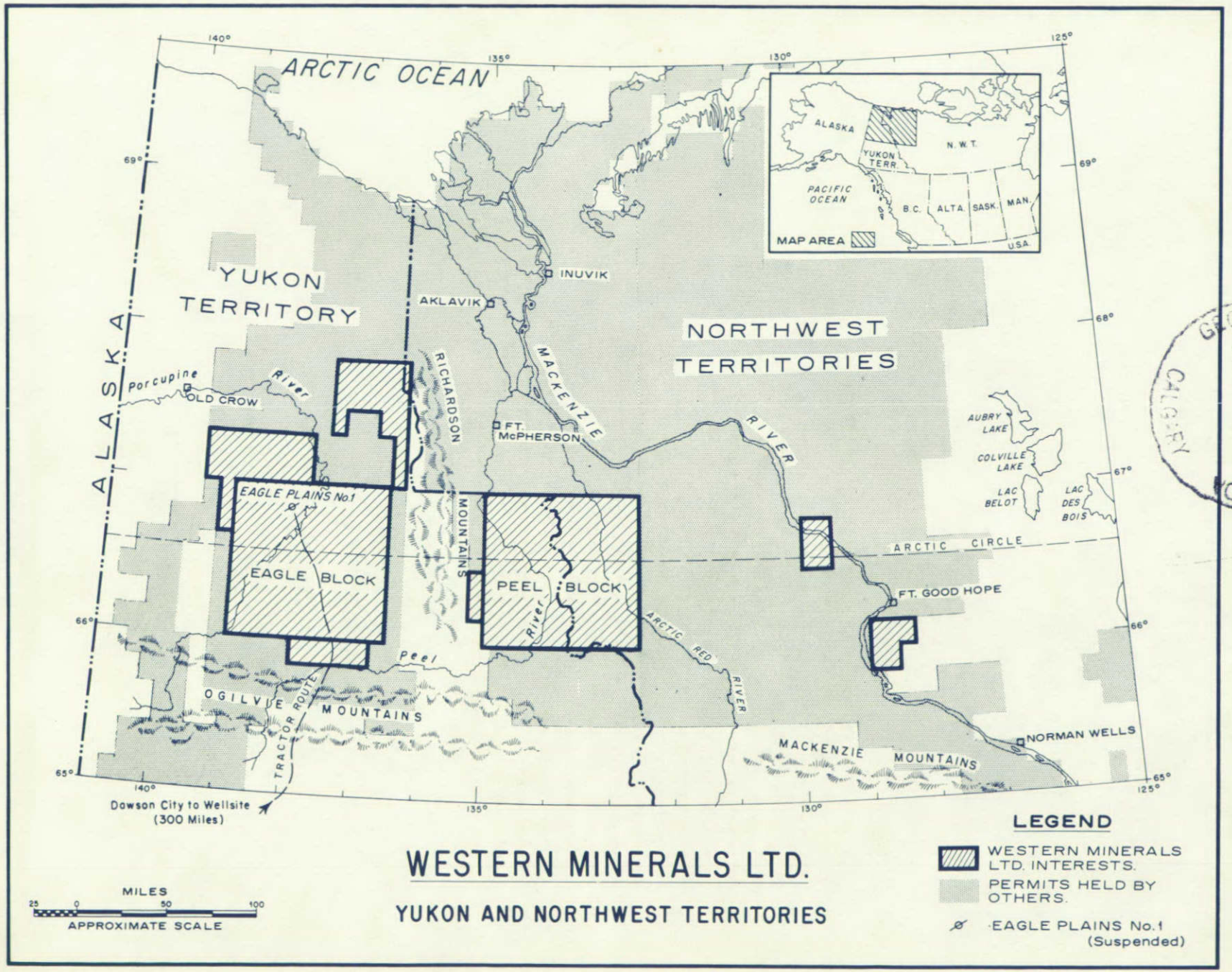


WESTERN MINERALS LTD.

YUKON AND NORTHWEST TERRITORIES

RESIDENCE CHESTNUT 3-2220 OFFICE AMHERST 2-6239

E. H. VALLAT LTD.
8 MICHAEL BUILDING
3RD STREET WEST AT 9TH AVENUE
CALGARY, ALTA.

EXPLORATION SUMMARY - EAGLE PLAINS NO. 1

The stratigraphic test hole, Eagle Plains No. 1, 138°8'30" - 66°48'54", Yukon Territory, in drilling completed during the period April to October 1957, contributed the following significant exploratory data:

(1) It proved the presence of gas in minor amounts in Cretaceous sandstone and shales and in Devonian carbonates. Minor evidence of oil staining was noted in the Devonian sequence. Drill stem tests proved these hydro carbons did not exist in producible amounts, a sample of the gas showed it to be predominantly methane.

(2) It showed some limited reservoir capacity in Cretaceous shales and excellent reservoir capacity, at intervals, in carbonate rocks of Devonian, Silurian and Ordovician (?) ages.

(3) Position of stratigraphic contacts encountered in the hole proved the existence of a large structural feature as indicated by photogeologic interpretation, regional geologic control and finally by gravity and seismic results. A structural high with several thousand feet of relief is indicated well out in the geologic basin constituting Eagle Plains. Comparison of geologic cross sections, revised by Wm. F. Wuest, included in this volume with those presented in 1956 by B.R. Pelletier provide further information showing the uplift to be of greater magnitude than earlier interpretations suggested. The placing of stratigraphic contacts is based on reports by Dr. C.R. Stelck, copies of which are also included herein.

(4) The stratigraphic sequence consisting of Cretaceous, Devonian, Silurian and upper members of Ordovician (?) was examined and evaluated. This is best illustrated on the combined electric and lithologic log by Wm. F. Wuest that is in the pocket of this report. A particular carbonate rock member found present in

outcrop in upper part of Silurian sequence was not specifically identified, although all evidence indicates its equivalent was penetrated. This had been tentatively selected as the lowest member with potentially promising reservoir characteristics that Eagle Plains No. 1 might evaluate in the course of its drilling. Conclusive proof was provided that Mississippian age rocks were not present at this location. Overall consideration of stratigraphic control suggests that even though local evidence of faulting in cores was indicated, there is no significant repetition of section such as would occur with the thrust faulting expected as a result of the geophysical interpretation. This matter is further discussed in the reports by Dr. C.R. Stelck.

It is this writer's opinion that Eagle Plains No. 1 constituted an adequate test at this location. Possibilities for productive oil and gas zones in the normal stratigraphic sequence below the bottom of the hole do exist, but they are somewhat nebulous. Structural interpretation of gravity and seismic data, particularly the latter, leads to the prediction that further drilling would encounter thrust faulting of considerable displacement.

Drilling into the underlying fault block might provide partial evaluation of structural conditions controlled by an older system of faulting which, as suggested by J.A. Legge in his Geophysical Interpretation Report of 1956, could be governed by an earlier period of hydro carbon migration and accumulation. Estimating the depth to which this suspended hole would have to be carried to adequately accomplish such an objective is difficult, but based on control now available it would appear likely that the upper part of Devonian might not be encountered again above 12,000 ft.

No recommendation is made at this time as to whether such a deepening project should be attempted. Operational costs might well be the controlling factor in such an undertaking.

E.T. Wallace

December 2nd 1957

RESIDENCE CHESTNUT 3-2220

OFFICE AMHERST 2-6239

E. H. VALLAT LTD.
8 MICHAEL BUILDING
3RD STREET WEST AT 9TH AVENUE
CALGARY, ALTA.

EXPLORATION SUPPLEMENT

1958 DRILLING - EAGLE PLAINS NO.1

The stratigraphic test hole, Eagle Plains No.1, Yukon Territory, was deepened from 8,409 to 9,589 feet in the period from May 28th to July 15th, 1958. The project is now suspended with a fish in the hole up to 8,735 feet. Details on these operations are covered in the supplement to the 1957 report.

When drilling was suspended in 1957, the hole was bottomed in limestone, identified by Dr. C. R. Stelck as Upper Ordovician in age.

In the 1958 deepening operation, little fossil evidence was noted in the cuttings but a Streptelasma form considered to be Upper Ordovician age, was found in the core taken from 9,079 to 9,102 feet. The lower part of this core and the core, 9,327 to 9,343 feet, had lithologic characteristics that led Dr. Stelck to correlate this interval with a breccia found at the whirlpool in Peel River Canyon. This breccia is a sedimentary breccia as distinguished from a fault breccia, and on the basis of recent field evidence is known to separate Upper Ordovician from Middle Ordovician. Assuming this correlation is correct, it suggests that a facies change occurs from non-porous, shaly rock cropping out in the Peel Canyon locality, to a limestone series in Eagle Plains No.1 which has potential reservoir capacity as indicated in the drillstem test recovery of salt water from 8,897 to 9,102.

The increase in deviation from about 6° to 12° that occurred at 9,220 feet, might be inferred to be due to steeper dips in the strata. It is possible that the steeper dips could be associated with or influenced by a fault zone, although no conclusive data to substantiate this became available. It has previously been pointed out that a thrust fault of some magnitude was thought to exist at depth below the Eagle Plains No.1 location, and that oil and gas might accumulate across this fault. However, control is insufficient to support this suggestion as anything more than a hope.

Geologically, Eagle Plains No.1 constitutes an adequate test of a reasonably normal, if incomplete, stratigraphic sequence found at the location as far down as Middle Ordovician age rocks. The deepening job did not contribute materially pertinent information but has certainly opened possibilities of interpretation as mentioned.

E. H. Vallat

December 5th, 1958

OPERATIONAL AND DRILLING SUMMARY

Operations commenced actively in September of 1956 and continued steadily until October of 1957, at which time Eagle Plains No. 1 was suspended.

During this period of approximately one year a National 55 drilling rig was purchased, moved to a location just east of Edmonton where a "shakedown" well was drilled; 2,600 tons of drilling supplies and equipment was gathered and shipped by truck from Edmonton, by boat and train from Vancouver, to Whitehorse and thence all by truck to Flat Creek, 35 miles east of Dawson City, Yukon Territory, transferred to sleighs and freighted by cat train over 300 miles of winter trails to a well location 12 miles inside the Arctic Circle in the Yukon Territory. The rig was erected, the well spudded in and drilled to a depth of 8409 ft., at which point it was suspended.

Generally speaking the complete operation ran smoothly from beginning to end, but not without problems being encountered.

Transportation was organized and planned to meet the seasons in which the ice bridges over rivers between Dawson and Whitehorse were available and in which trails through the Ogilvie Mountains and across the Peel and Porcupine Rivers could be constructed. Freighting over these trails is curtailed by the event of breakup occurring, usually in April. Under the capable management of N. Gritzuk, all supplies and equipment was successfully freighted from Flat Creek to the wellsite. Using equipment purchased by Peel Exploration Ltd., consisting of International Harvester TD 24 crawlers and heavy sleighs, made up into two separate operating units, seven round trips of freighting were required to complete the operation.

During this period the camp at the drill site was established, piling holes were drilled and pilings set on which the rig was eventually erected. On completion of the freighting operation, Parker drill crews were brought in to rig up the drilling equipment and to set the conductor pipe. On April 17th Eagle Plains No. 1 was spudded in.

Pilings of 10" diameter and averaging 18 ft. in length were placed beneath the rig proper. 12-1/4" holes were first drilled, using the G.S.I. seismic rig, and water was used to remove the bit cuttings. The pilings were subsequently frozen in these holes. It was proved later that these piles were

most successful in that the rig did not settle, in spite of the softening of the surface to a depth of 3 to 4 ft. during the warm season.

30 ft. of double walled 20" I.D. conductor pipe was set before actual drilling got underway. Dry drilling, using a "rat hole digger", was employed to make the conductor pipe hole. The conductor pipe was then cemented around the outside for the full length of 30 ft. However, drilling surface hole below the conductor pipe was hampered considerably in that the conductor pipe had to be recemented four times before the surface hole was completed at 1007 ft. A change in the method of setting the conductor pipe is, therefore, required in future drilling.

Generally speaking, the drilling operation was carried out in a successful and satisfactory manner. Initially drilling was very hard and slow, but with depth the rate of penetration increased. However, care had to be taken in keeping the hole straight and, where deviation seemed to be increasing, the rate of penetration was reduced to keep deviation to a minimum. The average daily footage drilled was approximately 50 ft. but previous to encountering a lost circulation section at approximately 4500 ft. the daily drilling rate averaged near 60 ft. and this figure may be considered as a more normal average for a well drilled in the various rock formations encountered at Eagle Plains No. 1.

Lost circulation proved to be the most problematical from the drilling point of view; because of it, our drilling mud and lost circulation supplies were soon depleted and quantities of these items were flown in, at great cost, enabling the well to continue down to 8409 ft. At this point, having again run out of these materials and because freezeup occurred and, therefore, the use of fixed wing aircraft not being possible, it was felt more economical to suspend the well until such time as drilling supplies could be taken in by cat trains.

The well was therefore suspended, the drilling rig left intact and completely winterized. The actual suspension program was so designed and carried out that it is possible to reopen the hole and drill to greater depth or, without additional work, to leave it as abandoned.

It was found that perma frost was indicated down to a depth of 1500 ft. and that this perma frost obviously affected the cement bond around the surface casing. The surface casing was set at 1007 ft. but in drilling past the bottom of the casing the perma frost, because of the warm drilling fluids, came out

of the formation and the hole was thus enlarged. In effect, surface casing thereby became unanchored and insecure at the bottom and it was, therefore, necessary to set an intermediate string of 9-5/8" casing, bottomed at 2510 ft. It is felt, therefore, that for future drilling operations consideration should be given to set surface casing to a depth of at least 2,000 ft.

The condition of the hole was at all times good, although some sloughing did occur within a perma frost section. Only during the last few weeks of drilling, when mud conditions were poor, did any trouble occur with regard to stuck drill pipe or tools. In one case only was it necessary to use "jars" to break loose a packer.

Some difficulties did occur initially with our heavy drill collars, and a failure of these was attributed for the most part to faulty use, rather than to physical failure. Three drill collars require repair before being used again.

The drilling rig motors, pumps and all various component parts operated most efficiently. Approximately half of the spare parts taken in for repairs and maintenance were used. The rig motors and pumps are in good enough shape to easily drill another deep test without a major overhaul. Some replacements and additions will be required for a second well, or for deepening the present well, but these will be for the most part of minor nature. However, supplies such as mud, cement and lost circulation materials will be required in greater amounts than had been used for Eagle Plains No. 1.

Fuel consumption averaged 730 gallons of diesel fuel per day. This average was lower than we had calculated, but the drilling did occur during the warmer months of the year and the boilers were used sparingly. If drilling were to occur during the extreme low temperature periods of winter, fuel consumption could be expected to be 1,000 gallons per day, or higher. It is expected that approximately 20,000 gallons of diesel fuel will be left in storage at Eagle Plains Camp.

Water supply was easily obtained during the summer months by pipeline and pump from a stream 2,300 yards distant. Previous reports mentioned successful use of dams during the run-off at breakup. In the late fall (last of September/early October) a pit was dug out of the perma frost at the campsite, using a TD 24 equipped with a blade and an attached ice point. The pit, when filled with water, held perfectly and a reservoir sufficient in volume to supply water for the rig and camp for 3 - 4 weeks was made available. It was intended to use this

water if drilling was to be continued through breakup and into the winter months.

Summer transportation of drill supplies, camp supplies and personnel became problematical because of the rough terrain that developed between the wellsite and the landing lake 6 miles away. The terrain became extremely rough and wet and was impassable during the months of August and September. Even the bombardiers could not cross the ground and the use of a helicopter was found not only convenient, but most economical in shuttling equipment from Eagle Plains Camp to the rig.

Camp facilities were quite adequate and comfortable; no complaints were received from any of the permanent employees. The cooking staff can be highly recommended for their job well done. Some consideration may be given for increased recreational facilities in future camps, for during the summer months it is not possible to leave the camp area even for short distances, because of the extremely wet conditions under foot.

The drill crews completed two, three-month work periods. Only 3 men of this group quit their work before the well was suspended. The toolpush of the rig was replaced during the month of July and his replacement proved to be satisfactory and remained until operations ceased. All drill crew members expressed desire to return if operations were to continue in the future. The supporting labour gang including the work force, cooks, radio operators and clerks numbered roughly 10 men and, therefore, the average total of permanent camp personnel was 25 men. At times, due to specialized work such as electro-logging, cementing being required, plus personnel of associated operations such as gravimeter crews and helicopter crews, the number of men in camp reached a figure as high as 35 to 40.

It is felt that more field supervision is required on the senior level. Drilling will probably be continued on a labour contract and common labour employed from local sources, resulting in two groups of men working for different employers. It was found that under such conditions unless a senior supervisor was present to whom both parties were responsible, the coordination of the work tends to fall apart and the labour force in particular becomes disorganized. Certain limited action has been taken in this respect in that serious consideration is being given to obtaining senior supervision in the field when the next well is drilled.

Due to the fact that any operation in the Yukon is dependent upon good communications and transportation facilities weather, therefore, becomes a very significant factor. Our experience shows that when planning projects a normal year's program usually requires approximately two seasons to complete, when applied to northern operations.

W.G. Campbell
W.G. Campbell.

December 5th 1957

A D D E N D A

DEEPENING OF EAGLE PLAINS NO.1

After the decision was made to deepen Eagle Plains No.1, materials and supplies were ordered and assembled in preparation for freighting by the tractor trains which would operate during the months of February and March of 1958. Additional fuels, drilling muds, sawdust, cement, drill pipe, casing, tubing and other items were assembled, sufficient to take the hole down an additional 2,000 feet if it were so required. Approximately 500 tons of new supplies were freighted into the Eagle Plains No.1 wellsite.

Camp facilities were cut to a bare minimum as at this time seismic operations were also being contemplated requiring some of the equipment used at the wellsite. Four new cabooses were constructed at Flat Creek to support both operations.

A change in supervision in the field was adopted, and a senior field supervisor with broad experience in drilling was employed to supervise all operations conducted in the field. This move was made as a result of the recommendations made with regard to supervision after the 1957 season of operations. Mr. F.H. Allen was employed to fill this position; and all field personnel, including Parker Drilling, Camp and Dawson office were placed under his jurisdiction.

Reconditioning of the Eagle Plains No.1 hole and the drilling out of the bridging plugs set the previous year, commenced on May 28, 1958. By June 12th, drilling had reached the depth of 9,589 feet, at which point the well was suspended. Up to this time the drilling rate averaged 74 feet a day, representing an increase over the previous year of 15 to 20 feet a day. Suspension of the well was brought about by the loss in the hole of some 854 feet of "fish." The suspension program was completed on July 16th.

On June 12th, while taking the first foot of core, the core head and core barrels became stuck at the bottom of the hole. Fishing operations continued for 3½ weeks, at which time the washover pipe itself became stuck over the "fish." With the limited amount of equipment at the wellsite it was felt impossible to continue operations, and the well was suspended. The top of the fish was left at 8,735 feet and consisted of the following:

1	Coring head
2	20-ft. inner and outer core barrels
13	6" drill collars
1	Set of jars and subs
9	Joints of 3½" drill pipe,
	All totalling 854 feet

In the process of deepening the well, our 4½" drill pipe failed during two different situations. After the last cement

plug had been drilled out but before actual deepening of the hole commenced, 7 drillstem at the bottom of the drill string exhibited a failure of such a nature as to suspect hydrostatic collapse of the drill pipe. However, at the depth of 8,400 feet, hydrostatic pressure should not be sufficient to collapse Grade "E" 18.1-pound drill pipe. A cross-section of the drillstem showed very little surface wear on either the inner or outer surfaces, and no defect in the steel was apparent. After a further investigation and inquiry, no specific cause for the failure of the drill pipe could be found. One reasonable theory is that some foreign body was lodged outside the drill pipe in the hole at the point of failure. Pressure exerted against the side of the drillstem, caused by the foreign body being squeezed against the side of the hole when pulling out with the drill pipe, may have caused this failure. It is impossible to determine if such did actually occur.

On another occasion, during the time of fishing operations, considerable tensile force was exerted on the pipe, and on three separate occasions tool joints failed at the point of the last engaged thread. The drill pipe which was included in the original inventory of the rig at the time of purchase, was fitted with old type, single seal, threaded tool joints. This old type of tool joint has exhibited, in the past, fatigue failure at the last engaged thread when drilling in crooked hole. Similar failures may occur with our present tool joints if we continue to use them where crooked hole conditions exist.

Other than the drill pipe, all rig components proved very satisfactory in operation. It is not anticipated that any major overhauls or repairs will be required if further drilling is undertaken. It is doubtful from a technical point of view if Eagle Plains No.1 should be deepened again, however, there is no reason to be anything but confident in the ability of our present drilling equipment to drill further holes to equivalent depths.

It is worth noting that the pilings placed beneath the rig in 1957 held absolutely firm during the two drilling seasons. Although surface conditions around and under the rig became extremely soft during the Summer months, no settlement of the rig itself was observed.

The rig mast was lowered and as much as possible was done to dismantle the rest of the equipment in such a manner as to make it readily movable from the well location, but without removing any of the main component parts from the matting.

No change in the basic planning or techniques would be recommended at this time for future drilling operations.

W. G. Campbell

December 9th, 1958

W. G. Campbell

SUMMARY OF WELL DATA

General Data:

Company Peel Plateau Exploration Ltd.

Well Eagle Plains No.1 Field Stratigraphic Test Hole

Location: Lsd. ..... Section ..... Twp. ..... Range .....

Co-ordinates 66° 48' 54" N 139° 8' 30" W.

Elevations: Ground 1457.4 ft. Kelly Bushing 1469.4 ft. (All depths measured from Kelly Bushing)

Dates: Spudded April 17th 1957 Finished Drilling Suspended Oct.6, 1957 at 8409'. Commenced drilling again on May 28/58 and suspended on July 15, 1958 at 9589'

Casing Set 13 3/8" - 1006.72 K.B. Rig Released

Drilling Contractor 9 5/8" - 2510.0 K.B.

Total Depth 9589 ft. Plugged Back to --- ft.

Hole Record: 17½" inch 0 to 1010 12¼" inch 1010 to 2510

9" inch 2510 to 4002 8 5/8" inch 4002 to 9589

Producing Horizon .....

Producing Interval .....

Initial 24 Hr. Potential: Date ..... Method .....

Bbls. Oil ..... Choke Size ..... B.S. & W. ..... %

Gas ..... Mcf. G.O.R. ..... Oil Gravity ..... °A.P.I.

Pressures: Casing ..... Tubing ..... Separator .....

Casing and Tubing Record:

Size O.D.	Weight lbs./ft.	Grade	Make	Type	Shoe Depth	Sacks Cement	No. Joints	Thread
13 3/8"	54.5	J.S.	Spang	S.T.& C	1006.72	860	34	8 RD
9 5/8"	36	J.55	Spang	S.T.& C	2510	600	78	8 RD

Perforations:

INTERVAL	Type of Perforations	No. of Holes	Holes per ft.	Size Holes	PERFORATING COMPANY

PEEL PLATEAU EXPLORATION LTD.

Sheet No. 1

ABANDONMENT SUSPENSION RECORD

Well Name & No. Eagle Plains No.1

Location Yukon Territory, 138° 8' 30" W, 66° 48' 54" N

DATE	PLUGS From	PLUGS To	No. Sax Cement	Pounds $CaCl_2$	REMARKS
Oct. 3/57	8409	8309	40		Commenced Suspension Oct.3
Oct. 4/57	5040		3		Cement Plug on McCullough bridge plug
Oct. 4/57	4425		3		Cement Plug on McCullough bridge plug.
Oct. 5/57	2615		60		Cement Plug on McCullough bridge plug.
Oct. 6/57	200		3		Cement Plug on McCullough bridge plug.
	Drilled out above plugs in 1958. Drilled to 9589. Lost fish in hole. Top of fish 8735				
July 13/58	8735	8685	20		Bottom hole plug
July 14/58	5040		3		Cement Plug on McCullough bridge plug
July 14/58	4425		3		" " " " "
July 15/58	2560	2410	60		Straddles bottom of 9 5/8" csg. at 2510
July 15/58	1200		3		Cement Plug on McCullough bridge plug
	Left modified well head on csg. for purposes of taking pressure and ease of re-entry if desired.				

DRILL STEM TEST SUMMARY

Company Peel Plateau Exploration Ltd.

Well Eagle Plains No.1 40 Field Stratigraphic Test Hole

	Test No.	FORMATION TESTED	INTERVAL TESTED	RESULT
1957	1	Ls.	3580 - 3918	Misrun
	2	Ls.	3515 - 3918	Recovered 200ft. drilling mud
	3	Ls.	4695 - 4720	Rec'd. 480' g. mud, 3860'S.W.
	4	Ls.=	4750 - 4785	Rec'd. 160' mud, 4235'S.W.
	5	Ls.	4450 - 4690	Rec'd. 656' W mud, 1868'M S.W.
	6	Ls.	4810 - 4950	Rec'd. 160' mud, 3976'S.W. gassy
	7	Ls.	6904 - 7040	Rec'd. 887' M S.W.
	8	Ls.	6790 - 6904	Rec'd. 664' S.W.
	9	Ls.	6246 - 6485	Rec'd. 1691' S.W.M.
	10	Ls.	7040 - 7264	Rec'd. 5561' S.W.
	11	Ls.	7264 - 7533	Rec'd. 998' M.S.W.
	12	Ls. & sh.	7650 - 7688	Rec'd. 140' W (Fresh) Mud
	13			Misrun
	14	Ls.	7636 - 7696	Rec'd. 140' Drilling Mud
	15	Sh. & Ls.	7531 - 7721	Misrun, tool plugged
	16	Ls.	7527 - 7721	Rec'd. 155' Drilling Mud
	17	Ls.	8338 - 8402	Rec'd. 796' S.W. & 572' water cushion
	18	Ls.		Misrun
	19	Ls.	4085 - 4423	Rec'd. 190' mud, V.C. 60 min
1958	20	Ls.	8897 - 9102	Rec'd. 1764 Salt Water & Water Cushion
	21	Ls.	9102 - 9343	Rec'd. 225ft. Drilling Mud

PEEL PLATEAU EXPLORATION LTD.

Sheet No. 1

FORMATION RECORD

Company Peel Plateau Exploration Ltd.,

Well Eagle Plains No.1 Field Stratigraphic Test Hole

Formation Information Taken from Sample Descriptions, E & Micro Logs, Stelck Report

HORIZON	DEPTH From	DEPTH To	Subsea Top	Eff. Ft. Pay	REMARKS
Lower Cretaceous	0	3586	+1457		
Mid Devonian	3586	6802	-2129		
Silurian	6802	7800±	-5345		
Ordovician	7800±	9589			

PEEL PLATEAU EXPLORATION LTD.

Sheet No. 1

CORE SUMMARY

Company Peel Plateau Exploration Ltd.

Well Eagle Plains No. 1 Field Stratigraphic Test Hole

Core No.	INTERVAL	Feet Cut	Feet Rec.	% Rec.	TYPE OF EQUIPMENT
1957					
1	2101 - 2122	21	21	100%	Diamond bit
2	3611 - 3658	47	20	42%	Diamond bit
3	3659 - 3678	20	20	100%	Diamond bit
4	3920 - 3940	20	20	100%	Diamond bit
5	4827 - 4847	20	2	10%	Diamond bit
6	4891 - 4912	21	3	14%	Diamond bit
7	4913 - 4950	37	2	5%	Diamond bit
8	5590 - 5600	10	10	100%	Diamond bit
9	6047 - 6087	40	40	100%	Diamond bit
10	6792 - 6824	32	32	100%	Diamond bit
11	7040 - 7048	8	8	100%	Diamond bit
12	7048 - 7069	21	21	100%	Diamond bit
13	7069 - 7097	28	28	100%	Diamond bit
14	7337 - 7377	40	40	100%	Diamond bit
15	7678 - 7688	10	10	100%	Diamond bit
16	7696 - 7706	10	8	80%	Diamond bit
17	7874 - 7906	32	32	100%	Diamond bit
1958					
18	9079 - 9102	23	12	50%	Diamond Bit
19	9327 - 9343	16	3	20%	Diamond Bit

Sheet No. 1

DRILL STEM TEST REPORT

Company Peel, Plateau Exploration Ltd. Date June 19/57 Test No. 1;

Well Eagle Plains No.1 Field Stratigraphic Test Hole

Testing Company United Testers Ltd. Operator Les Whitnack

Hole Data:

13 3/8" " casing to 1,006 ft. Interval tested 3,580 ft. to 3,918 ft.

9 5/8 " hole to 2,515 ft. Formation tested Devonian

" hole to ft. Formation top 3,586

Test Data:

Started in (a.m.) (p.m.) Oil to surface

On bottom Shut-In

Tool open Pulled loose

Gas to surface Out of hole

Bottom Hole Choke size inch Packer size inches

Pipe Recovery:

ft. oil ft. water ft. mud

Remarks

Seat Failure

Gas Flow:

Flow Rate (max.) Mcf./day How Measured

Size Flare Line (I.D.) inches Odor of gas

Remarks

Oil Flow:

Flow Rate Bbls./day How Measured

Gravity °A.P.I. at 60°F. Shake out % water % mud

Remarks

Pressures:

Rec. No. 5:

I. Shut-in

I. Flow

F. Flow

F. Shut-in

Hyd. Pressure 2,130

Rec. No. 6:

I. Shut-in

I. Flow

F. Flow

F. Shut-in

Hyd. Pressure 2,120

Engineer W. F. Wuest

PEEL PLATEAU EXPLORATION LTD.

Sheet No. 2

DRILL STEM TEST REPORT

Company Peel Plateau Exploration Ltd. Date June 19/57 Test No. 2

Well Eagle Plains No.1 Field Stratigraphic Test Hole

Testing Company United Testers Ltd. Operator L. Whitnack

Hole Data:

13 3/8 " casing to 1,006 ft. Interval tested 3,515 ft. to 3,910 ft.

9 5/8 " hole to 2,515 ft. Formation tested Devonian

" hole to ft. Formation top 3,506

" hole to ft.

Test Data:

Started in (a.m.) (p.m.) Oil to surface

On bottom 3:50 P.M. Shut-In 15 mins

Tool open 4:05 P.M. Pulled loose 5:35 P.M.

Gas to surface Out of hole

Bottom Hole Choke size 1/2 inch Packer size inches

Pipe Recovery:

ft. oil ft. water ft. mud

Remarks G.I.P. weak blow increasing for 1/2 hour, dying slowly to 0,60 min.
Seat leaked during Initial Shut in

Gas Flow:

Flow Rate (max.) Mcf./day How Measured

Size Flare Line (I.D.) inches Odor of gas

Remarks

Oil Flow:

Flow Rate Bbls./day How Measured

Gravity °A.P.I. at 60°F. Shake out % water % mud

Remarks

Pressures:

Rec. No. 5:

I. Shut-in	2,100
I. Flow	360
F. Flow	360
F. Shut-in	840
Hyd. Pressure	2,105

Rec. No. 6:

I. Shut-in	1,900
I. Flow	150
F. Flow	170
F. Shut-in	230
Hyd. Pressure	1,900 to 1,840

Engineer W. F. Guest

PEEL PLATEAU EXPLORATION LTD.

Sheet No. 3

DRILL STEM TEST REPORT

Company Peel Plateau Exploration Ltd. Date July 8 & 9, 1957 Test No. 3

Well Earle Plains No.1 Field Stratigraphic Test Hole

Testing Company United Testers Ltd. Operator L. Whitmack

Hole Data:

....." casing to .....ft. Interval tested 4,695 ft. to 4,720 ft.

....." hole to .....ft. Formation tested Devonian

....." hole to .....ft. Formation top 3,586

Test Data:

Started in .....(a.m.)(p.m.) Oil to surface .....

On bottom 11:50P.M. Shut-In 15 Mins

Tool open 12:05P.M. 60 Mins Pulled loose 1:35 A.M.

Gas to surface 15 Mins Out of hole .....

Bottom Hole Choke size 1/2 inch Packer size .....inches

Pipe Recovery:

..... ft. oil 3,860 Ft. salt ft. water 480 ft. gassy ~~fx~~ mud

Remarks .....

G.I.P.

Gas Flow:

Flow Rate (max.) .....Mcf./day How Measured .....

Size Flare Line (I.D.) .....inches Odor of gas .....

Remarks .....

G.T.S. 15 Mins. Too small to measure, decreasing

Oil Flow:

Flow Rate ..... Bbls./day How Measured .....

Gravity ..... °A.P.I. at 60°F. Shake out .....% water .....% mud

Remarks .....

Pressures:

Rec. No. 5:

I. Shut-in 1,910

I. Flow 1,870

F. Flow 1,880

F. Shut-in 2,350

Hyd. Pressure 2,520 - 2,515

Rec. No. 6:

I. Shut-in 1,950

I. Flow 1,830

F. Flow 1,930

F. Shut-in 1,950

Hyd. Pressure 2,430 - 2,400

Engineer T. F. Quest

Sheet No. 4

DRILL STEM TEST REPORT

Company Peel Plateau Exploration Ltd. Date July 9 & 10/57 Test No. 4

Well Eagle Plains No.1 Field Stratigraphic Test Hole

Testing Company United Testers Ltd. Operator L. Whitnack

Hole Data:

..... " casing to ..... ft. Interval tested 4,750 ft. to 4,784 ft.

..... " hole to ..... ft. Formation tested Devonian

..... " hole to ..... ft. Formation top 3,586

Test Data:

Started in ..... (a.m.) (p.m.) Oil to surface .....

On bottom ..... Shut-In .....

Tool open ..... Pulled loose .....

Gas to surface ..... Out of hole .....

Bottom Hole Choke size ..... inch Packer size ..... inches

Pipe Recovery:

820 ft. muddy salt water

..... ft. oil 3415 ft. salt water ft. water 160 ft. mud

Remarks .....

Gas Flow:

Flow Rate (max.) ..... Mcf./day How Measured .....

Size Flare Line (I.D.) ..... inches Odor of gas .....

Remarks G.T.S. 35 mins. Too small to measure

Oil Flow:

Flow Rate ..... Bbls./day How Measured .....

Gravity ..... °A.P.I. at 60°F. Shake out ..... % water ..... % mud

Remarks .....

Pressures:

Rec. No. 5:

I. Shut-in 1,990

I. Flow 1,360

F. Flow 1,930

F. Shut-in 1,910

Hyd. Pressure 2,420 - 2,350

Rec. No. 6:

I. Shut-in 1,980

I. Flow 1,340

F. Flow 1,950

F. Shut-in 1,940

Hyd. Pressure 2,365 - 2,330

Engineer W. F. Muest

DRILL STEM TEST REPORT

Company Peel Plateau Exploration Ltd. Date July 12/57 Test No. 5

Well Eagle Plains No.1 Field Stratigraphic Test Hole

Testing Company United Testers Ltd. Operator L. Whitnack

Hole Data:

..... " casing to ..... ft. Interval tested 4,450 ft. to 4,690 ft.

..... " hole to ..... ft. Formation tested Devonian

..... " hole to ..... ft. Formation top 3,586

Test Data:

Started in ..... (a.m.) (p.m.) Oil to surface .....

On bottom ..... Shut-In .....

Tool open 60mins. 6:40A.M. Pulled loose .....

Gas to surface ..... Out of hole .....

Bottom Hole Choke size ..... inch Packer size ..... inches

Pipe Recovery:

..... ft. oil 1,868ft.muddy salt ft. water 656ft. watery mud ft. mud

Remarks G.I.P. blow dying towards end of Test.

Tool partially plugged due to sawdust

Gas Flow:

Flow Rate (max.) ..... Mcf./day How Measured .....

Size Flare Line (I.D.) ..... inches Odor of gas .....

Remarks .....

Oil Flow:

Flow Rate ..... Bbls./day How Measured .....

Gravity ..... °A.P.I. at 60°F. Shake out ..... % water ..... % mud

Remarks .....

Pressures:

Rec. No. 5:

I. Shut-in 1,775

I. Flow 190

F. Flow 1,325

F. Shut-in 1,790

Hyd. Pressure 2,150 - 2,090

Rec. No. 6:

I. Shut-in 1,790

I. Flow 215

F. Flow 1,310

F. Shut-in 1,810

Hyd. Pressure 2,160 - 2,140

Engineer W. F. Wuest

DRILL STEM TEST REPORT

Company Peel Plateau Exploration Ltd. Date July 14/57 Test No. 6

Well Eagle Plains No.1 Field Stratigraphic Test Hole

Testing Company ..... Operator L. Whitnack

Hole Data:

..... " casing to ..... ft. Interval tested 4,810 ft. to 4,950 ft.

..... " hole to ..... ft. Formation tested Devonian

..... " hole to ..... ft. Formation top 3,586

Test Data:

Started in ..... (a.m.) (p.m.) Oil to surface .....

On bottom ..... Shut-In 30 mins.

Tool open ..... Pulled loose .....

Gas to surface ..... Out of hole .....

Bottom Hole Choke size ..... inch Packer size ..... inches

Pipe Recovery:

..... ft. oil 3,776 ft. salt water ft. water 160 ft. mud

Remarks .....

Strong blow 30 mins

Gas Flow:

Flow Rate (max.) ..... Mcf./day How Measured .....

Size Flare Line (I.D.) ..... inches Odor of gas .....

Remarks .....

Oil Flow:

Flow Rate ..... Bbls./day How Measured .....

Gravity ..... °A.P.I. at 60°F. Shake out ..... % water ..... % mud

Remarks .....

Pressures:

Rec. No. 5:

I. Shut-in	2,030
I. Flow	1,140
F. Flow	1,975
F. Shut-in	2,020
Hyd. Pressure	2,400 - 2,310

Rec. No. 6:

I. Shut-in	2,025
I. Flow	1,100
F. Flow	1,930
F. Shut-in	1,995
Hyd. Pressure	2,370 - 2,280

Engineer W. F. Hunt

Sheet No. 7

DRILL STEM TEST REPORT

Company Peel Plateau Exploration Ltd. Date Aug. 14/57 Test No. 7

Well Eagle Plains No. 1 Field Stratigraphic Test Hole

Testing Company United Testers Ltd. Operator L. Whitnack

Hole Data:

..... " casing to ..... ft. Interval tested 6,904 ft. to 7,040 ft.

..... " hole to ..... ft. Formation tested Silurian

..... " hole to ..... ft. Formation top 6,802

Test Data:

Started in ..... (a.m.) (p.m.) Oil to surface .....

On bottom ..... Shut-In 60 mins.

Tool open ..... Pulled loose .....

Gas to surface ..... Out of hole .....

Bottom Hole Choke size ..... inch Packer size ..... inches

Pipe Recovery:

..... ft. oil 887 ft. water ..... ft. mud

Remarks .....

Weak I.F. fair blow 60 mins.

Gas Flow:

Flow Rate (max.) ..... Mcf./day How Measured .....

Size Flare Line (I.D.) ..... inches Odor of gas .....

Remarks .....

Oil Flow:

Flow Rate ..... Bbls./day How Measured .....

Gravity ..... °A.P.I. at 60°F. Shake out ..... % water ..... % mud

Remarks .....

Pressures:

Rec. No. 5:

I. Shut-in 2,780

I. Flow 210

F. Flow 500

F. Shut-in 2,970

Hyd. Pressure 3,315 - 3,385

Rec. No. 6:

I. Shut-in 2,765

I. Flow 200

F. Flow 490

F. Shut-in 2,950

Hyd. Pressure 3,400 - 3,405

Engineer W. F. Guest

Sheet No. 8

DRILL STEM TEST REPORT

Company Peel Plateau Exploration Ltd. Date Aug.14/57 Test No. 8

Well Eagle Plains No.1 Field Stratigraphic Test Hole

Testing Company ..... Operator L. Whitnack

Hole Data:

..... " casing to ..... ft. Interval tested 6,790 ft. to 6,904 ft.

..... " hole to ..... ft. Formation tested Silurian

..... " hole to ..... ft. Formation top 6,802

Test Data:

Started in ..... (a.m.) (p.m.) Oil to surface .....

On bottom ..... Shut-In .....

Tool open 9:55P.M. Pulled loose 11:25

Gas to surface ..... Out of hole .....

Bottom Hole Choke size ..... inch Packer size ..... inches

Pipe Recovery:

..... ft. oil 664 ft. Salt Water ft. water ..... ft. mud

Remarks .....

C.I.P. Fair blow 60 mins.

Gas Flow:

Flow Rate (max.) ..... Mcf./day How Measured .....

Size Flare Line (I.D.) ..... inches Odor of gas .....

Remarks .....

Oil Flow:

Flow Rate ..... Bbls./day How Measured .....

Gravity ..... °A.P.I. at 60°F. Shake out ..... % water ..... % mud

Remarks .....

Pressures:

Rec. No. 5:

I. Shut-in 2,975

I. Flow 0

F. Flow 500

F. Shut-in 2,975

Hyd. Pressure 3,425 - 3,425

Rec. No. 6:

I. Shut-in 2,965

I. Flow 0

F. Flow 490

F. Shut-in 2,975

Hyd. Pressure 3,430 - 3,420

Engineer W. F. Muest

Sheet No. 9

DRILL STEM TEST REPORT

Company Peel Plateau Exploration Ltd. Date Aug.15/57 Test No. 9

Well Eagle Plains No.1 Field Stratigraphic Test Hole

Testing Company United Testers Ltd. Operator L. Whitnack

Hole Data:

..... " casing to ..... ft. Interval tested 6,246 ft. to 6,485 ft.

..... " hole to ..... ft. Formation tested Devonian

..... " hole to ..... ft. Formation top 3,586

Test Data:

Started in ..... (a.m.) (p.m.) Oil to surface .....

On bottom ..... Shut-In .....

Tool open 6:45A.M. Pulled loose 8:15

Gas to surface ..... Out of hole .....

Bottom Hole Choke size ..... inch Packer size ..... inches

Pipe Recovery:

..... ft. oil ..... ft. water 1691ft. watery mud ft. mud

Remarks .....

Gas Flow:

Flow Rate (max.) ..... Mcf./day How Measured .....

Size Flare Line (I.D.) ..... inches Odor of gas .....

Remarks .....

Oil Flow:

Flow Rate ..... Bbls./day How Measured .....

Gravity ..... °A.P.I. at 60°F. Shake out ..... % water ..... % mud

Remarks .....

Pressures:

Rec. No. 5:

I. Shut-in 2,700

I. Flow 0

F. Flow 900

F. Shut-in 2,695

Hyd. Pressure 3,225 - 3,100

Rec. No. 6:

I. Shut-in 2,690

I. Flow 0

F. Flow 885

F. Shut-in 2,680

Hyd. Pressure 3,000 - 2,870

Engineer W. F. Guest

Sheet No. 10

DRILL STEM TEST REPORT

Company Peel Plateau Exploration Ltd. Date Aug.21/57 Test No. 10

Well Eagle Plains No.1 Field Stratigraphic Test Hole

Testing Company United Testers Ltd. Operator L. Whitmack

Hole Data:

..... " casing to ..... ft. Interval tested 7,040 ft. to 7,264 ft.

..... " hole to ..... ft. Formation tested Silurian

..... " hole to ..... ft. Formation top 6,802

Test Data:

Started in ..... (a.m.) (p.m.) Oil to surface .....

On bottom ..... Shut-In .....

Tool open 3:25 P.M. 45 Mins Pulled loose 4:35 P.M.

Gas to surface ..... Out of hole .....

Bottom Hole Choke size ..... inch Packer size ..... inches

Pipe Recovery:

..... ft. oil 5,561ft. Saltwater ft. water ..... ft. mud

Remarks .....

G.I.P. Strong blow decreasing to fair at end of 45 mins.

Gas Flow:

Flow Rate (max.) ..... Mcf./day How Measured .....

Size Flare Line (I.D.) ..... inches Odor of gas .....

Remarks .....

Oil Flow:

Flow Rate ..... Bbls./day How Measured .....

Gravity ..... °A.P.I. at 60°F. Shake out ..... % water ..... % mud

Remarks .....

Pressures:

Rec. No. 5:

I. Shut-in 3,200

I. Flow 1,300

F. Flow 2,890

F. Shut-in 3,225

Hyd. Pressure 3,800 - 3,775

Rec. No. 6:

I. Shut-in 3,190

I. Flow 1,290

F. Flow 2,880

F. Shut-in 3,215

Hyd. Pressure 3,690 - 3,660

Engineer F. F. Hurst

Sheet No. 11

DRILL STEM TEST REPORT

Company Peel Plateau Exploration Ltd. Date Aug.26/57 Test No. 11

Well Eagle Plains No.1 Field Stratigraphic Test Hole

Testing Company United Testers Ltd. Operator L. Whitnack

Hole Data:

..... " casing to ..... ft. Interval tested 7,264 ft. to 7,533 ft.

..... " hole to ..... ft. Formation tested Silurian

..... " hole to ..... ft. Formation top 6,802

Test Data:

Started in ..... (a.m.) (p.m.) Oil to surface .....

On bottom ..... Shut-In .....

Tool open 3A.M. 60 mins. Pulled loose 4:30 A.M.

Gas to surface ..... Out of hole .....

Bottom Hole Choke size ..... inch Packer size ..... inches

Pipe Recovery:

..... ft. oil 996 ft. muddy salt water ..... ft. mud

Remarks .....

G.I.P. Fair blow. Decreasing

Gas Flow:

Flow Rate (max.) ..... Mcf./day How Measured .....

Size Flare Line (I.D.) ..... inches Odor of gas .....

Remarks .....

Oil Flow:

Flow Rate ..... Bbls./day How Measured .....

Gravity ..... °A.P.I. at 60°F. Shake out ..... % water ..... % mud

Remarks .....

Pressures:

Rec. No. 5:

I. Shut-in	3,390
I. Flow	500
F. Flow	950
F. Shut-in	
Hyd. Pressure	3,350 4,100 - 3,950

Rec. No. 6:

I. Shut-in	3,325
I. Flow	300
F. Flow	750
F. Shut-in	
Hyd. Pressure	3,340 3,950 - 3,800

Engineer W. F. Nuest

DRILL STEM TEST REPORT

Company Peel Plateau Exploration Ltd. Date Sept. 3/57 Test No. 12

Well Eagle Plains No. Field Stratigraphic Test Hole

Testing Company United Testers Ltd. Operator L. Whitnack

Hole Data:

..... " casing to ..... ft. Interval tested 7,650 ft. to 7,688 ft.

..... " hole to ..... ft. Formation tested Silurian

..... " hole to ..... ft. Formation top 6,802

Test Data:

Started in ..... (a.m.) (p.m.) Oil to surface .....

On bottom ..... Shut-In .....

Tool open 11:55 55 Mins. Pulled loose .....

Gas to surface ..... Out of hole .....

Bottom Hole Choke size ..... inch Packer size ..... inches

Pipe Recovery:

..... ft. oil ..... ft. water 140 watery ft. mud

Remarks 650 ft. water cushion

Gas Flow:

Flow Rate (max.) ..... Mcf./day How Measured .....

Size Flare Line (I.D.) ..... inches Odor of gas .....

Remarks W.I.P. dead in 5 mins. reset 4 times; weak puffs. Pulled loose w/40,000# rubber damaged.

Oil Flow:

Flow Rate ..... Bbls./day How Measured .....

Gravity ..... °A.P.I. at 60°F. Shake out .....% water .....% mud

Remarks .....

Pressures:

Rec. No. 5:

I. Shut-in 0

I. Flow 475

F. Flow 500

F. Shut-in 0

Hyd. Pressure 3,725 - 3,550

Rec. No. 6:

I. Shut-in 0

I. Flow 350

F. Flow 385

F. Shut-in 0

Hyd. Pressure 3,600 - 3,460

Engineer W. F. Guest

PEEL PLATEAU EXPLORATION LTD.

Sheet No. 13

DRILL STEM TEST REPORT

Company Peel Plateau Exploration Ltd. Date Sept.7/57 Test No. 13

Well Eagle Plains No.1 Field Stratigraphic Test Hole

Testing Company United Testers Ltd. Operator L. Whitmack

Hole Data:

..... " casing to ..... ft. Interval tested ..... ft. to ..... ft.

..... " hole to ..... ft. Formation tested .....

..... " hole to ..... ft. Formation top .....

Test Data:

Started in ..... (a.m.) (p.m.) Oil to surface .....

On bottom ..... Shut-In .....

Tool open ..... Pulled loose .....

Gas to surface ..... Out of hole .....

Bottom Hole Choke size ..... inch Packer size ..... inches

Pipe Recovery:

..... ft. oil ..... ft. water ..... ft. mud

Remarks .....

Misrun. Packer failed

Gas Flow:

Flow Rate (max.) ..... Mcf./day How Measured .....

Size Flare Line (I.D.) ..... inches Odor of gas .....

Remarks .....

Oil Flow:

Flow Rate ..... Bbls./day How Measured .....

Gravity ..... °A.P.I. at 60°F. Shake out ..... % water ..... % mud

Remarks .....

Pressures:

Rec. No. 5:

I. Shut-in .....

I. Flow .....

F. Flow .....

F. Shut-in .....

Hyd. Pressure .....

Rec. No. 6:

I. Shut-in .....

I. Flow .....

F. Flow .....

F. Shut-in .....

Hyd. Pressure .....

Engineer W. F. Wuest

PEEL PLATEAU EXPLORATION LTD.

Sheet No. 24

DRILL STEM TEST REPORT

Company Peel Plateau Exploration Ltd. Date Sept.7/57 Test No. 14

Well Eagle Plains No.1 Field Stratigraphic Test Hole

Testing Company United Testers Ltd. Operator L. Whitmack

Hole Data:

" casing to ft. Interval tested 7,636 ft. to 7,696 ft.

" hole to ft. Formation tested Silurian

" hole to ft. Formation top 6,602

Test Data:

Started in (a.m.) (p.m.) Oil to surface

On bottom Shut-In

Tool open 5a.m. Pulled loose 6:30a.m.

Gas to surface Out of hole

Bottom Hole Choke size inch Packer size inches

Pipe Recovery:

ft. oil ft. water 140 ft. mud

Remarks

W.I.P. weak blow 1 hour. Stuck 1 hour.

Gas Flow:

Flow Rate (max.) Mcf./day How Measured

Size Flare Line (I.D.) inches Odor of gas

Remarks

Oil Flow:

Flow Rate Bbls./day How Measured

Gravity °A.P.I. at 60°F. Shake out % water % mud

Remarks

Pressures:

Rec. No. 5:

I. Shut-in 0

I. Flow 0

F. Flow 150

F. Shut-in 0

Hyd. Pressure 3,375 - 3,000

Rec. No. 6:

I. Shut-in 0

I. Flow 200

F. Flow 200

F. Shut-in 0

Hyd. Pressure 3,775 - 3,650

Engineer W. F. Muent

DRILL STEM TEST REPORT

Company PEEL PLATEAU EXPLORATION LTD., Date September 15, 1957 Test No. 15
Well Eagle Plains No.1 Field Stratigraphic Test Hole
Testing Company United Testers Ltd. Operator L. Whitmack

Hole Data:

..." casing to ...ft. Interval tested ... ft. to ...ft.
..." hole to ...ft. Formation tested ...
..." hole to ...ft. Formation top ...

Test Data:

Started in ... (a.m.) (p.m.) Oil to surface ...
On bottom ... Shut-In ...
Tool open ... Pulled loose ...
Gas to surface ... Out of hole ...
Bottom Hole Choke size ...inch Packer size ...inches

Pipe Recovery:

... ft. oil ... ft. water ... ft. mud
Remarks ...
Misrun, Tool Plugged

Gas Flow:

Flow Rate (max.) ...Mcf./day How Measured ...
Size Flare Line (I.D.) ...inches Odor of gas ...
Remarks ...

Oil Flow:

Flow Rate ... Bbls./day How Measured ...
Gravity ... °A.P.I. at 60°F. Shake out ...% water ...% mud
Remarks ...

Pressures:

Rec. No. 5:

I. Shut-in ...
I. Flow ...
F. Flow ...
F. Shut-in ...
Hyd. Pressure ...

Rec. No. 6:

I. Shut-in ...
I. Flow ...
F. Flow ...
F. Shut-in ...
Hyd. Pressure ...

Engineer W. F. Wuest

PEEL PLATEAU EXPLORATION LTD.

Sheet No. 16

DRILL STEM TEST REPORT

Company Peel Plateau Exploration Ltd. Date Sept.16/57 Test No. 16

Well Eagle Plains No.1 Field Stratigraphic Test Hole

Testing Company United Testers Ltd. Operator L. Whitnack

Hole Data:

....." casing to .....ft. Interval tested 7,527 ft. to 7,721 ft.

....." hole to .....ft. Formation tested Silurian

....." hole to .....ft. Formation top 6,802

Test Data:

Started in .....(a.m.)(p.m.) Oil to surface .....

On bottom ..... Shut-In .....

Tool open 2P.M. Pulled loose 4:30P.M.

Gas to surface ..... Out of hole .....

Bottom Hole Choke size .....inch Packer size .....inches

Pipe Recovery:

..... ft. oil ..... ft. water 155 ft. mud

Remarks .....

W.I.P. Very weak blow, 60 mins.

Gas Flow:

Flow Rate (max.) .....Mcf./day How Measured .....

Size Flare Line (I.D.) .....inches Odor of gas .....

Remarks .....

Oil Flow:

Flow Rate ..... Bbls./day How Measured .....

Gravity ..... °A.P.I. at 60°F. Shake out .....% water .....% mud

Remarks .....

Pressures:

Rec. No. 5:

I. Shut-in 360

I. Flow 275

F. Flow 275

F. Shut-in 250

Hyd. Pressure 3,750 - 3,625

Rec. No. 6:

I. Shut-in 315

I. Flow 0

F. Flow 0

F. Shut-in 150

Hyd. Pressure 3,550 - 3,485

Engineer W. F. Wuest

DRILL STEM TEST REPORT

Company Peel Plateau Exploration Ltd. Date Oct. 2/57 Test No. 17

Well Eagle Plains No.1 Field Stratigraphic Test Hole

Testing Company United Testers Ltd. Operator L. Whitmack

Hole Data:

....." casing to .....ft. Interval tested 6,338 ft. to 6,409 ft.

....." hole to .....ft. Formation tested Silurian

....." hole to .....ft. Formation top 6,802

Test Data:

Started in .....(a.m.)(p.m.) Oil to surface .....

On bottom ..... Shut-In .....

Tool open 60 mins. Pulled loose .....

Gas to surface ..... Out of hole .....

Bottom Hole Choke size .....inch Packer size .....inches

Pipe Recovery:

..... ft. oil 796 ft. Saltwater ft. water ..... ft. mud

Remarks .....

Strong I.F. fair blow 60 mins.

Gas Flow:

Flow Rate (max.) .....Mcf./day How Measured .....

Size Flare Line (I.D.) .....inches Odor of gas .....

Remarks .....

Oil Flow:

Flow Rate ..... Bbls./day How Measured .....

Gravity ..... °A.P.I. at 60°F. Shake out .....% water .....% mud

Remarks .....

Pressures:

Rec. No. 5:

I. Shut-in 3,600

I. Flow 625

F. Flow 625

F. Shut-in 3,425

Hyd. Pressure 4,210 - 4,150

Rec. No. 6:

I. Shut-in .....

I. Flow .....

F. Flow .....

F. Shut-in .....

Hyd. Pressure .....

Engineer W. F. Hunt

DRILL STEM TEST REPORT

Company Peel Plateau Exploration Ltd. Date ..... Test No. 18

Well Eagle Plains No.1 Field Stratigraphic Test Hole

Testing Company United Testers Ltd. Operator L. Whitmark

Hole Data:

....." casing to .....ft. Interval tested ..... ft. to .....ft.

....." hole to .....ft. Formation tested .....

....." hole to .....ft. Formation top .....

Test Data:

Started in ..... (a.m.) (p.m.) Oil to surface .....

On bottom ..... Shut-In .....

Tool open ..... Pulled loose .....

Gas to surface ..... Out of hole .....

Bottom Hole Choke size .....inch Packer size .....inches

Pipe Recovery:

..... ft. oil ..... ft. water ..... ft. mud

Remarks .....

Misrun. Dies failed to break, dropped 2 darts which hang up in jars

Gas Flow:

Flow Rate (max.) .....Mcf./day How Measured .....

Size Flare Line (I.D.) .....inches Odor of gas .....

Remarks .....

.....

Oil Flow:

Flow Rate ..... Bbls./day How Measured .....

Gravity ..... °A.P.I. at 60°F. Shake out .....% water .....% mud

Remarks .....

.....

Pressures:

Rec. No. 5:

I. Shut-in .....

I. Flow .....

F. Flow .....

F. Shut-in .....

Hyd. Pressure 1,870 - 1,960

Rec. No. 6:

I. Shut-in .....

I. Flow .....

F. Flow .....

F. Shut-in .....

Hyd. Pressure 1,860 - 1,960

Engineer W. F. Hunt

Sheet No. 19

DRILL STEM TEST REPORT

Company Peel Plateau Exploration Ltd. Date Oct. 5/57 Test No. 19

Well Eagle Plains No.1 Field Stratigraphic Test Hole

Testing Company United Testers Ltd. Operator L. Whitmack

Hole Data:

..... " casing to ..... ft. Interval tested 4,085 ft. to 4,423 ft.

..... " hole to ..... ft. Formation tested Devonian

..... " hole to ..... ft. Formation top 3,586

Test Data:

Started in ..... (a.m.) (p.m.) Oil to surface .....

On bottom ..... Shut-In .....

Tool open 12.50. 60mins Pulled loose .....

Gas to surface ..... Out of hole .....

Bottom Hole Choke size ..... inch Packer size ..... inches

Pipe Recovery:

..... ft. oil ..... ft. water 190 ft. mud

Remarks .....

I. I. P. Reset, good blow, died in 10 mins.

Gas Flow:

Flow Rate (max.) ..... Mcf./day How Measured .....

Size Flare Line (I.D.) ..... inches Odor of gas .....

Remarks .....

Oil Flow:

Flow Rate ..... Bbls./day How Measured .....

Gravity ..... °A.P.I. at 60°F. Shake out ..... % water ..... % mud

Remarks .....

Pressures:

Rec. No. 5:

I. Shut-in 310

I. Flow 80

F. Flow 80

F. Shut-in 0

Hyd. Pressure 1,880 - 1,940

Rec. No. 6:

I. Shut-in 360

I. Flow 110

F. Flow 110

F. Shut-in 0

Hyd. Pressure 1,920 - 1,940

Engineer W. F. Maast

PEEL PLATEAU EXPLORATION LTD.

Sheet No. 20

DRILL STEM TEST REPORT

Company Peel Plateau Exploration Ltd. Date June 5, 1958. Test No. 20

Well Eagle Plains No. 1 Field Stratigraphic Test Hole

Testing Company United Testers Operator L. Whitnack

Hole Data:

..... " casing to ..... ft. Interval tested 8897 ft. to 9102 ft.

..... " hole to ..... ft. Formation tested Ord.

..... " hole to ..... ft. Formation top .....

Test Data:

Started in ..... (a.m.) (p.m.) Oil to surface .....

On bottom ..... Shut-In .....

Tool open ..... Pulled loose .....

Gas to surface ..... Out of hole .....

Bottom Hole Choke size ..... inch Packer size ..... inches

Pipe Recovery:

..... ft. oil 1764 ft. water ..... ft. mud

Remarks .....

Salty water recovered and 1401' water cushion.

Gas Flow:

Flow Rate (max.) ..... Mcf./day How Measured .....

Size Flare Line (I.D.) ..... inches Odor of gas .....

Remarks .....

Oil Flow:

Flow Rate ..... Bbls./day How Measured .....

Gravity ..... °A.P.I. at 60°F. Shake out ..... % water ..... % mud

Remarks .....

Pressures:

Rec. No. 5:

I. Shut-in 3725

I. Flow 15

F. Flow 525

F. Shut-in 3725

Hyd. Pressure 4215

Rec. No. 6:

I. Shut-in .....

I. Flow .....

F. Flow .....

F. Shut-in .....

Hyd. Pressure .....

Engineer W. F. Wuest

PEEL PLATEAU EXPLORATION LTD.

Sheet No. 21

DRILL STEM TEST REPORT

Company Peel Plateau Exploration Ltd. Date June 9, 1958 Test No. 21

Well Eagle Plains No. 1 Field Stratigraphic Test Hole

Testing Company United Testers Ltd. Operator L. Whitnack

Hole Data:

..... " casing to ..... ft. Interval tested 9102 ft. to 9343 ft.

..... " hole to ..... ft. Formation tested Ord.

..... " hole to ..... ft. Formation top .....

Test Data:

Started in ..... (a.m.) (p.m.) Oil to surface .....

On bottom ..... Shut-In .....

Tool open ..... Pulled loose .....

Gas to surface ..... Out of hole .....

Bottom Hole Choke size ..... inch Packer size ..... inches

Pipe Recovery:

..... ft. oil ..... ft. water 255 ft. mud

Remarks .....

.....

Gas Flow:

Flow Rate (max.) ..... Mcf./day How Measured .....

Size Flare Line (I.D.) ..... inches Odor of gas .....

Remarks .....

.....

Oil Flow:

Flow Rate ..... Bbls./day How Measured .....

Gravity ..... °A.P.I. at 60°F. Shake out ..... % water ..... % mud

Remarks .....

.....

Pressures:

Rec. No. 5:

I. Shut-in False Shut-in.

I. Flow Packer seat failed.

F. Flow .....

F. Shut-in .....

Hyd. Pressure 4225

Rec. No. 6:

I. Shut-in .....

I. Flow .....

F. Flow .....

F. Shut-in .....

Hyd. Pressure .....

Engineer Wm. F. Wuest

CGL-4

CHEMICAL & GEOLOGICAL LABORATORIES LTD.

10568 - 114th Street
EDMONTON, ALBERTA
Phones: 25624
42562

GAS ANALYSIS REPORT

FIELD ..... WELL NO. Eagle Plain #1 Yukon Territory

OPERATOR Peel Plateau Exploration Company LOCATION .....

SAND ..... DEPTHS ..... LAB NO. 10138

ANALYZED BY Chemical & Geological Labs. Ltd. DATE July 23rd, 1957

REMARKS .....

ORSAT ANALYSIS

	% by Volume
Oxygen	
Nitrogen	
Carbon dioxide	
Hydrogen sulfide	
Total hydrocarbons	
Average "n"	

PODBIELNIAK Low Temperature Fractionation

	% by Volume	G.P.M. in U.S. Gal.	G.P.M. in Imp. Gal.
Oxygen	0		
Nitrogen	2.26		
Carbon dioxide	0.33		
Hydrogen sulfide	0		
Methane	96.94		
Ethane	0.24		
Propane	0.15	0.041	0.034
Isobutane	0.08	0.026	0.021
N-butane			
Isopentane			
N-pentane			
Diisopropyl			
N-Hexane			
Heptanes and Higher			
TOTAL	100.00	0.067	0.055

HYDROGEN SULFIDE

(by Tutwiler Method)

Grains of hydrogen sulfide per 100 cu ft. of gas at 60°F. and

14.7 lbs. per sq. in. ——

14.4 lbs. per sq. in. ——

Percentage of Hydrogen sulfide ——

GROSS B.T.U.

60°F. and 14.7 p.s.i.a. 990

60°F. and 14.4 p.s.i.a. 970

G.P.M.

	G.P.M.	
Actual pentanes +		
Calculated at 12 lbs.		
Calculated at 15 lbs.		
Calculated at 22 lbs.		
Calculated at 26 lbs.		

Vapor pressure (calculated) of actual pentanes + ——

Specific Gravity Calculated 570

Specific Gravity by Weight 560

Remarks and Conclusions: 15.50% air contamination. All figures corrected for this contamination.

CORE LAB

CORE LABORATORIES-CANADA LTD.

PETROLEUM RESERVOIR ENGINEERING

CALGARY, ALBERTA

WATER ANALYSIS

File CNP-4-WA9

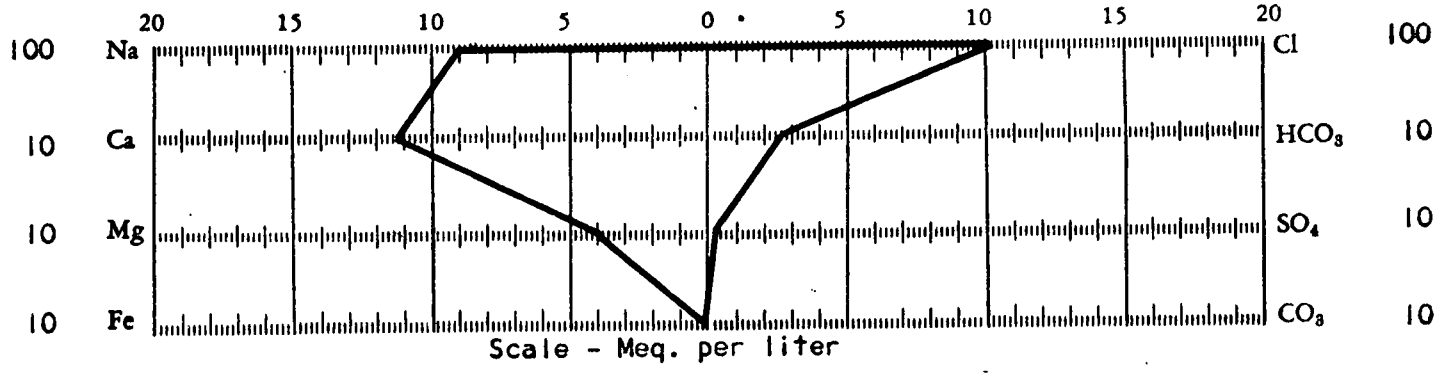
Company Peel Plateau Exploration Ltd. Well Name Eagle Plains #1 Sample No. 1

Formation _____ Depth _____ Sampled From D.S.T. #3

Location _____ Field Wildcat Province Yukon Territory

Date Sampled _____ Date Analyzed July 26, 1957 Engineer J. M.

Constituents		*Constituents*	Meq/L	ppm	*Constituents*	Meq/L	ppm
1. Total Solids	61,232 ppm	6. Sodium	908	20,891	11. Chloride	1,021	36,210
2. pH	6.8	7. Calcium	103	2,060	12. Bicarbonate	25	1,531
3. Sp. gr	1.0468 @ 70 °F.	8. Magnesium	37	450	13. Sulfate	2	90
4. Resistivity	0.125 ohms/M²M @ 70 °F.	9. Iron	Absent	Absent	14. Carbonate	-	Absent
5. Hydrogen Sulfide	Absent	10. Barium	Absent	Absent	15. Hydroxide	-	Absent



HYPOTHETICAL COMBINATIONS

Constituent	ppm	*Constituent*	ppm
1. Calcium Chloride	5,706	4. Sodium Chloride	53,027
2. Magnesium Bicarbonate	1,833	5. Sodium Sulfate	132
3. Magnesium Chloride	564		

CORE LABORATORIES-CANADA LTD.
PETROLEUM RESERVOIR ENGINEERING
CALGARY, ALBERTA

WATER ANALYSIS

File CNP-4-WA 10

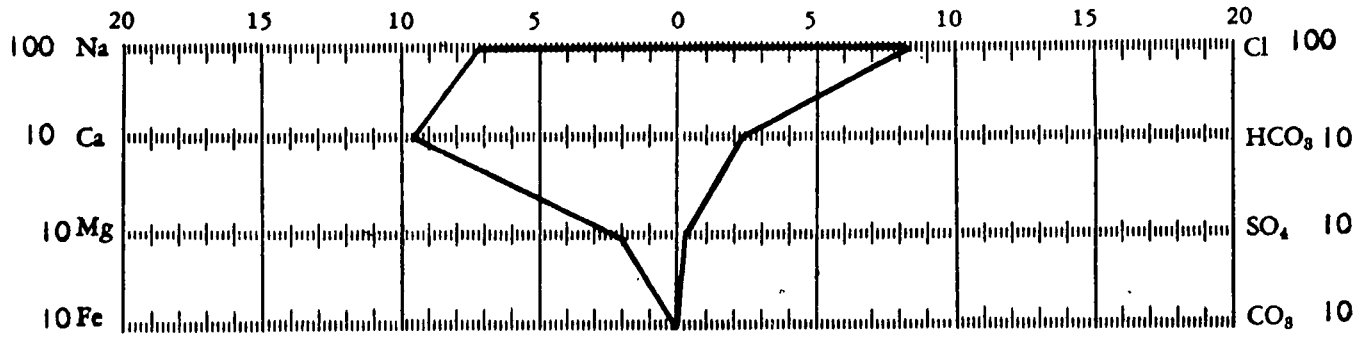
Company Peel Plateau Exploration Ltd. Well Name Eagle Plains #1 Sample No. 1

Formation _____ Depth _____ Sampled From D.S.T. #4

Location _____ Field Wildcat Province Yukon Territory

Date Sampled _____ Date Analyzed July 26, 1957 Engineer J. M.

Constituents		*Constituents*	Meq/L	ppm	*Constituents*	Meq/L	ppm
1. Total Solids	49,717 ppm	6. Sodium	733	16,867	11. Chloride	826	29,288
2. pH	6.85	7. Calcium	96	1,920	12. Bicarbonate	21	1,299
3. Sp. gr	1.0378 @ 69 °F.	8. Magnesium	20	243	13. Sulfate	2	91
4. Resistivity	0.150 @ 70 °F. ohms/M M	9. Iron	-	Absent	14. Carbonate	-	Absent
5. Hydrogen Sulfide	Absent	10. Barium	-	Absent	15. Hydroxide	-	Absent



Scale - Meq. per liter

HYPOTHETICAL COMBINATIONS

Constituent	ppm	*Constituent*	ppm
1. Calcium Chloride	5,318	4. Sodium Chloride	42,789
2. Magnesium Bicarbonate	1,555	5. Sodium Sulfate	134
3. Magnesium Chloride	-		

CORE LABORATORIES-CANADA LTD.

PETROLEUM RESERVOIR ENGINEERING

CALGARY, ALBERTA

WATER ANALYSIS

File CNP-4-WA 11

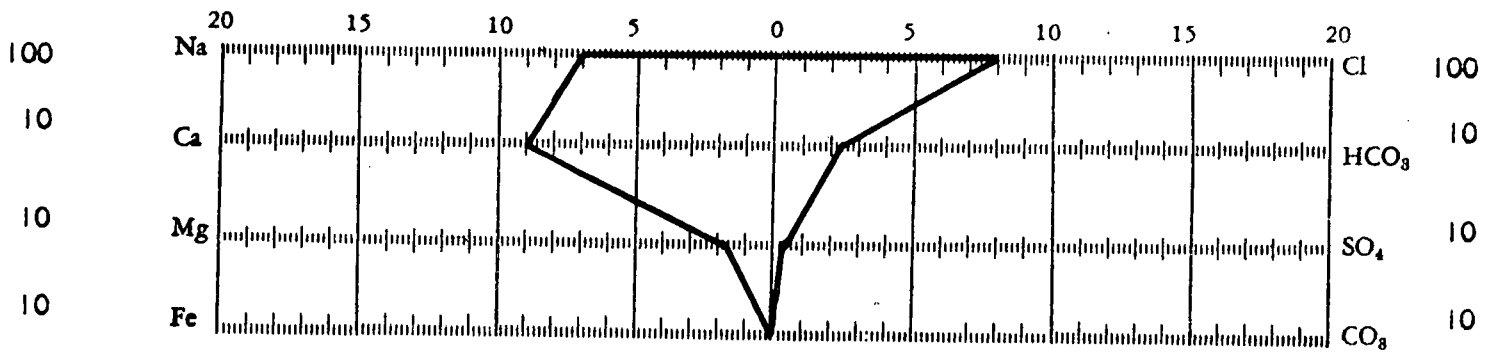
Company Peel Plateau Exploration Ltd. Well Name Eagle Plains No.1 Sample No. 1

Formation _____ Depth 4450'-4690' Sampled From D.S.T. #5

Location _____ Field Wildcat Province Yukon Territory

Date Sampled _____ Date Analyzed July 26, 1957 Engineer J.M.

Constituents		*Constituents*	Meq/L	ppm	*Constituents*	Meq/L	ppm
1. Total Solids	47,104 ppm	6. Sodium	699	16,084	11. Chloride	781	27,690
2. pH	6.85	7. Calcium	89	1,780	12. Bicarbonate	22	1,317
3. Sp. gr	1.063 @ 69 °F.	8. Magnesium	15	182	13. Sulfate	1	51
4. Resistivity	0.153 @ 70 °F. ohms/M²-M	9. Iron	-	Absent	14. Carbonate	-	Absent
5. Hydrogen Sulfide	Absent	10. Barium	-	Absent	15. Hydroxide	-	Absent



Scale - Meq. per liter

HYPOTHETICAL COMBINATIONS

Constituent	ppm	*Constituent*	ppm
1. Calcium Chloride	4,931	4. Sodium Chloride	40,846
2. Magnesium Bicarbonate	1,576	5. Sodium Sulfate	75
3. Magnesium Chloride	-		

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PETROLEUM RESERVOIR ENGINEERING
CALGARY, ALBERTA

WATER ANALYSIS

File CNP-4-WA 12

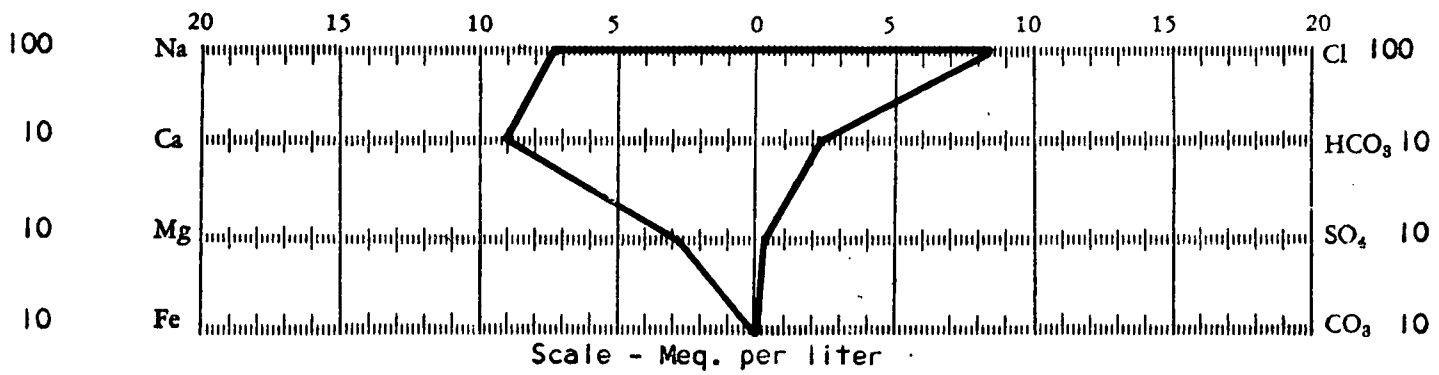
Company Peel Plateau Exploration Ltd. Well Name Eagle Plains #1 Sample No. 1

Formation _____ Depth 4810' - 4950' Sampled From D.S.T. #6

Location _____ Field Wildcat Province Yukon Territory

Date Sampled _____ Date Analyzed July 26, 1957 Engineer J. M.

Constituents		*Constituents*	Meq/L	ppm	*Constituents*	Meq/L	ppm
1. Total Solids	ppm	6. Sodium	749	17,220	11. Chloride	841	29,820
2. pH 7.10		7. Calcium	90	1,800	12. Bicarbonate	22	1,360
3. Sp. gr 1.0383 @ 70 °F.		8. Magnesium	26	316	13. Sulfate	1	62
4. Resistivity 0.145 ohms/M²M @ 70 °F.		9. Iron	-	Absent	14. Carbonate	-	Absent
5. Hydrogen Sulfide Absent		10. Barium	-	Absent	15. Hydroxide	-	Absent



HYPOTHETICAL COMBINATIONS

Constituent	ppm	*Constituent*	ppm
1. Calcium Chloride	4,986	4. Sodium Chloride	43,724
2. Magnesium Bicarbonate	1,628	5. Sodium Sulfate	92
3. Magnesium Chloride	175		

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CALGARY, ALBERTA

WATER ANALYSIS

File CNP-4 WA20

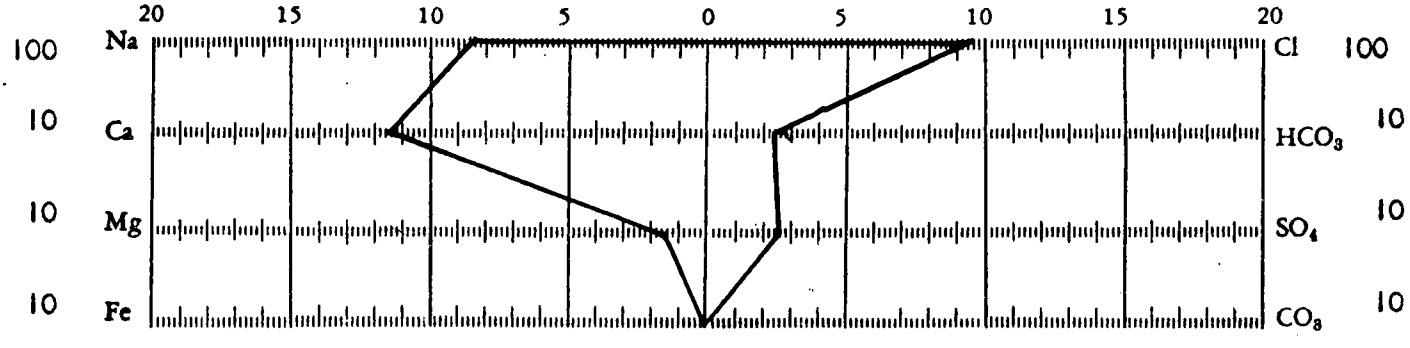
Company Peel Plateau Exploration Ltd. Well Name Eagle Plains No.1 Sample No.

Formation Depth Sampled From D.S.T. No.8

Location Field Province Yukon Territory

Date Sampled Date Analyzed Sept. 4, 1957 Engineer J.M.

Constituents		*Constituents*	Meq/L	ppm	*Constituents*	Meq/L	ppm
1. Total Solids	57,464 ppm	6. Sodium	847	19481	11. Chloride	929	32926
2. pH	6.45	7. Calcium	115	2300	12. Bicarbonate	23	1400
3. Sp. gr	1.0425 @ 66 °F.	8. Magnesium	15	178	13. Sulfate	25	1179
4. Resistivity	0.152 @ 66 °F.	9. Iron	Absent	-	14. Carbonate	Absent	-
5. Hydrogen Sulfide	Absent	10. Barium	Absent	-	15. Hydroxide	Absent	-



HYPOTHETICAL COMBINATIONS

Constituent	ppm	*Constituent*	ppm
1. Calcium Chloride	6371	4. Sodium Chloride	48087
2. Magnesium Bicarbonate	1677	5. Sodium Sulfate	1775
3. Magnesium Chloride	-		

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PETROLEUM RESERVOIR ENGINEERING

CALGARY, ALBERTA

WATER ANALYSIS

File CNP-4 WA 21

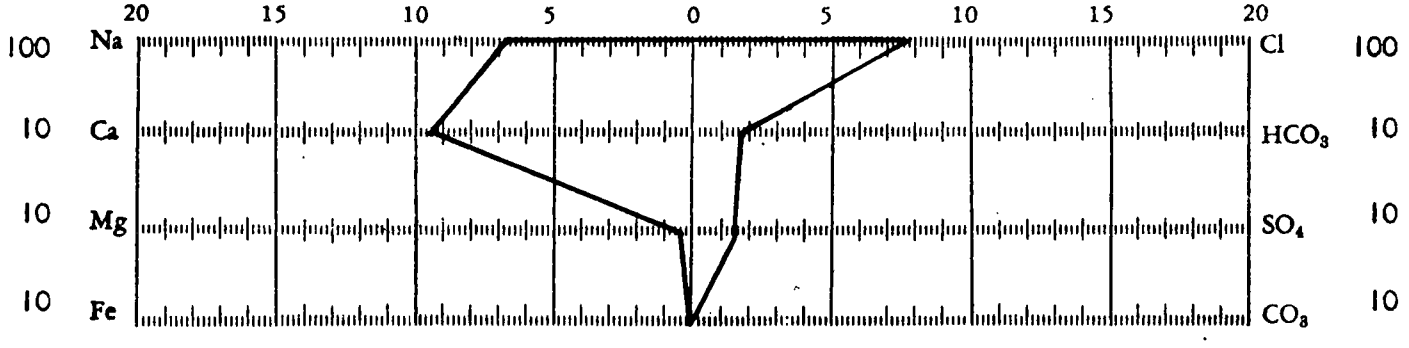
Company Peel Plateau Exploration Ltd. Well Name Eagle Plains No.1 Sample No.

Formation Depth Sampled From D.S.T. No.9

Location Field Province Yukon Territory

Date Sampled Date Analyzed Sept. 4, 1957 Engineer J.M.

Constituents		*Constituents*	Meq/L	ppm	*Constituents*	Meq/L	ppm
1. Total Solids	46,176 ppm	6. Sodium	685	15755	11. Chloride	753	26,714
2. pH	7.25	7. Calcium	94	1880	12. Bicarbonate	17	1055
3. Sp. gr	1.0353 @ 66 °F.	8. Magnesium	6	67	13. Sulfate	15	705
4. Resistivity	0.178 @ 66 °F.	9. Iron	Absent	-	14. Carbonate	Absent	-
5. Hydrogen Sulfide	Absent	10. Barium	Absent	-	15. Hydroxide	Absent	-



HYPOTHETICAL COMBINATIONS

Constituent	ppm	*Constituent*	ppm
1. Calcium Chloride	5208	4. Sodium Chloride	39,195
2. Magnesium Bicarbonate	1263	5. Sodium Sulfate	1065
3. Magnesium Chloride	-		

CORE LABORATORIES-CANADA LTD.
PETROLEUM RESERVOIR ENGINEERING
CALGARY, ALBERTA

WATER ANALYSIS

File CNP-4 WA-17

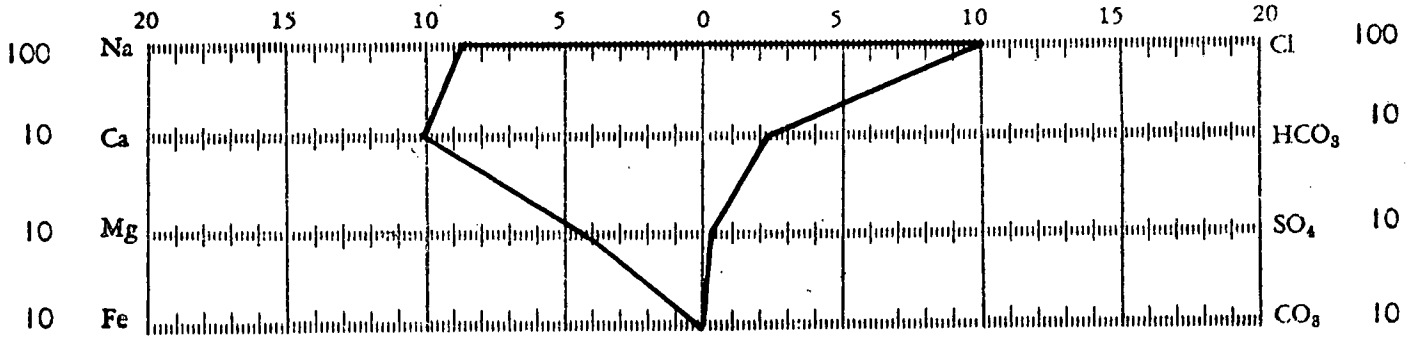
Company Peel Plateau Exploration Ltd. Well Name Eagle Plains No. 1 Sample No.

Formation Depth Sampled From D.S.T. No.10

Location Field Province YUKON TERRITORY.

Date Sampled Aug. 26, 1957 Date Analyzed Aug. 30, 1957 Engineer J.M.

Constituents		*Constituents*	Meq/L	ppm	*Constituents*	Meq/L	ppm
1. Total Solids	59,820 ppm	6. Sodium	869	19,987	11. Chloride	999	35441
2. pH	6.70	7. Calcium	114	2280	12. Bicarbonate	24	1488
3. Sp. gr	1.0441 @ 66 °F.	8. Magnesium	42	512	13. Sulfate	2	112
4. Resistivity	0.135 @ 66 °F.	9. Iron	Absent	-	14. Carbonate	Absent	-
5. Hydrogen Sulfide	Absent	10. Barium	Absent	-	15. Hydroxide	Absent	-



HYPOTHETICAL COMBINATIONS

Constituent	ppm	*Constituent*	ppm
1. Calcium Chloride	6315	4. Sodium Chloride	50720
2. Magnesium Bicarbonate	1781	5. Sodium Sulfate	142
3. Magnesium Chloride	855		

CORE LABORATORIES-CANADA LTD.

PETROLEUM RESERVOIR ENGINEERING

CALGARY, ALBERTA

WATER ANALYSIS

File CNP-4 WA-18

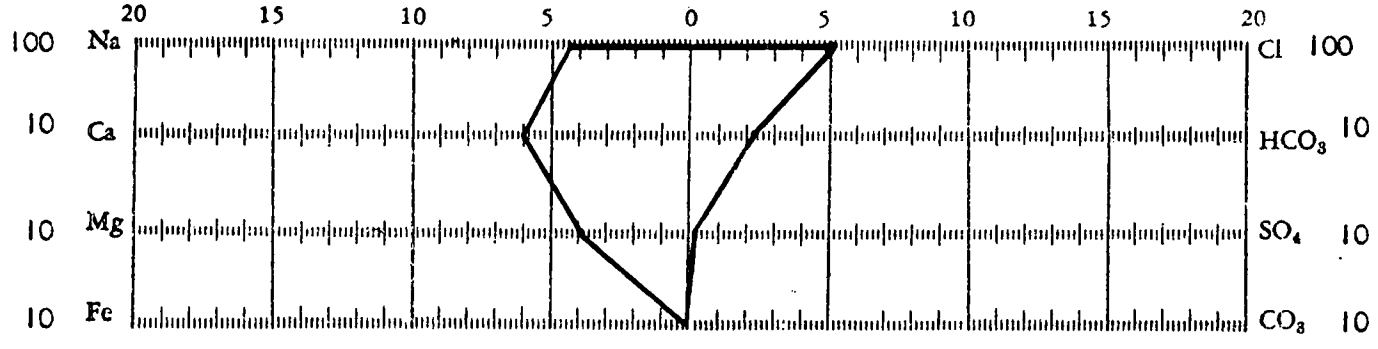
Company Peel Plateau Exploration Ltd. Well Name Eagle Plains No. 1 Sample No.

Formation Depth Sampled From D.S.T. No. 11

Location Field Provinc. Yukon Territory.

Date Sampled Aug. 26, 1957 Date Analyzed Aug. 30, 1957 Engineer J.M.

Constituents		*Constituents*	Meq/L	ppm	*Constituents*	Meq/L	ppm
1. Total Solids	31763 ppm	6. Sodium	446	10,258	11. Chloride	521	18,460
2. pH	7.33	7. Calcium	60	1200	12. Bicarbonate	22	1,330
3. Sp. gr	1.0245 @ 66 °F.	8. Magnesium	38	469	13. Sulfate	1	46
4. Resistivity	0.225 @ 66 °F.	9. Iron	Absent	-	14. Carbonate	Absent	-
5. Hydrogen Sulfide	Absent	10. Barium	Absent	-	15. Hydroxide	Absent	-



HYPOTHETICAL COMBINATIONS

Constituent	ppm	*Constituent*	ppm
1. Calcium Chloride	3324	4. Sodium Chloride	26,033
2. Magnesium Bicarbonate	1592	5. Sodium Sulfate	71
3. Magnesium Chloride	1235		

CORE LABORATORIES-CANADA LTD.
PETROLEUM RESERVOIR ENGINEERING
CALGARY, ALBERTA

WATER ANALYSIS

File CNP-4-WA-81

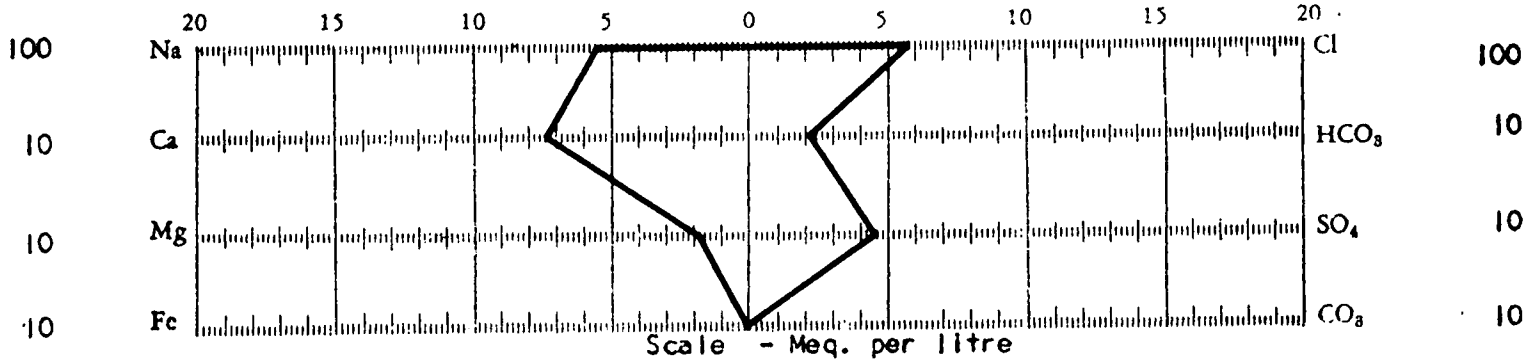
Company Western Minerals Ltd. Well Name Eagle Plains No. 1 Sample No. 1

Formation _____ Depth _____ Sampled From D.S.T. # 20

Location _____ Field Wildcat Province Yukon Territory

Date Sampled June/58 Date Analyzed June 16/58 Engineer B.K.

Constituents		*Constituents*	Meq/L	ppm	*Constituents*	Meq/L	ppm
1. Total Solids	37980 ppm	6. Sodium	546	12,558	11. Chloride	571	20,235
2. pH	6.9	7. Calcium	74	1,480	12. Bicarbonate	22	1,347
3. Sp. gr	1.0274 @ 73 °F.	8. Magnesium	18	219	13. Sulfate	45	2,141
4. Resistivity	0.22 @ 73 °F. ohms/M²M	9. Iron	-	-	14. Carbonate	-	-
5. Hydrogen Sulfide	Absent	10. Barium	-	-	15. Hydroxide	-	-



HYPOTHETICAL COMBINATIONS

Constituent	ppm	*Constituent*	ppm
1. Calcium Chloride	4,100	4. Sodium Chloride	29,309
2. Magnesium Bicarbonate	1,612	5. Sodium Sulfate	3,195
3. Magnesium Chloride	-		

CORE LABORATORIES-CANADA LTD.
PETROLEUM RESERVOIR ENGINEERING
CALGARY, ALBERTA

WATER ANALYSIS

File CNP-4-WA 26

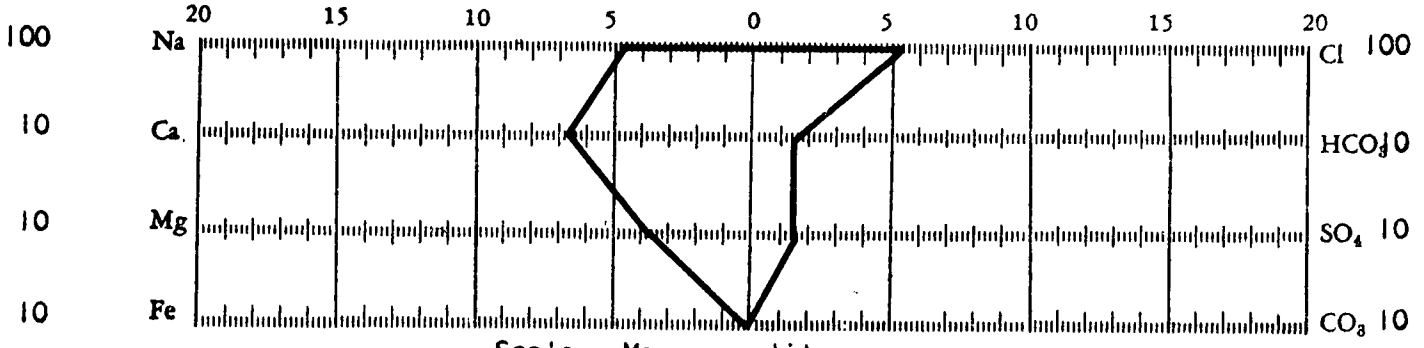
Company Peel Plateau Exploration Ltd. Well Name Eagle Plains No. 1 Sample No. 1

Formation ____ Depth ____ Sampled From D.S.T. #17

Location ____ Field Wildcat Province Yukon Territory

Date Sampled ____ Date Analyzed Oct. 17, 1957 Engineer B. K.

Constituents		*Constituents*	Meq/L	ppm	*Constituents*	Meq/L	ppm
1. Total Solids	32,901 ppm	6. Sodium	460.6	10,594	11. Chloride	530.6	18,815
2. pH	6.9	7. Calcium	65.9	1,320	12. Bicarbonate	16.0	976
3. Sp. gr	1.0249 @ 73 °F.	8. Magnesium	35.9	437	13. Sulfate	15.8	759
4. Resistivity	0.21 @ 73 °F. ohms/M M	9. Iron	-	-	14. Carbonate	-	-
5. Hydrogen Sulfide	Absent	10. Barium	-	-	15. Hydroxide	-	-



Scale - Meq. per litre

HYPOTHETICAL COMBINATIONS

Constituent	ppm	*Constituent*	ppm
1. Calcium Chloride	3,656	4. Sodium Chloride	26,021
2. Magnesium Bicarbonate	1,168	5. Sodium Sulfate	1,122
3. Magnesium Chloride	945		

PEEL PLATEAU EXPLORATION LTD.

EAGLE PLAINS NO. 1

LOCATION 138° 8' 30" - 66° 48' 5[illegible]

DAILY PROGRESS REPORT

1957

April 17	Drilled out rathole. Spudded in 4.30 p.m.
April 18	Drilling 9" hole. Conditioned mud. Washout around conductor pipe.
April 19	Cementing conductor. W.O.C.
April 20	Re-drilled rathole. W.O.C. Reassembled to drill.
April 21	W.O.C. Drilled out cement. Conductor washed out. Re-cemented conductor. W.O.C.
April 22	W.O.C.
April 23	W.O.C. D.O.C.
April 24	Drilling, ran cement. W.O.C.
April 25	Rigged up Laboratory. W.O.C. D.O.C. Depth 131 ft.
April 26	Drilling, changed bits. Depth 260 ft.
April 27	Reaming 12-1/4" to 100 ft. Lost circulation, re-cemented. Depth 306 ft.
April 28	W.O.C. Depth 306 ft.
April 29	Drilling in shale with interbedded siltstone.
April 30	Drilling 9", changed bits. Depth 12 noon, 431 ft.
May 1	Drilling 9", changed bits. Depth 12 noon, 520 ft.
May 2	Drilling 9", Ran E Log, Temperature Surveys, reaming to 12-1/4". Depth 12 noon 600 ft.
May 3	Reaming to 12-1/4". Changed bits.
May 4	Reaming 12-1/4" to 600 ft. Reaming to 17-1/2".
May 5	Reaming to 17-1/2".

1957

May 6	Reaming to 17-1/2".
May 7	Reaming to 17-1/2". Drilling 9". Depth at 12 Noon 600 ft.
May 8	Drilling 9". Depth at 12 noon 750 ft.
May 9	Drilling 9". Depth at 12 noon 880 ft.
May 10	Drilling 9". Trip to change bits. Depth at 12 noon 930 ft.
May 11	Drilling 9". Trip to ream with 12-1/4. Depth at 12 noon 1020 ft.
May 12	Reaming with 17-1/4". Trip to change bits.
May 13	Reaming. Lost 3 drill collars in hole; recovered same with fish. Resumed reaming.
May 14	Circulating; ran casing; cemented casing; W.O.C.
May 15	W.O.C. Cut off conductor pipe; welded on casing bowl; heading up.
May 16	W.O.C. Drilled out; drilled 9" hole.
May 17	Drilling 9", in shale. Depth at 12 noon 1150 ft.
May 18	Drilling 9". Trip, new bit, ran survey. Depth at 12 noon 1251 ft.
May 19	Drilling 9". Trip,new bit, ran survey. Depth at 12 noon 1372 ft.
May 20	Drilling 9". Trip,new bit, ran survey. Depth at 12 noon 1435 ft.
May 21	Drilling 9". Lost survey tool, sub and bit in hole; fishing.
May 22	W.O.C. Fishing.
May 23	Fishing; recovered tools; drilling. Depth at 12 noon 1557 ft.
May 24	Milling on iron; trips with junk sub. Depth at 12 noon 1612 ft.
May 25	Drilling. Twisted off one D.C. & Sub; recovered same. Depth at 12 noon 1705 ft.
May 26	Drilling 9". Depth at 12 noon 1797 ft.

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May 27	Drilling 9". Depth at 12 noon 1900 ft. Survey at 1860 ft. 2 3/4 at 1900, 3 degrees. Pumping water via pipeline from Oval Creek to rig and camp. Progress 103 ft.
May 28	Drilling 9". Survey 1940, 2-1/2 at 2025, 2-1/2 degrees. Trip for new bit. Depth at 12 noon 1992 ft. Progress 92 ft.
May 29	Drilling 9". Circulated before running in with junk sub; drilled one foot and made trip to run in with 6-1/8" diamond core bit; cutting Core No. 1. Progress 103 ft. Depth at 12 noon 2095 ft.
May 30	Cut Core No. 1, 2101 - 2122. Recovered 21 ft. shale with scattered silty shald and silt beds. Dip on core average 4 degrees. Depth 12 noon 2122 ft. Progress 27 ft. Ran in with 9" bit and reamed; resumed drilling. Survey at 2115, 2-3/4.
May 31	Drilling 9". Survey at 2190, 2-1/2 degrees; trip to change bits. Depth at 12 noon 2224 ft. Progress 102 ft.
June 1	Drilling 9". Survey at 2270 2 degrees; 2365 2-1/2 degrees. Depth at 12 noon 2341 ft. Progress 117 ft.
June 2	Drilling 9". Survey 2450, 2-1/2 degrees. Pulled out of hole to cut line. Depth at 12 noon 2435 ft. Progress 94 ft.
June 3	Drilling 9". Survey at 2542, 2 degrees. Trip to change bits. Depth at 12 noon 2542 ft. Progress 107 ft.
June 4	Drilling 9". Survey 2610, 2-1/4 degrees. Trip to change bits. Depth at 12 noon 2650 ft. Progress 108 ft.
June 5	Drilling 9". Survey at 2780, 3 degrees. Depth at 12 noon 2756 ft. Progress 105 ft.
June 6	Drilling 9". Two trips to change bits. Depth at 12 noon 2860 ft. Progress 104 ft.
June 7	Drilling 9". Survey at 2860 3-1/4, at 2956 3 degrees. Depth at 12 noon 2960 ft. Progress 100 ft.
June 8	Drilling 9". Trip to change bits. Depth at 12 noon 3060 ft. Progress 100 ft.
June 9	Drilling 9". Survey at 3125 3-1/4 degrees. Depth at 12 noon 3163 ft. Progress 103 ft. Trip for new bit. Cat working on landing strip.
June 10	Drilling 9". Survey 3205 3-3/4 degrees. Trip to change bits. Depth at 12 noon 3222 ft. Progress 97 ft.

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June 11 — Drilling 9". Survey 3290 3-1/2 degrees. Trip to change bits. Depth at 12 noon 3307 ft. Progress 85 ft.

June 12 — Drilling 9". Survey 3384 2-3/4 degrees. Completed trip. Depth at 12 noon 3400 ft. Progress 93 ft.

June 13 — Drilling 9". Survey 3464 2-1/2 degrees, 3530 3 degrees. Trip. Depth at 12 noon 3498 ft. Progress 98 ft.

June 14 — Drilling 9". Survey 3530 3 degrees. Trip to change bits. Trip with junk sub. Drilled 1 ft. Trip with diamond bits to cut Core No. 2, 3611 - 3658. Depth at 12 noon 3604 ft. Progress 106 ft.

June 15 — Pulled Core No. 2; recovered 20 ft. limestone. Ran in with 9" bit and junk sub. Reaming, drilled 1 ft. Trip to cut Core No. 3. Depth at 12 noon 3658 ft. Progress 54 ft.

June 16 — Cutting and recovered Core No. 3, 3659 - 3679, recovered 20 ft. Limestone. Drilling 9"; reaming; survey 3679 3 degrees. Trip for new bit. Depth at 12 noon 3679 ft. Progress 21 ft.

June 17 — Drilling 9". Survey 3679 3 degrees, 3752 2-1/4 degrees. Depth at 12 noon 3751 ft. Progress 93 ft.

June 18 — Drilling 9". Survey 3848 ft. 1-3/4 degrees. Trip for new bit. Depth at 12 noon 3848 ft Progress 97 ft.

June 19 — Drilling 9". Circulating for test.
Drill stem test No. 1 Misrun.
Drill Stem Test No. 2, recovered 200 ft. drilling mud.
Depth at 12 noon 3918 ft. Progress 70 ft.

June 20 — Cut Core No. 4; cut drill line 100 ft. Reaming to 9". Drilling 9". Depth at 12 noon 3950 ft. Progress 22 ft.

June 21 — Drilling 9". Survey at 3970 1-3/4 degrees. Circulating to run logs, ran E logs, Caliper and Temperature Surveys. Depth at 12 noon 4002 ft. Progress 62 ft.

June 22 — Ran Temp. survey, directional survey, spooling sand line. Reaming 9" to 12-1/4".

June 23 — Two trips with reamers, reaming 9" to 12-1/4".

June 24 — Reaming 9" to 12-1/4"; trip to change bits.

June 25 — Reaming 9" to 12-1/4"; re-reaming and trip to service drill collars.

June 26 — Re-reaming and trip to change bits; reaming.

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June 27 — Reaming; two trips to change bits; re-reaming.

June 28 — Reaming; trip to service drill collars; re-reaming.

June 29 — Reaming; fishing for 8 drill collars; recovered same. Trip with 9" bit to clean out hole; trip with reamer.

June 30 — Reaming; running casing; cemented casing to 2510 ft.

July 1 — W.O.C. and nippling up.

July 2 — Nippling up; gas leak between casings ignited; shut in at bull plug; pressure built up to 150#. Drilled out plug, pressure up on casing 950#. Drilled cement and shoe.

July 3 — Cleaning hole to bottom. Drilling 8-5/8". Gas surged from bleed-off line; pressure up to 150#, flared and decreased to 1 - 2 ft. flare. Gas leaked into mud. Depth at 12 noon 4010 ft. Progress 8 ft.

July 4 — Drilling 8-5/8". Survey at 4050 1-1/2 degrees. Trip to change bits; flaring gas, mud free of gas. Depth at 12 noon 4113 ft. Progress 103 ft.

July 5 — Drilling 8-5/8". Survey at 4180 1 degree. Trip to change bits; flaring gas, 1 ft. flare, mud free. Depth at 12 noon 4255 ft. Progress 142 ft.

July 6 — Drilling 8-5/8". Survey 4350 1-1/4 degrees. Trip to change bits; flare decreasing. Depth at 12 noon 4392 ft. Progress 137 ft.

July 7 — Drilling 8-5/8". Trip to change bits. Gas flaring weak, shut in to test pressure. Depth at 12 noon 4515 ft. Progress 123 ft.

July 8 — Drilling 8-5/8". Ran in for drill stem test No. 3. Lost mud. Depth at 12 noon 4675 ft. Progress 158 ft.

July 9 — Drill stem test No. 3 completed. Drilling 8-5/8". Survey at 4775 3/4 degrees. Ran in for drill stem test No. 4. Depth at 12 noon 4742 ft. Progress 67 ft.

July 10 — Completed drill stem test No. 4. Drilling 8-5/8". Lost circulation; mixed mud. Running in to core, measured pipe, no correction. Depth at 12 noon 4812 ft. Progress 70 ft.

July 11 — Cut Core No. 5. Reaming, drilling 8-5/8". Lost circulation. Regained circulation, drilling ahead. Depth at 12 noon 4845 ft. Progress 33 ft.

July 12 — Ran drill stem test No. 5. Drilling 8-5/8". Lost and regained circulation. Trip to cut core No. 6. Depth at 12 noon 4846 ft. Progress 1 ft.

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July 13 — Cut core No. 6. Ran in with junk sub to ream, ran in to circulation. Trip in with core barrel. Depth at 12 noon 4912 ft. Progress 66 ft.

July 14 — Cut core No. 7. Ran drill stem test No. 6. Reaming and drilling ahead. Depth at 12 noon 4950 ft. Progress 38 ft.

July 15 — Drilling 8-5/8". Pumped down plug No. 1. W.O.C. Depth at 12 noon 4994 ft. Progress 44 ft.

July 16 — W.O.C. and running in stands; condition mud; drilling at 8-5/8". Depth at 12 noon 4994 ft. Progress 0.

July 17 — Drilling 8-5/8". Trip to cut line. Depth at 12 noon 5095 ft. Progress 101 ft.

July 18 — Drilling 8-5/8". Survey at 5290 2 degrees. Pulled out. Depth at 12 noon 5243 ft. Progress 148 ft.

July 19 — Ran in hole; drilling 8-5/8". Depth at 12 noon 5330 ft. Progress 87 ft.

July 20 — Drilling 8-5/8". Pulled out, ran survey, strung 8 lines. Bailed cellar to work on B.O.P. Depth at 12 noon 5434 ft. Progress 104 ft.

July 21 — Work on B.O.P. and well head.

July 22 — Drilling 8-5/8". Depth at 12 noon 5512 ft. Progress 78 ft.

July 23 — Drilling 8-5/8". Survey 5580 1-1/2 degrees. Ran in with junk sub. Drilled 2 ft; circulated to cut core No. 8, 5590 - 5600. Recovered 10 ft. limestone; ran in with 8-5/8" and reamed. Depth at 12 noon 5590 ft. Progress 78 ft.

July 24 — Mixed mud; drilling 8-5/8". Depth at 12 noon 5645 ft. Progress 55 ft.

July 25 — Drilling 8-5/8". Ran directional survey 5760 4 degrees S.S.W. Ran drift survey 5760 4-1/4 degrees. Depth at 12 noon 5750 ft. Progress 105 ft.

July 26 — Drilling 8-5/8". Survey 5830 4-1/2 degrees; drilling; Survey 5860 4-1/2 degrees, S.S.W. Depth at 12 noon 5825 ft. Progress 75 ft.

July 27 — Completed survey, ran in to drill 8-5/8". Pulled out to change bits. Depth at 12 noon 5908 ft. Progress 83 ft.

July 28 — Ran survey 5940, 4-1/2 degrees S.S.W. Drilling 8-5/8". Depth at 12 noon 5976 ft. Progress 68 ft.

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July 29 — Pulled out and ran survey 6010 4-1/2 degrees; drilling 8-5/8". Made trip with junk sub and circulated, drilled 1 ft. Pulled out and measured pipe, no correction. Depth at 12 noon 6033, Progress 57 ft.

July 30 — Ran in with core barrel, cut core No. 9, 6047 - 6087. Recovered 40 ft. grey blue dolomite; ran in and reamed hole. Depth at 12 noon 6080 ft. Progress 47 ft.

July 31 — Reaming and drilling 8-5/8". Pulled out of hole. Ran survey 6120 5 degrees; ran in and drilled ahead. Depth at 12 noon 6109 ft. Progress 29 ft.

August 1 — Drilling 8-5/8", ran survey at 6190 4-3/4 degrees. Drilling. Pulled out and ran directional survey 6195 5 degrees. Depth at 12 noon 6158 ft. Progress 49 ft.

August 2 — Drilling 8-5/8". Lost circulation, regained same. Drilling. Depth at 12 noon 6198 ft. Progress 40 ft.

August 3 — Pulled out and ran survey 6220 5-1/3 degrees. Ran in hole. Drilling. Survey at 6255 ft 4-3/4 degrees. Depth at 12 noon 6244 ft. Progress 46 ft.

August 4 — Drilling 8-5/8". Pulled out, ran survey 6285 5 degrees. Ran in and drilling. Depth at 12 noon 6290 ft. Progress 46 ft.

August 5 — Drilling 8-5/8"; survey at 6326 5 degrees, at 6360 4-3/4 degrees. Trip to change bits; drilling. Depth at 12 noon 6353 ft. Progress 68 ft.

August 6 — Drilling 8-5/8"; survey at 6414 4-1/2 degrees, at 6500 4 degrees. Drilling and pulled out. Depth at 12 noon 6465 ft. Progress 112 ft.

August 7 — Survey at 6515 4-1/2 degrees, at 6580 3-1/2 degrees. Drilling 8-5/8". Depth at 12 noon 6577 ft. Progress 112 ft.

August 8 — Drilling 8-5/8"; pulled out to run E log; survey at 6650 3 degrees. Ran E log. Drilling 8-5/8". Depth at 12 noon 6650 ft. Progress 73 ft.

August 9 — Drilling 8-5/8". Survey at 6710 3 degrees. Drilling and pulled out of hole. Depth at 12 noon 6792 ft. Progress 142 ft.

August 10 — Survey at 6790 2-1/2 degrees; cut core No. 10, 6792 - 6824 ft, recovered 32 ft. Depth at 12 noon 6824 ft. Progress 32 ft.

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August 11	Drilling 8-5/8". Pulled out to change bits. Survey at 6878 2-1/2 degrees. Depth at 12 noon 6878 ft. Progress 54 ft.
August 12	Drilling 8-5/8". Lost circulation, mixed mud, resumed drilling. Trip to change bits. Ran survey at 6970 1-1/2 degrees. Drilling. Depth at 12 noon 6969 ft. Progress 91 ft.
August 13	Drilling 8-5/8". Ran survey, ran logs. Depth at 12 noon 7040 ft. Progress 71 ft.
August 14	Completed logging and ran in to circulate to test. Ran drill stem test No. 7 and 8; pulled out of hole.
August 15	Ran drill stem test No. 9. Ran in with junk sub; reamed and drilled 2 ft. Ran survey, misrun. Ran in with core barrel. Cutting core No. 11.
August 16	Completed cutting core No. 11 and pulled out. Ran in to cut core No. 12. Depth at 12 noon 7048 ft. Progress 8 ft.
August 17	Completed cutting core No. 12. Ran survey at 7065 1 degree. Reaming and drilled 1ft. Ran in to cut core No. 13. Depth at 12 noon 7055 ft. Progress 7 ft.
August 18	Recovered core No. 13. Ran in to ream and resumed drilling.
August 19	Pulled out to change bits. Survey at 7100 ft. 2/3 degree. Ran in. Drilling 8-5/8". Pulled out. Depth at 12 noon 7126 ft. Progress 29 ft.
August 20	Ran in and drilled 8-5/8". Depth at 12 noon 7187 ft. Progress 61 ft.
August 21	Drilling 8-5/8", Pulled out. Survey at 7265 1-2/3 degrees. Ran drill stem test No. 10. Pulled out, laid down tool. Depth at 12 noon 7264 ft. Progress 77 ft.
August 22	Ran in and drilled 8-5/8". Pulled out to run in to core. Depth at 12 noon 7337 ft. Progress 73 ft.
August 23	Cut core No. 14. Recovered core. Two survey misruns. Ran in to drill. Depth at 12 noon 7366 ft. Progress 29 ft.
August 24	Reamed out hole. Drilling 8-5/8". Survey at 7430 2 degrees. Trip to change bits. Depth at 12 noon 7412 ft. Progress 46 ft.
August 25	Drilling 8-5/8". Survey 7530 2-1/2 degrees. Pulled out to test. Depth at 12 noon 7487 ft. Progress 75 ft.

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August 26	Drilling 8-5/8". Ran drill stem test No. 11. Depth at 12 noon 7533 ft. Progress 46 ft.
August 27	Drilling 8-5/8". Trip to change bits. Lost circulation 7675 - 7678 ft. Mixed mud; continued to lose circulation. Depth at 12 noon 7675 ft. Progress 142 ft.
August 28	Mixing mud and pumping down. Trip to cut Core No. 15. Circulating and conditioning mud. Depth at 12 noon 7678 ft. Progress 3 ft.
August 29	W.O.O. Depth at 12 noon 7688 ft. Progress 10 ft.
August 30	W.O.O.
August 31	W.O.O.
September 1	W.O. Gel.
September 2	W.O. Gel and mixing mud.
September 3	Ran in, reamed 6-1/8" to 8-5/8". Circulated; trip to run drill stem test No. 12. W.O. Gel.
September 4	W.O. Gel.
September 5	W.O. Gel. Mixing mud, ran in with junk sub and drilled, 7688 - 7696 while conditioning mud. Lost circulation.
September 6	W.O. Gel; ran drill stem test No. 13, misrun, packer seat failed to hold.
September 7	Ran drill stem test No. 14. O.K. Stuck in hole 1 hour. W.O. Gel.
September 8	W.O. Gel; preparing to run plugs.
September 9	W.O. Gel. Ran plug No. 2. W.O.C. Pulled out. Ran plug No. 3.
September 10	W.O.C. Ran in, felt plug No. 3 at 4798. Drilled out Plug No. 3. Circulated out cement; circulated and mixed Gel; conditioned mud.
September 11	Circulated and conditioned mud. Pulled out and W.O. Gel. Ran in to cut core No. 16. Pulled out, ran in to ream.
September 12	Reamed 10 ft. Drilled 15 ft. W.O. Gel.
September 13	W.O. Gel.
September 14	W.O. Gel.

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September 15	W.O. Gel. Ran drill stem test No. 15, misrun, sawdust plugged tool.
September 16	Mixed mud and sawdust; pulled out to run drill stem test No. 16. Ran drill stem test No. 16, recovered 155 ft. drilling mud.
September 17	Drilling shot holes for velocity survey.
September 18	Conditioning mud and drilling shot holes. Rigging up to run logs.
September 19	Logging and drilling shot holes.
September 20	Logging and drilling shot holes.
September 21	Ran velocity survey. Resumed drilling 8-5/8". Depth at 12 noon 7725 ft. Progress 7 ft.
September 22	Drilling 8-5/8". Trip to change bits. Depth at 12 noon 7788 ft. Progress 63 ft.
September 23	Drilling 8-5/8". Trip and ran in to cut core No. 17. Depth at 12 noon 7878 ft. Progress 90 ft.
September 24	Completed cutting core No. 17. Recovered 32 ft. Ran in and reamed rat hole. Drilling 8-5/8". Depth at 12 noon 7906 ft. Progress 28 ft.
September 25	Drilling 8-5/8". Survey at 7970 2-1/4 degrees. Trip to change bits. Drilled 8-5/8". Depth at 12 noon 7970 ft. Progress 64 ft.
September 26	Drilling 8-5/8". Trip to change bits. Depth at 12 noon 8055 ft. Progress 85 ft.
September 27	Drilling 8-5/8". Trip to change bits. Depth at 12 noon 8146 ft. Progress 91 ft.
September 28	Drilling 8-5/8". Pulled out. Depth at 12 noon 8237 ft. Progress 91 ft.
September 29	Completed trip to change bits. Drilling 8-5/8". Depth at 12 noon 8337 ft. Progress 100 ft.
September 30	Drilling 8-5/8". Survey at 8409 4-1/2 degrees. Ran logs. Depth 8409 ft. Progress 72 ft.
October 1	W.O.O. Cut drill line. Survey at 8400 5 degrees W. Ran in hole, conditioned mud, circulating.

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October 2 — Pulled out to run drill stem test No. 17, 8338 - 8409. Packer stuck, backed off, pulled out. Ran in with jars. Pulled out and recovered fish. Break and lay down jars and fish. W.O.C.

October 3 — W.O.C. Ran in and set plug, 100 ft. bottom, 40 sacks cement. Pulled out.

October 4 — Pulled out to run plug at 5040, 3 sacks cement. Ran plug at 4425. Fishing, recovered fish. Ran 3 sacks cement on McCullough bailer. Ran in with bit, circulating and conditioned mud. Laid down D pipe.

October 5 — Ran drill stem test No. 18. Misrun. Made up packer. Ran drill stem test No. 19, 4085 - 4423

V.O. 12.50
I.S.I. 15
V.O. 60
F.S.I. 15
Recovered 190 ft. mud

Ran McCullough bridge plug at 2615. Ran cement plug, 60 sacks cement.

October 6 — Ran McCullough bridge plug at 200 ft. (8-5/8") Fished out setting tool; recovered same. Cement plug at top.

PROGRESS DRILLING REPORT FOR 1958

May 28 Mixing mud, picking up drill stem. Drilling out plug #1 8 5/8" bit.

May 29 Drilled out plugs #2, 3 and 4

May 30 Drilled out cement; commenced drilling 4.30p.m., 8 5/8" hole.
Pulled out to change bits.
Drilling in limestone.

May 31 Drilling in limestone 8 5/8" bit. Depth at 12 noon 8462'.

June 1 Drilling 8 5/8", trip to change bits, losing circulation and mixed mud.
Depth at 12 noon 8645' Progress _____.
Drilling in limestone

June 2 Drilling 8 5/8", trip to change bits
Depth at 12 noon 8795'. Progress 150'
Drilling in limestone.

June 3 Drilling 8 5/8", survey at 8945', 6¼ degrees. Trip to change bits.
Depth at 12 noon 8946' Progress 151'
Drilling in limestone.

June 4 Drilling 8 5/8", trip to run in with core barrel.
Depth at 12 noon 9045' Progress 99'
Drilling in limestone

June 5 Cut core No.18, 9079 to 9102, 23', recovered 12' limestone
Ran D.S.T. No.20, recovered 1764' salt water.
Depth at 12 noon 9102' Progress 57'

June 6 Pulled out packer, strung 10 lines, relined brakes, Ran in hole.
Reamed 23', drilled 10' limestone.

June 7 Drilling 8 5/8", pulled out.
Depth at 12 noon 9177'
Drilling in limestone. Progress 65'

June 8 Pulled out, survey at 9220', 12 degrees. Drilling circulated to pull out to core.
Depth at 12 noon 9260' Progress 83'

June 9 Pick up and service core barrel, cut core No.19-9327 to 9343.
Recovered 3', ran survey, misrun; ran D.S.T. No.21, 9102 - 9343.
Recovered 550' mud.

June 10 Pulled out packer; ran survey at 9120, 12 degrees, slip and cut 100' drilling line. Reaming and drilling. Survey 9320, 12½ degrees.
Depth at 12 noon 9327'. Progress 67'

June 11 Drilling; pulled out to change bits; drilling.
Depth at 12 noon 9445' Progress 118'

June 12 — Drilling; pulled out; ran survey at 9562', 7 3/4 degrees. Depth at 12 noon, 9562' Progress 117'

June 13 — Ran survey at 9588'. Ran in to cut Core No.20. Cut 1'; Core barrel stuck in hole. Working stuck pipe. Pull out. W/Overshot parts.

June 14 — Waiting on Overshot parts.

June 15 — Ran in hole with Overshot. Circulating. Pulled out; recovered 3 stands fish. Ran in with Overshot. Circulating; rig up to run Overshot string.

June 16 — Running dummy run to check pipe; circulate and work pile; running Magetector; running Backoff shot; Torque up pipe; ran backoff shot and backoff pipe at 6985'; pulled out; ran in and screwed into fish; circulated.

June 17 — Circulated and conditioned mud; pipe parted 18 strands; pulled out and ran in with Overshot; caught fish, circulated and worked pipe; ran dummy run; ran Magnetector; back off pipe; pulled out with Fish; broke off Overshot.

June 18 — Worked on Overshot; cut out grapple; picked up 21 joints 3½" pipe; ran in; laid down crooked 4½" pipe; circulated; top of fish at 6989'; caught fish; circulated and worked pipe; trying to torque pipe to run string shot; ran string shot; stopped at Overshot; ran heavy spear on sandline; ran string shot; backed off pipe at 8085'; picked up 12 stands 3½" pipe.

June 19 — Ran in open end to screw into fish; circulated and screwed into fish.; Circulated and worked pipe; ran heavy spear on end of sand line; attempted to go to bottom; worked Magnetector; ran in Magnetector; torqued pipe and ran backoff shot at 8450'.

June 20 — Pulled out; slip and cut drilling line; picked up washover and 3½" drill pipe; laid down bent pipe; ran in and hit bridge at 4680'; reamed and conditioned mud; top of fish at 8460'; pulled out; ran in with washover pipe; reamed with washover.

June 21 — Reamed with washover pipe; ran in and reamed from 6330 to 8073'; reamed with washover; pulled out; ran in with washover pipe; reamed 4680 to 4760; ran in with washover pipe.

June 22 — Reamed with washover pipe; ran in; reamed to top of fish and attempted to stab same; washed over fish and tried to re-stab fish; pulled out; top of fish at 8465'; pulled out; strung new drill line; ran in with washover pipe; reamed at 5925' ran in; washed over fish 8465-8477.

June 23 — Washing over fish; pulled out; worked on washover shoe; ran in; washed over fish; pulled out of hole.

June 24 — Worked on washover shoe; ran in;; tried to wash over; pulled out; hooked up cutters; ran in with washover pipe and cutters; tried to wash over fish; out off fish; at 8508'; pulled out and recovered 45.2 off fish; ran in with washover pipe and shoe.

June 25 — Washed over and pulled out; ran in with cutter; tried to cut off fish; cutter jammed, filed to cut; pulled out.

June 26 — Ran in with shoe; washing over fish; pulled out; ran in with cutter; cutting off fish; pulled out and laid down fish; top off fish 8651.

June 27 — Picked up overshot jars and 2 drill collars; ran in; catch fish; circulating; worked pipe; jarring; ran sinker bar; circulated; ran Magnetector; pulled out; broke down jars and overshot; ran in with washover pipe; top off fish 8651'.

June 28 — Ran in; washing over; circulated; pulled out; installed new line on line spooler; cut off fish; pulled out; top fish 8989.

June 29 — Pulled out; recovered fish; cut 80' drill line; ran in with shoe; washed over; pulled out.

July 1 — Circulating and worked pipe; ran sinkerbar to 8932; circ; worked pipe; ran McCullough Feeler; ran shot string; pulled out; ran in open end to pick up 4½" pipe.

June 30 — Tripping; cut off fish; pulled out; ran in with cutter and washover pipe; circ. and worked washover pipe.

July 2 — Picked up 4½" pipe; jarring on washover pipe.

July 3 — Jarring washover pipe.

July 4 — Jarring; spotting diesel oil.

July 5 — Jarring washover pipe; cut drill line.

July 6 — Jarring washover pipe.

July 7 — Jarring washover pipe.

July 8 — Jarring on washpipe; ran Magnetector; ran string shot; ran sinker bar on sandline 8950; ran string shot; circulated.

July 9 — Jarring and circulating; pulled out; ran in open end with drill collars; circ. and screwed back into jars; ran string shot; ran Magnetector; ran sinkerbar on sandline; ran magna. backing off pipe.

July 10 — Attempted to back off; circ. worked pipe; ran string shot; pulled out; waiting on orders.

July 11 — W.O.O.

July 12 — W.O.O.; rigging to run E logs; logging.

July 13 — Logging; work on logging tool; logging; ran in open end; circ.; ran plug No.1 displaced.

July 14 — Running bridging plugs.

July 15 — Running bridging plugs, pulled out and laid down pipe. Drilling suspended.

SUMMARY SAMPLE DESCRIPTIONS

EAGLE PLAINS NO. 1.

0 - 80		Interbedded Siltstone, Sandstone, minor Shale.
	Siltstone.	Grey, micaceous, quartzitic, hard, compact.
	Sandstone.	Grey, very fine grained, compact, quartzitic, poorly sorted, dark and clear quartz grains, angular and abundant well-rounded coarse quartz grains. Traces black chert grains. Pyritic, calcareous cement.
	Shale.	Light grey, micaceous and clay ironstone with abundant bright brown coated fracture planes and brown lenses shale and silty shale. Traces white quartzitic veinlets and light grey limy stringers.
80 - 130	Shale.	Grey, blocky, minor fissile, traces sandstone and siltstone only, micromicaceous in part.
130 - 320		Interbedded Shale and Siltstone and traces fine Sandstone lenses.
	Shale.	As above.
	Siltstone.	As above, with sandy lenses and fine sandstone beds. This section is composed of laminated and lensed silty sediments.
320 - 340	Sandstone.	With interbeds of Shale in lower 10 ft.
	Sandstone.	Grey with buff tint, very silty to sandy siltstone, very fine grained, micaceous, with abundant coarse to medium quartz grains, sub-angular; compact, well cemented, non calcareous, minor cherty and quartzitic grains fine to medium grained. Very poorly sorted and lensed. Trace Glauconite.
	Shale.	Grey, compact, micaceous.

340 - 960		Interbedded and laminated Shale and Siltstone. Minor Sandstone laminae and lenses.
	Shale.	Grey to dark grey, fissile in part; predominantly compact, blocky, micromicaceous, laminated.
	Siltstone.	Grey, argillaceous to sandy, with fine sandy lenses, laminated and lensed. Micaceous.
960 - 1350	Shale.	Predominant, grey, fissile, siliceous and silty in part, micromicaceous, laminated.
	Siltstone.	As scattered fine laminae throughout the shale.
1350 - 1740	Shale.	Interbedded with Siltstone and Sandstone, lenses and laminations of siltstone and sandstone. Shale is grey, silty in part, becoming darker grey in some interbeds. Micaceous. Siltstone is siliceous and shaly in part, darker grey. Sandstone is silty, very fine grained, siliceous. Present in upper and lower beds as thin laminae. 1700 - 1730, grey, poorly sorted, trace Glauconite. Coal at 1470 - 1480. Gas shows 1440 - 1450.
1740 - 2190	Shale.	With minor laminae of Siltstone scattered throughout. Shale is grey and dark grey to black, interbedded, fissile, micaceous, scattered silty shale lenses. Scattered brownish non-micaceous lenses of shale. Traces black carbonaceous filaments.
2190 - 2450	Shale.	With abundant fine interbeds and laminae of Siltstone and traces Sandstone. Shale is grey and dark grey as above, micaceous. Siltstone dark grey, siliceous, laminated.

2450 - 3230	Shale.	Predominant, scattered beds with Siltstone and Sandstone interbeds.
		Shale, grey and dark grey, micaceous, traces silty shale.
		Siltstone and traces silty sandstone interbedded in shale at 2750 - 2870 and 3160 - 3170.
		Sandstone is dark grey, hard, poorly sorted, argillaceous and siliceous, tight, limy cemented.
	Sandstone.	3030 - 3060. Marker bed, minor shale and siltstone interbeds.
		Sandstone is light grey, very fine grained, argillaceous, limy, fairly soft, foliated with abundant light brown mica in coarse flakes. Poorly sorted. Traces white calcite veinlets in shale, and quartz veinlets with crystals 3130 - 3160.
3230 - 3540	Shale.	And Silty Shale interbeds, traces Siltstone and Sandstone with clear quartz veinlets at 3340.
		Shale is grey and dark grey to black, non micaceous at 3390. At 3500 shale carries white quartz veinlets, pyrite and coaly carbonized plant remains.
3540 - 3575	Shale.	Dark grey, with abundant black carbonaceous to coaly shale. Pyrite abundant. Trace quartz and pyritic shale.
		Top Limestone 3575.
3570 -	Shale.	As above, minor.
3590	Limestone.	Light buff, mottled with grey-brown limestone. Abundant stringers and veinlets of white fine crystalline limestone. Buff limestone is finely crystalline to dense. Limestone becomes more rubbly and in part finely fragmented. No shows, no apparent porosity, no fossil fragments apparent. Numerous cuttings appear to be slickensided.
3590 - 3610	Limestone.	As above, slightly lighter in colour, more dense, hard, mottled, with white and grey limestone.

3610 - 3680		See Core Description.
3680 - 3815	Limestone.	As above, with sooty argillaceous material as fracture infill. Some units are dark grey-brown, argillaceous. White and grey calcite and limestone inclusions and veins abundant. Chalky limestone masses present. Mottling and blotching common. Limestone is fragmental, fractured; secondary crystalline limestone and calcite crystals scattered. No shows recorded on meter in this non-porous section. Limestone is dense, slow drilling.
3815 - 4600	Limestone.	Overall colour is darker grey-brown, quite argillaceous. Becoming somewhat more coarsely crystalline, highly fractured, mottled and fragmental. Light buff and white limestone as secondary vein infill and inclusions abundant. Traces vugs with quartz crystals. White Limestone Marker Bed 4235 - 4245. Traces fossils at 3940, 4400, 4560. No shows, no apparent porosity.
4600 - 5150	Limestone.	Dark grey-brown, argillaceous and light grey-buff, somewhat chalky limestone. White calcite veins and inclusions. Limestone has a coarse salt and pepper appearance in upper portion. Fracture infill, veins and inclusions accounts for the rock being brittle. Traces quartz crystals, stylolite partings and a general mottling throughout. Began to lose mud ± 4650. Fracture and vug porosity and intergranular porosity evident. Slow and fast drilling breaks numerous. Sawdust in mud made coring difficult. Gas shows on meter very low.
5150 - 5270	Limestone.	White calcite and mottled grey and white limestone, becoming light grey-buff and grey at 5170. Calcite abundant, limestone is silty to argillaceous, finely crystalline. Very minor dark grey-brown argillaceous limestone.
5270 - 5890	Limestone.	Dark grey-brown, argillaceous, fairly coarse in texture, mottled, abundant calcite veins in some units to traces only, and light grey-buff limestone. An overall mottled or blotched

		appearance. No shows, no apparent porosity, traces fossil fragments only.
5890 - 6035	Limestone.	Light grey-buff and light grey. Finely crystalline to massive, dense limestone. Becomes homogeneous grey limestone at 5980 to pale grey-blue limestone at 6030. Hard, very fine crystalline.
6035 - 6440	Dolomite.	Pale to darker grey-blue and grey to grey-brown dolomite. Fine crystalline to massive, dense in texture with sugary textured beds present. Calcite veinlets and stringers fairly abundant.
6440 - 6470	Limestone.	Pale grey-buff, dense, argillaceous and Dolomite, becoming less abundant.
6470 - 6778	Limestone.	Pale grey-buff, mottled with white to light grey limestone. Veins of calcite. Crystalline to chalky. Pyritic.
6778 - 7140	Limestone.	Dark grey brown, argillaceous and brecciated, finely mottled; vein calcite abundant and calcite inclusions, slickensides. Becoming more argillaceous and somewhat dolomitic and carrying black argillaceous limestone or limy shale.
7140 - 7950	Limestone and Limy Shale.	Hard drilling, with criss-cross fine calcite veinlets and fracture infill. Limestone is dark grey to black, argillaceous, mottled, brecciated, slickensided. Black limy shale inclusions and beds abundant. Fossils present, pyrite noted. Section is highly fractured, slickensided, brecciated etc. ± 7675. May be fault zone. Slickensides are at right angles to core, suggesting lateral movement. Limestone becomes lighter in colour and less argillaceous at ± 7800. Limy black shale decreasing near base.
7950 - 8409	Limestone.	Grey, with faint brownish cast, argillaceous content slight, and medium to dark grey dense limestone. Traces calcite veins. Limestone is dense, somewhat brecciated.

T.D. 8409.

8410 - 8435	Limestone.	Dark grey-brown and grey becoming lighter grey. Dense, argillaceous and fine crystalline. Abundant calcite veins
8435 - 8455	Limestone.	Grey and brownish-grey. Somewhat argillaceous. Fine crystalline. Calcite abundant. Grey to light grey predominant.
8455 - 8485	Limestone.	As above. Calcite less abundant.
8485 - 8575	Limestone.	Medium grey, slight brownish cast. Fine to medium crystalline, somewhat mottled, argillaceous. Break to fast drilling 8488-8498. Very fine calcite veins. Limestone is brittle. Drills fast. Reacts sluggishly to acid.
8575 - 8650	Limestone.	As above.
8650 - 8700	Limestone.	Grey, faintly mottled, argillaceous, slight brown cast. Trace of calcite. Hard drilling.
8700 - 8800	Limestone.	Medium crystalline. Slightly mottled. Dense grey-brown to dark grey argillaceous limestone becoming abundant. Trace of calcite.
8800 - 8850	Limestone.	Grey with brownish tinge. Medium crystalline becoming more abundant. Softer drilling. Still argillaceous. Traces of hard black limey shale.
8850 - 8900	Limestone.	Grey, medium crystalline. Only slightly argillaceous and mottled. Trace of black limey shale and calcite.
8900 - 9079	Limestone.	As above. More coarsely crystalline.
9079 - 9102		See Core #18 Description.
9102 - 9110	Limestone.	Light grey and medium crystalline predominant. Medium grey crystalline limestone with traces black limey shale and dark brown argillaceous limestone. Limestone is mottled.
9110 - 9130	Limestone.	Light grey. Finely crystalline to medium. Brittle softer drilling. Traces darker grey limestone. No apparent porosity. No shows.
9130 - 9140	Limestone.	As above with 10% dark brown to black argillaceous limestone.

9140 - 9170	Limestone.	Dark brown to black. Dense, very argillaceous calcite veinlets and minor inclusions of calcite and light grey limestone.
9170 - 9180	Limestone.	Grey, faint buff tinge. Medium crystalline. 10% dark grey argillaceous limestone.
9180 - 9190	Limestone.	70% grey limestone and 30% dark grey limestone.
9190 - 9230	Limestone.	Dark grey with faint brownish cast and minor black limestone. Argillaceous. Traces grey limestone. Mottling and brecciation evident. Traces of fracturing and calcite veins. Brittle, hard and dense.
9230 - 9327	Limestone.	Dark grey and grey crystalline. Mottled. Traces of black dense limestone. Calcite abundant to traces only. Limestone is argillaceous.
9327 - 9343		See Core #19 Description
9343 - 9440	Limestone	As above Core #19. Hard drilling. Dark grey argillaceous predominant to 100% 9400-9440.
9440 - 9589	Limestone.	Dark grey. Argillaceous. Dense to fine crystalline Mottled and brecciated. Traces to 10% light grey to white crystalline limestone. Calcite veins fairly abundant. Traces of black argillaceous limestone.

T.D.9589

CORE DESCRIPTIONS

CORE NO. 1. 2101 - 2122

Recovered 21 ft. Average dip 4°.

21 ft. Shale. Dark and medium grey with minor black interbeds, micromicaceous. Scattered thin silty shale beds. Trace carbonaceous black filaments. Trace pyrite. Compact, blocky.

CORE NO. 2. 3611 - 3658

Recovered 20 ft.

20 ft. Limestone. Grey-brown with veinlets and inclusions of white calcite. Inclusions of sooty black limestone and same on stylolite partings. Limestone is massive to finely crystalline. Rubbly to fragmental, brecciated. Highly fractured and brittle, with calcite fracture fillings.
Fossiliferous: Corals, Brachiopods, Pelecypods. Scattered fracture and vuggy porosity and scattered traces pinpoint porosity. Scattered traces gas shows. Sulphurous odour. Trace oil fluorescence only. Meter did not register gas shows.

CORE NO. 3. 3659 - 3679

Recovered 20 ft.

20 ft. Limestone. Essentially as Core No. 2. No shows. No apparent porosity except in minor scattered fractures. Calcite abundant.

CORE NO. 4. 3920 - 3940

Recovered 20 ft.

20 ft. Limestone. Dark grey with brownish cast and lighter grey limestone; fine crystalline. Brecciated, mottled, blotched. White calcite veins and inclusions. Fossils present. Black sooty to shiny limy shale on partings. Essentially the same as Core No. 3.

CORE NO. 5. 4827 - 4847

Recovered 2 ft.

2 ft. Limestone. Dark grey-brown and lesser amounts to grey-buff limestone. Mottled, blotched. Massive, with

calcite inclusions and veinlets. Drilled section shows evidence of inter-crystal, vein and vuggy porosity due to an abundance of crystals in samples. Traces fossils in drilled section. Fractures present with calcite crystals.

CORE NO. 6. 4891 - 4912

Recovered 3 ft.

3 ft. Limestone. Grey, mottled, blotched with dark grey and white limestone, or dolomitic limestone. Brecciated. Abundant white calcite in veins and inclusions forms about 50% of core. Crystal aggregate abundant in veins. Vuggy and fracture porosity. Limestone is brittle and shatters readily.

Heavy sawdust content of mud and the brittle and fractured nature of the limestone makes it impossible to recover more of the core.

CORE NO. 7. 4913 - 4950

Recovered 2 ft.

2 ft. Limestone. Dark grey and light grey, mottled, dolomitic in part. Finely reticulated and also with inclusions of light grey to white limestone. Highly fractured, brittle and brecciated.

Fracture and pinpoint porosity. Gas shows abundant and small reading on meter 4915 - 4918.

CORE NO. 8. 5590 - 5600

Recovered 10 ft.

10 ft. Limestone. 75% light grey-buff, very fine crystalline, massive, with criss-cross calcite veins and veinlets, minor calcite inclusions, traces fine fractures and stylolite partings. Minor dark grey-brown argillaceous limestone in narrow zones in upper 8 ft.

25% dark grey-brown limestone, argillaceous and interbedded with light grey-buff limestone in lower 2 - 3 ft. of the section. Dip of 15 - 20 degrees. 6" calcite at base. Trace gas shows in one fine fracture. Overall grey and dark-grey cast to the core.

CORE NO. 9. 6047 - 6087

Recovered 40 ft.

36 ft. Dolomite and Dolomitic Limestone — Pale grey-blue and grey. Dense, very fine crystalline. No shows, no apparent porosity, no bedding, 4" pyritic light green shale break at 6051, apparently horizontal. A number of stylolitic partings and numerous nearly vertical hair-thin to ± 1/4" white calcite veins.

4 ft. Limestone. Breccia, grey and light grey, irregular small masses of light grey to white calcite in grey dense limestone.

CORE NO. 10. 6792 - 6824 Dev/S.1 (Stahl)

Recovered 32 ft.

10 ft. Limestone. Dark brownish grey, argillaceous, veins and inclusions white calcite abundant.

10 ft. Limestone. White calcite predominant, coarse crystalline, with abundant partings and inclusions or segregations of dark grey-brown limestone. The mid 4 ft. is 50/50 white calcite and dark limestone.

12 ft. Limestone. Dark grey-brown, argillaceous, with criss-cross veins and small and large inclusions or segregations of white calcite. Numerous fracture partings and stylolites with black, hard, limy shale. No bedding, no shows, no apparent porosity. Scattered indications of breccia and slickensiding.

CORE NO. 11. 7040 - 7048

Recovered 8 ft.

8 ft. Limestone. Dolomitic or a true dolomite, dark grey to black, slight brownish cast, dense, argillaceous, numerous calcite veins irregular in shape and size as fracture infills and calcite inclusions. The dolomite is highly slickensided throughout the section, and somewhat brecciated. Abundant black shaly slickensided sediment in fractures. The dolomite is hard and slow coring.

CORE NO. 12. 7048 - 7069

Recovered 21 ft.

21 ft. Limestone. Dolomitic, black and medium grey, blotched to mottled in upper 10 ft. Brownish cast, argillaceous. Scattered calcite veins up to 1/2" as fracture infill. Slickensides fairly abundant. Lower 10 ft. black limy dolomite, argillaceous, or a dolomitic shale. Numerous fossils in upper 10 ft., traces only in lower section. Dolomite is very hard, brittle, dense.

CORE NO. 13. 7069 - 7097

Recovered 28 ft.

28 ft. Limestone. Dolomitic, argillaceous, very fine crystalline, very hard, dark grey to black, mottled and brecciated with medium grey argillaceous limestone. Numerous calcite veins in fractures. Fractures present with slickensided black shale. No fossils present. Core jammed in the barrel due to breakage on fractures and parts of the core are shattered.

CORE NO. 14. 7337 - 7377 M Silurian (Stelck

Recovered 40 ft.

20 ft. Shale. Black, limy, very hard. Fossiliferous - Brachiopods abundant in more limy bands. Banded black and dark grey more limy shale. Pyrite fairly abundant, also slickensides. Fine veins and large inclusions at 8 ft. in section. Horizontal bedding and nearly vertical fracture infills of calcite. No shows, non porous.

Box #4 [illegible]

20 ft. Limestone. Grey and dark grey, highly brecciated; minor slickensides and secondary calcite veins and inclusions as fracture infilling. Fossiliferous: Coral, Stromatoparoid, few Brachiopod fragments. Poorly bedded. No shows, traces only of porosity.

CORE NO. 15. 7678 - 7688

Recovered 7 ft.

7 ft. Shale and Limestone. Minor calcite. Grey, white and black. Rubbly, brecciated, fractured; a highly disturbed zone. Slickensides abundant throughout the rock. The core splintered in some sections. Fractures up to 75 degrees cutting the core. Few minor vugs. Hairline fractures and trace porosity along slickenside planes. Trace gas bleeding noted. Slickensides indicate lateral movement.

CORE NO. 16. 7696 - 7706

Recovered 8 ft.

8 ft. Shale. Black limy and limestone, shaly, interbedded. Brecciated in part; black limy shale highly slickensided on bedding planes. Bedding dips 8 degrees. Calcite veinlets and fracture infills. Traces fossils. Trace gas shows on minute fractures and on contacts, also from pinpoint porosity.

CORE NO. 17. 7874 - 7906

Recovered 32 ft.

28 ft. Limestone. Grey with faint brownish cast, dense, hard, faintly mottled, with calcite veins. Traces fossils, minor amounts shale. Few scattered vugs along fractures. Trace stylolites. Slightly argillaceous. No shows.

4 ft. Shale. Black, limy and limestone, poorly interbedded. Inclusions of black chert. Trace slickensides.

CORE NO.18, 9079 - 9102

Recovered 12 ft.

5 ft. Limestone. Grey and dark grey, brecciated with angular inclusions of black limey shale. Limestone is coarsely crystalline with traces of stylolites and calcite veins. Trace of fine fractures and traces of fossil fragments. No shows.

7 ft. Limestone. Grey and light grey, mottled and coarsely crystalline. A few stylolites and calcite veins. Traces of fine fractures. No shows

CORE NO.19, 9327 - 9343

Recovered 3 ft.

3 ft. Limestone. Grey and dark grey. Argillaceous. Somewhat mottled, brittle, easily fractured. Criss-cross veinlets of calcite common. Dense to finely crystalline.

PEEL PLATEAU EXPLORATION LTD.

Sheet No. 1

HOLE DEVIATION SURVEYS

Company Peel Plateau Exploration Ltd.

Well Eagle Plains No.1 Field Stratigraphic Test Hole

Depth	Deviation Degrees	Deviation Direction	TYPE OF INSTRUMENT
80	1/2		Eastman Survey
80	1		
205	7/8		
260	1-1/4		
380	1-1/2		
400	1-3/4		
420	1-3/4		
460	1-1/8		
470	2/3		
519	1-3/4		
550	1-1/2		
600	1-1/4		
920	2-1/4		
970	2-1/4		
1020	2-1/4		
1120	3-1/4		
1218	3-1/2		
1335	3		
1404	3-1/4		
1435	2-3/4		
1500	2-3/4		
1710	3		
1860	2-3/4		
1900	3		
1940	2-1/2		

PEEL PLATEAU EXPLORATION LTD.

Sheet No. 2

HOLE DEVIATION SURVEYS

Company Peel Plateau Exploration Ltd

Well Eagle Plains No.1 Field Stratigraphic Test Hole

Depth	Deviation Degrees	Deviation Direction	TYPE OF INSTRUMENT
2025	2-1/2		
2115	2-3/4		
2190	2-1/2		
2270	2		
2365	2-1/2		
2450	2-1/2		
2520	2		
2610	2-1/4		
2780	3		
2860	3-1/4		
2956	3		
3125	3-1/4		
3205	3-3/4		
3290	3-1/2		
3384	2/3/4		
3464	2-1/2		
3540	3		
3679	3		
3752	2-1/4		
3848	1-3/4		
3970	1-3/4		
4050	1		
4350	1-1/4		
4480	1/2		

HOLE DEVIATION SURVEYS

Company Peel Plateau Exploration Ltd.

Well Eagle Plains No.1 Field Stratigraphic Test Hole

Depth	Deviation Degrees	Deviation Direction	TYPE OF INSTRUMENT
4775	3/4		
5290	2		
5580	1-1/2		
5760	4	S.S.W.	Directional. Eastman
5760	4-1/2		Drift
5830	4-1/2		Drift
5860	4-1/2	S.S.W.	Direct. Eastman
5940	4-1/2	S.S.W.	Direct. Eastman
5976	4-1/2	S.S.W.	Direct.
6010	4-1/2	S.S.W.	Direct
6120	5	S.S.W.	Direct.
6190	4-3/4		Drift
6195	5	S.S.W.	Direct
6220	5	S.	Direct.
6255	4-3/4		Drift
6285	5	S.	Direct
6326	5		
6353	4-3/4		
6414	4-1/2		
6500	4		
6515	4-1/2	S.	
6580	3-1/2		
6650	3		
6710	3		

PEEL PLATEAU EXPLORATION LTD.

HOLE DEVIATION SURVEYS

Company Peel Plateau Exploration Ltd.

Well Eagle Plains No.1 Field Stratigraphic Test Hole

Depth	Deviation Degrees	Deviation Direction	TYPE OF INSTRUMENT
6790	2-1/2	S 10 E	
6878	2-1/4		
6925	2	S	
6970	1-1/2	S.S.E	
7065	1	S	
7100	2/3	S 30 W	
7265	1-2/3	S 35 W	
7375	2-3/4	S.W.	
7530	2-1/2		
7670	3	S.W.	
7970	2-1/4		
8409	4-1/4		
8400	5	W	
8700	4	S.85 W.	
8950	7 3/4°	S.35 W.	
9050	6 3/4°	S.40 W.	
9220	12	S.33W	
9325	11.4	S.40 W.	

1958

PEEL PLATEAU EXPLORATION LTD.

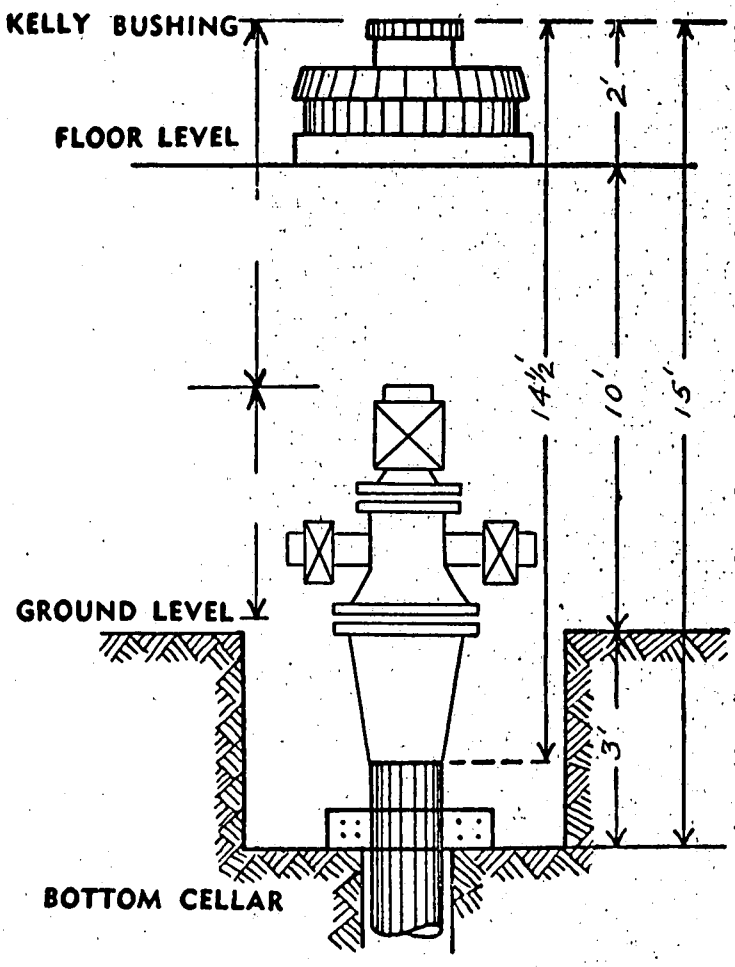
71

CASING REPORT

Sheet No. 1

Company Peel Plateau Exploration Ltd. Date May 14/57

Well Eagle Plains No.1 Field Stratigraphic Test Hole



Size Casing 13-3/8"

Weight 54.5

Grade J55

Make Spang

Type T & C

Range 2

Thread 8

Casing Shoe Halliburton

Collar Hall. Float between 1&2 joints

Centralizers on 1st, 3rd & 5th joints

welded

Scratchers

No. Joints Welded 3

Welding Company Contractors

No. Joints delivered 34 — No. joints left in hole 34

Thd's off tally delivered 1002.87 — Thd's off taliy left in hole 988.37

Thd's on tally delivered ---- — Thd's off tally left in hole ----

Kelly Bushing elevation 1469.4 — Depth Shoe below Kelly Bushing 1006.72

Time started running casing 1a.m. May 14 1957 — Time casing in hole 6.45a.m.May 14 1957

Time started circulating ---- — Time started cementing 8.42

No. sacks mixed 860 Make E.C. Cement Type 300 sacks Hiurly 560 sacks construction

Calcium Chloride added 2% (14 sacks) — Aquagel added Nil

Avg. slurry weight ---- — Time cement in pipe 9.40a.m. May 14 1957

Type of plug used Rubber — Plug pumped down by Rig. Pumps

Time plug down 9.55a.m. May 14 1957 — Bumped plug with 1000 psi.

Cement returns Good — Pressure left on head 1000 psi.

Cementing Co. Halliburton — Cementer Halliburton

Make well head National — Size 12"

Description 600 series for $13^{13}/_{0}$" - $9^{5}/_{0}$" - $5^{1}/_{2}$" Csg. - $2^{7}/_{0}$ E.U.E. tubing

Engineer W. G. Campbell

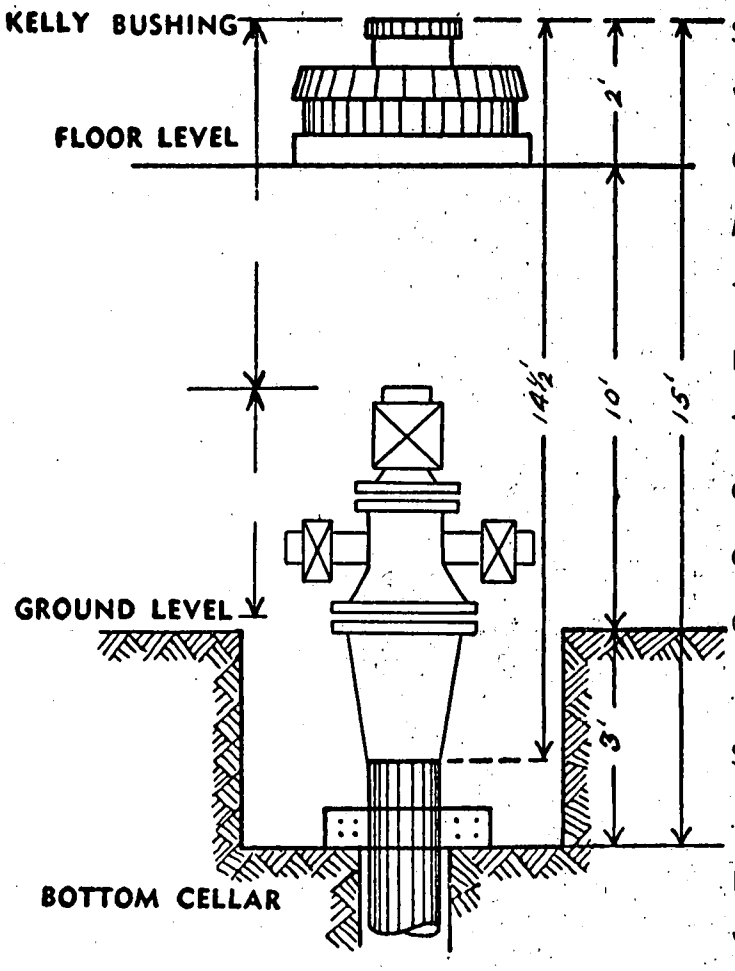
PEEL PLATEAU EXPLORATION LTD. 71A

CASING REPORT

Sheet No. 2

Company Peel Plateau Exploration Ltd. Date June 30 1957

Well Eagle Plains No.1 Field Stratigraphic Test Hole



Size Casing 9 5/8

Weight 36#

Grade J55

Make Spang

Type T & C

Range 2

Thread 8

Casing Shoe Halliburton

Collar Between 1st & 2nd joints

Centralizers On 1st, 3rd & 5th joints welded

Scratchers On top and bottom of each centraliser

No. Joints Welded 3

Welding Company Contractor

No. Joints delivered	78	No. joints left in hole	78
Thd's off tally delivered	2511.50	Thd's off taliy left in hole	2493.76
Thd's on tally delivered	-----	Thd's off tally left in hole	----
Kelly Bushing elevation	1469.4	Depth Shoe below Kelly Bushing	2510.0

Time started running casing	10a.m.	Time casing in hole	5.15p.m.
Time started circulating	5.15p.m.	Time started cementing	6.30p.m.
No. sacks mixed	600	Make	B.C. Cement
Type	Construction		
Calcium Chloride added	2%	Aquagel added	2% on first 400 sax
Avg. slurry weight	-----	Time cement in pipe	30 Minutes
Type of plug used	Rubber	Plug pumped down by	Rig. Pumps
Time plug down	7.50p.m.	Bumped plug with	1000 psi.
Cement returns	None	Pressure left on head	---- psi.
Cementing Co.	Halliburton	Cementer	Halliburton
Make well head	National	Size	12"

Description 600 Series for 13 3/8" - 9 5/8" - 5½" csg. and 2 7/8" E.U.E. tubing head

Engineer C. B. Barlow

PEEL PLATEAU EXPLORATION LTD.

PIPE TALLY

Sheet No. 1

Company Peel Plateau Exploration Ltd. Date May 1st, 1957

Well Eagle Plains No.1 Field Stratigraphic Test Hole

Size 13-3/8" Wt. 54.5 Grade Make Spang

Type T & C Thread No. Joints on Location 31

Remarks

No.	LENGTH feet		TOTALS feet		No.	LENGTH feet		TOTALS feet		No.	LENGTH feet		TOTALS feet	
1	28	50			31	30	36			61				
2	29	36			32	29	65			62				
3	28	66			33	31	30			63				
4	30	75			34	28	30			64				
5	28	83			35			119	61	65				
6	29	49			36					66				
7	29	32			37	Total		1002	87	67				
8	29	99			38			Shoe 2	25	68				
9	27	48			39			F.C.1	60	69				
10	28	95			40			1006	72	70				
			289	32										
11					41					71				
12	28	70			42					72				
13	29	15			43					73				
14	29	12			44					74				
15	30	87			45					75				
16	29	10			46					76				
17	28	60			47					77				
18	29	18			48					78				
19	28	73			49					79				
20	29	75			50					80				
	32	90												
			296	10										
21					51					81				
22	33	45			52					82				
23	28	53			53					83				
24	28	24			54					84				
25	29	23			55					85				
26	29	22			56					86				
27	27	50			57					87				
28	29	74			58					88				
29	27	83			59					89				
30	33	19			60					90				
	30	91												
			297	84										

TALLIED BY Charlie Wark

CHECKED BY W. G. Campbell

PEEL PLATEAU EXPLORATION LTD.

PIPE TALLY

Sheet No. 2

Company Peel Plateau Exploration Ltd. Date June 29 1957

Well Eagle Plains No.1 Field Stratigraphic Test Hole

Size 9-5/8" Wt. 36 Grade J-55 Make Spang

Type T & C Thread 8 Rd Rnd No. Joints on Location

Remarks

No.	LENGTH feet		TOTALS feet		No.	LENGTH feet		TOTALS feet		No.	LENGTH feet		TOTALS feet	
1	32	98			31	33	53			61	31	68		
2	32	76			32	30	46			62	32	56		
3	31	24			33	32	85			63	33	15		
4	31	05			34	32	43			64	33	00		
5	32	65			35	32	91			65	32	40		
6	32	34			36	32	61			66	32	67		
7	32	94			37	31	53			67	32	50		
8	32	27			38	32	21			68	33	03		
9	30	68			39	32	60			69	31	12		
10	32	85			40	32	74			70	30	29		
			321	76				1288	27				2250	53
11	32	38			41	32	83			71	33	10		
12	31	88			42	32	25			72	32	34		
13	32	15			43	31	85			73	32	20		
14	28	02			44	33	26			74	32	44		
15	33	12			45	32	11			75	33	03	2413	64
16	31	00			46	33	25			76	32	64		
17	33	24			47	29	84			77	32	20		
18	33	53			48	33	07			78	33	02		
19	33	05			49	30	30			79			2511	50
20	31	78			50	29	85			80				
			641	91				1606	88					
21	33	28			51	31	90			81		F.S.	2	08
22	32	02			52	32	00			82		F.C.	1	66
23	31	80			53	32	32			83	Total		2515	24
24	32	23			54	33	10			84				
25	30	12			55	32	96			85				
26	32	88			56	31	26			86				
27	33	51			57	31	03			87				
28	22	11			58	31	90			88				
29	31	70			59	32	54			89				
30	32	98			60	32	16			90				
			964	46				1928	18					

TALLIED BY T. Tippin CHECKED BY C. B. Barlow

PEEL PLATEAU EXPLORATION LTD.

Sheet No. 1

BIT RECORD

Company Peel Plateau Exploration Ltd. Date

Well Eagle Plains No.1 Field Stratigraphic Test Hole

Bit No.	DEPTH From	DEPTH To	Size	MAKE AND TYPE	Footage	Hours Run	REMARKS
1	0	60	12-1/4	Reed 2 C W W	60	D	
2	60	100	9	O S C	40	D	
3	100	175	9	O W W	85	D	
4	175	306	9	O W V	31		V.D.
5	60	100	12-1/4	Reamer			V.D.
6	306	460	9	O W V	58	26	D.
7	460	558	9	O W V	98	10-1/2	D.
8	558	600	9	O S C	42	9-1/2	D.
9	100	354	12-1/4	Reamer	254	19	D.V. Loose
10	354	600	12-1/4	Reamer	246	14	D.
11			17-1/4	Reamer			
12			17-1/4	Reamer			
13			17-1/4	Rerun Reamer			
14			17-1/4	Rerun Reamer			
15	600	726	9	D S C	126	17	D
16	726	822	9	OOS C	96	18	D
17	822	907	9	O W V	95	11-1/4	D
18	907	997	9	D W V	90	16-1/2	D
19	997	1021	9	O W V	24	2-1/2	D
20	601	910	12-1/4	Reamer Rerun	309	6-3/4	D
21	910	1005	12-1/4	Reamer Rerun	95	5	D
22	601	800	17-1/4	Reamer Rerun	200	11	D
23	800	940	17-1/4	Reamer	186	7-1/4	D
24	910	1003	17-1/4	Ser.#634, Reamer	93	12-1/2	D
25	1021	1120		O.S.C. 95443	99	14-3/4	D.D.

PEEL PLATEAU EXPLORATION LTD.

Sheet No. 2

BIT RECORD

Company Peel Plateau Exploration Ltd. Date

Well Eagle Plains No.1 Field Stratigraphic Test Hole

Bit No.	DEPTH From	DEPTH To	Size	MAKE AND TYPE	Footage	Hours Run	REMARKS
26	1120	1218	9"	O.S.C.#5623	98	19-3/4	D
27	1218	1335	9"	O.S.C.95426	117	21	D
28	1335	1404	9"	O.S.C.95647	69	16	D
29	1404	1435	9"	O.W.V.91111	31	9	M.D.
30	1435	1540	9"	O.S.C.95465	105	23	D
31	1540	1560	9"	W.7 R. 95816	20	Dr111	on iron. G.
32	1560	1612	9"	O.S.C.95464	52	6-1/4	F
33	1612	1692	9"	O.W.V.90219	80	17	F
34	1692	1718	9"	O.W.V.91380	26	7	Lost 1 DC.F.
35	1718	1814	9"	O.W.V.91503	96	18-1/2	F & Loose
36	1814	1967	9"	O.W.V.91481	153	28-3/4	F & Loose
37	1967	2100	9"	O.W.V. 91384	133	29-1/4	F & Loose
38	2100	2101	9"	O.W.V.91374	1	1/4	Rerun Run in junk sub
39	2101	2122	6-1/8"	Koebel Diamond	21	12-1/4	
40	2122	2240	9"	O.W.V. 91384	139	26-1/2	F & Loose
41	2240	2411	9"	O.W.V.91379	171	32	F & Loose
42	2411	2568	9"	O.W.V.91375	157	35-1/2	F & Loose
43	2568	2695	9"	O.S.C. 96110	127	23	F & Loose
44	2695	2836	9"	O.S.C.	141	26-3/4	D & Loose
45	2836	2870	9"	O.S.C. 96147	34	9	D & Loose
46	2870	3031	9"	O.W.V. 91385	161	32-1/4	D & Loose
47	3031	3164	9"	O.W.V. 91378	133	26-1/4	F & Loose
48	3164	3220	9"	O.W.V. 91383	56	16-1/2	D.
49	3220	3348	9"	O.W.C.96402	128	33-3/4	D & Loose
50	3348	3467		O.W.C.96404	119	23-3/4	D & Locked

PEEL PLATEAU EXPLORATION LTD. Sheet No. 3

BIT RECORD

Company Peel Plateau Exploration Ltd. Date

Well Eagle Plains No.1 Field Stratigraphic Test Hole

Bit No.	DEPTH From	DEPTH To	Size	MAKE AND TYPE	Footage	Hours Run	REMARKS
51	3467	3591	9"	O.W.C.96416	124	22-3/4	D & Loose
52	3591	3611	9"	O.W.C.96408	20	5	Green
53	3611	3658	6-1/8	Koebel Diamond	47	10-1/2	Coring
54	3611	3659	9"	O.W.C. 96408	48	8	Rerun Ream
55	3659	3679	6-1/8	Rerun diamond	20	4-3/4	G
56	3659	3720	9"	C.W.C.96401	41	13-1/2	Ream 20' D
57	3720	3805	9"	O.W.C.96406	85	24-3/4	D & L
58	3805	3918	9"	O.W.C.96411	113	24-3/4	D.
59	3918	3920	9"	O.W.C.96400	2	1/2	Green
60	3920	3940	6-1/8	Diamond	20	4-3/4	Good
61	3940	4002	9"	O.W.C. 96400	82	20-1/2	Ream 20
				REAMER BIT RECORD			
1	1022	1145	12-1/4	C.P. Rerun	123	5	D
2	1145	1461	12-1/4	C.P. Rerun 332	316	9-3/4	D.
3	1461	1661	12-1/4	C.P. 291	200	13-1/2	D
4	1661	1815	12-1/4	332	154	18	D
5	1815	1944	12-1/4	291	129	20-1/4	D
6	1944	2000		C.P.New 303	56	14-1/4	D
7	2000	2012	12-1/4	Reed 6171	12	9-1/2	P
8	2012	2130	12-1/4	C.P.Reamer 303	118	15	D
9	2130	2265	12-1/4	C.P. Reamer 291	135	14-1/2	D
10	2265	2409	12-1/4	C.P. Reamer 332	144	12-1/4	
11	2409	2510	12-1/4	C.P.Reamer 303	101		

Sheet No. 4

BIT RECORD

Company Peel Plateau Exploration Ltd. Date

Well Eagle Plains No.1 Field Stratigraphic Test Hole

Bit No.	DEPTH From	DEPTH To	Size	MAKE AND TYPE	Footage	Hours Run	REMARKS
62	4002	4113	8-5/8	O.S.C. 23770	109	24-1/4	F.D.
63	4113	4262	8-5/8	O.S.C. 23758	149	22-1/4	D
64	4262	4488	8-5/8	O.W.V. 19538	226	34-1/1	D
65	4488	4720	8-5/8	O.W.V. 26410	232	34-1/4	D
66	4720	4784	8-5/8	O.W.V. 19543	64	12	Good
67	4784	4827	8-5/8	O.W.V. 19543	43	5-1/1	Rerun. D.
68	4827	4847	6-1/8	Koebel Diam.rerun	210	10	G.
69	4847	4885	8-5/8	O.W.V. 19533	38	6-1/4	G.
70	4885	4891	8-5/8	O.W.V. 19539	6	1/4	G.
71	4891	4912	6-1/2	K.Diam.rerun	21	4-1/2	G.
72	4891	4912	8-5/8	O.W.V. 19533	21	1-1/2	G.Rerun Ream
73	4913	4950	6-1/8	K. Diamond	37		
74	4908	4913	8-5/8	O.W.V. 19533	5		
75	4913	4950	6-1/8	K. Diam.Rerun	37		
76	4950	4994	8-5/8	Rerun O.W.V. 19539	44		4913-50 Reamed
77	4994	5077	8-5/8	O.W.V.19539	83	15	D
78	5077	5290	8-5/8	O.W.V. 19540	213	35-1/4	D
79	5290	5434	8-5/8	O.W.V. 26403	144	32-1/2	F
80	5434	5588	8-5/8	O.S.C.23835	174	33	M Dull
81	Rerun			O.S.C. 23835	2	12	In with Junk Sub
82	5590	5600	6-1/8	Koebel Diamond	10	3-1/4	G.
83	5600	5757	8-5/8	O.S.C. 23756	157	24-3/4	D.
84	5757	5867	8-5/8	O.S.C.23756	110	24-3/4	D.
85	5869	5940	8-5/8	O.W.V. 23834	73	19	M.D.
86	5940	6014	8-5/8	O.S.C.25033	74	20-1/4	M.D.

PEEL PLATEAU EXPLORATION LTD.

Sheet No.....

BIT RECORD

Company Peel Plateau Exploration Ltd. Date Eagle Plains No.1 Stratigraphic Test Hole

Well ..... Field .....

Bit No.	DEPTH From	DEPTH To	Size	MAKE AND TYPE	Footage	Hours Run	REMARKS
~~87~~	~~6034~~	~~6047~~	~~8-5/8~~	~~O.M.V. 19542~~	~~39~~	~~11-1/2~~	~~M D~~
88	6047	6087	6-1/8	Diamond 216-12	40	11-1/2	Good
89	6087	6128	8-5/8	O.W.V. 19530	41	17-1/2	Reamed 6047-6087 M D
90	6128	6178	8-5/8	O.W.V. 19532	50	20-3/4	D
91	6178	6221	8-5/8	O.W.V. 19541	43	16-3/4	D
92	6221	6285	8-5/8	O.W.C. 19808	64	24-1/2	M D
93	6285	6364	8-5/8	O.W.V. 19545	79	27-1/2	F
94	6364	6519	8-5/8	O.S.C. 23765	155	22-3/4	D
95	6519	6650	8-5/8	O.S.C. 23755	131	24-1/2	D
96	6650	6792	8-5/8	O.S.C. 23754	142	26-1/2	D
97	6792	6824	6-1/8	Koebel Diam	32	7-1/4	G
98	6824	6878	8-5/8	O.W.V. 21137	(Reamed 32) 54	17	G
99	6878	6969	8-5/8	O.S.C. 23768	91	19-1/2	D
100	6969	7038	8-5/8	O.W.C. 25964	69	18	D
101			8-5/8	O.W.C. 26021		Clean out	
102	7038	7040	8-5/8	O.W.C. 26021	2	1/2	G
103	7040	7048	6-1/8	Koebel D.Core 11	8	6-1/2	G
104	7048	7069	6-1/8	Koebel D.Core 12	21	16-1/2	G
105	7040	7069	8-5/8	W 7 R 31248	26	5	D
106	7069	7097	6-1/8	Koebel D.Core 13	26	12-1/2	G
107	7097	7106	8-5/8	W 7 R 31254	9	6-3/4	D
108	7106	7160	8-5/8	W 7 R 31253	54	17	D
109	7160	7264	8-5/8	W 7 36425	104	29-1/2	D & L
110	7260	7337	8-5/8	O.W.V.26402	73	13-1/4	D

PEEL PLATEAU EXPLORATION LTD.

Sheet No.....

BIT RECORD

Peel Plateau Exploration Ltd.,

Company Eagle Plains Well No.1 Date Stratigraphic Test Hole

Well ..... Field .....

Bit No.	DEPTH From	DEPTH To	Size	MAKE AND TYPE	Footage	Hours Run	REMARKS
111	7337	7377	6-1/8	Trusel D.016-11R	40	14-3/4	C
112	7377	7432	8-5/8	O.W.C. 2637	55	18-1/4	D
113	7432	7533	8-5/8	O.W.V. 19531	101	20-1/2	D
114	7533	7675	8-5/8	O.W.V. 44466	142	23	D
115	7675	7678	8-5/8	O.W.V. 44467	3	1/4	D
116	7678	7688	6-1/8	Trusel Diamond	10	3	C
117	7678	7688		O.W.V.Rerun 44467	10'Ream	1/2	
118	7688	7696	8-5/8	O.W.V Rerun 44467	8'	2-1/2	
119			8-5/8	O.W.V Rerun 44467	Circ. & Cond.	mud.	
120	7696	7706	6-1/8	Diamond	10=	6	
121	7696	7721	8-5/8	O.W.V 35812	15	Ream and drill	
122	7721	7776	8-5/8	O.W.V 17972	55	13-1/4	D
123	7776	7874	8-5/8	O.W.V. 33814	98		D
124	7874	7906	6-1/8	Koebel Diam.	32	19	
125	7874	7970	8-5/8	W 7 36423	58	20-1/4	Reamed 32'2 hrs
126	7970	8057	8-5/8	W 7 31235	8 T	21-1/2	D
127	8057	8170	8-5/8	W 7 21529	113	25-1/4	F
128	8170	8288	8-5/8	O.W.V. 35810	118	24-1/4	D
129	8288	8409	8-5/8	O.W.V. 17939	121	23	Locked

Six Bits used for Drilling Velocity Survey Holes

V1's serial No.S.7514, 7707, 7098

V1W's Serial No.S.4855

V4's Serial No.S.9451, 9454

PEEL PLATEAU EXPLORATION LTD. 79A

Sheet No. 7

BIT RECORD

Company Western Minerals Ltd. Date

Well Eagle Plains No.1 Field Stratigraphic Test Hole

Bit No.	DEPTH From	DEPTH To	Size	MAKE AND TYPE	Footage	Hours Run	REMARKS
130			8 5/8	OWB Sur.(RR) 35812			
131			8 5/8	W7. 34477		1½	mill on looked iron
132			8 5/8	W7R 31251		1 3/4	R. " " "
133			8 5/8	W7. 51117		2 3/4	D. " " "
134	8409	8426	8 5/8	W7. 51162	17	3	Cement " Drill Plug
135	8426	8645	8 5/8	W7. 42494	219	21½	D
136	8645	8795	8 5/8	W7. 51024	150	20½	D
137	8795	8955	8 5/8	W7. 42727	166	20½	D
138	8955	9079	8 5/8	W7. 42599	124	20½	D
139	9079	9102	6 1/8	Diamond Koebel	23	7½	
140	9102	9220	8 5/8	W7. 42614	141	21 3/4	D
141	9220	9327	8 5/8	W7. 42608	107	12½	D
142	9327	9343	6 1/8	Koebel diamond	16	3 3/4	
143	9343	9445	8 5/8	OWV. 50450	102	19½	D
144	9445	9588	8 5/8	W7. 42660	143	24	D
145	9588	9589	6 1/8	Tru. Diamond			Stuck

PEEL PLATEAU EXPLORATION LTD.

Sheet No. 1

DRILLING MUD RECORD

Company Peel Plateau Exploration Ltd.

Well Eagle Plains No.1 Field Stratigraphic Test Hole

DATE	DEPTH	Weight lbs./gal.	Visc. Sec.	Water Loss C.C.	Ph	ADDITIONS
April 17	60					Gel. 20 sacks
April 18	100					Gel. 10 sacks, Caustic 50#
April 20						Gel. 25 sacks
April 27	306	9.1	56			Gel. 5 sacks
April 29	350	9.3	44			Gel. 25 sacks, Semtor 50#
May 3		9.4	60			Gel. 5 sacks
May 4	600	9.4	65			Gel. 5 sacks
May 5		9.4	50			Gel. 10 sacks
May 8	750	9.6	45			Gel. 10 sacks
May 12	801	10.4	48			Gel. 35 sacks, Caustic 25#
May 16	1110	8.8	34			Gel. 18 sacks
May 17	1167	8.4	35			Gel. 20 sacks
May 20	1487	9.2	34			Cemtox 300#, Gel. 15 sacks
May 24	1647	9.5	42			Gel. 10 sacks
May 27	1945	9.3	32			Caustic 25#, Tannex 200#
May 28	2040	9.8	37			Gel. 30 sacks Tannex 100#, Caustic 10#
May 30	2167	9.8	38			Gel. 10 sacks
May 31						
June 1	2395	9.7	37	16		Gel. 25 sacks Tannex 100#, Caustic 10#
June 3	2542	10	65	9.5	2/32	Gel. 54 sacks Tannex 2 sacks, Caustic 50#
June 8	3059	10	47	9.2	2/32	2000# Gel.
June 13	3558	10.1	60			200# Tannex, 25# Caustic
June 14						100# Tannex 50# Caustic
June 15						50# Tannex, 20# Caustic
June 16	3679	10.3	45	8.8	2/32	50# Tannex, 15# Caustic

Sheet No. 2

DRILLING MUD RECORD

Company Peel Plateau Exploration Ltd.

Well Eagle Plains No.1 Field Stratigraphic Test Hole

DATE	DEPTH	Weight lbs./gal.	Visc. Sec.	Water Loss C.C.	Ph	ADDITIONS
June 20	3940	10.2	50	9.8	2/32	Tannex 50#, Caustic 15#
June 22		Reaming				Tannex 50#, Caustic 10#
June 25		10.6	45	9.6	2/32	Tannex 50#, Caustic 15#
June 27	2074	10.8	53	9	2/32	Tannex 2 sacks Gel 5 sacks, Caustic 15#
July 3	4010	10	38	12	2/32	Gel 12 sacks, Gel 50#
July 4	4113	9.5	40	10.4	2/32	Tannex 50#, Caustic 10#
July 5	4255	9.4	42	11.2	2/32	Gel 20 sacks, Tannex 1 sack, Caustic 15#
July 8	4675	9.6	64	8.2	2/32	Gel Flake 14 sacks, Gel 30 sacks Mud 48 sacks, Sawdust 97 sacks
July 9	4742	9.3	80	8.4	2/32	Gel 37 sacks Gel Flake 2 sacks, Sawdust 95 sks
July 10	4784	9.1	80			Gel 95 sacks Gel Flake 33 sacks, Sawdust 137 sks.
July 11	4845	9.1	65			Gel 50 sacks, Sawdust 170 sacks
July 12	4881					Gel 47 sacks, Caustic 200# Sawdust 133 sacks
July 15	4994	9.4	75			Caustic 100#, Sawdust 281 sacks Gel 175 sacks
July 16	4994	9	60			Gel 55 sacks, Sawdust 50 sacks
July 17	5095	8.8	34	4.6	2/32	Gel 11 sacks
July 18	5290	9	45	10.6	2/32	Gel 10 sacks, Caustic 25# Tannex 2 sacks
July 19	5330	8.8	52	9.6	2/32	Gel 17 sacks, Sawdust 37 sacks
July 22	5512	8.6	48	9.6	2/32	Gel 22 sacks
July 23	5390	8.6	52	10.8	2/32	Gel 45 sacks, Caustic 100# Tannex 100#
July 24	5615	8.6	40	9		Sawdust 100 sacks, Caustic 100#, Gel 20 sacks
July 25	5758	9	43	9.6	2/32	Gel 10 sacks Tannex 50#, Caustic 100#
July 26	5825	9	42	8.4	2/32	Gel 13 sacks Sawdust 70 sacks
July 27	5908	8.6	40	10.2	2/32	Gel 35 sacks, Driscose 100#
July 28	5976	8.7	62	6.4	2/32	Gel 15 sacks

Sheet No. 3

DRILLING MUD RECORD

Company Peel Plateau Exploration Ltd.

Well Eagle Plains No.1 Field Stratigraphic Test Hole

DATE	DEPTH	Weight lbs./gal.	Visc. Sec.	Water Loss C.C.	Ph	ADDITIONS
August 2	6198	8.9	48	8.7	2/32	Sawdust 70 sacks, Gel 40 sacks, Tannex 100#, Driscose 100# Caustic 50#)
August 3	6244	8.7	55	6.2	2/32	Driscose 100#, Sawdust 20 sacks
August 4	6290	8.6	69	6.8		Gel 20 sacks Sawdust 45 sacks, Driscose 200#
August 5	6353	8.6	52	6.0	2/32	Gel 6 sacks, Driscose 100#, Fibre seal 15 sacks, Sawdust 5 sacks
August 6	6465	8.8	62	5.8	2/32	Gel 10 sacks, Driscose 100# Sawdust 5 sacks
August 7	6577	8.8	68	5.2	2/32	Gel 35 sacks, Driscose 300#, fibre sex 14 sacks, Sawdust 55 sacks
August 8	6650	8.8	50	6.2	2/32	Sawdust 5 sacks, Gel 10 sacks, Moss 6 sacks.
August 9	6748	8.2	78	6.8	2/32	Caustic 100#, Moss 3 sacks Tannex 75#, Driscose 100#
August 10	6824	8.9	50	5.8	2/32	
August 11	6878	9.1	59	6	2/32	Baroid 100#, Moss 10 sacks Gel 15 sacks
August 12	6969	8.9	57	7.2	2/32	Driscose 200#, Moss 12 sacks, Gel 35 sks, Sawdust 40 sks, Fireseal Driscose 100# 20sks)
August 13	7040	8.9	52	6	2/32	Moss 2 sacks, Gel 10 sacks
August 17	7055	9.0	40	7.8	2/32	Gel 25 sacks, Driscose 100#
August 18	7097	9.1	45	8.2	2/32	Gel 10 sacks
August 20	7187	9.2	43	6.4	2/32	Gel 10 sacks, Driscose 100#
August 21	7264	9.2	62	6.0	2/32	Gel 20 sacks, Moss 4 sacks
August 22	7315	9.1	47	6.8	2/32	Gel 5 sacks Fibre 10 sacks, Moss 5 sacks
August 24	7412	9.2	47	8.2	2/32	Fireseal 5 sacks
August 25	7497	9.3	55	6	2/32	Gel 15 sacks
August 27	7675	9.6	80	6.2	2/32	Driscose 50#, Gel 5 sacks, Moss 10 sks, Micatex 10 sks, Fibretex 30sks Palcoseal 6 sacks)
August 28	7678					Gel 45sax, Palco 4 sacks.
Sept. 2	7688					Dris. 100# Mica 13 sax, Moss 4 sks. Gel 23 sacks, Moss 20 sacks Driscose 150#
Sept. 5	7688					Micatex 46 sks, Moss 13sks, Sawdust 20 sks, Gel 66sks, Dris. 630#
Sept. 10	7696					Gel 72 sacks Driscose 500#, Caustic 200#
Sept. 11	7696					Gel 900#, Micatex 650# 2000# Hydron

Sheet No. 4

DRILLING MUD RECORD

Company Peel Plateau Exploration Ltd.

Well Eagle Plains No.1 Field Stratigraphic Test Hole

DATE	DEPTH	Weight lbs./gal.	Visc. Sec.	Water Loss C.C.	Ph	ADDITIONS
Sept. 12	7696					Gel 31 sks, Driscose 200#, Micatex 19 sacks
Sept. 13	7721					Gel 24 sacks Sawdust 25 sacks
Sept. 15	7721					Moss 16 sacks, Gel 26 sacks, Sawdust 30 sacks
Sept. 22	7788					Sawdust 8 sks, Gel 46 sks Micatex 3 sks, Semtox 400#
Sept. 23	7878	8.6	60			44 sacks Gel
Sept. 24	7906	8.8	48	8.6	2/32	10 sacks Gel
Sept. 25	7970	8.9	47	9.4	2/32	10 sacks Gel
Sept. 26	8055	9.8	41	9.6	2/32	Gel 20 sacks, Driscose 100#
Sept. 28	8237	8.9	42	6.5	2/32	Gel 10 sacks
Sept. 29	8337	8.9	34	7.2	2/32	
Sept. 30	8409	8.9	36	7.4	2/32	Gel 20 sacks
Oct. 4	8409					Tannex 400#

Sheet No. 5

DRILLING MUD RECORD

Company Peel Plateau Exploration Ltd.

Well Eagle Plains No.1 Field Stratigraphic Test Hole

DATE	DEPTH	Weight lbs./gal.	Visc. Sec.	Water Loss C.C.	Ph	ADDITIONS
May 28/58						Gel 26 sax
" 30						Gel 68 sax. 77 sax sawdust
June 1	8645		75		12	Tannex 300# Cementox 50# Gel.66 sax Sawdust 93 sax
" 2	8795	8.5	50		9.5	Gel.90 sax Sawdust 34 sax
" 3	8946	8.7	90		11.0	Driscose 50# Gel. 60 sax Sawdust 70 sax
" 4	9045	8.7	65	15.4	10.5	Tannex 200# Gel.12 sax Sawdust 25 sax
" 5	9102	8.9	70	16.2	10.5	Gel.10 sax
" 6	9112					Gel.15 sax Sawdust 23 sax
" 7	9177	8.9	70	13.6	10.5	Gel.32 sax Sawdust 20 sax
" 8	9260	8.9	65			Gel. 25 sax " 10 "
" 10	9327	8.9	90	13.2	9.5	Gel. 40 sax " 14 "
" 12	9495	8.9	75	11.8	9.5	Gel. 20 sax Water
" 13	9589	8.9	85	12.4	10.5	Soda 150# Tannex 500#
" 16	"	9.0	65	10.4	10	Gel 26 sax
" 19	"	8.9	60	9.2	9.5	Diesel 1200 gals
" 22	"	8.9	100	7.6	9.0	Gel. 8 sax
" 25	"	65				Gel. 78 sax Sawdust 30 sax

C A N A D A

DEPARTMENT OF NORTHERN AFFAIRS AND NATIONAL RESOURCES

NORTHERN ADMINISTRATION AND LANDS BRANCH

(~~ABANDONMENT~~)
(~~COMPLETION~~) REPORT
(SUSPENSION)
(Stroke out operations which do not apply)

To be submitted in triplicate in accordance with Section 70 of the Territorial Oil and Gas Regulations to the Conservation Engineer at Edmonton, Alberta.

Permit No. N/A

Name of well Eagle Plains No. 1 Lease No. N/A

Reservation & Exclusive Right to Explore as covered by P.C.'s #2808 1955-603, 1955-1720

Registered owner Peel Plateau Exploration Ltd. Drilling Company Parker Drilling Co.

Location: (Survey description) 66°-48'-54" N Lat.
138°-8'-30" W Long

Elevation: Ground . . . . . Kelly bushing 1469.4 Depth 8409

Spudded . . . . . Finished drilling . . . . Rig released . . .

Deviations from vertical . . . . . .

CASING

	Date	Size O.D.	Weight lbs/foot	Grade	Set at feet	Sacks cement
1.		13-3/8"	54.5	J-55	1006.72	600
2.		9-5/8"	36.0	J-55	2510	860
3.						

TUBING

Status of well on completion of drilling Suspended at 8409 ft.

Producing zone . . . Nil

Cored intervals 2101-2122; 3611-3658; 3659-3678; 3920-3940; 4827-4847; 4891-4912; 4913-4950; 5590-5600; 6047-6087; 6792-6824; 7040-7048; 7048-7069; 7069-7097; 7337-7377; 7678-7688; 7696-7706; 7874-7906.

Interval logged: E-log Surface to 8409 ft. M-log Surface to 8409 ft.

R-log Surface to 8409 ft. Other Temperature surface to 2500 ft.

DRILLSTEM TESTS

Test No.	Date	Interval tested	Duration	Results
1	June 19	3580 - 3918		Misrun, seat failed
2	June 19	3515 - 3918	60 mins	200 ft. mud
3	July 8-9	4695 - 4720	60 mins	480' gassy mud, 3860 salt water
4	July 9-10	4750 - 4785	60 mins	G.T.S. 35 min. T.STM. 4235' SW
5	July 12	4450 - 4690	60 mins	656' W mud, 1868 mud SW
6	July 14	4810 - 4950	30 mins	160' mud, 3976' S.W. gassy
7	Aug. 14	6904 - 7040	60 mins	887' muddy (SW ver)
8	Aug. 14	6790 - 6904	60 mins	664' SW
9	Aug. 15	6246 - 6485	60 mins	1681 SW mud
10	Aug. 21	7040 - 7264	45 mins	5561' SW

Test No.	Date	Interval tested	Duration	Results
11	Aug. 26	7264 - 7533	60 mins	996' M SW.
12	Sept. 3	7650 - 7688	55 mins	140' W.mud, 650' W.C.
13	Sept. 6			Misrun, packer failed
14	Sept.14	7636 - 7696	60 mins	140' mud
15	Sept.15			Misrun, tool plugged
16	Sept.16	7527 - 7721	60 mins	155' mud
17	Oct. 2	8338 - 8409	60 mins	796' SW
18	Oct. 5			Misrun
19	Oct. 6	4085 - 4423	60 mins	190' mud

Perforations: (Gun.....) (Det.....) Nil

Shootings: Nil

Hydraulically fracturing: Nil

Chemical treatment: Nil

Date Initial Production tests: Nil

Initial production data Nil

Pumping or flowing Nil

Plug back: Nil

Other: Suspended

(rev0)

CEMENT PLUGS SET

Date	Plug set at	Sacks cement	Method	Top found at
Oct.3/57	8309' - 8409' McCullough Bridging	40 sacks	H.O.W.Co. Schlumberger	8327'
Oct.4/57	plug at 5040. McCullough Plug	3 sacks	Line Schlumberger	5040'
Oct.4/57	at 4425	3 sacks	Line	4425'
Oct.6/57	2475' - 2550'	60 sacks	H.O.W.Co.	2407'
Oct.6/57	McCullough Bridging Plug at 250'	Nil	Schlumberger Line	250'

Well samples have been sent to: Core Laboratories

Cores will be stored at: Calgary

Electric log is appended: Yes . . . No X

Radioactivity log is appended: Yes . . . No X

Micrometer log is appended: Yes . . . No X

Geologic record or strip log(is) submitted Yes . . . No X
(will be)

(rev0)

Results of tests for porosity, permeability, and saturation of each stratum containing oil, gas or water (are) submitted
(will be) Yes . . . No X

With respect to abandonment we have complied with Section 60(3) and (4) of the Regulations N/A (Initial here)

ADDITIONAL DETAILS AND COMMENTS

Signed W.G. Campbell Address 8 Michael Building, Calgary, Alberta.

W.G. Campbell

NORTHWEST ← AZIMUTH 160° → SOUTHEAST

IMPERIAL THICKENS TO NORTH, ALTHOUGH IN OUTCROP IT IS OVERLAIN UNCONFORMABLY BY UPPER JURASSIC.

LOWER & MIDDLE PALEOZOIC CARBONATES THIN TOWARDS NORTH.

JURASSIC APPEARS TO PINCH OUT IN THIS AREA, PROBABLY EARLIER.

--- WELL SITE "C"

--- LAT. 66° 50'

--- WELL SITE "A"

--- GEOL. X-SECT. AZ. 118°

--- LAT. 66° 45'

--- WELL SITE "B"

-- PORCUPINE RIVER

-- LAT. 66° 40'

-- LONG. 138° 10'

PENN-MISS. LIMESTONES PINCHED OUT DUE TO POST-PENN, BUT PRE-CRETACEOUS EROSION.

-- LAT. 66° 38' - GEOL. X-SECT AZ 90°

--- WELL SITE "G"

MISS. MAY BE PRESENT IN TROUGH.

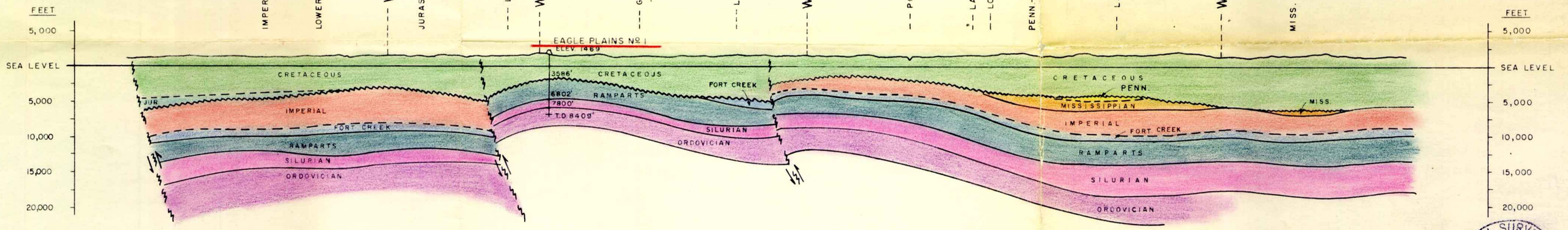
NOTE:

FAULT DIPS SHOWN MAY NOT BE TRUE DIPS; THIS APPLIES TO ALL FAULTS ON ALL X-SECTIONS

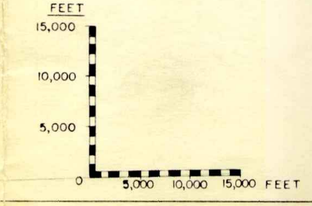
THE SENSE OF, OR RELATIVE, MOVEMENT IS DEDUCED FROM KNOWN STRATIGRAPHY OR FROM GEOPHYSICAL INTERPRETATION.

LITTLE OR NO CONTROL OF STRATIGRAPHY ABOVE THE RAMPARTS ACROSS THIS AREA.

BECAUSE OF EROSION OF PENN-MISS. ON ANTICLINAL CRESTS, IT IS TENTATIVELY INFERRED THAT JUR-CRET BEDS LIE UNCONFORMABLY ON IMPERIAL.



GEOLOGICAL CROSS SECTION ACROSS THE EAGLE PLAINS ALONG AZIMUTH 160°



BY B. R. PELLETIER. REVISED NOV 1957 BY W.F.W.

PEEL PLATEAU EXPLORATION LTD.

CALGARY, ALBERTA — TORONTO, ONTARIO.
A.L. OLDFIELD — OCT. 4 1956

66° 55'

55'

TIM

OVAL

49'

48'

2000'

2000'

1500'

47'

1500'

46'

45'

66°45'

45'

13'

12'

11'

10'

9'

8'

7'

6'

138°8'30" W
66°48'54" N
ELEV. KB. 1469·4'

TO TP EN-3

MAG.

EAGLE PLAIN No 1.

SP 9

762'

600'

SP 8

138°15'

40'

MOTH
2000'

A G Beeman 22/5/57

138° 30'

138° 00'

66° 35'

66° 35'

35'

GEOLOGICAL SURVEY OF CANADA
APR 8 1959
CALGARY

PEEL PLATEAU EXPLORATION LTD.

SURVEY PLAN

EAGLE PLAIN No. 1