

Exhibit II-A

FORM 154-B

# SCHLUMBERGER

## WELL SURVEYING CORPORATION

### Location of Well

1980' FSL & 660' FEL  
SEC/ 28 98-36E

COMPANY: MANOLITA PETROLEUM CO.

CASE N 2354

WELL: SANTA FE B #1

FIELD: CROSSROADS

LOCATION: SEC. 28 98-36E

COUNTY: LEA

STATE: NEW MEXICO

FILING No.

COUNTY: LEA  
FIELD OR LOCATION: CROSSROADS  
WELL: SANTA FE B #1  
COMPANY: MANOLITA PETROLEUM CO.

BEFORE EXAMINER NUTTER

OIL CONSERVATION COMMISSION

EXHIBIT NO. 2-A

CASE NO. 2354

Elevation: D.F.:

K.B. 4047

or G.L.:

| RUN NO.            | II          | III           |            |            |            |
|--------------------|-------------|---------------|------------|------------|------------|
| Date               | 6-25-49     | 7-12-49       |            |            |            |
| First Reading      | 9508 9508   | 9885 9885     |            |            |            |
| Last Reading       | 6190 6190   | 9508 9508     |            |            |            |
| Footage Measured   | 3318 3318   | 377 377       |            |            |            |
| Csg Shoe Schlum.   | 6187        | 9508          |            |            |            |
| Csg Shoe Driller   | 6192        | -             |            |            |            |
| Max. Depth Reached | 9511        | -             |            |            |            |
| Bottom Driller     | 9510        | 9888          |            |            |            |
| Depth Datum        | R. T.       | 9888          |            |            |            |
| Mud Nature         | Zeogel      | Zeogel        |            |            |            |
| " Density          | 10.2        | 10.3          |            |            |            |
| " Viscosity        | 39          | 50            |            |            |            |
| " Resistivity      | Sat. @ Salt | 0.035 @ 78 °F | @ °F       | @ °F       | @ °F       |
| " Resistivity BHT  | @ °F        | @ °F          | @ °F       | @ °F       | @ °F       |
| " pH               | @ °F        | @ °F          | @ °F       | @ °F       | @ °F       |
| " Water Loss       | CC/30 Min.  | CC/30 Min.    | CC/30 Min. | CC/30 Min. | CC/30 Min. |
| Maximum Temp. °F   | 202         | 204           |            |            |            |
| Bit Size           | 8 3/4"      | 8 3/4"        |            |            |            |
| Spacings - AM      | 10"         | 10"           |            |            |            |
| A                  |             |               |            |            |            |
| AO                 | 32"         | 32"           |            |            |            |
| E.S. Rig Time      | 6 1/2 hours | 6 1/2 hours   |            |            |            |
| Truck No.          | 277         | 277           |            |            |            |
| Recorded By        | Cargill     | Cargill       |            |            |            |
| Witnessed By       |             |               |            |            |            |

### REMARKS

II. WL = 25

III. WL = 4

Spontaneous-Potential

DEPT

Resistivity

# SCHLUMBERGER WELL SURVEYING CORPORATION

HOUSTON, TEXAS



## Electrical Log

|                                                                                                                               |                                        |                                                   |
|-------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|---------------------------------------------------|
| COUNTY <u>Lea</u><br>FIELD or<br>LOCATION <u>Crossroads</u><br>WELL <u>Santa Fe # 1-E</u><br>COMPANY <u>Magnolia Pet. Co.</u> | COMPANY <u>MAGNOLIA PET. CO.</u>       | Location of Well                                  |
|                                                                                                                               | CASE No. <u>2354</u> <u>Exh. III-A</u> | 660' fr N/L<br>1980' fr E/L<br>Sec. 29-9S-36E     |
|                                                                                                                               | WELL <u>SANTA FE # 1-E</u>             | ES, GRL<br>(ML)                                   |
|                                                                                                                               | FIELD <u>CROSSROADS</u>                | Elevation: D.F.: <u>4068</u><br>K.B.:<br>or G.L.: |
|                                                                                                                               | LOCATION <u>SEC. 29-9S-36E</u>         |                                                   |
|                                                                                                                               | COUNTY <u>LEA</u>                      |                                                   |
|                                                                                                                               | STATE <u>NEW MEXICO</u>                | FILING No.                                        |

| RUN No.        | I                | II             |            |            |            |
|----------------|------------------|----------------|------------|------------|------------|
| Date           | 3-3-53           | 3-14-53        |            |            |            |
| First Reading  | 9453             | 9588           |            |            |            |
| Last Reading   | 4249             | 9453           |            |            |            |
| Feet Measured  | 5204             | 135            |            |            |            |
| Csg. Schlum.   | 4249             | 4249           |            |            |            |
| Csg. Driller   | 4250             | 4250           |            |            |            |
| Depth Reached  | 9456             | 9591           |            |            |            |
| Bottom Driller | 9460             | 9597           |            |            |            |
| Depth Datum    | KB 10' abv. G.L. |                |            |            |            |
| Mud Nat.       | Salt Gel         |                |            |            |            |
| " Density      | 10.2             | 9.9            |            |            |            |
| " Viscosity    | 52               | 70             |            |            |            |
| " Resist.      | 12 @ 56°F        | 08 @ 57°F      | @ °F       | @ °F       | @ °F       |
| " Res. BHT     | 045 @ 147°F      | 031 @ 149°F    | @ °F       | @ °F       | @ °F       |
| " pH           | NA @ °F          | NA @ °F        | @ °F       | @ °F       | @ °F       |
| " Wtr. Loss    | 7.2 CC 30 min.   | 8.2 CC 30 min. | CC 30 min. | CC 30 min. | CC 30 min. |
| Max. Temp. °F  | 147              | 149            |            |            |            |
| Bit Size       | 7 7/8"           | 6 3/4-4 3/4"   |            |            |            |
| Spcgs.—AM      | 10"              | 10"            |            |            |            |
| AO             | 32" LS           | 32" LS         |            |            |            |
| AO             | 19' Lat          | 19' Lat        |            |            |            |
| Opr. Rig Time  | 5 Hrs.           | 1 1/2 Hr.      |            |            |            |
| Truck No.      | 1724-Ros         | 1724-Ros       |            |            |            |
| Recorded By    | Wilson           | Wilson         |            |            |            |
| Witness By     | Upp              | Upp            |            |            |            |

BEFORE EXAMINER NUTTER  
OIL CONSERVATION COMMISSION  
EXHIBIT NO. III A  
CASE NO. 2354