

- W. 38 -  
**WESTERN GEO-ENGINEERS**

REGISTERED GEOLOGISTS

WOODLAND MAILING ADDRESS  
 420 W. Southwood, Woodland, CA 95695

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(1)

**WELL SUMMARY REPORT**

Operator NORTHWEST EXPLORATION COMPANY Well No Sawyer Rapids #1 API No 36-019-00013

Sec 3 T 23S R 9W W. B. & M., Wildcat - Loon Lake Field, Douglas County.

Location 2099' S (ENL) & 250' W (ENL): Sec. 3  
(Give surface location from property or section corner, or street center line and/or Lambert coordinates)

Elevation of ground above sea level 400 feet.

All depth measurements taken from top of Kelly Bushing which is 12 feet above ground.  
(Derrick Floor, Rotary Table or Kelly Bushing)

Date 5/31/80

Signed Jack E. Napper

George L. Converse  
(Engineer or Geologist)

Title Geologist #3037

Commenced drilling 4/12/80  
 Completed drilling 5/28/80  
 Total depth (1st hole) 5562' (2nd) \_\_\_\_\_ (3rd) \_\_\_\_\_  
 Present effective depth A/A  
 Junk None

GEOLOGICAL MARKERS	DEPTH
<u>Tyee (Baughman member)</u>	<u>Top 238'</u>
<u>(Hubbart Crk mb)</u>	<u>490'</u>
<u>(Tyee Mtn member)</u>	<u>846</u>
<u>Flournoy</u>	

Formation and age at total depth Flournoy-Eocene

Commenced producing \_\_\_\_\_ Flowing/gas lift/pumping \_\_\_\_\_  
(Date) (Cross out unnecessary words)

Name of producing zone \_\_\_\_\_

Initial production \_\_\_\_\_  
 Production after 30 days \_\_\_\_\_

Clean Oil bbl. per day	Gravity Clean Oil	Per Cent Water including emulsion	Gas Mcf. per day	Tubing Pressure	Casing Pressure

**CASING RECORD (Present Hole)**

Size of Casing (A. P. L.)	Depth of Shoe	Top of Casing	Weight of Casing	Grade and Type of Casing	New or Second Hand	Size of Hole Drilled	Number of Seams or Cracks Feet of Cement	Depth of Cementing if through perforations
<u>9 5/8"</u>	<u>682'</u>	<u>G.L.</u>	<u>36</u>	<u>ST&amp;C JK-55</u>	<u>N</u>	<u>12 1/2"</u>	<u>190s'ks</u>	

**PERFORATED CASING**

(Size, top, bottom, perforated intervals, size and spacing of perforation and method.)

Was the well directionally drilled? No If yes, show coordinates at total depth \_\_\_\_\_

Electrical log depths Sonic, DIL, Dipmeter other surveys \_\_\_\_\_  
 From TD to shoe,  
CNL-FDC-GR-Caliper from TD-surface.