CHEVRON USA

REMEDIATION WORK PLAN AND CLOSURE REPORT

FOR THE PRODUCTION FLUID RELEASE ASSOCIATED WITH THE

HUGH #12 FLOW LINE

New Mexico Oil Conservation Division Case #

NE¹/₄ Section 14, T22S, R37E ~4 miles southeast of Eunice Lea County, New Mexico Latitude 32°23'37.5"N Longitude 103° 07'43.5"W

JUNE 2001

Prepared by

(Midland) Environmental Plus, Inc. 1324 North Main Street P.O. Box 1558 Eunice, New Mexico 88231 Tele 505.394.3481 FAX 505.394.2601 API# 3002 S257390000 Incident - nPAC0607238847 Sphication pPAC0607239231



July 11, 2001

Mr. Paul Sheeley 1625 North French Hobbs, New Mexico 88240

Subject: Final C-141 submittal for the Chevron USA Hugh #12 Flow Line Site

Dear Mr. Sheeley,

Environmental Plus, Inc. (EPI), on behalf of Chevron USA, submits the attached New Mexico Oil Conservation Division (NMOCD) "Final Form C-141" for the Chevron Hugh #12 Flow Line Remediation site located in the NE¼ of Section 14, T22S, R37E, Lea County, New Mexico. Enclosed herewith are two copies of the report titled, "Chevron USA Remediation Work Plan and Closure Report for the Hugh #12 Flow Line, June 2001," that documents work plan strategy, implementation, and closure justification in accordance with the NMOCD guideline remedial goals. EPI, on behalf of Chevron USA, therefore requests that the NMOCD grant closure to the site requiring "no further action."

If there are any questions please call Mr. Ben Miller or myself at the office or at 505.390.0288 and 505.390.7864, respectively or Mr. Rick Massey, at 505.394.1237.

All official communication should be addressed to:

Chevron USA Att: Mr. Rick Massey P.O. Box 1949 Eunice, New Mexico 88231

Sincerely,

Pat McCasland EPI Technical Services Manager

cc: Rick Massey, Chevron USA Nathan Mouser, Chevron USA Ben Miller, EPI Vice President and General Manager Sherry Miller, EPI President file

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1625 N. French Dr., Hobbs, NM 88240 Energy Minera	is and Natural Resources	Form C-141 Revised March 17, 1999
District II 811 South First, Artesia, NM 88210 District III 2040	servation Division South Pacheco	Submit 2 Copies to appropriate
1000 Rio Brazos Road, Aztec, NM 87410 Santa District IV	Fe, NM 87505	District Office in accordance with Rule 116 on back
2040 South Pacheco, Santa Fe, NM 87505		side of form
Release Notification	and Corrective Action	I Initial Report IM Final Penort
Name	Contact	
CHEVRON USA	NATHAN	MOUSER
Address P.D. Box 1949 EUNICE, MM	Telephone No. (505) 394	-1247
Facility Name HUGH LELL No. 12	Facility Type PRODUCTION F	LOWLINE
Surface Owner, / Mineral, Own	<u></u>	Lease No.
Tom & WINNIE REENAN EIN G	ANN	
LOCATION	OF RELEASE	
Unit Letter Section Township Range Feet from the North	South Line Feet from the Eas	t/West Line County
<u>H 14 22.5 37E 2310 1</u>	North 330	East LEA
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Type of Release	Volume of Release	Volume Recovered
Source of Release	Date and Hour of Occurrence	Date and Hour of Discovery
Was Immediate Notice Given?	US/19/01 9:00 am	-105/19/01, 12:00 pm
Yes No X Not Required		
By Whom?	Date and Hour	
Was a Watercourse Reached?	If YES, Volume Impacting the W	atercourse.
If a Watercourse was Impacted, Describe Fully.*		
Describe Cause of Problem and Remedial Action Taken.*		
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-1210 Worn threads cut to good pipe,	rethreaded & installe	d new nipple é ilnion
Describe Area Affected and Cleanup Action Taken.*		
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Describe General Conditions Prevailing (Temperature, Precipitation	on, etc.)* Disposed of	942 yd of soil in
FIDE & Dry	The Rhino En	v. Landfar.n.
	BA nched repu	rt Documents Remediation
I hereby certify that the information given above is true and complete to the best of my knowledge and belief	OIL CONSERV	ATION DIVISION
B. C. y J. b.		
Printed Name:	Approved by	
Brenda K Parker	District Supervisor:	- Eusintian Data
FIELD SPECIALIST	Approval Date:	
Date: 05-29-01 Phone: 390-7166	Conditions of Approval:	Attached

* Attach Additional Sheets If Necessary

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	Lat	(Lease and/or Facility Unique Cod	e, ucu 521800
		(OA's have print out of Unique Co	des by Facility)
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Equip.			
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	VL> Valve VL> Pine Conn	□ <pd> Pipe Body < □ <fl> Flange</fl></pd>	C <e> Fittings</e>
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EXECUTIVE SUMMARY

May 19, 2001, a production fluid leak consisting of crude oil, natural gas, and formation water occurred between the <u>Chevron Hugh #12</u> pumping well and the tank battery and was apparently due to <u>internal corrosion</u>. Chevron contracted Environmental Plus, Inc. (EPI) of Eunice, New Mexico to delineate the vertical and horizontal extents of Total Petroleum Hydrocarbon EPA method 8015M (TPH) and BTEX, i.e., Benzene, Toluene, Ethyl Benzene, and Xylene, and soil Chloride to New Mexico Oil Conservation Division (NMOCD) remedial goals. Chevron chose to remove soil above the NMOCD remedial goals and replace with clean soil. Acceptable levels of TPH and BTEX were encountered at the 15'bgs interval and resulted in the excavation and disposal of <u>942 yd</u>² of soil at NMOCD approved and permitted Rhino Environmental Facility south of Hobbs, New Mexico. A similar volume of clean soil was purchased from the landowner and used as backfill.

1 HUGH #12 FLOW LINE REMEDIATION WORK PLAN

This plan will restore the impacted surface area to an acceptable agricultural state and remove or isolate soil contaminated above New Mexico Oil Conservation Division (NMOCD) guidelines by historical oil and gas production and handling activities. The Constituents of Concern (CoCs) will be Total Petroleum Hydrocarbon using EPA method 8015M (TPH), Benzene, BTEX, i.e., the sum of Benzene, Toluene, Ethyl Benzene, and m, p, & o Xylene, and soil Chloride. This Site Specific Remediation Work Plan will provide quality analytical information and document remediation activities necessary to receive a "no further action" declaration from the NMOCD.

1.1 Remediation Strategy and Objective

The site will be delineated concurrent with excavation with soil disposal as the remediation strategy. The objectives of the plan will be to;

- Document final achievement of acceptable environmental thresholds established by the NMOCD and
- Restore the impacted surface area to an acceptable agricultural state.

1.2 Site Description

The site is located in open sandy range land and is traversed north to south with three main line crude oil pipelines owned by E.O.T.T. Energy Pipeline. A site map is included as Attachment I.

1.2.1 Historical Use

This land surface is owned by Sims/Kennann and used for livestock grazing, caliche sales, and oil and gas production facilities access.

1.2.2 Legal Description

The site is located approximately 4 miles southeast of Eunice, Lea County, New Mexico. The legal description is NE¼ S14 T22S R37E, Latitude 32°23'37.5"North and Longitude 103° 07'43.5"West.

1.2.3 Photographic documentation

Photographs of the site are included as Attachment II.

1.2.4 Ecological Description

The area is typical of the Upper Chihuahuan Desert Biome consisting primarily of hummocky sand hills covered with Harvard Shin Oak (Querqus harvardi) interspersed with Honey Mesquite (Prosopis glandulosa) along with typical desert grasses and weeds.



Mammals present, include Orrd's and Merriam's Kangaroo Rat, Deer Mouse, White Throated Wood Rat, Cottontail Rabbit, Black Tailed Jackrabbit, and the Mule Deer. Reptiles, Amphibians, and Birds are numerous and typical of area. A survey of Listed, Threatened, or Endangered species has not been conducted.

1.2.5 Environmental Media Characterization

Chemical parameters of the soil were characterized consistent with the New Mexico Oil Conservation Division (NMOCD) guidelines published in the following documents;

- Guidelines for Remediation of Leaks, Spills and Releases (August 13, 1993)
- Unlined Surface Impoundment Closure Guidelines (February 1993)

Acceptable "Site Specific" thresholds for contaminants of concern, i.e., Chloride, TPH and BTEX, were determined based on the following;

- Depth to Ground water, i.e., distance from the lower most acceptable concentration to the ground water.
- Wellhead Protection Area, i.e., distance from fresh water supply wells.
- Distance to Surface Water Body, i.e., horizontal distance to all down gradient surface water bodies.

1.2.5.1 Ground Water Level

According to the Office of the New Mexico State Engineer ground water level database, there are three water wells with known levels in section 14 of T22S R37E, i.e., 60.76, 68, 54.06 feet below ground surface (bgs). This averages to 60.94'bgs or 61'bgs. On going environmental surveillance by another company at a site -.2 mile north records the ground water level at [60'bgs]

1.2.5.2 Depth to Ground Water Calculation

Depth to ground water, i.e., "the vertical distance from the lowermost contaminants to the seasonal high water elevation of the ground water." For the hydrocarbon source term, i.e., TPH, Benzene, and BTEX, this was determined to be 45 bgs

1.2.5.3 Ground Water Gradient

According to the USGS (Nicholson & Clbesch), the gradient is to the southeast.

1.2.5.4 Wellhead Protection Area

There are no domestic use wells located within a 1000' radius of the site.

1.2.5.5 Distance to Nearest Surface Water Body

There are no naturally occurring surface water bodies located within a 1 mile radius of the site.

1.2.5.6 Soil Assessment

For field delineation purposes only, the VOC headspace threshold of 200 ppm was used to determine when samples should be ascensioned to the laboratory for analysis. A 5-point composite sample was collected from the excavation side walls and bottom.

1.2.5.7 Ground Water Assessment

The ground water level is conservatively estimated to occur at -60 feet bgs. The soil assessment did not indicate that the ground water had been impacted by the hydrocarbon source term.

1.2.6 NMOCD Site Ranking and Remedial Goals

The Site information and Metrics form in Attachment IV summarizes the information about the site, shows a site ranking of >19 and sets the following remedial goals for the CoCs.

Benzene ¹	10 ppm
BTEX	50 ppm
ТРН	100 ppm

Chevron

1.3 Data Quality

All laboratory analytical results were within the data quality objectives listed below.

- Laboratory data must have > 85% recovery for TPH and BTEX and >75% recovery for general chemistry parameters.
- Laboratory data must have <15% Relative Percent Difference
- Field headspace analyses must be supported with instrument calibration data and calibration gas certification.

Duplicates or blanks were not submitted to the laboratory.

1.4 Project Safety

Hazards that will be encountered at this site include the following;

- Moving equipment
- Buried pipelines
- Highway ingress/egress
- Excavation
- Potential Hydrogen Sulfide Gas

Employees and subcontractors will be required to confirm current training in these hazards. Standard personal protective equipment will include;

- Personal H₂S Monitor
- Hard-hat

.

- Excavation Safety
- Steel Toed Boots/Shoes

1.5 Process/Procedure

Safety Glasses

The following sequence was used to guide project implementation.

- 1. Site visit: Photograph and map
- 2. Issue "One Call" and notifying utilities
- 3. Complete the "Chevron Digging Permit" and signature approval process
- 4. Locate, hand spot, and mark buried lines or other structures
- 5. Overhead powerlines are not present and will not be a hazard.
- 6. Lockout/Tagout: Pipeline companies notified of activity but LO/TO unnecessary
- 7. Procedure: Equipment required will be: Backhoe, Excavator, Dump Trucks
 - Daily Tail gate safety meetings and PPE check
 - Excavation Safety Checklist Form
 - Excavate visibly contaminated soil and stockpile
 - Haul stockpiled soil to NMOCD approved facility
 - Conduct field VOC headspace analyses on selected samples
 - Collect Composite Sample of the selected areas for laboratory analysis
 - Review data and determine "Depth to Ground Water"
 - Backfill excavations with volume consistent with disposal volume
 - Photograph
 - Develop and issue site specific report
 - Reseed surface



2 WORK PLAN IMPLEMENTATION AND CLOSURE

The process of excavating and disposing of contaminated soil and field surveying began on June 7, 2001 with the disposal and backfilling phase completed on June 20, 2001.

2.1 Excavation and Composite Sampling

The E.O.T.T. pipelines traversing the site were in use during the project. The excavation span required that a pedestal of soil be left in place as a pipeline support while the north and south portions of the contamination was removed. The column was removed and disposed of only after the remedial goals had be achieved and the north and south sections had backfilled and capable of supporting the pipe. On June 6th and again on June 11th, composite samples of the sidewalls and bottom were collected and ascensioned to Cardinal Laboratories in Hobbs, New Mexico for analysis.

2.2 Discussion of Data

The June 11th results indicated achievement of the NMOCD remedial goals. The original laboratory analytical reports and data summary are included as Attachment III. Data Charts are provided below.

2.2.1 Bottom Composite Sample

TPH is 32.5 mg/Kg and is < the NMOCD 100 mg/Kg remedial goal. Benzene is not detectable and BTEX shows only a nominal detection for Toluene, both well below the respective remedial goals of 10 and 50 mg/Kg. The soil chloride concentration at this interval is 295 mg/Kg.

2.2.2 North Side Wall Composite Sample

TPH is <10 mg/Kg and is < the NMOCD 100 mg/Kg remedial goal. Benzene is not detectable and BTEX shows only a nominal detection for Toluene, both well below the respective remedial goals of 10 and 50 mg/Kg. The soil chloride at this location is 124 mg/Kg.

2.2.3 South Side Wall Composite Sample

TPH is <10 mg/Kg and is < the NMOCD 100 mg/Kg remedial goal. Benzene is not detectable and BTEX shows only a nominal detection for Toluene, both well below the respective remedial goals of 10 and 50 mg/Kg. The soil chloride at this location is 62 mg/Kg.

2.2.4 East Side Wall Composite Sample

TPH is 34.7 mg/Kg and is < the NMOCD 100 mg/Kg remedial goal. Benzene is not detectable and BTEX shows only a nominal detection for Toluene, both well below the respective remedial goals of 10 and 50 mg/Kg. The soil chloride at this location is 746 mg/Kg.

2.2.5 West Side Wall Composite Sample

The Gasoline Range Organics (GRO) were not detected above 50 mg/Kg and the Diesel Range Organics (DRO) at 142 mg/Kg. If the GRO value of 50 mg/Kg is considered to be "de-minimus" and added to the DRO value the TPH is 192 mg/Kg. Even though this value is above the 100 mg/Kg NMOCD remedial goal it does not pose a legitimate risk to the environment. The soil chloride at this location is 699 mg/Kg.

Data Illustrations



CHEVRON USA HUGH #12 FLOW LINE TOTAL PETROLEUM HYDROCARBON (TPH) CONCENTRATIONS

> CHEVRON USA HUGH #12 FLOW LINE SITE SOIL CHLORIDE CONCENTRATIONS



2.3 Soil Disposal and Backfilling

942 yd³ were disposed of at the NMOCD approved Rhino Environmental Facility. A similar volume of clean backfill was used to bring the excavation to grade and purchased from Sims/Kennann, the landowner.

2.4 Conclusion

Production fluid contamination at this site resulted in hydrocarbon contamination above the NMOCD remedial guidelines. The data support the conclusion that the site has been remediated to acceptable levels for the hydrocarbon CoCs and as such justifies seeking a "no further action" declaration from the NMOCD.

2.5 Follow Up

The site will be reseeded with native grasses at a time amenable to germination.

🖾 Chevron

Attachment I: Site Map

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HUGH #12 FLOW LINE

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HUGH #12 FLOW LINE

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New Mexico Office of the State Engineer

Township: 22S Range: 37E Sections: 11.12.13.14.15.22.23.24 NAD27 X: Y: Zone: Search Radius: County: Basin: Number: Suffix: Owner Name: (First) (Last) C Non-Domestic C Dom @ All Well Data Report Avg Depth to Water Report Water Column Report Clear Form WATERS Menu Help AVERAGE DEPTH OF WATER REPORT 06/30/2001 (Depth Water in Feet) on Tws Rng Sec Zone X X Wells Min Max Avg o Records found, try again Seconds found, try again	New	Well Reports ar	the State Engineer	r	
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Attachment II: Photographs

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Chevron Hugh #12 Flow Line Final Contour

Attachment III: Analyses

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				Hugh #	12 Flov	v Line]	Data S	ummary						
Sample Description	Date	Sampling Interval	SAMPLE ID#	VOC ⁴ . Headspace	Chloride	TPH (GRO) ⁵ (TPH (DRO) ⁶ (TPH DRO+GRO)	ТРН ³ 418.1	BTEX ⁷	Benzene	Toluene	Ethyl Benzene	Total Xylene
		-sad		mqq	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Bottom Hole Composite	10/20/90	∞	CHS60701BH	62.5	1240	50	1660	1710	na	0.055	0.005	0.013	0.005	0.032
Bottom Hole Composite	06/11/01	15	CHS61101BH-15'	na	295	па	na	na	32.5	0.031	0.005	0.006	0.005	0.015
East Side Wall Composite	06/07/01	na	CHS60701ESW	20.0	1170	50	309	359	na	0.036	0.005	0.011	0.005	0.015
East Side Wall Composite	06/11/01	na	CHS61101ESW	па	746	na	na	na	34.7	0.032	0.005	0.007	0.005	0.015
North Side Wall Composity	10/20/90	na	CHS60701NSW	50.0	746	50	1290	1340	na	0.035	0.005	0.007	0.005	0.018
North Side Wall Composite	06/11/01	na	CHS61101NSW	na	124	na	na	ца	10	0.031	0.005	0.006	0.005	0.015
South Side Wall Composite	10/20/90	Ua	CHS60701SSW	88.0	1650	50	805	855	na	0.033	0.005	0.008	0.005	0.015
South Side Wall Composite	06/11/01	na	CHS61101SSW	na	62	na	na	na	10	0.032	0.005	0.007	0.005	0.015
West Side Wall Composite	10//0/90	па	CHS60701WSW	9.5	669	50	142	192	na	0.032	0.005	0.007	0.005	0.015
¹¹ bgs - feet below ground su	rface													
² Italicized values are < the in	istrument dete	ction limit.												
³ TPH - Total Petroleum Hy	ydrocarbon													
⁴ VOC - Volatile Orgaine C	onstituents/C	ontaminants												

⁵GRO - Gasoline Range Organics (C₆-C₁₂) ⁶DRO - Diesel Range Organics (C₁₂-C₃₈) ⁷BTEX - The sum of Benzene, Toluene, Ethyl Benzene, and Xylene. Values reported below the instrument detection limit are considered "de-minimus" and are included in the sum.



PHONE (915) 673-7001 . 2111 BEECHWOOD . ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR ENVIRONMENTAL PLUS, INC. ATTN: PAT McCASLAND P.O. BOX 1558 **EUNICE, NM 88231** FAX TO: (505) 394-2601

Receiving Date: 06/11/01 Reporting Date: 06/13/01 Project Number: NOT GIVEN Project Name: HUGH Project Location: NOT GIVEN Sampling Date: 06/11/01 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: BC Analyzed By: BC/AH

LAB NUMBER	SAMPLE ID	TPH (mg/Kg)	Cl* (mg/Kg)	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DA	TE:	06/12/01	06/12/01	06/12/01	06/12/01	06/12/01	06/12/01
H5919-1	CHS61101BH 15'	32.5	295	<0.005	0.006	<0.005	< 0.015
H5919-2	CHS61101NSW	<10	124	<0.005	0.006	< 0.005	< 0.015
H5919-3	CHS61101SSW	<10	62	<0.005	0.007	<0.005	<0.015
H5919-4	CHS61101ESW	34.7	746	<0.005	0.007	<0.005	<0.015
	1						
	1						
Quality Control	1	240	971	0.108	0.102	0.105	0.301
True Value QC		240	1000	0.100	0.100	0.100	0.300
% Recovery	1	100	97.1	108	102	105	100
Relative Percer	nt Difference	7.2	2.1	0.9	1.0	2.9	0.39

METHODS:

TRPHC-EPA 600/4-79-020 418.1;CI-Std. Methods 4500-CI'B; BTEX-EPA SW-846 8260 *Analyses performed on 1:4 w:v aqueous extracts.

Burgess J. A. Cooke. Ph. D

13/31

Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All cliffed 1004/by those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits included by client, its subsciences. affiliates or successors ansing out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise

Организации М. Слузанда. Р. С. И. Слузанда. Р. С. И. С. И. С. С. Г. С. И. С. С. С. С. И. С. С. С. С. И. С. С. С. И. С. С. С. И. С. С. С. И. С. С. С. С. С. И. С.	ompany Nam	· Chevan								111	2					A	A	SIS	EOI		 		
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written changes to 505-393-2476. ă

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PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 . 101 E. MARLAND . HOBBS, NM 88240

ANALYTICAL RESULTS FOR ENVIRONMENTAL PLUS, INC. ATTN: PAT McCASLAND P.O. BOX 1558 EUNICE, NM 88231 FAX TO:

Receiving Date: 06/07/01 Reporting Date: 06/11/01 Project Owner: RICK MASSEY Project Name: HUGH Project Location: NOT GIVEN

Quality Control

True Value QC

Relative Percent Difference

% Recovery

Sampling Date: 06/07/01 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: BC Analyzed By: BC/HM

DRO

833

800

104

7.7

991

1000

99.1

2.0

CI* $(C_6 - C_{10})$ $(>C_{10}-C_{28})$ LAB NUMBER SAMPLE ID (ma/Ka) (ma/Ka) (ma/Ka) **ANALYSIS DATE** 06/09/01 06/09/01 06/08/01 H5913-1 CHS60701SSW <50 805 1650 H5913-2 **CHS60701ESW** <50 309 1170 H5913-3 1290 **CHS60701NSW** <50 746 H5913-4 CHS60701WSW <50 142 699 H5913-5 <50 1660 1240 CHS60701BH

GRO

719

800

89.9

0.1

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI: Std. Methods 4500-CI'B *Analyses performed on 1:4 w:v aqueous extracts.

Chemist Chemist

6/11/01

Date

H5913A.XLS

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidianes, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



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Receiving Date: 06/07/01 Reporting Date: 06/11/01 Project Owner: RICK MASSEY Project Name: HUGH Project Location: NOT GIVEN Sampling Date: 06/07/01 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: BC Analyzed By: BC

				ETHYL	TOTAL
		BENZENE	TOLUENE	BENZENE	XYLENES
LAB NO.	SAMPLE ID	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
			00/00/04	00/00/04	06/08/04
ANALYSISL		06/08/01	06/08/01	06/08/01	00/00/01
H5913-1	CHS60701SSW	<0.005	0.008	<0.005	<0.015
H5913-2	CHS60701ESW	<0.005	0.011	<0.005	<0.015
H5913-3	CHS60701NSW	<0.005	0.007	<0.005	0.018
H5913-4	CHS60701WSW	< 0.005	0.007	< 0.005	<0.015
H5913-5	CHS60701BH	<0.005	0.013	<0.005	0.032
	·				
1					<u> </u>
1					
Quality Cont	rol	0.107	0.100	0.102	0.289
True Value C	QC	0.100	0.100	0.100	0.300
% Recovery		107	100	102	96.4
Relative Per	cent Difference	0.4	4.5	2.7	3.1

METHOD: EPA SW-846 8260

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11/0

H5913B.XLS

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Chevron $\langle \rangle$

Attachment IV: Site Metrics and Information Form

I.

Attachment V: Chevron Digging Permit

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CHEVRON U.S.A. INC. WEST ASSET TEAM / DIGGING PERMIT PERMIT FOR DIGGING, TRENCHING, OR EXCAVATING WITH ANY TYPE OF POWERED TOOL OR MECHANIZED EQUIPMENT

Supervisor: ROGER BOONE EPIL	Date Authorized: JUNE 6 2001
Field Location: HUGH LEASE NEVE Suily TTO	5 ROTE
Type Work: Excuvate On NTAM NATES Soil PLACE O	N DIASTIC LOAD AND MAUL to
RHIND LAND FAIM	
Specific Restrictions:	
Other	

Mechanical digging equipment should not be used within 12" of an underground line.

PERMIT REQUIREMENTS:

Basic Precautions:	Yes	Na	N/A
1. Has an underground line map been reviewed? Piping plan must be used when work is performed within a facility.			-
2. Has the person operating the digging equipment isolated the energy source and performed LOTO?			~
If electrical energy source cannot be accurately located, utilize electrical contractor with electric line locating equipment.			
3. Have digging operations been discussed w/ an employee familiar with the area?	\checkmark		
4. Has a metal detecting line finder been used in the area to be excavated?	\checkmark		
5. Are there any line markers near the excavation area?	\checkmark		
6. Is there a visible right-of-way where the digging will be done?	<u>~</u>		
7. Are there special concerns with any equipment, i.e., tank batteries, satellites, wells, buildings, power poles, etc., within 150' of the excavation area?	-		****
8. Are there special concerns with overhead power lines within 100' of the excavation?		<u>_</u>	
9. Will digging exceed 16" in depth? If yes, see Special Precaution below.			
10. Have you discussed the importance of not creating a spill and what to do if one occurs?	\checkmark		

If contact with a line results in a release of oil and or produced water contact Chevron Representative at Emergency Phone # listed below immediately.

Special Precaution:

If work is to be performed within a 3rd party right-of-way, location near a populated area, designated area, or if underground utilities are in the vicinity then 1-800-545-6005 (TX) or 1-800 321-2537 (NM) (One-Call Notification) MUST be made 48 hours in advance of any excavation work.

1.	Has One-Call Notification been called?	YES	Date of call:	JONEATH	Time of call:	11:48 Am
----	--	-----	---------------	---------	---------------	----------

2. Permitted start date and time: JUNE 6 11:30 nm Estimated duration of job:

3. One-Call Notification confirmation # _ 2001230445

THIS PERMIT MUST BE COMPLETED PRIOR TO MECHANICAL DIGGING AND AVAILABLE FOR REVIEW AT THE WORKSITE.

If contact is made with an underground line or cable, this permit will be attached to the accident report, otherwise, it should be attached to the work ticket.

Chevron Representative / Emergency Phone #

Contractor

Date

REV:SED 02:05/01 District 1 1625 N. French Dr., Hobbs, NM 88240 District II 811 South First, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 2040 South Pacheco, Santa Fe, NM 87505 Energy Minerals and Natural Resources

Oil Conservation Division 2040 South Pacheco Santa Fe, NM 87505

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action					
Name Church Barrier Ba	Contact No.				
LHEVRON USA	NATHAN T	Nouser			
P.D. Box 1949, EUNICE, MM	(505) 394-	1247			
Facility Name HUGH WELL NO. 12	Facility Type PRODUCTION FL	DWLINE			
Surface Owner Tom & W. W. Z REENAN EIN G		Lease No.			
LOCATION	OF RELEASE $API#$	30025257390000			
Unit Letter Section Township Range Feet from the North/	South Line Feet from the East/	West Line County			
H 14 22.5 37E 2310 N	lorth 330 E	Least LEA			
NATURE O	FRELEASE				
Type of Release	Volume of Release	Volume Recovered			
Source of Release Dongen Finance	Date and Hour of Occurrence	Date and Hour of Discovery			
Was Immediate Notice Given?	If YES, To Whom?	Dotrator, 12:00 pm			
Yes No X Not Required	Data and Havin				
	Date and Hour				
Was a Watercourse Reached?	If YES, Volume Impacting the Watercourse.				
If a Watercourse was Impacted, Describe Fully.*					
Broken Threads on H" Llow	+ hannan land	1.2.11 01 100			
5/21/01 Worn threads cut to good pipe, rethreaded & installed neurnipole & inin					
Describe Area Affected and Cleanup Action Taken.*					
Sandy Pasture; Vacuum Truck Dispatched to area, approximately					
Sols BSell recovered & 2 Bbls oil; Solls Pushed Up, Area will be					
Describe General Conditions Prevailing (Temperature, Precipitatio	n, etc.)* Disposed of G	142 do Fsoil in			
Plot & Dry	The Rhino Eno	Landtavin,			
	Att acheol report	+ Documents Remediation			
I hereby certify that the information given above is true and complete to the best of my knowledge and belief.	OIL CONSÉRVA	ATION DIVISION			
Signature Browle & Parker					
Printed Name: Brands K Riskan	Approved by District Supervisor				
Title: FIELD SPECIALIST	Approval Date:	Expiration Date:			
Date: 05-29 ni Phone: 29 Till	Conditions of Approval:	Attached			
$\frac{1}{2} \frac{1}{2} \frac{1}$	L				

Attach Additional Sheets If Necessary

Site Metrics and Information Form						
SITE: Chevro	on Hugh #12	Flow Lin	e	Assigned Site Re	ference #:	
Company: C	hevron USA					
Company Str	eet Address:	2401 Ave	nue O			
Company Ma	iling Addres	s: P.O. B	ox 1949			
Company Cit	ty, State, Zip	: Eunice	, New Me	xico		
Company Re	presentative:	Rick Ma	issey	······································		
Company Re	presentative	Telephon	e: 505.39	0.7188		
Company Te	lephone: 50	5.394.123	7 Fax:			
Fluid volume	released (bt	(s) = 20	with 5 rec	overed	· · · · · · · · · · · · · · · · · · ·	
>25 bbls :	Notify NMC	OCD verba	lly within	n 24 hrs and subm	it form C-141 within 15 days.	
I	(Also app	plies to un	nauthoriz	ed releases >500 m	ncf Natural Gas)	
5-25 bbls: Sul	bmit form C-14	11 within 1	5 days (Al	so applies to unautho	rized releases of 50-500 mcf Natural	
	D'. (ICD)	NI.	1 #12	Gas)		
Leak, Spill, o	or Pit (LSP)	Name: H	ugh #12	Flow Line		
Source of con	ntamination:	Product	ion Pipeli	ine /w	······································	
Land Owner,	1.e., BLM, 3	SI, Fee, (Jtner: Si	ms/Kennann		
LSP Dimensi	ons: affected	i area leal	c origin p	colling area = 40	k 20 Flow path =	
LSP Area = -	2,242 It	(DD)				
Location of	Keference Po	int (RP):	D D		<u></u>	
Location dis	tance and dif	rection fro	om KP:		· · · · · · · · · · · · · · · · · · ·	
Latitude: 32	0 23 37.5 F	<u>*****</u>			<u></u>	
Longitude:	1030 07 43.5	W	2450	I		
Elevation ab	ove mean sea	level: ~	3450 ams			
Feet from So	uth Section	Line				
Feet from W	est Section L	line			· · · · · · · · · · · · · · · · · · ·	
Location- Ur	$\frac{111 \text{ or } 44}{14} = N$	1 E 1/4				
Location-Se	$\frac{\text{ction} = 14}{1}$					
Location- Ic	wnship = 22	<u> </u>	<u> </u>			
Location- Ka	inge = 3/E	1000 (1: 0			
Surface wate	r body withi	n 1000 i	adius of s	site: None		
Domestic wa	ter wells wit	<u>hin 1000</u>	radius of	site: None		
Agricultural	water wells v	within 10	00 radius	of site: None	 	
Public water	supply wells	within 1	000 radii	us of site: None		
Depth from	land surface	to ground	water (D	G): ~60 bgs		
Depth of cor	itamination ((DC): 15	bgs		4 5 21	
Depth to ground water (DG - DC = Calculated Depth to GW) 45'bgs						
1. Groun	nd Water	2. W	ellhead P	rotection Area	3. Distance to Surface Water Body	
If Depth to GW <50 feet: 20 points		If <1000' from water source,		iter source,	<200 horizontal feet: 20 points	
If Depth to	If Depth to GW 50 to or;<200' from private domestic 200-100 horizontal feet: 10					
99 feet: 10 p	oints	water so		0017113	points	
If Depth to GW >100 If >1000' from water source, or;						
feet: 0 points >200' from private domestic water >1000 horizontal feet: 0 point						
source: 0 points						
Ground water Score = 20 Wellhead Protection Area Score= 0 Surface Water Score= 0						
Site Rank (1+2+3) = = 20 points						
Total Site Ranking Score and Acceptable Concentrations						
Parameter	>19)	l	10-19	0-9	
Benzene	<u>10 pr</u>)m		10 ppm	<u>10 ppm</u>	
BIEX.	50 pr) m		<u>50 ppm</u>	50 ppm	
TPH	<u>100 p</u>	pm	l	1000 ppm	5000 ppm	
100 ppm fie	Id VOC head	ispace me	asuremen	t may be substitut	ed tor lab analysis	

Chevron

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