



Drilling Authority No. 431  
Date Issued March 18, 1970

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT  
RESOURCE MANAGEMENT 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 WESTERN MINERALS N HOPE YT N - 53  
Permit No. 3330 Lease No. \_\_\_\_\_  
Western Minerals Ltd. Exploratory Licence No. 1653  
(Permittee, Licensee, Lessee)  
Western Minerals Ltd. Exploratory Licence No. 1653  
(Operator)

Location: Unit N Section 53 Grid 66° 40' N & 138° 15' W  
Latitude 66° 32' 54" N Longitude 138° 25' 30" W  
From Established Reference Marker 2600' S of SP 112 on Seis. Line 3  
Universal Well Location Reference Lat. 66.54833° N, Long. 138.42500° W

	DATE	DEPTH	Pool(s)
Spudded	Apr. 18/70		Interval(s) open to production
Suspended			
Resumed Operations			
Finished Drilling	Aug. 4/70	14,043' Driller	
Deepened		14,038' Logger	Elevation: Gr. 1136' K.B. 1150'
Complete (gas/oil)			Rig No. 1
Abandoned	Aug. 13/70		Drilling Contractor Nabors Drilling Limited
Rig released	Aug. 13/70		Contractor's Business Licence No. N/A

CASING RECORD

Casing Size (Inches)	Grade	Weight	Amount	Set at -	Sacks of Cement and Additives
1. 20"	H-40	94#	90'	90' K.B.	320 sack Fondu Cement
2. 13 3/8"	K-55	54.5#	1508'	1522' K.B.	1200 sack Fondu Cement + 1% NaCl in 600 sacks
3.					
4.					
5.					
6.					

GEOLOGICAL TOPS	ELEVATION		CORE RECORD					
	Depths	Sub-Sea	From	To	Rec.	From	To	Rec.
Cretaceous	Spudded	in	14,037'	14,043'	1.5'			
Dev/Bituminous Sh.	5966'	-4816						
Middle Devonian	6061'	-4911						
Silurian	8952'	-7802						
Ordovician	10,043'	-8893						

LOG RECORD

Run No.	Type of Log	From	To
	See Attachment		



LOG RECORD

<u>Date Run</u>	<u>Run #</u>	<u>Type</u>	<u>Scale and Interval</u>
June 16	1	I.E.S.	2" - 1522' - 8071' 5" - 5960' - 8071'
" "	1	Sonic	2" - 1522' - 8059' 5" - 5960' - 8059'
" "	1	Caliper	2" - 1522' - 8060' 5" - 5020' - 8060'
" 17	1	Dipmeter	5" - 1522' - 8048'
" "	1	Directional	5" - 1522' - 8049'
July 22	2	I.E.S.	2" - 7800' - 13,234 5" - 7800' - 13,234
" "	2	Sonic	2" - 7800' - 13,233 5" - 7800' - 13,233
" 23	2	Directional	5" - 8100' - 13,235
Aug. 4	3	I.E.S.	2" - 8000' - 14,030 5" - 8000' - 14,030
" 4	3	Sonic	2" - 13,013' - 14,013 5" - 13,013' - 14,013
" 4	2	Dipmeter	5" - 7,900' - 14,026
" 4	3	Directional	5" - 13,300' - 14,027
" 5	1	SNP	2" - 8700-11,200; 11,600-12,000; 12,700-14,013 5" - " " " " " "
" 5	1	Density	2" - 8700-11,200; 11,600-12,000; 12,700-14,014 5" - " " " " " "



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
9. 9	10,700	10,800	80 sax + 2% retarder Felt at 10,592'. Polished off to 10,608'								
10	8,100	8,200	75 sax + 2% CaCl <sub>2</sub> Felt at 8,074'								
11	6,000	6,100	75 sax + 2% CaCl <sub>2</sub> Felt at 5947'								
11	3,900	4,100	130 sax + 5% sand & 2% CaCl <sub>2</sub> , Felt @ 3840' Polished to 3846'								
12	1,475	1,575	110 sax. Felt @ 1420'								
13	Surface 5 sack plug & steel plate identification marker erected.										

DRILL STEM TESTS

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.P.B.H.P.	I.H.P.	F.H.P.	REMARKS
June 15	Mid Devon.	8050'	8120'	Misrun	60	None	3589	-	Plugged	3788	3810	WIP, dead in 7'. WAB, dead in 5'. Rec. 1000' fluid; 800' H <sub>2</sub> O Cushion, 200' mud
" 19	"	8220'	8300'	20								
Aug. 5	Ordovician	10,845	10,970	Missed - crooked			3802	3915	Plugged	5447	5119	SAB, dead in 10'. SAB, dead in 20'. Rec. 3590' fluid; 3040' cushion, 100' MW, 450' sl GCM. Misrun - no flow period, crooked
" 8	"	10,845	10,970	60		78	No run	4704	4136	5249	5249	WAB, stdy thru. NGTS. Rec. 8055' fluid; 2' MW, 3490' sl GCM cushion, 2560' sl GCM, 1730' sulphurous WM
" 10	Silurian	9,685	9,930	Misrun	60	30	15	8	13	1889	-	WIP, WAB, dead in 11'. Rec. 2' drlg. mud
" 12	Cretaceous	3,812	3,824	15								

ANALYSIS

Lab. No.	Sample	Formation		Source	Remarks	PRESENT STATUS OF WELL						
		From	To			Oil	Gas	Dry	Susp.			
1-2316	Gas	10,845	10,970	D.S.T. #3								
245-4	Water	"	"	"	above tool							
245-3	"	"	"	"	450' above tool							
	"	"	"	"	7590' above tool				X			

Company Western Minerals Ltd.  
 Signed by [Signature]  
 Title Manager  
 Date 23 Sept. 70

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