

COMPANY NORTHWEST EXPLORATION COMPANY
 WELL Sawyer Rapids #1

- W E G E -
WESTERN GEO-ENGINEERS
 GEOLOGISTS

PAGE NO. 1

BIT RECORD

| NO. | SIZE | MAKE | TYPE | JET SIZE | SERIAL NO. | FOOTAGE | | | | CONDITION | | WT/M# | PUMP PRES | REMARKS |
|-----|--------|-------|------|----------------|------------|---------|-------|------|---------|-----------|-------|--------|-----------|--|
| | | | | | | FROM | TO | FEET | HOURS | T-B-G | OTHER | | | |
| 1 | 12½" | Smith | DSJ | 10/16/16 32 | BB0483 | 40' | 157' | 117' | 26hrs | | | ----- | 800 | |
| 2 | 12½" | Smith | F3 | 12/12/12 32 | AN 4799 | 157' | 687' | 530' | 63½hrs | | | | 500 | Run casing @ 687', shoe @ 682' |
| 3 | 8 3/4" | Smith | DTJ | 11/11/11 32 | AP 3188 | 687' | 1214' | 527' | 53½hrs | | | 20,000 | 500 | |
| 4 | 8 3/4" | Smith | F 5 | 11/11/11 32 | AL 1490 | 1214' | 1787' | 573' | 54 hrs | 6-6-1 | | 22,000 | 800 | |
| 5 | 8 3/4" | Smith | F 3 | 10/10/9 32 | AP 1624 | 1787' | 2747' | 960' | 109hrs | | | 28,000 | 1300 | |
| 6 | 8 3/4" | HTC | J 44 | 10/10/9 32 | RV 447 | 2747' | 3370' | 524' | 87hrs | | | 28,000 | 1500 | |
| 7 | 8 3/4" | Smith | F 3 | 10/10/9 32 | BB 5630 | 3370' | 4305' | 935' | 124½hrs | | | 28,000 | 1500 | |
| 8 | 8 3/4" | Smith | F 2 | 10/10/9 32 | BA 9421 | 4305' | 4883' | 579' | 109hrs | | | 28,000 | 1500 | lost DC'S in hole, fish. |
| 9 | 8 3/4" | Smith | F 3 | 10/10/9 32 | BB 5627 | 4883' | 5260' | 377' | 59hrs | | | 28,000 | 1500 | lost 2½ stds pipe, DC'S, & bit in hole, fish. |
| 10 | 8 3/4" | Smith | F 3 | 10/10/9 32 | BA 9321 | 5260' | 5267' | 7' | 5hrs | | | 28,000 | 1500 | Twisted off, @ 5443', fish, cond mud, run Schlumberger |
| 11 | 8 3/4" | Smith | F 3 | 10/10/9 32 | BB 1964 | 5267' | 5562' | 295' | 45hrs | | | 35/40 | 1500 | |