

WELL HISTORY REPORT

CHEVRON SOBC WM E. PINE CREEK YT 0-78

February 25, 1972

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Manager, Territorial and Arctic
Development Task Force



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### SECTION I - SUMMARY OF WELL DATA

- (a) Well Name and Number

  Chevron SOBC WM E. Pine Creek YT 0-78
- (b) Permittee, Licensee or Lessee
  Western Minerals Limited
- (c) Name of Operator

  Chevron Standard Limited 400 Fifth Avenue S.W.
  Calgary 1, Alberta
- (d) Location UWIR": Lat. 66.96472 N Long.137.98278 W
  Unit 0, Section 78, Grid 67-00 137-45 ...
  UWIR": Lat. 66.96472 N Long.137.98278 W
  Unit 0, Section 78, Grid 67-00 137-45 ...
- (e) Coordinates

  Latitude:  $66^{\circ}$  57' 53" N; Longitude:  $137^{\circ}$  58' 58" W
- (f) Permit or Lease Number
  Permit No. 3312
- (g) <u>Drilling Contractor</u>

  G. P. Drilling Ltd., Rotary Rig #15
- (h) <u>Drilling Authority</u>
  No. 553, issued November 3, 1971
- (i) <u>Classification</u>
  Wildcat
- (j) <u>Elevations</u>

  Ground elevation 1261' : K.B. elevation 1276.60'
- (k) <u>Spudded</u>
  15:15 hours, December 25, 1971
- (1) Completed Drilling

  14:00 hours, January 21, 1972

- (m) <u>T.D. and P.B.T.D.</u>

  T.D. 3109': P.B.T.D. Surface
- (n) Well Status

  Dry and permanently abandoned
- (o) Rig Release Date

  12:00 hours, January 26, 1972
- (p) Hole Sizes to Total Depth

  30" Hole from surface to 85' K.B.
  17-1/2" Hole from 85' K.B. to 324' K.B.
  8-3/4" Hole from 824' K.B. to 3109' K.B.
- (q) <u>Casing</u>

  19" O.D. conductor pipe set at 84' K.B.
  13-3/8" J-55, 54.5# casing set at 819' K.B.
- Engineers and Geologists

  Engineers D. G. Lewis, P. Silvers, J. N. Veny
  Geologist P. G. Collier

### SECTION II - GEOLOGICAL SUMMARY

### a) Formation Tops

	Depth	1	Elevation
Formation	Samples	Logs	K.B. 1277'
Lower Cretaceous Shale Unit	Surface	Surface	
Albian Siltstone Unit	1785	1827	<b>-</b> 550
Johnson Creek Formation	2547	2547	-1270
Paleozoic Unconformity			
(Upper Devonian)	2552	2552	-1275
Imperial Formation	2552	2552	-1275

TOTAL DEPTH 3109'

### b) Cored Intervals

Core No.	Interval	Formation	Recovery
1 2 3 4 5	2185' - 2245' 2345' - 2405' 2412' - 2472' 2473' - 2501' 2501' - 2536' 2536' - 2596'	Albian Siltstone Albian Siltstone Albian Siltstone Albian Siltstone Albian Siltstone Albian Siltstone Albian Siltstone, Johnson	60' 60' 60' 28' 35'
7 8 9	2596' - 2603' 2603' - 2639' 2639' - 2648'	Creek, U. Devonian, Imperial Imperial Imperial Imperial	49' 7' 35.5' 9'

### c) Core Description

0

### Core #1 : 2184'-2244' Cut 60 Ft. Rec. 60 Ft.

### Coring Times: minutes per foot (left to right)

2184 - 31, 18, 17, 17, 16, 17, 17, 19, 21, 16, 18, 18, 17, 19, 16, 18, 16, 19, 16, 17, 19, 15, 17, 16, 16, 18, 15, 17, 15, 19, 17, 16, 17, 17, 19, 19, 19, 19, 20, 17, 19, 19, 19, 17, 17, 18, 17, 17, 18, 17, 17, 17, 16, - 2244

2184 - 2220: Siltstone, light and dark grey millimetre laminated; light grey coarse silt, < 5% sand grains, minor calcite cement; dark grey argillaceous, micromicaceous fine silt, minor anhydrite cement. Bedding horizontal, except for minor lensing; nodular pyrite common; small scale scour and fill structures 2212-2220. Tight. No shows.

2220 - 2230:

Siltstone, light and dark grey millimetre laminated; light grey coarse silt (70%) with 10% very fine sand grains, calcite and silica cements; dark grey fine silt (as above) 30%. Tight. No shows.

2230 - 2244:

Siltstone, light and dark grey laminated as above, but several lenses of light grey sandy, siliceous coarse silt to 5 mm. and rarely to 10 mm. Stringers of poor porosity to 6% in coarse silts; poor to zero permeability; minor gas bleeding. 25% dark grey micromicaceous argillaceous fine silts, tight; trace pelecypod shell fragments.

### Core #2: 2345'-2405' Cut 60 Ft. Rec. 60 Ft.

Coring Times: minutes per foot (left to right)

2345 - 34, 24, 15, 16, 16, 16, 16, 18, 15, 16, 18, 16, 16, 16, 17, 15, 18, 16, 16, 17, 16, 16, 16, 18, 16, 17, 17, 16, 16, 16, 17, 18, 18, 21, 15, 16, 18, 18, 17, 18, 18, 16, 17, 18, 17, 19, 19, 20, 20, 20, 19, 20, 21, 19, 19, 22, 19, 20, 18, 20 - 2405

2345 - 2375:

Siltstone, light and dark grey interlaminated. 60% light grey sandy coarse silt, sub-quartzose, siliceous with minor calcite cement; occurs in laminae and lenses to 5 mm., lenses show micro-cross-bedding and scour and fill structure at base. Traces of non-effective porosity. 40% dark grey very argillaceous silt, micaceous, anhydrite cement, pyrite laminae and small nodules; horizontal lamination throughout; trace of flow structures. Tight. No shows.

2375 - 2405:

Siltstone, light and dark grey interlaminated 40% light grey sandy coarse silt (as above); occurs in laminae and lenses to 5 mm.; micro-cross-bedding in lenses. 60% dark grey very argillaceous silt (as above); horizontal lamination on millimetre scale, except where displaced by incipient siderite nodules to 3". Tight. No shows.

Drilled 2405-2412 with junk sub

### Core #3: 2412'-2472' Cut 60 Ft. Rec. 60 Ft.

Coring Times · minutes per foot (left to right)

2412 - 27, 16, 16, 14, 16, 15, 15, 15, 16, 12, 18, 17, 18, 15, 15, 14, 15, 14, 15, 17, 17, 17, 18, 18, 17, 19, 16, 11, 13, 16,

16, 15, 15, 15, 15, 17, 16, 15, 19, 21,

20, 17, 16, 16, 13, 20, 21, 19, 18, 18,

18, 16, 16, 19, 16, 17, 19, 15, 17, 16 - 2472

Siltstone and shale; light and dark grey millimetre 2412 - 2442: interlaminated. 20-25% light grey coarse silt laminae and lenses to 5 mm., minor calcite cement. Tight. No shows. 75%-80% dark grey, micaceous, anhydritic, silty shale, slightly bituminous. Sideritic nodules to 2", displacing otherwise horizontal lamination. Small carbonaceous pelecypod fragments throughout; thin coquina

at 26.3; occasional large vertical worm burrows and small horizontal worm casts. Tight. No shows.

Shale, dark grey to black, bituminous, silty and anhy-2442 - 2472: dritic. 10%-15% light grey siltstone laminae, as above. Pyritized pelecypod fragments common; pyritized coaly lens at 52.2; pyritic nodules with cellular texture common near base (?organic - sponge like). Occasional

gastropods and worm trails. Tight. No shows.

### Core #4: 2473'-2501' (Jammed) Cut 28 Ft. Rec. 28 Ft.

Coring Times: minutes per foot (left to right)

2473 - 8, 17, 14, 12, 13, 13, 13, 13, 12, 12,

13, 14, 14, 15, 13, 12, 13, 12, 15, 14, 13, 14, 16, 16, 12, 15, 14, 14 - 2501

Shale, black, very bituminous, slightly silty, anhy-2473 - 2481:

dritic; minor silt laminae. Generally massively bedded; faint horizontal lamination with  $5^{\circ}$  -  $10^{\circ}$  dips. Pyrite nodules with cellular texture common (?organic - sponge

like); occasional worm trails. Tight. No shows.

Shale, black, as above; prominent vertical fractures 2481 - 2482:

lined with calcite. No shows.

Shale, black, as above but massively bedded (unfractured); 2482 - 2485.2:

pyritized, gastropod at 83.5.

Shale, black, as above, with major 45° slickensided frac-2485.2-2486.3:

ture at 85.2 and minor slickensides 85.5 - 86.3. Fractures

calcite lined in part. No shows.

Shale, black, as above but unfractured; 2" non-2486.3-2489:

displacive iron nodule 37.8.

Shale, black, as above, with slickensided fractures. 2489-2489.7:

No shows.

2489.7-2499: Shale, black, as above, massively bedded, unfractured.

> Abundant pyrite: disseminated, laminar and nodular; nodules have cellular texture as above. 12 mm. silt lamina at 90.9 with steep  $(20^{\circ})$  dips above; abrupt changes of dip 38 - 91. Hassive shale has conchoidal

fracture.

2499 - 2501: Shale rubble, probably shale as above.

Core #5 : 2501'-2536' Cut 35 Ft. Rec. 35 Ft.

Coring Times: minutes per foot (left to right)

2501 - 25, 13, 17, 15, 15, 16, 15, 15, 16, 12,

14, 16, 16, 15, 15, 15, 19, 17, 17, 17,

13, 19, 16, 13, 15, 18, 17, 17, 18, 18,

17, 16, 15, 13, 13 - 2536

2501 - 2536: Shale, dark grey to black, bituminous, micaceous,

anhydritic, pyritic. Massively bedded, no visible lamination. Occasional 2-5 mm. light grey quartz silt interbeds. Pelecypods common; rare pyritized wood fragments; 12" ?organic nodules with pustules towards base - possibly coprolites. Large vertical pyritized worm burrows and occasional small horizontal worm tracks.

Conchoidal fracture. No shows.

Core #6: 2536'-2596' Cut 69 Ft. Rec. 60 Ft.

Coring Times: minutes per foot (left to right)

2536 - 17, 17, 12, 11, 13, 11, 13, 3, 13, 16, 14, 9, 5, 5, 4, 10, 13, 10, 14, 14,

11, 21, 15, 17, 14, 17, 16, 19, 17, 15,

17, 15, 16, 16, 15, 20, 16, 14, 13, 25,

18, 15, 22, 30, 27, 16, 34, 33, 22, 16,

32, 20, 34, 28, 24, 27, 31, 33, 29, 38 - 2596

Shale, dark grey to blick, bituminous, micaceous, 2536 - 2547:

> anhydritic, pyritic, becoming silty towards the base. Massively bedded. Large vertical pyritized worm burrows 45.5-45.9; small horizontal worm tracks; pos-

sible coprolites. Tight. No shows.

2547 - 2548: Shale, silty, grading down to Sandstone, very silty.

Transitional. Tight. No shows.

2548-2551.6: Sandstone, medium grey-green, fine grained, very silty, slightly argillaceous. Est. 25% glauconite grains; abundant disseminated pyrite. Poor intergranular porosity to 12%; very poor to zero permeability. Trace spotty oil stain from small fractures.

2551.6-2552.6: Brecciated sandstone, white, coarse to very coarse grained, clean, well sorted, cherty. Tightly cemented with silica quartzitic. Trace oil stain from small fractures.

2552.6-2560: Sandstone, medium grey, shaley and silty, light and dark chert grains, silica cemented. 20% shale interbeds, dark grey, silty, with small scale cross-bedding in silts. Interval tight. No shows.

2560 - 2562: Sandstone, light grey, light and dark chert dominant, medium to coarse grained; 10%-20% matrix silt; 20% silica cement - quartzitic. Tight. No shows.

2562 - 2569: Shale, dark grey, silty, finely cross-bedded and inter-bedded with 30% sandstone, medium grey, fine to coarse grained, shaley, silica cement, tight.

2569 - 2596:

Sandstone, light grey, cherty, siliceous, 70%-80%;
occurring in \_raded sequences 1 to 3 feet thick. Typical graded sequence consists of thin coarse sand, passing up into fine to medium sand, then into cross-bedded silts and silty shales. Contacts between graded units generally erosional. Sands are composed of approximately 60% light chert, 20% dark chert, 10% green chert and 10% lithic fragments (shale); grains subangular to subrounded; minor matrix silt and clay: 20%-30% silica cement. Vertical fractures and slickensides common 2580-2596; dolomite lined in part. Trace intergranular porosity at base - ineffective. Spotty stain at base.

### Core #7: 2596'-2603.5' (Jammed) Cut 7.5 Ft. Rec. 7.0 Ft.

Coring Times: minutes per foot (left to right)

2596 - 27, 27, 36, 35, 32, 29, 26 - 2603.5

2596-2596.3: Sandstone, light grey, very fine grained, slightly silty, quartz and chert grains. Siliceous cement. Tight. No shows.

2596.3-2596.9: Lost Core, ground up by rotation before jamming. Trace shale, dark grey.

2596.9-2602.7: Siltstone, medium grey, cross-bedded 75%; shale, black 20% as interbeds; minor sand laminae at top. Interval consists of several graded units, coarse silt to shale.

Slump structures; steep  $(30^{\circ})$  dips at top. Small vertical fractures and pinpoint vugs near top with trace oil stain.

2602.7-2603.5: Sandstone, light grey/white, clean, very cherty and siliceous, coarse to very coarse grained, pyritic.

Grains are 80% white chert, angular to subangular.

Wavy bedding with 10 dips. Tight. Trace spotty oil stain.

### Core #8: 2603.5'-2639 Cut 35.5 Ft. Rec. 35.5 Ft.

Coring Times: minutes per foot (left to right)

2603.5 - 41, 42, 31, 38, 35, 38, 46, 30, 28, 39, 33, 38, 32, 31, 30, 31, 30, 31, 32, 29, 30, 32, 35, 30, 31, 36, 36, 29, 29, 28, 31, 35, 32, 37, 60, 41 - 2639

2603.5-2605.2: Sandstone, light grey/white, clean, very cherty and siliceous, medium to very coarse grained - mainly coarse; 30% siliceous cement - quartzitic; grains are 70% white chert, 20% dark chert, 5% green chert and 5% lithic fragments; subangular to angular. Tight. Trace spotty oil stain.

2605.2-2609.6: Intercedded silts, sands and shales; 20% sandstone, light, Grey, fine grained, fairly well sorted, 60% quartz grains, 40% chert grains, subrounded. Tight. No shows.

50% siltstone, medium grey, coarse silt with shaley laminae, small scale cross-bedding, slump structures contort bedding; load casts into shales.

30% shale, black, carbonaceous, soft with conchoidal fracture. Occasional nodular and lenticular non-displacive iron concretions (non-sideritic).

Interbedded silts and shales, 50% siltstone, light to medium grey, coarse silt with shaley laminae, crossbedded throughout. Approximately 1" silt and 1" shale interbeds. Gravity slumping abundant; load casts into shale. 50% shale, dark grey to black, carbonaceous, pyritic, with trace floating wood fragments. Numerous light brown laminar, lenticular and nodular non-displacive iron concretions (non-sideritic). Minor sandstone interbeds at base, very fine grained, tight. Subvertical fracturing extensive - 0.9-9.5, 27-29, accompanied by microfaulting. Fissures lined in part with euhedral quartz and ?limonite. No shows.

## Core #9: 2639-2648' Cut 9 ft. Rec. 9 ft.

Coring Times: minutes per foot

2639 - 22, 29, 32, 31, 24, 24, 24, 23, 23, - 2648

2639-2641.2 Siltstone, light to medium grey, sandy, with 20% thin dark grey shale laminae. Abundant flow and slump, structures contort bedding; small scale cross-bedding. Low angle dips.

2641.2-2641.8 Sandstone, light grey, silty, very fine grained, moderately to well sorted, sub-quartzose with sub-rounded grains; 25% siliceous cement. Tight. No shows.

2641.8-2646.2 Siltstone, medium grey, sandy, with shale laminae. 20% shale interbeds, black, in  $\frac{1}{2}$ " beds. Siltstone has sedimentary structures as in interval 2639-41.2. Dips generally  $10^{\circ}$ - $20^{\circ}$ .

2646.2-2648 Sandstone, light grey, very fine grained, moderately well sorted, subrounded grains; minor matrix silt; 25% siliceous cement. Grains 70% quartz, 30% chert. Tight. No shows.

### d) Sample Description

110-170 Siltstope, medium brown-grey, argillaceous and calcareous, abundant glauconite nodules, slightly sandy in part. Minor shale, medium grey, silty, glauconitic.

Shale, medium grey, silty, slightly calcareous and glauconitic; sideritic ironstone nodules generally abundant; millimetre silt laminae; chips sub-fissile to fissile.

820-980

Shale, medium grey, silty, anhydritic; occasional ironstone nodules; chips sub-fissile to fissile. Minor sandstone, white, very fine to fine grained, quartzose, silica cemented and quartzitic; patchy poor intergranular porosity. No shows. (N.B.: sandstone could be cavings from interval 0-110; surface casing was set at 824'.)

980 - 1785: Shale, medium grey to grey-brown, anhydritic; numerous millimetre silty laminae, minor ironstone nodules.

Trace waxy green silty shale interbeds. Chips mainly sub-fissile.

1785 - 1360: Siltstone, light and medium grey-brown, variably calcareous and anhydritic. Slightly porous coarse quartz siltstone (light grey-brown) interbedded with fine siltstone (medium grey-brown), argillaceous. No shows.

1360 - 1900: Sandstone, light grey to white, very fine grained, silty, calcite and anhydrite cements; glauconitic; sub-quartzose with 25% dark grains; subrounded grains, fairly well sorted. Poor intergranular porosity to 12%. No shows. Minor argillaceous siltstone interbeds.

1900 - 2020: Siltstone and shale, millimetre laminated, light and medium grey-brown striped. Silts (70%) are quartzose, locally to very fine sand grain size, with calcite, silica and anhydrite cements; poor stringers of porosity to 10%. Shales 30% are silty and micromicaceous. No shows.

2020 - 2090: Siltstone and shale, millimetre laminated, light and medium grey-brown striped. Silts (as above) 60%; shales (as above) 40%. Numerous sideritic concretions. Tight. No shows.

2090 - 2150: Siltstone and shale, millimetre laminated, light and medium grey-brown striped. Silts (as above) 70%; shales (as above) 30%. Iron concretions not abundant. Tight. No shows.

2150 - 2184: Siltstone, light grey-brown, sandy; anhydrite and calcite cements: poor porosity in stringers of grey-white coarse silt to very fine sand. 20% shale laminae as above. Trace gas bleeding from silt chips.

2184 - 2244: Core No. 1 Rec. 60' (See core descriptions)

2244-- 2345: Siltstone, light and medium grey brown millimetre laminated. 30% light grey sandy coarse silt, quartzose, silica anhydrite and calcite cements; minor poor porosity with gas bleeding from chips. 70% dark grey very argillaceous, micaceous and anhydritic fine silts.

Tight

Core No. 2 Rec. 60' (See core descriptions) 2345 - 2405: 2405 - 2412: No samples (drilled while fishing) Core No. 3 Rec. 60' (See core descriptions) 2412 - 2472: 2472 - 2473: No sample (drilled while reaming) 2473 - 2501: Core No. 4 Rec. 28' (See core descriptions) Core No. 5 Rec. 35' (See core descriptions) 2501 - 2536: 2536 - 2596: Core No. 6 Rec. 60' (See core descriptions) 2596 - 2603.5: Core No. 7 Rec. 7' (See core descriptions) 2603.5 - 2639: Core No. 8 Rec. 35.5' (See core descriptions) Core No. 9 Rec. 9' (See core descriptions) 2639 - 2648: Shale, medium grey, silty, dolomitic; 20% light grey 2648 - 2670: quartz silt interbeds, sandy and siliceous. Interbedded sand, silt and shale, 30% sandstone, light 2670 - 2730: grey-brown, fine grained, cherty, siliceous, tight; 30% siltstone, medium grey, sandy; 40% shale, dark grey, dolomitic. No shows. Shale, medium to dark grey, dolomitic, poorly to 2370 - 2740: non-fissile. Interbedded sand, silt and shale, 50% sandstone, light 2740 - 2820: grey-brown, very fine to coarse grained, cherty, siliceous, locally dolomitic. Grains are 70% light chert, 20% dark chert, 10% green chert; subangular to angular. Tight. Minor gas bleeding from chips. 30% siltstone, medium grey-brown, sandy, locally bituminous, silica and dolomite cements. 20% shale, medium grey, silty and dolomitic. 2820 - 2880: Shale, medium to dark grey, bituminous, micromicaceous, poorly to sub-fissile. 20% shaley silt laminae.

Tight. No shows.

2880 - 2930: Interbedded sandstone and shale, 50% sandstone, light brown, cherty, shaley, silica cemented, very fine to fine grained. Grains are 50% light chert, 40% dark chert and 10% green chert subangular; poorly sorted. Tight. Trace gas bleeding from chips. 50% shale, medium to dark grey, bituminous, silty, micaceous.

2930 - 3020: Interbedded sandstone, silt and shale, 60% siltstone, medium grey, very sandy, bituminous in part, subquartzose, anhydritic and siliceous. Tight. Minor gas bleeding from chips. 20% sandstone, light to medium brown, very fine grained, subequal quartz and chert component grains, subangular; fairly well sorted. Tight. 20% shale, dark grey, bituminous.

3020 - 3035: Shale, dark grey, bituminous, sub-fissile. 40% sandy silt interbeds, medium grey.

Conglomerate and conglomeratic sandstone, light grey/white, cherty, siliceous; chert pebbles in medium to coarse sand matrix; 60% light chert grains, 30% grey-green chert and 10% dark chert; angular. Poor porosity in medium grained sand matrix to 6%. No shows.

Interbedded sandstone, silt and shale, 30% sandstone, light grey-brown, very fine to fine grained, cherty and siliceous. Tight. No shows. 30% siltstone, medium grey, sandy. Tight. Minor gas bleeding from coarse silt chips. 40% shale, dark grey to black, bituminous and dolomitic, poorly fissile.

TOTAL DEPTH 31091.

### e) Paleontological Determination

The distribution of most dinoflagellate species found in samples from Cores 1 to 6 is shown on the attached table. A few long ranging pollen and spores species were also found but these are not discussed here.

All microfloras belong to the Upper part of the <u>Gardodinium eisenacki</u> zone as shown by the common occurrence of <u>Microdinium ppacem</u> and the presence in many samples of <u>Broomea jaegeri</u>, <u>Muderongia mewhaei</u>, <u>A. sp. A. Tenua hystrix and Cleistcephaeridium multispinosum</u>. This section is considered to be Lower to Middle Albian in age but it is possible that it may be as old as Aptian or Late Barremian.

Gardodinium eisenacki is common in most samples and is very abundant

in many of the lower samples. Operculites sp. occurs occasionally throughout and there is no evidence that any of the section is as old as the Operculites subzone.

Evidence from E. Pine 0-78, E. Porcupine I-13 and Shaeffer Ck. 0-22, suggests that it may be possible to further subdivide the <u>Gardodinium eisenacki</u> zone by the occurrence of <u>Microdinium opacum</u> in the upper part of the zone. However, as <u>Microdinium opacum</u> is usually not abundant and none of these wells has a complete section through the <u>Gardodinium eisenacki</u> zone a definite subdivision is not considered feasible at present.

All samples examined contain abundant structured Licence material (woody and cuticular fragments). Only minor amounts of amorphous material were found.

The spore colour is approximately 2-5. The palynomorphs and tissue in all samples are generally strongly corroded.

### SECTION III - ENGINEERING SUMMARY

### (a) Report of Drillstem Tests

DST #1: 2600' - 2521' : Straddle, conventional test

Zone: Johnson Creek

Times: Preflow 5 mins. - VO 60 mins. ISI 60 mins. - FSI 90 mins.

Weak air blow on preflow. Weak air blow on VO decreasing and dying

in 12 minutes.

Recovered: 280' of fluids, 30' of drilling mud and 250' of mud cut water.

Pressures: IHP 1211 FHP 1216

ISIP 1217 FSIP 1216

IFP 18 FFP 154

Remarks: BHT 98°F

Test satisfactory

Mote: Service company test report in back folder.

### (b) Casing Record

### Conductor Pipe

23' of 23" OD 3/16" wall insulated conductor pipe with 3/4" OD cooling coils, on top of 43' of 19" OD 3/16" vall set at 65' below ground or 77" K.B.

Conductor pipe cemented with a total of 172 wax of "coldset" permafrost cement.

### Surface Casing

Ran 25 joints (303.09') of 13-3/8'', 54.5#, K-55, 8rd, new, seamless, ST&C, Rge 2 casing landed at 819.47' K.B.

Cemented casing with 340 sax Class I cement plus 3% CaCl<sub>2</sub>. Cement in place at 7:30 hours December 31, 1971. Circulated approximately 160 sax of excess cement.

No intermediate or production casing strings were run.

### (c) Bit Record

See attached Bit Record sheet.

### (d) Mud Report

### Surface Hole

The 17-1/2" surface hole was drilled from  $34^{\circ}$  K.B. to  $824^{\circ}$  using stable foam as the drilling fluid. At  $824^{\circ}$  the hole was filled with a water gel mud. The following materials were used on surface hole:

Sulfotex Sal	3.5	drums
Aluminium Stearate	2	boxes
Magcoge1	40	sax
Rapidril	15	sax

### Main Hole

The main hole was drilled using a gel, water Rapidril system from 824' K.B. to 3109' T.D. The following materials were used on the main hole:

Magcoge1	167	sax
Rapidril	37	sax
Caustic Soda	6	sax
CMC	2	sax

### (e) Deviation Record

73 - 1	370 - 1-1/4	651 - 1-1/2	$1298 - 2^{\circ}$ $1394 - 1-3/4$ $1710 - 2-3/4$
112 - 7/8	400 - 1-1/4	680 - 1-1/2	
140 - 7/8	433 - 1-1/8	710 - 1-1/4	
170 - 1/2	460 - 1-1/4	740 - 1-1/8	$   \begin{array}{r}     1869 - 2 - 1/2 \\     1965 - 2^{\circ} \\     2184 - 1 - 1/8   \end{array} $
230 - 1	490 - 1-1/4	775 - 1-1/4	
275 - 1-1/8	525 - 1-1/4	829 - 1-1/4	
306 - 1-1/4	559 - 1-1/2	844 - 1-1/2	$   \begin{array}{r}     2450 - 1 \\     3007 - 1 - 3/4 \\     3090 - 1   \end{array} $
340 - 1-1/2	620 - 1-1/4	980 - 1-1/2	

### (f) Abandonment Plugs

Plug #1 (3109'-2885') 130 sax construction cement. Plug #2 (2600'-2500') 60 sax construction cement plus 3% CaCl<sub>2</sub>. Felt @ 2491' Plug #3 (869'-769') 90 sax construction cement plus 3% CaCl<sub>2</sub>. " " 720' Surface plug 5 sax construction cement.

### (g) <u>Lost Circulation Zones</u>

When mudding up at  $824^{\circ}$  on the  $17-1/2^{\circ}$  surface hole, circulation was lost in the Eagle Plain Formation. Approximately 500 bbls. of mud was lost. After letting the hole heal for 6 hours the circulation was regained.

No other zone of lost circulation was encountered throughout the remainder of the hole.

### (h) Report of Blowouts

No kicks or blowouts.

A formation pressure breakdown test was run prior to running Plug #3 ( $869\,^{\circ}-769\,^{\circ}$ ) across the surface casing shoe at  $819\,^{\circ}$  K.B. The formation broke down at 400 psi and started to feed at 1/2 bbl. per minute with pressure increasing to 450 psi in 2 minutes. Instantaneous standing pressure at 450 psi remaining steady after 5 minutes. Mud weight was 9.3#/gal, and the viscosity was 50~sec./qt.

### SECTION IV - LOGS

The following Schlumberger logs were run on January 21-22, 1972.

Dual Induction Laterolog (3109' - 819')
B.H.C. Sonic/Gamma Ray/Caliper (3102' - 0)
Formation Density (Compensated) (-3104 - 1540)

Ran Century Geophysical velocity survey on January 22, 1972.

### SECTION V - ANALYSIS

- (a) <u>Core Analysis</u>

  Core analysis enclosed in back folder.
- (b) Water Analysis
  Water analysis enclosed in back folder.
- (c) <u>Gas Analysis</u>
  No gas analysis.
- (d) <u>0il Analysis</u>

  No oil analysis.

### SECTION VI - COMPLETION SUMMARY

(a) Tubing Record

No tubing run.

(b) Perforation Record

No perforations.

(c) Cementation Record

Abandonment Plug #1 (3109' - 2885')

Cemented with 130 sax of construction cement. Cement in place at 24:00 hours January 24, 1972.

Abandonment Plug #2 (2600' - 2500')

Cemented with 60 sax of construction cement plus 3% CaCl<sub>2</sub>.

Cement in place at 1:10 hours January 25, 1972.

Felt Plug #2 at 2491' at 10:30 hours January 25, 1972.

Abandonment Plug #3 (869' - 769')

Cemented with 90 sax construction cement plus 3% CaCl<sub>2</sub>.

Cement in place at 12:25 hours January 25, 1972.

Felt Plug #3 at 720' at 00:25 hours January 26, 1972.

Surface Plug - cut off casing at original ground elevation and cemented top of casing with 5 sax of cement. Welded on casing plate and well identifier sign.

(d) Acidization and Fracturing Record

No acidization or fracturing operations.

(e) Back Pressure and Production Tests

No back pressure or production tests.

**JOHNSTON** 

Schlumberger

technical report

# JOHNSTON TESTERS 321 500H AVENUE SE CALGARY 24 ALBERTA - PH 100 1001

A DIVISION OF SCHILLMBERGER ANADA CIMITEE

	TEST DA			TOOL SE	PRODUCT OF THE PROPERTY OF THE	
Formation	- page rate production and the state of the	Zone Thickness	F•	T. d.	Length	100
interval	25.21 To	2600 TD	3109	P.O. Sub	.90	1
Type of Test	Open Hole, St	traddle, Convent	ional	Sub	.90	1
Time Started in the		col Opened	0225	MFE Tool	9.10	
First Flow		utial Shut In	60 M	Bypass Tool	3,00	
Second Flow	- +	econd Shut In	wn !	Recorder	5.90	
	and the second s	ina-Shut in	90 Min 1	Safety Joint	1.75	+
Third Flow	and the same of th	,	0900	S.S. & Packer	9.20	7 3/4"
Pulled Lonse %		Out of Hole		and the second of the second o	and the second s	7 3/4"
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	for 12 minute	es then decreasi	ng to nil.	Stub	1.00	
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FLUID RECOVERY	Was Tell Reven	c Circulated Yes	88	Recorder	5.90	
Total Fluid Recover				Sub	.85	
Description of Flu			1	Drill Collars	62.80	4
Description of the		<i>c</i> 1 <i>t</i> 1		1	*	
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	250' mud cut	water.		Travel Collar	3.50	. 4:
				Total Interval	79.90	<b>4</b> 1 1 12 12 12 12 12 12 12 12 12 12 12 12
				Packer	2.90	7 3/4"
				T.C. & Packer	6.40	7 3/4"
				Blank off sub	.85	
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Measured With				Recorder	5,90	
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Recovery Water		+		" × 8 3/4"		
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	Chevron Standard				- 5th Ave.	
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# JOHNSTON TESTERS | 321 SOTH AVENUE | + CALCARY 24 ALBERTA + PH | 285 LIST

A CAISION OF SUB-MERRISH SAVADA SMITE

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INITIAL HY	OROSTATIC	A	1207#	121	1#	1285#		1 1 1 1 1 1 1 1 1 1 1 1	psig. at Surface
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JOHNSTON TESTERS 321 50TH AVENUE S.F. CALGARY 24 ALBERTA - PR- 198-1183

A ENVISION OF SCHEEMBERGER CANADA (ATTES

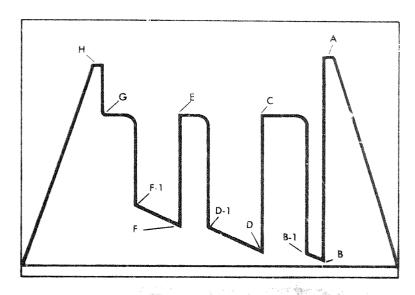
# GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS

FIELD REPORT NO

RECORDER NO.

D06583

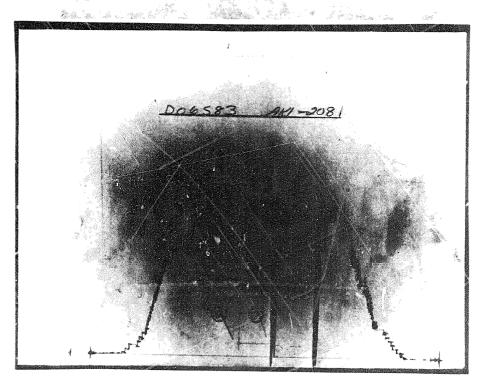
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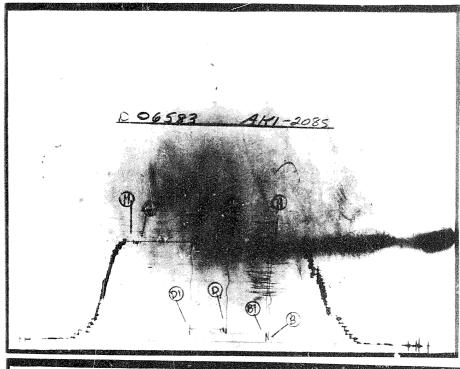


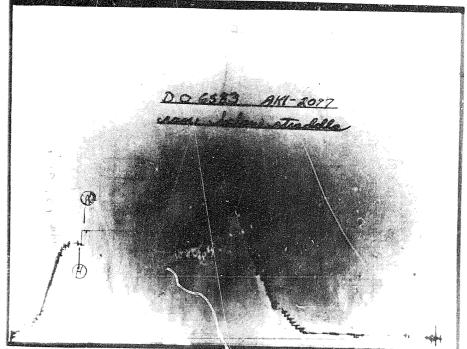
- A. Initial Hyd. Mud
- B. First Flow
- C. Initial Shut-In
- D. Second Flow
- E. Second Shut-In
- F. Third Flow
- G. Final Shut-In
- H. Final Hyd. Mud

The following points are either fluctuating pressures or points indicating other packer settings (testing different zones).

A-1, A-2, A-3, etc. Initial Hyd. Pressures Z — Special pressure points such as pumping pressures recorded for formation breakdown.







# CORE LABORATORIES - CANADA LTD.

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CORED INTERVAL 2536  CORE NO. 6 2536 - 2 2536.0-38.9 2.9 2538.9-40.4 1.5 2540.4-42.5 2.1 2542.5-44.0 1.5 2542.5-44.0 1.5 2544.9-45.9 1.9 2545.9-47.4 1.5 2549.2-50.2 1.0 2559.2-53.6 3.4 2559.7-61.3 1.6 2559.7-61.3 1.6 2569.0-69.6 2.0 2569.0-69.6 2.9 2577.5-79.9 2.4 2577.5-79.9 2.4 2585.0-96.0 11.0	INTERVAL REPRESENTED FEET DEPTH THICK	CHEVRON STANDARD CHEVRON SOBC WM WILDCAT, EAGLE PO NOR 137 58 58,00 WE
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SH & SHY  2.61 FS SHY  2.65 FS  2.65 FS  2.65 FS  2.63 FS SILTY  2.63 FS TO MS SILTY F  2.64 FS SILTY  2.65 FS TO MS SILTY  2.67 PYRITE FS SILTY  2.68 FS TO MS SILTY F  2.63 FS SILTY  2.65 FS SILTY  2.65 FS SILTY  2.67 FS TO MS SILTY F  2.68 FS SILTY F  2.68 FS SILTY F  2.69 FS SILTY F  2.69 FS SILTY F  2.60 FS SILTY F	VISUAL EXAMINATION	PAGE 1 OF 2 FILE 913-225 DATE REPORT JAN. 21/72 ANALYSTS SP, MH

# CORE LABORATORIES - CANADA, LTD.

Petroleum Reservoir Engineering

CHEVRON SOBC WM E. PINE CREEK YT 0-78

WELL:

FORMATION:

FILE: 913-225

PAGE: 2 OF 2

2596.0

2536.0 -

SUMMARY INTERVAL:

TOTAL: 29.3

FOOTAGE NOT ANALYZED:

FOOTAGE ANALYZED

TOTAL FOOTAGE:

SUMN OF ANAL

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\*NOT ANALYZED BY REQUEST

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Mg Fo		Total Solids Mg/L:  By Evaporation 1,645  Calculated  After Ignition 1,345  Pattern Unit Meq./L	.ox. /-	/g./L	Production: D.S.T. #1 RTJNENT DATA	Received: Jan.31,1972 Reported: Feb.18,1972 Operator: CHLVRON STANDARD LIMITED Flav. K.B. Grd Zone/Formation:
	Remarks and Conclusions Analysis determined recovered from mud.  Cl in evaporated total  C72-4305-1 Centre above.  HCO. Resistivity: 4.87	Specific Gra	1.27	SO <sub>4</sub> CI	Top of Tool	Well: Location: Chevron SOBC Wm. E. Pine Field or Area:
	Conclusions determined on clear colorless filt.ate from mud. Much organic matter detected cated total dissolved solids. Centre of Fluid. Description same as ty: 4.87 OHM-meters at 68°F.	Observed pH 9.1 @ 76 °F Resistivity 5.11 ohm meters @ 68 °F		CO <sub>3</sub> HCO <sub>4</sub>	led by: Johnston Testers LtdDaie: Jan.22,1972 (Signed)	YT-978

# CHEVRON STANDARD LIMITED BIT RECORD

F	FELL NAME MY ME AT SCOT OF THE COLOR K		Seace	N. W.		e con		CONTRACTOR		<i>3</i> /		Serecord		RIG No.	\ \(\gamma\)	<b>*I</b>		PUMP No I		£- 700	Š.		D.C		7203	
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