

SEISMIC SURVEY REPORT

on the

TRAINOR LAKE AREA

on

Permit Nos. 3581, 3582, 3584, & 3585

In the Northwest Territories

Date Start: January 8, 1968

1-6-469-1

OUT

1-6-4-25



SEISMIC SURVEY REPORT

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TRAINOR LAKE AREA

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Permit Nos. 3581, 3582, 3584, & 3585

In the Northwest Territories

Date Start: January 8, 1968

Date Finish: March 16, 1968

Date of Report: April 23, 1968

Author: R. W. Cook

PROSPECT: TRAINOR LAKE

PARTY: Company/Number - Amerada Petroleum Corporation,
Party #7

PARTY CHIEF: Mr. R. W. Cook

ROUTE OF ACCESS:

Two routes were used. First route - Turn off McKenzie Highway 3 miles North of Steen River, Alberta, proceeded through Cameron Hills Area, North of Bistcho Lake, crossed Petitot River at Spawn Lake 80 miles from turn off. Then went to Dogface Lake and then 27 miles to first campsite. This route was abandoned due to long portion which Party #7 would have to maintain alone and second route led to airstrips. High Level to first campsite - 255 miles.

Second route - Turn off McKenzie Highway 9 miles North of Meander River, Alberta at the B-A Road. Went through Zama City, proceeded 25 miles to Mobil Airstrip (Bistcho Lake Area). Then 23 miles to Petitot River. Then 30 miles to NWT border. Then 60 miles from border to first campsite. High Level to first campsite - 238 miles.

DATES:

Start Move: January 2, 1968 from Williston, No. Dak.
Arrive Prospect: January 7, 1968
1st Shot: January 8, 1968
Last Shot: March 16, 1968
Move Out (Start/Fin.): March 17, 1968/March 20, 1968
to Williston, North Dakota

EXPERIMENTAL WORK:

Expanded Spread(s) (Location):

Line 7X-206	310E (8000-4000)
	330E (4000-0)
	350W (0-4000)
	370W (4000-8000)

Noise Spread (Location):

Line 7X-206	310E (2400-2000)
	310E (2800-2400)
	358W (2000-2400)
	358W (2400-2800)

Other (Location):

Comparison between EG-7 Geos 10/trace and HS-1
Geos 6/trace

Line 7X-209	280E
	320W

(No significant difference observed.)

SURVEYING:

Instrument: K & E Alidade Self Indexing

Tied to Control:

Horizontal: 34th Base Line

Vertical: 34th Base Line

Closures: Distance within 50'. Elevations within less than a foot. Lines which extended along distance from a tie point on extreme end, possibly could have small error in horizontal and vertical control at the extreme end.

Problems: Erratic changes in Magnetic Declination.

PRODUCTION SHOOTING:

Date Start: January 10, 1968

Spread: 0 - 4000'

Geophones: Make/Model: GRC EG-7
Groups in Spread: 21
No./Spacing per Group: 10/20'
Natural Frequency: 32 cps

Shotpoints: Interval/Percent Coverage: 1000'/400%

Shotholes: No./Pattern & Spacing: 1 & 2/80'

Average Depth: 45'

RECORDING:

Amplifiers:

Make & Model: GRC Ga-45
Analog or Digital: Analog
A.M. or F.M.: A.M.

Filters:

Monitor: 8-H No first break filter
Playback: 20-55 (Only made to check instruments.)
Proportion of Playbacks: 25%
Percent Mix if any: None

Tape System:

Make & Model: Fortune, SR-5
Tape Specifications:

Cables:

Number & Length: 3 - 2000', 1 - 2000' extension
cable
Portable or Land: Land
Takeouts/Trace: 10

DOZING:

Contractor: Kings' Construction (Grimshaw)
Box 318
Grimshaw, Alberta

Equipment:

No. of Machines: 2

Size: D-6C

Grid:

New Cut: 96 Miles

Old Line: 73 Miles

Remarks & Problems:

Day and Night shifts were used. As long as program was balanced between old and new lines, dozers were able to stay ahead.

