



**FRACTURING AND CHEMICAL SERVICES
SERVICE REPORT**

ATTACH TO 64544
INVOICE NO.

HALLIBURTON DISTRICT
Fort St. John

JOB DATE December 1 1977
MONTH DAY YEAR

OWNER, OPERATOR OR HIS AGENT STATES THE WELL IS IN CONDITION FOR THE SERVICE JOB TO BE PERFORMED AND SUBMITS THE FOLLOWING DATA:

CUSTOMER COLUMBIA GAS DEVELOPMENT OF CAN. LTD.		FIELD OR AREA Kotaneelee		WELL NO. AND LEASE H-38 Columbia et al Kotaneelee	
5:00 pm	DATE TIME	6:00 pm	DATE TIME	1:30 pm	DATE TIME
CALLED OUT		ON LOCATION		JOB STARTED	
8:00 pm		DATE TIME		DATE TIME	
JOB COMPLETED			PROVINCE		
Yukon			N60° 07' 16" W124° 06' 03"		

WELL OR HOLE DATA

FORMATION Nahannie		DATE CASING SET		MAX ALLOWABLE PRESSURE: TBG 9,500 CSG	
TUBING: OD 4 1/2"	WT 12.75	DEPTH 11,536	CAPACITY: TBG 173.5 ANNULUS CSG/OPEN HOLE 1.2		
CASING: OD 7"	WT 32.00	DEPTH 8,897	PERFORATIONS: FROM 11,641 TO 11,900 SHOTS/FT 2.0		
LINER: OD	FROM	TO	FROM TO SHOTS/FT		
PACKER: TYPE Baker Model "D"	SET AT 11,536	FROM TO SHOTS/FT			
TREAT THRU: TBG <input checked="" type="checkbox"/>	ANNULUS <input type="checkbox"/>	CSG <input type="checkbox"/>	TBG/ANNULUS <input type="checkbox"/>	OPEN HOLE: SIZE FROM TO	

MATERIALS USED

FLUID: TYPE 15% HCl	FLUID: TYPE Diesel
(1) GAL 17,000	(3) GAL 7,560
ADDITIVES: TYPE HAI-75	GAL OR LBS PER 1000 GAL 25
Pen-6	5
(2) Fluid Water	7,560
Suds	2 1/2
PROP AGENT (1) TYPE _____ MESH _____ LB _____	
(2) TYPE _____ MESH _____ LB _____	
PROP CONC. LB/GAL (1) MAX _____ MIN _____ AVE _____	
(2) MAX _____ MIN _____ AVE _____	
DIVERTING AGENT: TYPE _____ AMOUNT _____	

TREATMENT SUMMARY

HYDRAULIC HORSEPOWER: AVAILABLE 1400	USED 1400
INJECTION RATES (BPM)	
TREAT 6	DISPLACE 6 AVERAGE 6
PRESSURES (PSI):	
BREAKDOWN: FROM _____ TO _____	
MAX TREAT 6100	MIN TREAT 2500 DISP 3000
INSTANTANEOUS SHUTIN _____	15 MIN 1100
FLUID VOLUMES (BBL):	
TOTAL ON LEASE BEFORE JOB	176
FILL HOLE	
BREAKDOWN AND PAD	
TREATING FLUID (1)	104
TREATING FLUID (2)	180
FLUSH FLUID (3)	180
TOTAL FLUID INJECTED	
TOTAL ON LEASE AFTER JOB	

HALLIBURTON OPERATOR **N. Bruce F. Ray**

SUMMARY OF PLANNED TREATMENT **Pressure test lines to 10,000 P.S.I. Pump 24 barrels of 15% HCl flush with 180 barrels of water, pump 25 barrels of 15% HCl, run 280 balls, one every minute. Pump remainder of acid, flush with 180 barrels of Diesel.**

TREATING LOG

CHART POSITION	TIME	RATE (BBL./MIN.)	VOLUME (BBL.)		PRESSURE (PSI)		REMARKS
			PUMPED	INFORMATION	TUBING	CASING	
	1:30						Pressure test lines to 10,000 P.S.I.
1	2:36				4500		Start acid
2	2:49	2	24		4500	2000	Start flush
3	3:38	6	149		3100	1500	Hole full
4	3:39	6	3	3	3200	1500	Acid at perforations

