Los Alamos

Los Alamos National Laboratory
Los Alamos, New Mexico 87545

memorandum

TO: Distribution
FROM: Robert Hendron, John Schillo and Bert Dennis
SYMBOL: ESS-4-85-267
SUBJECT: EXPERIMENT 2063 STRING SHOT EE-3A SEPTEMBER 30 THRU OCTOBER 2, 1985

DATE: September 26, 1985
MAIL STOP/TELEPHONE: J981/4318

Present Conditions of EE-3A Well:

The last experiment #2062 which was packer and cross flow test between and EE-3A and EE-2 wellbore was successfully completed on 7-21-85. The EE-3A well was then shut in to monitor pressure decay; vented, packer removed and finally temperature logged from 9000 ft to 12551 to confirm fracture fluid entrance points in the wellbore. After logging operations were completed the sand plug was circulated from the wellbore to a depth of 13000 ft. EE-3A was then shut in and the rig released to standby-secured on 7-26-85.

The EE-3A well presently shows no surface pressure and has shown no pressure at surface since it was shut in on 7-26-85. We have no estimate as to what depth the fluid level is or what percent gas may be present in the wellbore. The well had been treated with corrosion inhibitor prior to shut-in and the inhibitor should still be in wellbore.

Start up procedure for experiment 2063 (Seismic Calibration):

Big Chief Rig #47 will need at least 1/2 day. It is anticipated that about 3 days of rig time, day light hours only, will be required to complete the experiment, at which time the rig will again be furloughed to standby.

Experiment Procedure:

Monday, September 30

1. Check out of Precambrian Net and DAT Recording System.
2. Deployment of triaxial geophone package in EE-1 and set up of Biomation/Recording System.

Tuesday, October 1

1. Rig up 9 5/8 pressure lock with pumping head and proper assembly for Bowen Pack off on EE-3A.

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2. Fill EE-3A wellbore with fluid
3. Rig up logging Unit (PFA cable), sheaves and string shot tool with Bowen pack off
4. Fire bridge wires and check firing unit and fire signals through DAT
5. Hang string shot tool above wellhead and load explosives according to SOP (150 grams).
6. Trip in hole to sand plug (approx. 13000 ft) - pull up 20 ft.
7. Fire string shot and check signals recorded in DAT
8. Retrieve string shot tool
9. Examine recorded signals
10. Examine string shot tool
11. Will make decision based upon data and condition of tool and cable head to repeat string shot with 200 grams on following day Wednesday, October 2.

Running explosive charge and detonation:

SOP shall be followed in all respects.

1. All noise on site such as vehicles, engines, etc should be suspended during running and detonation.
2. No visitors should be allowed on site.
3. Radios and electrically activated equipment should be shut off during test.
4. Only personnel designated by Jim Johnson and Steve Koczan will be allowed on rig floor during handling of explosives.

NOTE: DAT set up for biotation times described in memo by Mike Fehler and Leigh House, ESS-4-85-250.