submitted in lieu of Form 3160-5

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Sundry Notices and Reports on Wells

1. **Type of Well**
GAS

2. **Name of Operator**
MERIDIAN OIL

3. **Address & Phone No. of Operator**
PO Box 4289, Farmington, NM 87499 (505) 326-9700

4. **Location of Well, Footage, Sec., T, R, M**
1020'FNL, 1810'FEL, Sec.26, T-31-N, R-13-W, NMPM

5. **Lease Number**
SF-078464
6. **If Indian, All. or Tribe Name**
7. **Unit Agreement Name**
8. **Well Name & Number**
Senter Federal #1
9. **API Well No.**
30-045-10390
10. **Field and Pool**
Basin Dakota
11. **County and State**
San Juan Co, NM

12. **CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA**

Type of Submission	Type of Action		
___ Notice of Intent	_X_ Abandonment	___ Change of Plans	
	___ Recompletion	___ New Construction	
_X_ Subsequent Report	___ Plugging Back	___ Non-Routine Fracturing	
	___ Casing Repair	___ Water Shut off	
___ Final Abandonment	___ Altering Casing	___ Conversion to Injection	
	___ Other -		

13. **Describe Proposed or Completed Operations**

7-27-95 MIRU. ND WH. NU BOP. PT BOP. TOOH w/202 jts 1 1/2" tbg. SDON.
7-28-95 TIH w/4 1/2" gauge ring to 6575'. POOH. TIH w/4 1/2" cmt retainer, set @ 6510'. PT tbg to 1000 psi, OK. Load hole w/53 bbl wtr. PT 4 1/2" csg to 500 psi/5 min OK. Establish injection into Dakota perfs. Plug #1: pump 22 sx Class "B" below cmt retainer, 7 sx Class "B" cmt above cmt retainer, TOC @ 6418'. TOOH. SD for weekend.
7-31-95 TIH, perf 4 holes @ 5766'. TOOH. Load 4 1/2" csg w/8.5 bbl wtr. Establish injection. TIH w/4 1/2" cmt retainer, set @ 5702'. Establish injection. Plug #2: pump 44 sx Class "B" cmt below cmt retainer outside 4 1/2" csg @ 5666-5766', 7 sx Class "B" cmt above cmt retainer, TOC @ 5610'. TOOH to 3678'. Load hole w/wtr. Plug #3: pump 12 sx Class "B" cmt @ 3520-3678'. TOOH to 2114'. Plug #4: pump 44 sx Class "B" cmt @ 1535-2114'. TOOH. TIH, perf 4 sqz holes @ 378'. Establish circ down 4 1/2" csg & out bradenhead w/16 bbl wtr. Plug #5: pump 119 sx Class "B" cmt from 378' to surface. Circ 1 bbl cmt to surface. ND BOP. Cut off WH. Fill 4 1/2" csg w/3 sx Class "B" cmt. Install dry hole marker w/12 sx Class "B" cmt. RD. Rig released. Well plugged and abandoned 7-31-95.

14. **I hereby certify that the foregoing is true and correct.**

Signed [signature] Title Regulatory Administrator Date 8/2/95

(This space for Federal or State Office use)
APPROVED BY _____ Title _____ Date _____
CONDITION OF APPROVAL, if any:

APPROVED
AUG 07 1995

Jenny L. Trust
DEPUTY OIL & GAS INSPECTOR

DEC 22 1997

Approved

Meter Number:73708
Location Name:SENTER FED #1
Location:TN-31 RG-13
SC-26 UL-B
2 - Federal
NMOCD Zone:OUTSIDE
Hazard Ranking Score:00

RECEIVED
APR 14 1997
OIL CON. DIV.
DIST. 3

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 FORM

EPFS EL PASO FIELD S...

GENERAL

Meter: 73708 -MS Location: Senter Fed. #1

Operator #: _____ Operator Name: Meridian P/L District: Katz

Coordinates: Letter: B Section 26 Township: 31 Range: 13

Or Latitude _____ Longitude _____

Pit Type: Dehydrator X Location Drip: ___ Line Drip: ___ Other: _____

Site Assessment Date: 6-20-94 Area: 02 Run: 21

SITE ASSESSMENT

NMOCD Zone: (From NMOCD Maps) Inside ☐ (1) Outside ☒ (2)

Land Type: BLM ☐ (1) State ☐ (2) Fee ☐ (3) Indian _____

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 :

Is it less than 1000 ft from wells, springs, or other sources of fresh water extraction? , or ; Is it less than 200 ft from a private domestic water source? ☐ (1) YES (20 points) ☒ (2) NO (0 points)

Horizontal Distance to Surface Water Body

Less Than 200 Ft (20 points) ☐ (1)
200 Ft to 1000 Ft (10 points) ☐ (2)
Greater Than 1000 Ft (0 points) ☒ (3)

Name of Surface Water Body _____

(Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)

Distance to Nearest Ephemeral Stream ☐ (1) < 100'(Navajo Pits Only)
☐ (2) > 100'

TOTAL HAZARD RANKING SCORE: 0 **POINTS**

REMARKS

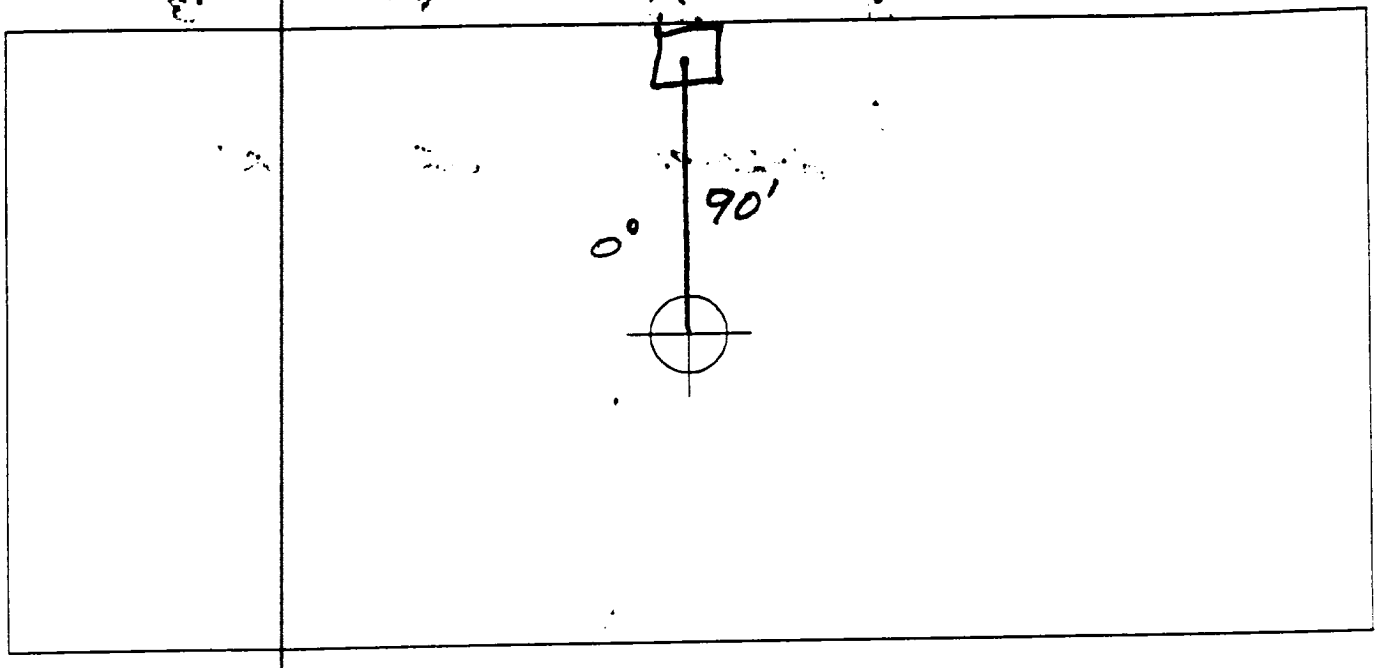
Remarks : Per M. Rankin, this is a meridian-owned meter w/a well that discharges to the Silenian/GasCo NM system. Location never belonged to EPNG but Dehy unit and pit did, therefore no EPNG meter code was assigned to it. Record will be entered by name. MWendler 6/23/94

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North: 0° Footage from Wellhead 90'

b) Length: 10' Width : 10' Depth : 24"



REMARKS

Remarks :

73708-65 is the El Paso meter # for this location
the -65 on the end means KDK 7/8/94 it is connected to a
system that is not El Paso KDK 7/8/94

Completed By:

C.V. Rickman

Signature

6-20-94

Date

(SP31908) 04/07/94

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL

Gas Co of N. Mex
Meter: Meter 108048 Location: Santos Fed #1

Coordinates: Letter: B Section 26 Township: 31 Range: 13

Or Latitude _____ Longitude _____

Date Started : 6-20-94 Area: 02 Run: 21

FIELD OBSERVATIONS

Sample Number(s): CV#5 _____ _____ _____

Sample Depth: 6' Feet

Final PID Reading _____ PID Reading Depth _____ Feet

	Yes	No	
Groundwater Encountered	☐ (1)	☒ (2)	Approximate Depth _____ Feet

CLOSURE

Remediation Method :

Excavation	☐ (1)	Approx. Cubic Yards _____
Onsite Bioremediation	☐ (2)	
Backfill Pit Without Excavation	☒ (3)	

Soil Disposition:

Envirotech	☐ (1)	☐ (3)	Tierra
Other Facility	☐ (2)	Name: _____	

Pit Closure Date: 6-20-94 Pit Closed By: EPNG

REMARKS

Remarks : encountered sand sandstone at 6'
Very sandy soil. Per M. Rankin, this is a meridian-owned meter w/a well that discharged to S. Union/GasCoNm system. Location never belonged to EPNG but Dehy. unit and pit did therefore no EPNG meter code WAS assigned to it. Will enter record by name only and ref. meridian meter code in remarks.

Signature of Specialist: _____ 6/23/94

73708-65 is the El Paso meter # for this location, the -65 on the end of the meter # means it is connected to a system that is

(SP3191) 04/07/94

El Paso Natural Gas Company

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	945488	CVH5
MTR CODE | SITE NAME:	73708 · 65	N/A
SAMPLE DATE | TIME (Hrs):	6-20-94	1625
SAMPLED BY:	N/A	
DATE OF TPH EXT. | ANAL.:	6/23/94	6/23/94
DATE OF BTEX EXT. | ANAL.:	N/A	N/A
TYPE | DESCRIPTION:	VG	Light brown coarse Sand

REMARKS: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE		MG/KG				
TOLUENE		MG/KG				
ETHYL BENZENE		MG/KG				
TOTAL XYLENES		MG/KG				
TOTAL BTEX		MG/KG				
TPH (418.1)	62.1	MG/KG			2.27	28
HEADSPACE PID	32.2	PPM	7/7/94			
PERCENT SOLIDS	93.9	%				

– TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020 –

The Surrogate Recovery was at N/A % for this sample All QA/QC was acceptable.

Narrative:

DF = Dilution Factor Used

Approved By: _____ Date: 7/14/94

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*                 Test Method for                   *
*   Oil and Grease and Petroleum Hydrocarbons       *
*              in Water and Soil                    *
*                                                   *
*         Perkin-Elmer Model 1600 FT-IR             *
*                Analysis Report                    *
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[illegible]/06/23 [illegible]:33

Sample identification
[illegible]

[illegible] mass of sample, g
[illegible]

[illegible] of sample after extraction, ml
[illegible]

[illegible] hydrocarbons, ppm
[illegible]

[illegible] hydrocarbons [illegible]