

DEPARTMENT OF NORTHERN AFFAIRS AND NATIONAL RESOURCES
RESOURCES DIVISION

WELL COMPLETION DATA

(To be submitted in duplicate within thirty days after the completion rework, abandonment, recompletion or suspension of every well.)

Well name and number CANADA SOUTHERN ET AL N BEAVER R YT I-27.

Permit No. 1007.

Lease No.

Canada Southern Petroleum Ltd.
(Permittee, Licensee, Lessee)

Exploratory Licence No. 903.

Dome Petroleum Limited
(Operator)

Exploratory Licence No. 908.

Location: Unit I

Section 27

Grid

124° 00' 00"
60° 10' 00"

Latitude 60° 06' 41.57"

Longitude 124° 03' 52.66"

From Established Reference Marker

YT/BC Bdy Mon. No. 594.

	DATE	DEPTH
Spudded	Mar. 24/63	Surface
Suspended	Apr. 13/64	14,495'
Resumed Completion Completing	Jul. 29/64	14,495'
Finished Logging	Sep. 21/64	12,204'
Deepened		
Complete (gas/)	Sep. 21/64	12,204'
Abandoned Shut In	Sep. 29/64	12,204'
Rig released.	Sep. 29/64	

Pool (s) Wildcat

Interval(s) open to production

12,162' - 12,204'

Elevation: Gr. 1429.35'

K.B. 1446'

Drilling Contractor & Rig No. Cascade Rig #19.

Contractor's Licence No. A-11809

CASING RECORD

Casing Size (Inches)	Weight	Amount	Set at	Sacks of Cement	Method
1. 13-3/8" Surface	48#	1,038'	1,025'	1000 + 2%	Ball
2. 9-5/8" Intermediate	40# & 47#		8,099'	1100 + 2%	Ball 4% Dis. Slurry
3. 7" Production	26# & 32#	12,174'	12,150'	400	
4. 5" Liner	15# & 18#	6,210	13,798	320 - 446	
5.					
6.					

GEOLOGICAL TOPS

ELEVATION

CORE RECORD

	ELEVATION		CORE RECORD					
	Depths	Sub-Sea	From	To	Rec.	From	To	Rec.
Glacial Drift	Surface	+ 1,446'						
Cretaceous	200'	+ 1,246'	12,591'	12,619'	28'			
Triassic	1,260'	+ 186'						
Permian Chert	2,320'	- 874'						
Permo-Penn Shale Unit	2,733'	- 1,287'						
Carboniferous Mattson Upper	2,898'	- 1,452'						
" " Lower	4,855'	- 3,409'						
Mississippian Flett	5,990'	- 4,544'						
" Clausen	7,372'	- 5,926'						
" Yehin	8,150'	- 6,704'						
Upper Devonian Limestone & Shale	8,835'	- 7,389'						
Middle Devonian 1st Black Shale	10,657'	- 9,211'						
Grey Shale	11,050'	- 9,604'						
2nd Black Shale	11,869'	-10,423'						
Arnica Dolomite	12,160'	-10,714'						
T.D. Driller	14,495'	-13,049'						

LOG RECORD

Run No.	Type of Log	From	To
6 Runs	Induction E Log	1,023'	14,498'
1 Run	Gamma Ray Neutron	12,156'	14,077'
1 Run	Micro Log Caliper	1,022'	8,097'
4 Runs	Gamma Sonic & Caliper	1,023'	12,929'
1 Run	Laterolog	12,156'	14,074'
2 Runs	Continuous Dipmeter	8,099'	12,204'
3 Runs	Directional Log	1,023'	12,204'
2 Runs	Cement Bond Log	9,970'	12,076'

CEMENTING RECORD (Plug, Squeeze, etc.)

PERFORATING RECORD (Bullet, Jet)

SERVICING RECORD (Acidizing, Fracing, etc)

Date	From	To	Remarks	Date	From	To	Remarks	Date	From	To	Remarks
Jan. 16/64	11,935'		Cement Squeeze for additional pipe to wall bend/100 sks.	Jan. 15, 1964	11,935'		Perforated with 5-way jet.	Feb. 16	11,900'	12,591'	Fed 5500 gals. X 2800 psi @ 5.2 bpd & high temp. added Fed 2000 gals. 1 @ 4100-4300# @ Fed 2000 gals. Formation broke @ 4300# Fed 2000 gals. 1 @ 3300#, 3-3/4 bbl Fed 4000 gals. Fed 12,180 gals. average feed rate 10,000 gals. Fed 10,000 gals. X feed rate 2 b.p.
	11,935'	13,744'		Mar. 30, 1964	12,162	13,744'	Perforated with 4 shots per foot. Total of 238 perforations.	Apr. 6	13,770'	14,495'	
				Apr. 2, 1964				Apr. 7	12,858'	13,770'	
								Apr. 8	12,207'	12,858'	
								Sep. 10	12,162'	12,204'	
								Sep. 11	12,163	12,204	
								Sep. 19	12,162'	12,204'	

DRILL STEM TESTS

No.	Date	Formation	From	To	V.O. Mins.	I.S.I. Mins.	F.S.I. Mins.	I.S.I.B.H.P.	F.S.I.B.H.P.	I.F.B.H.P.	F.F.B.H.P.	I.H.P.	F.H.P.	REMARKS
1.	1963 Jun. 18	Lower Miss. Matteson	4,458'	4,616'	60	30	60	2311	2315	146	309	2717	2717	Recovered 900' drilling fluid
2.	Jun. 18 1964	" "	4,486'	4,616'	60	30	60	2311	2315	146	309	2717	2717	Recovered 500' drilling fluid
3.	Jan. 27	Mahanni	11,865'	12,226'	112	37	85	6534	5785	4832	5315	7607	Not recorded.	Tool plugged. Misrun.
4.	Feb. 4	Nahanni	12,150'	12,506'	180	30	120	5721	5435	3966	4656	7538	7510	Rec. 3500' gassy fresh water muddy fresh water. R.H.T. 31
5.	Mar. 4	Nahanni	12,630'	12,935'	180	35	120	4382	4158	2662	2757	6903	6879	Rec. 5010' drilling fluid & cushion. B.H.T. 320. Misrun. Hydraulic opening at 5000' gas cut mud. R.H.T. 314. Misrun. Packer seat failed.
6.	Mar. 7	Nahanni	12,656'	13,084'	180	35	120	4382	4158	2662	2757	6903	6879	Rec. 5010' drilling fluid & cushion. B.H.T. 320. Misrun. Hydraulic opening at 5000' gas cut mud. R.H.T. 314. Misrun. Packer seat failed.
7.	Mar. 9	Nahanni	12,679'	13,143'	180	35	120	4382	4158	2662	2757	6903	6879	Rec. 5010' drilling fluid & cushion. B.H.T. 320. Misrun. Hydraulic opening at 5000' gas cut mud. R.H.T. 314. Misrun. Packer seat failed.
8.	Mar. 20	Nahanni	13,812'	14,058'	180	35	120	4382	4158	2662	2757	6903	6879	Rec. 5010' drilling fluid & cushion. B.H.T. 320. Misrun. Hydraulic opening at 5000' gas cut mud. R.H.T. 314. Misrun. Packer seat failed.

Lab. No.	Sample	From	To	Source	Remarks	PRESENT STATUS OF WELL			
						Oil	Gas	Dry	Susp.
CBH - 2GA 1127	Gas	12,162'	12,204'	Flow Test	Nitrogen 0.82 CO ₂ 1.78 Hydrogen Sulfide 0.06 Methane 97.12 Ethane 0.22 Heating Value 984.6 @ 14.65		Shut-In		
							12,162'-12,204'		

Company: DOME PETROLEUM LIMITED
 Signed by: *[Signature]*
 Title: Field Sup't.
 Date: January 27th, 1965.

Forms to be prepared in duplicate and forwarded to Conservation Engineer, Calgary, Alberta.

See Attached Sheet for Additional Analysis.