DEPUT SOAS INSPECTOR

Meter Number: 95903

DEC 3 1 139 cation Name: GALLEGOS CANYON UNIT#400

Location:TN-28 RG-12 SC-25 UL-G

3 - Navajo

NMOCD Zone:OUTSIDE

Hazard Ranking Score:00





RATIONALE FOR RISK-BASED CLOSURE OF PRODUCTION PITS LOCATED OUTSIDE OF THE VULNERABLE ZONE IN THE SAN JUAN BASIN

This production pit location was ranked according to the criteria in the New Mexico Oil Conservation Division's Unlined Surface Impoundment Closure Guidelines and received a ranking score of zero. The estimated depth to groundwater is greater than 100-feet beneath ground surface (bgs), the pit is not in a well head protection area, and there are no surface water bodies within 1,000 horizontal feet of the pit location.

The primary source, discharge to the pit has been removed. There has been no discharge to the pits for at least 4 years and the pits have been closed for at least one year.

Each pit was backfilled with clean soil and graded in a manner to divert precipitation away from the excavated area. Minimal infiltration of rainfall is expected. Any rainfall that does infiltrate the ground surface must migrate through clean backfill before reaching the residual hydrocarbons.

There is no source material at the ground surface, so direct contact of hydrocarbons with livestock and the populous is not likely.

In general, outside of the vulnerable area and alluvial valleys, bedrock material is generally encountered within 20 feet of the ground surface. Bedrock material in the San Juan Basin consists of interbedded sandstones, shales and clays. According to Freeze and Cherry, 1979, the hydraulic conductivity of the bedrock material are as follows:

Sandstone 10^{-9} to 10^{-13} cm/sec Shale 10^{-12} to 10^{-16} cm/sec Clay 10^{-12} to 10^{-15} cm/sec

Based on this information, the residual hydrocarbons should not migrate to groundwater.

Natural process (bioremediation) are degrading the residual hydrocarbon to carbon dioxide and water and will continue until the source is gone, therefore minimizing any impact to the environment.

Based on the above information, it is highly unlikely that any source material will impact groundwater or ever find an exposure pathway to affect human health and therefore El Paso Field Services Company (EPFS) requests closure of this pit location.

FIELD PIT SITE ASSESSMENT FOR EL PASO FIELDS

| 1 | Control of the second of the s | | | | | | | |
|--------------|--|--|--|--|--|--|--|--|
| CENEDAT | Meter: 95-903 Location: Gallegos Canyon Unit #400 E Operator #: 0203 Operator Name: Amoco P/L District: Angel Peak Coordinates: Letter: G Section 25 Township: 28 Range: 12 Or Latitude Longitude Pit Type: Dehydrator Location Drip: X Line Drip: Other: Site Assessment Date: 9/13/94 Area: Ol Run: 32 | | | | | | | |
| | NMOCD Zone: (From NMOCD Land Type: BLM (1) | | | | | | | |
| | Mans) State \square (2) | | | | | | | |
| IT | Inside \Box (1) Fee \Box (3) | | | | | | | |
| | Depth to Groundwater | | | | | | | |
| | Less Than 50 Feet (20 points) (1) | | | | | | | |
| | 50 Ft to 99 Ft (10 points) ☐ (2) Greater Than 100 Ft (0 points) ☒ (3) | | | | | | | |
| | Wellhead Protection Area. | | | | | | | |
| ME | Is it less than 1000 ft from wells, springs, or other sources of | | | | | | | |
| ASSESSMENT | fresh water extraction?, or; Is it less than 200 ft from a private domestic water source? (1) YES (20 points) (2) NO (0 points) | | | | | | | |
| ASS | Morrantal Distance to Surface Wet- | | | | | | | |
| SITE | Less Than 200 Ft (20 points) (1) 200 Ft to 1000 Ft (10 points) (2) | | | | | | | |
| S | Greater Than 1000 Ft (0 points) \(\sqrt{3} \) | | | | | | | |
| - - | Name of Surface Water Body Horn Canyon | | | | | | | |
| | Irrigation Canals Ditches Lakes De 1997 | | | | | | | |
| | Distance to Nearest Ephemeral Stream (1) < 100'(Navajo Pits Only) | | | | | | | |
| | X (2) > 100 | | | | | | | |
| 70 | TOTAL HAZARD RANKING SCORE: POINTS | | | | | | | |
| LRK | Remarks: Realine Book - Outside Vulnerable Zone Tape - Outside | | | | | | | |
| REMARKS | tou pris, location drip pit is dry. Will close one pit. | | | | | | | |
| <u> </u> | PUSH IN | | | | | | | |

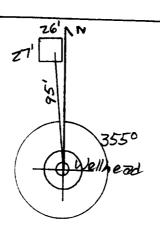
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|-----------|----------|
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| Ę | 717 |
| ODICINIAI | ONIGINAL |

REMARKS

ORIGINAL PIT LOCATION

Original Pit: a) Degrees from North 355° Footage from Wellhead 95'

b) Length : <u>27'</u> Width : <u>26'</u> Depth : <u>31</u>



| Rema | rks : |
|------|-------|
| 0 | |

Picture D 1328, Roll I Dump Truck

Redline book shows location in unit A, location sign says unit G.

Completed By:

Signature

<u>9/13/94</u> Date

FLLD PIT REMEDIATION/CLOSURE FORM

| ŀ | |
|--------------------|--|
| TAGGINGS | Meter: 95903 Location: Gallegos Cayou Unit *400 F Coordinates: Letter: G. Section 25 Township: 28 Range: 12 Or Latitude Longitude Date Started: 10/20/94 Run: 0/ 32 |
| FIELD ORSERVATIONS | |
| CLOSURE | Remediation Method : Excavation |
| | Envirotech |
| REMARKS | Remarks: Dug test hole to 121, Took PID sample, Closed pit |
| | Signature of Specialist: |
| | (SP3191) 03/16/94 |



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Outside the GWV Zone

| | SAMPLE | IDENTIFICA | TION | | | | | |
|----------------------------|----------|--------------------|-------------|-------|-------|-------|--|--|
| | Field ID | | Lab ID | | | | | |
| SAMPLE NUMBER: | KD 343 | | 946430 | | | | | |
| MTR CODE SITE NAME: | 95903 | | N/A | | | | | |
| SAMPLE DATE TIME (Hrs): | 10-20-94 | | 1325 | | | | | |
| SAMPLED BY: | | N/ | | | 1/A | | | |
| DATE OF TPH EXT. ANAL.: | 10-26- | 94 | | | | | | |
| DATE OF BTEX EXT. ANAL.: | ا بر | HIM | | NIA | | | | |
| TYPE DESCRIPTION: | VL | Light brown 50 | | | nd | | | |
| REMARKS: | | | | | | | | |
| | | RESULTS | | | | | | |
| | | | | | | | | |
| PARAMETER | RESULT | UNITS | | QUALI | FIERS | | | |
| | | | DF | Q | M(g) | V(ml) | | |
| TPH (418.1) | 8700 | MG/KG | | | 0.93 | 28 | | |
| HEADSPACE PID | 539 | PPM | | | | | | |
| PERCENT SOLIDS | 90.4 | % | | | | | | |
| 4 | | TPH is by EPA Meth | od 418.1 ·- | | | | | |
| arrative: | | | | | | | | |
| F = Dilution Factor Used | | | | | | | | |
| r - Distinct ractor osca | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

74/10/26 11:28

Sample identification 946430

: Initial mass of sample, g 0.930

Volume of sample after extraction, ml

Petroleum hydrocarbons, ppm 9704.261

Net absorbance of hydrocarbons (2930 cm-1) 0.504

