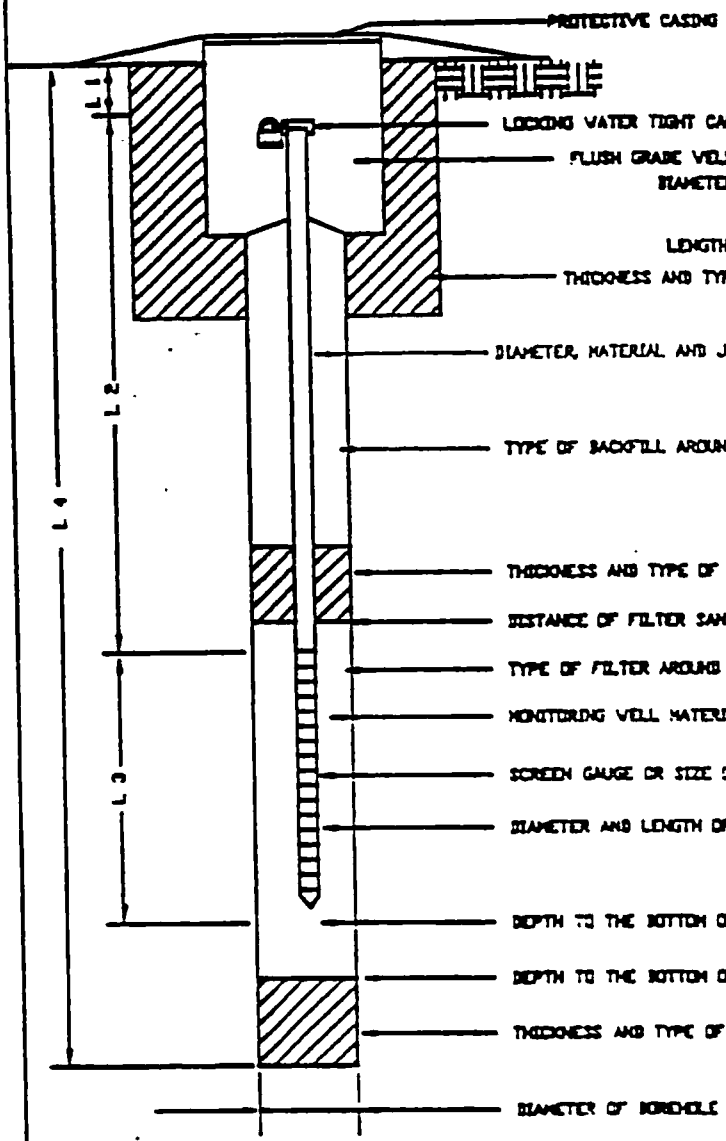
# INSTALLATION OF FLUSH GRADE MONITORING WELL

PROJECT: Orangevale Beacon #685
9301 Greenback Lane, Orangevale, CA

DELTA NO. 40-89-064

MONITORING WELL NO. MW-2

ELEVATIONS: TOP OF RISER 268.52
GROUND LEVEL 268.81




| | |
|---|---|
| LOCKING WATER TIGHT CAP | |
| FLUSH GRADE WELL CONSTRUCTION | |
| DIAMETER AND MATERIAL | 14-inch steel |
| TOTAL LENGTH | 10 inches |
| LENGTH ABOVE GROUND | 1/4 inch |
| THICKNESS AND TYPE OF SEAL | 18-inch concrete |
| DIAMETER, MATERIAL AND JOINT TYPE OF RISER PIPE | 4-inch PVC<br>Flush-threaded |
| TYPE OF BACKFILL AROUND RISER | Cement with 5% bentonite |
| THICKNESS AND TYPE OF SEAL | 2-feet bentontie |
| DISTANCE OF FILTER SAND ABOVE TOP OF SCREEN | 2 feet |
| TYPE OF FILTER AROUND SCREEN | #3 Lonestar |
| MONITORING WELL MATERIAL | Schedule 40 PVC |
| SCREEN GAUGE OR SIZE OF OPENINGS (SLOT SIZE) | 0.010 inch |
| DIAMETER AND LENGTH OF SCREEN | 4 inch X 20 feet |
| DEPTH TO THE BOTTOM OF MONITORING WELL | 60 feet |
| DEPTH TO THE BOTTOM OF FILTER SAND | 60 feet |
| THICKNESS AND TYPE OF SEAL | N/A |
| DIAMETER OF BOREHOLE | 10 inches |

L 1 = 0.25 FT.
L 2 = 39.75 FT.
L 3 = 20 FT.
L 4 = 60 FT.

INSTALLATION COMPLETED:
DATE: 7-27-89
TIME: 7:30

MONITORING WELL WATER LEVEL MEASUREMENTS

| DATE | TIME | WATER LEVEL * |
|---|---|---|
| 8-10-89 | 3:52 | 47.81 |

BJ014718

* MEASURE POINT: Top of casing

Delta Environmental Consultants, Inc.

1022 B/3-89

| PROJECT NAME / LOCATION | PROJECT NUMBER: 40-89-064 | BORING NUMBER: MW-2 | SHEET 1 OF 3 |
|---|---|---|---|
| 9301 Greenback Lane<br>Orangevale, CA | CONTRACTOR: Hogate Drilling | DRILLING METHOD: H.S.A. | |
| | DRILLER: Bill Hogate | DRILLING RIG: B-40 | |
| | START: 5:30/7-26-89 | COMPLETED: 7:30/7-27-89 | |
| LAND OWNER: Beacon Oil Company | SURFACE ELEVATION: 268.52 feet | LOGGED BY: Hal Hansen | |

| SAMPLE TYPE | SAMPLE NUMBER | BLOW COUNTS | SAMPLE INT (ft) | SAMPLE REC (in) | DEPTH SCALE 1"= 4' | DESCRIPTIONS OF MATERIALS AND CONDITIONS | CONTAMINANT OBSERVATION INSTRUMENT: TIP UNITS: TIP | GENERAL OBSERVATION NOTES Odor |
|---|---|---|---|---|---|---|---|---|
| | | | | | 1 | ASPHALT AND ROAD BASE | | |
| | | | | | 2 | | | |
| | | | | | 3 | | | |
| | | | | | 4 | | | |
| CA | MW2-1 | 3/7/12 | 5.0-6.5 | 18 | 5 | SILTY SAND; reddish brown, medium grained, slightly moist, mica rich (SM) | 0 | No odor |
| | | | | | 6 | | | |
| | | | | | 7 | | | |
| | | | | | 8 | | | |
| | | | | | 9 | | | |
| CA | MW2-2 | 7/9/18 | 10.0-11.5 | 18 | 10 | | 0 | No odor |
| | | | | | 11 | | | |
| | | | | | 12 | | | |
| | | | | | 13 | | | |
| | | | | | 14 | | | |
| CA | MW2-3 | 9/10/18 | 15.0-16.5 | 18 | 15 | SAND; olive, medium grained, moist, mica rich (SP) | 3 | Slight odor |
| | | | | | 16 | | | |
| | | | | | 17 | | | |
| | | | | | 18 | | | |
| | | | | | 19 | | | |
| CA | MW2-4 | 8/8/12 | 20.0-21.5 | 18 | 20 | | 45 | Moderate odor |
| | | | | | 21 | | | |
| | | | | | 22 | | | |
| | | | | | 23 | | | |

| WATER LEVEL DATA | | | | PROFESSIONAL GEOLOGIST |
|---|---|---|---|---|
| DATE | | | | |
| TIME | | | | SIGNATURE |
| GWL | | | | |
| CASING DEPTH | | | | TYPED NAME |

BJ014680

| PROJECT NAME / LOCATION | PROJECT NUMBER: 40-89-064 | BORING NUMBER: MW-2 | SHEET 2 OF 3 |
|---|---|---|---|
| 9301 Greenback Lane<br>Orangevale, CA | CONTRACTOR: Hogate Drilling | DRILLING METHOD: H.S.A. | |
| | DRILLER: Bill Hogate | DRILLING RIG: B-40 | |
| | START: 5:30/7-26-89 | COMPLETED: 7:30/7-27-89 | |
| LAND OWNER: Beacon Oil Company | SURFACE ELEVATION: 268.52 feet | LOGGED BY: Hal Hansen | |

| SAMPLE | SAMPLE TYPE | SAMPLE NUMBER | BLOW COUNTS | SAMPLE INT (ft) | SAMPLE REC (in) | DEPTH SCALE 1"= 4' | DESCRIPTIONS OF MATERIALS AND CONDITIONS | CONTAMINANT OBSERVATION INSTRUMENT: TIP UNITS: TIP | GENERAL OBSERVATION NOTES Odor |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 23 | SAND; olive, medium grained, moist, mica rich (SP) | | |
| | | | | | | 24 | | | |
| CA | | MW2-5 | 11/12/18 | 25.0-26.5 | 18 | 25 | | 75 | Moderate odor |
| | | | | | | 26 | | | |
| | | | | | | 27 | | | |
| | | | | | | 28 | | | |
| | | | | | | 29 | | | |
| CA | | MW2-6 | 42/50 for 5 | 30.0-31.5 | 18 | 30 | GRAVELLY SAND; olive, medium to coarse grained, moist, gravel 1/4"-1" diameter (SW) | 27 | Slight odor |
| | | | | | | 31 | | | |
| | | | | | | 32 | | | |
| | | | | | | 33 | | | |
| | | | | | | 34 | | | |
| CA | | MW2-7 | 8/12/23 | 35.0-36.5 | 18 | 35 | SAND; olive, medium to fine grained, moist, mica rich (SP) | 20 | Slight odor |
| | | | | | | 36 | | | |
| | | | | | | 37 | | | |
| | | | | | | 38 | | | |
| | | | | | | 39 | | | |
| CA | | MW2-8 | 12/16/28 | 40.0-41.5 | 18 | 40 | SILT; yellowish-brown, moist (ML) | 0 | No odor |
| | | | | | | 41 | | | |
| | | | | | | 42 | | | |
| | | | | | | 43 | | | |
| | | | | | | 44 | | | |
| CA | | MW2-9 | 88/12 | 45.0-46.5 | 16 | 45 | SILTY SAND; dark brown, moist (SM) | 0 | No odor |

| WATER LEVEL DATA | | | | PROFESSIONAL GEOLOGIST |
|---|---|---|---|---|
| DATE | | | | |
| TIME | | | | SIGNATURE |
| GWL | | | | |
| CASING DEPTH | | | | TYPED NAME |

BJ014681

| PROJECT NAME / LOCATION | PROJECT NUMBER: 40-89-064 | BORING NUMBER: MW-2 | SHEET 3 OF 3 |
|---|---|---|---|
| 9301 Greenback Lane<br>Orangevale, CA | CONTRACTOR: Hogate Drilling | DRILLING METHOD: H.S.A. | |
| | DRILLER: Bill Hogate | DRILLING RIG: B-40 | |
| | START: 5:30/7-26-89 | COMPLETED: 7:30/7-27-89 | |
| LAND OWNER: Beacon Oil Company | SURFACE ELEVATION: 268.52 feet | LOGGED BY: Hal Hansen | |

| SAMPLE TYPE | SAMPLE NUMBER | BLOW COUNTS | SAMPLE INT (ft) | SAMPLE REC (in) | DEPTH SCALE 1"= | DESCRIPTIONS OF MATERIALS AND CONDITIONS | CONTAMINANT OBSERVATION INSTRUMENT: TIP UNITS: TIP | GENERAL OBSERVATION NOTES Odor |
|---|---|---|---|---|---|---|---|---|
| | | | | | 46 | SILTY SAND; dark brown, fine to coarse grained, moist, mica rich (SM) | | |
| | | | | | 47 | | | |
| | | | | | 48 | | | |
| | | | | | 49 | | | |
| CA | MW2-10 | 12/18/27 | 50.0-51.5 | 16 | 50 | | 0 | No odor |
| | | | | | 51 | SANDY SILT; dark brown, interbedded, saturated (ML) | | |
| | | | | | 52 | | | |
| | | | | | 53 | | | |
| | | | | | 54 | | | |
| CA | MW2-11 | 21/30/32 | 55.0-56.5 | 16 | 55 | | 0 | No odor |
| | | | | | 56 | | | |
| | | | | | 57 | | | |
| | | | | | 58 | SANDY SILT/SILTY SAND; dark brown, interbedded, fine-coarse-grained sand, saturated, mica rich (ML/SM) | | |
| | | | | | 59 | | | |
| CA | MW2-12 | 6/16/26 | 60.0-61.5 | 16 | 60 | Total Depth 60.0 feet | 0 | No odor |
| | | | | | 61 | | | |
| | | | | | 62 | | | |
| | | | | | 63 | | | |
| | | | | | 64 | | | |
| | | | | | 65 | | | |

| WATER LEVEL DATA | | | | PROFESSIONAL GEOLOGIST |
|---|---|---|---|---|
| DATE | | | | |
| TIME | | | | SIGNATURE |
| GWL | | | | |
| CASING DEPTH | | | | TYPED NAME |

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