ChevronTexaco

REMEDIATION DOCUMENTATION AND CLOSURE REPORT

> FOR THE PRODUCTION FLUID RELEASE ASSOCIATED WITH THE

VACUUM UNIT WELL #103
API #30025030910000

New Mexico Oil Conservation Division Case #

UL-F SE¼ OF THE NW¼ SECTION 6, T18S, R35E -1.5 mile south of Buckeye Lea County, New Mexico

Latitude 32°46'43.9"N Longitude 103°29'42.3"W

SEPTEMBER 2002

Prepared by

Environmental Plus, Inc. 2100 Avenue O P.O. Box 1558 Eunice, New Mexico 88231 Tele 505•394•3481 FAX 505•394•2601

Chellert - 216419 incident - 10 PACOGOS 44 1260 2001 Cation - 10 PACOGOS 44 1347

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EXECUTIVE SUMMARY

On June 17,2002, a production fluid leak consisting of an undetermined volume of crude oil, natural gas, and formation water occurred at the ChevronTexaco Vacuum Unit Well #103. The leak resulted from the failure of the polish rod stuffing box packing and oversprayed the caliche well pad and a vegetated area to the southwest encompassing approximately [16,612-ft]. The fluid impact was restricted to the compacted caliche well pad and flowed west and south from the well head. Only minor overspray impact was observed beyond the well pad. The ground water is estimated to occur at 89 feet below ground surface and is based on water level information obtained from the New Mexico Office of the State Engineer and the New Mexico Tech Internet Mapping System. Below are the acceptable remedial goals for the Constituents of Concern (CoCs), i.e., Total Petroleum Hydrocarbon EPA method 8015M (TPH^{8015m}), Benzene, and BTEX (the sum of Benzene, Toluene, Ethyl Benzene, and Xylene). There are no surface water bodies within 1000 horizontal feet of the site.

	Total Site Ranking Score	and Acceptable Concentra	tions
Parameter	>19 (surface to 89'bgs)	10-19 (NA)	0-9 (NA)
Benzene	10 ppm	10 ppm	10 ppm
BTEX'	50 ppm	50 ppm	50 ppm
TPH	100 ppm	1000 ppm	5000 ppm

A windmill and livestock watering tub are located ~203 feet west of the leak origin and approximately 130' from the affected area perimeter and was not observed to be impacted by the overspray but was nonetheless sampled and tested for Benzene, BTEX, Chloride, and Total Dissolved Solids (TDS). BTEX was not detected above the instrument detection limits for the specific parameter and the Chloride and TDS were within background levels, i.e., TDS = 343 mg/L and Chloride = 44 mg/L. On September 30, 2002, the windmill production flow stream was sampled for BTEX, Chloride, and TDS with no BTEX detected above the instrument detection limits and Chloride and TDS within background levels, i.e., 160 and 367 mg/L, respectively. The land is owned by the New Mexico State Land Office and leased for livestock grazing purposes to Giles Lee. At ChevronTexaco's request Environmental Plus, Inc. (EPI) of Eunice, New Mexico mitigated the spill. Mitigation activities involved treating the affected surface and vegetation with MicroBlaze Spill Control (a non-hazardous phosphate based detergent inoculated with petrophilic microbes to promote bio-attenuation) and spreading and blending clean soil into the affected near surface soil. Composite near surface (0-6"below ground surface (bgs)) samples were collected from each quadrant on June 18, 2002 and the Headspace Volatile Organic Constituent (VOC) surveyed using a calibrated Photoionization Detector (PID). Readings were all less than 50 ppm and were therefore sent to Cardinal Laboratories in Hobbs, New Mexico for analysis. Analytical results indicated the Total Petroleum Hydrocarbon EPA method 8015m (TPH^{8015m}) in the north, west, and south quadrants to be in excess of the New Mexico Oil Conservation Division (NMOCD) guideline threshold of 100 mg/Kg, consequently, approximately 60 cubic yards (yd3) of impacted near surface soil was disposed of in the New Mexico Oil Conservation Division (NMOCD) approved and permitted "Texaco Land Farm" (TLF). On June 25, 2002, soil borings were advanced to 15'bgs and sampled at 5' intervals in the north, west, and south quadrants pooling areas to determine vertical extent of contamination. BTEX was not detected above the instrument detection limit in any of the boring samples and TPH 4015m only nominally. Chloride levels in the south borehole (SBH) were < 250 mg/Kg for all but the 3'bgs and 15'bgs samples which were 300 and 480 mg/Kg, respectively. Chloride concentrations in all samples from the West Borehole (WBH) and the North Borehole (NBH) were less than 160 mg/Kg. Based on this information the excavated area was backfilled with clean soil and contoured. The information collected during the mitigation and remediation of the site indicate that the CoC remedial goals have been achieved and justifies the NMOCD requiring "no further action" at this site.

1 VACUUM UNIT WELL #103 REMEDIATION WORK PLAN

This plan restored the impacted surface area to acceptable levels by removing soil contaminated above New Mexico Oil Conservation Division (NMOCD) guidelines. The Constituents of Concern (CoCs) were Total Petroleum Hydrocarbon using EPA method 8015M (TPH^{8015m}), Benzene, BTEX, i.e., the sum of Benzene, Toluene, Ethyl Benzene, and m, p, & o Xylene, and soil Chloride.

1.1 Remediation Strategy and Objective

The site was delineated during excavation and by advancing vertical soil borings with soil disposal as the remediation strategy. The objectives of the plan were to;

- Document achievement of acceptable environmental thresholds established by the NMOCD and
- Restore the impacted surface area to pre-release status.

1.2 Occurrence

On June 17,2002, a production fluid leak consisting of an undetermined volume of crude oil, natural gas, and formation water occurred at the ChevronTexaco Vacuum Unit Well #103. The leak resulted from the failure of the polish rod stuffing box packing and oversprayed the caliche well pad and a vegetated area to the southwest encompassing approximately 16,612 ft². The fluid impact was restricted to the compacted caliche well pad and flowed west and south from the well head. Only minor overspray impact was observed beyond the well pad.

1.3 Site Description

The site is located ~1.5 miles south of Buckeye, New Mexico at Latitude 32°46'43.9"N Longitude 103°29'42.3"W and ~3,975 feet above mean sea level ('asml). A site map is included as Attachment I.

1.3.1 Historical Use

This land is owned by the State of New Mexico and leased to Giles Lee. The land is used for livestock grazing and oil and gas production facilities access.

1.3.2 Legal Description

The legal description is Unit Letter-F, in the SE¼ of the NW¼ of Section 6, Township 18 South, Range 35 East.

1.3.3 Photographic documentation

Photographs of the site are included as Attachment II.

1.3.4 Ecological Description

The area is an intergrade of the Lower Great Plains and the Upper Chihuahuan Desert Biomes consisting primarily of flat to hilly clay/loam/sand terrain dominated by typical desert grasses and weeds with interspersions of Harvard Shin Oak (Querqus harvardi) and Honey Mesquite (Prosopis glandulosa). 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.

1.3.5 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)

- 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: Verify pumping unit is locked out and tagged and forms completed. 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 Samples of the selected areas for laboratory analysis
 - Review data and calculate "Depth to Ground Water"
 - · Backfill excavations with volume consistent with disposal volume
 - Photograph
 - Develop and issue site specific report
 - Contour and/or Reseed surface

2. WORK PLAN IMPLEMENTATION AND CLOSURE

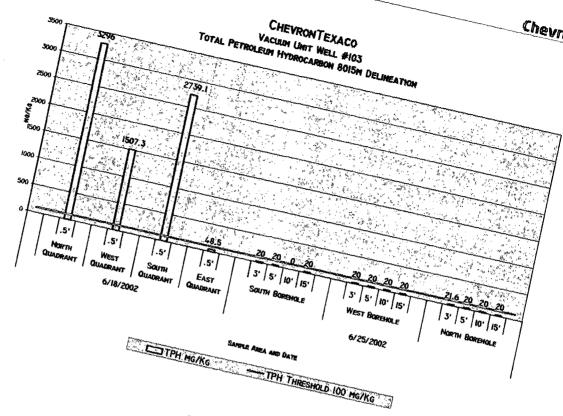
The process of excavating and disposing of contaminated soil and field surveying began on June 17, 2002 with the disposal and backfilling phase completed on June 28, 2002.

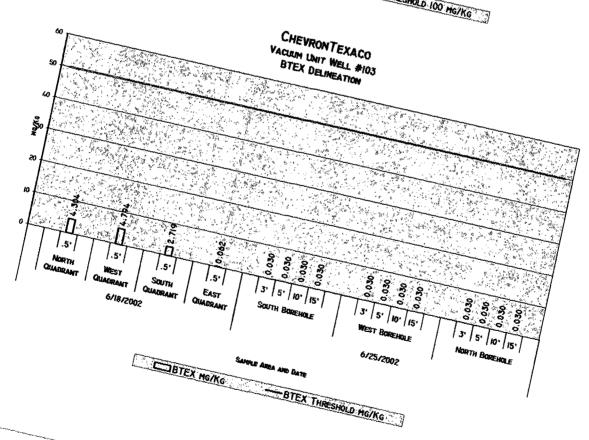
2.1 Excavation and Composite Sampling

Composite near surface (0-6"below ground surface (bgs)) samples were collected from each quadrant on June 18, 2002 and the Headspace Volatile Organic Constituent (VOC) surveyed using a calibrated Photoionization Detector (PID). Readings were all less than 50 ppm and were therefore sent to Cardinal Laboratories in Hobbs, New Mexico for analysis. Analytical results indicated the TPH^{8015m} in the north, west, and south quadrants to be in excess of the New Mexico Oil Conservation Division (NMOCD) guideline threshold of 100 mg/Kg, consequently, approximately 60 cubic yards (yd³) of impacted near surface soil was disposed of in the New Mexico Oil Conservation Division (NMOCD) approved and permitted "Texaco Land Farm" (TLF). On June 25, 2002, soil borings were advanced to 15'bgs and sampled at 5' intervals in the north, west, and south quadrants pooling areas to determine vertical extent of contamination. BTEX was not detected above the instrument detection limit in any of the boring samples and TPH^{8015m} only nominally. Chloride levels in the south borehole (SBH) were < 250 mg/Kg for all but the 3'bgs and 15'bgs samples which were 300 and 480 mg/Kg, respectively. Chloride concentrations in all samples from the West Borehole (WBH) and the North Borehole (NBH) were less than 160 mg/Kg.

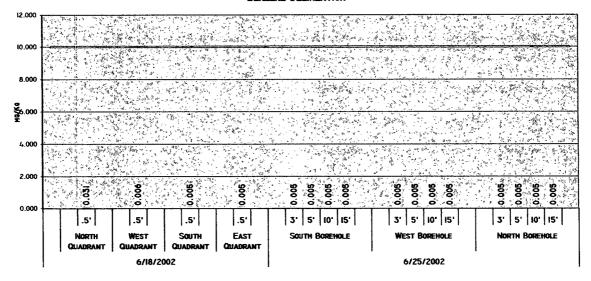
2.2 Discussion of Data

The NMOCD remedial goals have been achieved at this site. The Chloride concentrations in the South Borehole should not pose a threat to local ground water given that the surface is now covered with approximately 12" of compacted caliche. Application/treatment of the vegetated overspray area with MicroBlaze Spill Control will accelerate bio-attenuation and fertilize the area. ChevronTexaco personnel will monitor the status of the vegetation. The original laboratory analytical reports and data summary are included as Attachment III and the data is illustrated below.





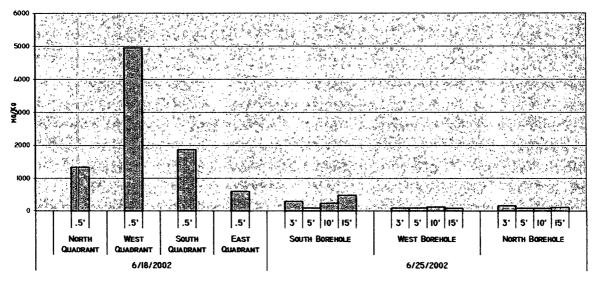
CHEVRONTEXACO VACUUM UNIT WELL #103 BENZENE DELINEATION



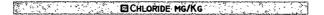
SAMPLE AREA AND DATE



CHEVRONTEXACO VACUUM UNIT WELL #103 CHLORIDE DELINEATION



SAMPLE AREA AND DATE



2.3 Soil Disposal and Backfilling

Under chain of custody, 60 yd³ was disposed of in the NMOCD approved and permitted Texaco Land Farm (TLF). A sufficient volume of clean backfill soil, i.e.60 yd³, was obtained from the TLF and used to bring the excavation to grade.

2.4 Conclusion

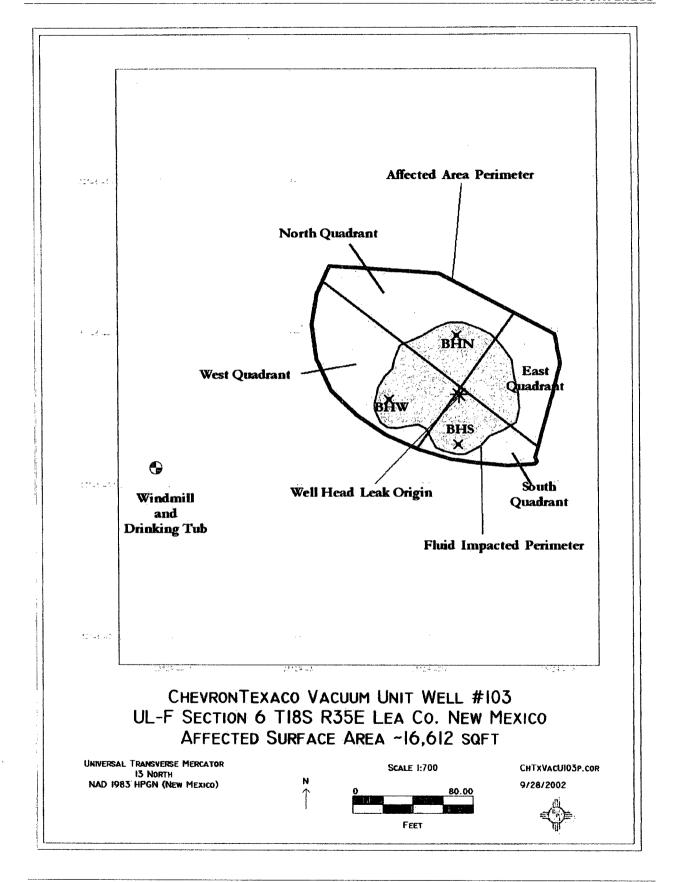
Production fluid contamination at this site resulted in soil contamination above the NMOCD remedial guidelines. The data support the conclusion that the site has been remediated to acceptable levels for the CoCs and as such justifies the NMOCD requiring "no further action" at this site.

2.5 Follow Up

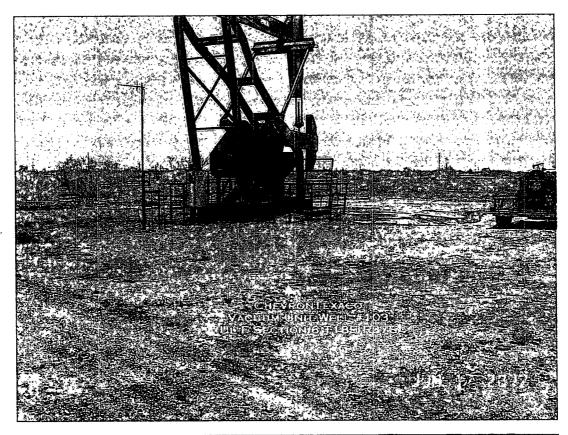
The vegetated overspray area will be visually monitored by ChevronTexaco personnel.

Chevron Site Information		Incident June 17,	Date and NMOCD Notin 2002	fied?
SITE: Vacuum		3	Assigned Site Reference	#:
Company: Ch		·		
Street Address:		d 79705		
Mailing Address	s: P.O. Box 11	50		
City, State, Zip	: Midland, 7	exas 7970)2	
Representative:	Rodney Bailey			
	Telephone: 9		74 FAX: 915.687.71	10
Telephone: (
Fluid volume re	leased (bbls):	?	Recovered (bbls): ?	·
>25 bbls: Notify l			rm C-141 within 15 days. (Also applies to una	
Leak Spill or I			s (Also applies to unauthorized releases of 50-5 m Unit Well #103	OU met Natural Gas)
	mination: Well			
			New Mexico State Land (1	eased by Giles Lee)
LSP Dimensions			NEW MEXICO State Land (1	cased by difes Ecc,
LSP Area:	16,612 ft		· · · · · · · · · · · · · · · · · · ·	
	erence Point (R			
Location distan	ce and direction	from RP		
	32°46'43.967"			
Longitude: 1	03°29'42.268"W	7		
Elevation above	mean sea level:	3975	'amsl	
Feet from South				
Feet from West	Section Line		**************************************	
Location- Unit	or ¼¼: SE¼	of the NW	7 1/4	Unit Letter: F
Location- Section				
Location- Town	ship: 18S			
Location- Range		****		
	ody within 1000			
	ody within 1000			
	wells within 10			
	wells within 10			
			ius of site: Windmill 203	3' west
	ter wells within			
Public water su	pply wells withi	n 1000' ra	dius of site: None	
	pply wells withi			
	d surface to gro		(DG) ~89'bgs	
	mination (DC) -			
Depth to groun	d water (DG – I	C = DtG	W) -	
1. Groun			lhead Protection Area	3. Distance to Surface Water Body
If Depth to GW <50 f	A		m water source, or;<200' from	<200 horizontal feet: 20 points
If Depth to GW 50 to	99 feet: 10 points		stic water source: 20 points	200-100 horizontal feet: 10 points
If Depth to GW > 100	feet: 0 points		m water source, or; >200' from stic water source: <i>0 points</i>	>1000 horizontal feet: 0 points
Ground water Score =		Wellhead Pro	tection Area Score= 20	Surface Water Score= 0
Site Rank (1+2+				
	ing Score and A			
Parameter	>19 (surface to 89 bgs)	10-19 (NA)	0-9
Benzene'	10 ppm		10 ppm	10 ррт
BLEX,	50 ppm		50 ppm	50 ppm
TPH	100 ppm	L	1000 ppm	5000 ppm
100 ppm field VOCh	eadspace measurement r	nay be substitu	ted for lab analysis	

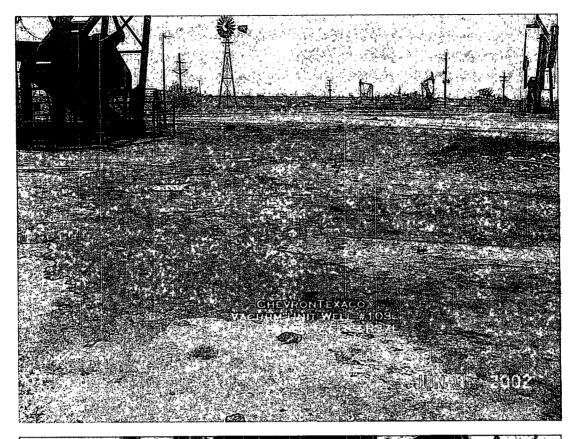
Attachment I: Site Maps

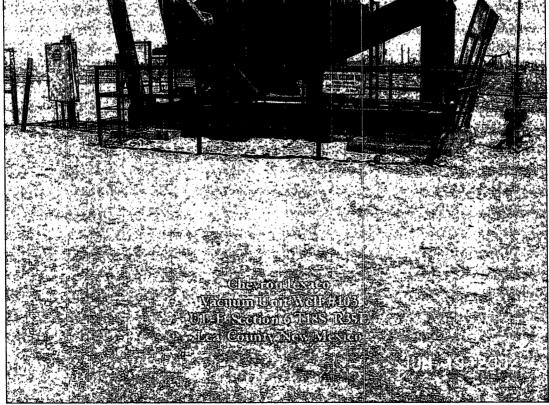


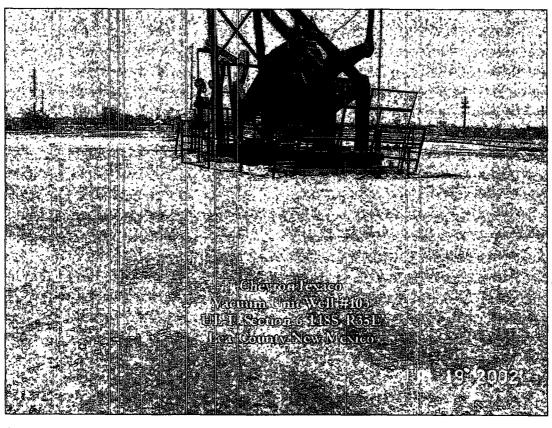
Attachment II: Photographs

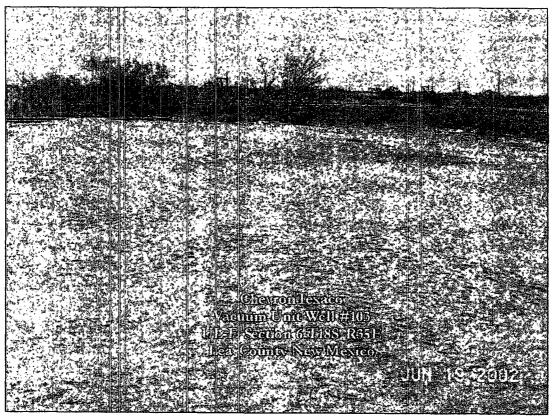


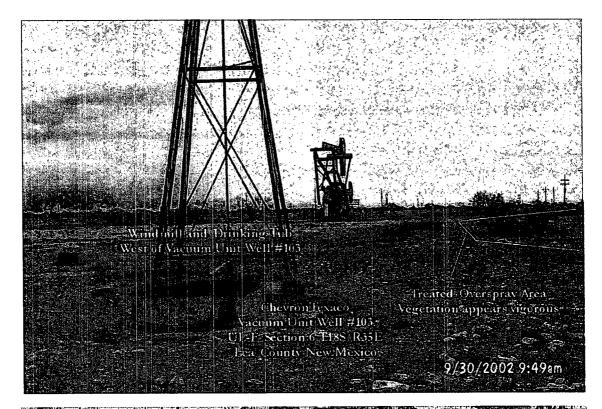














Attachment III: Analyses

					Chevron-Texaco Vacuum Unit Well #103	xaco Vacu	um U	nit We	≟ #10.								
Sample Area	Sample Type	Sampling Interval (FT. BGS')	SAMPLE ID#	Date	Lithology	HEADSPACE VOC ² (ppm)	GRO³	DRO*	TPH ⁵ mg/Kg ¹	GRO ³ DRO ⁴ TPH ⁵ BTEX Benzene mg/Kg mg/Kg mg/Kg mg/Kg			Ehtyl Benzene mg/Kg	m,p-o Xylene mg/Kg	Chloride mg/Kg	Chloride Dissolved mg/Kg Solids mg/Liter	Chloride mg/Liter
Windmill Drinking Tub	Grab	na	CTVUW10361702ST	6/17/2002	Ground Water	เกล	na	na	na	an A	<0.010	<0.010	<0.010	<0.0.30	4	343	4
Puddle (hoof print) adjacent to the Drinking Tub	Grab	nn.	CTVUW10361702HP	6/17/2002	Ground Water	na	រាន	па	na	an		<0.002	<0.002	<0.006	BU	e u	e u
Windmill	Grab	BU	WCTVU10393002	9/30/2002	Ground Water	na	BU	811	na		<0.002	<0.002	<0.002	<0.006	na	367	160
North Quadrant Comp	Comp	.9-O	CTVUW10361802N	6/18/2002	Caliche	38.2	998	2930	3296	_	0.031	0.223	1.010	3.040	13 6	na	g
West Quadrant Comp	Comp	.9-0	CTVUW10361802W	6/18/2002	Sand/Caliche	10.1	47.3	1460	1507.3	Ш	900'0	0.458	1.510	2.820	4960	108	ng
South Quadrant Comp	Comp	.9-0	CTVUW10361802S	6/18/2002	Sand/Caliche	17.9	59.1	2680	2739.1	2.719	0.005	0.401	0.903	1.410	1870	Bu	Bu
East Quadrant	Comp	.9-0	CTVUW10361802E	6/18/2002	Sand/Caliche	8.2	01	38.5	48.5	0.062	0.005	0.006	0.022	0.029	009	na	na
		33	SCTV10362502SBH-3'	6/25/2002	Caliche	4.1	10	10	20	0.030	0.005	0.005	0.005	0.015	300	118	Bu
	Grab	îs	SCTV10362502SBH-5	6/25/2002	Sand/Caliche	2.7	10	0,	20	0.030	0.005	0.005	0.005	0.015	%	na	BB
South Borehole	۰	10,	SCTV10362502SBH-10'	6/25/2002	Sand/Caliche	1,4	10	0,	20	0.030	0.005	0.005	0.005	0.015	240	na	na
	Grab	151	SCTV10362502SBH-15'	6/25/2002	Sand/Caliche	0.0	01	01	20	0.030	0.005	0.005	0.005	0.015	480	na	Bu
	Grab	į.	SCTV10362502WBH-3'	6/25/2002	Caliche	3.7	01	01	20	0.030	0.005	0.005	0.005	0.015	96	na	ng
í	Grab	5.	SCTV10362502WBH-5'	6/25/2002	Sand/Caliche	6:0	10	01	20	0.030	0.005	0.005	0.005	0.015	%	na	æ
West Dorenole	Grab	10,	SCTV10362502WBH-10'	6/25/2002	Sand/Caliche	4.0	01	01	20	0.030	0.005	0.005	0.005	0.015	120	na	na
	Grab	15'	SCTV10362502WBH-15'	6/25/2002	Sand/Caliche	0.0	01	10	20	0.030	0.005	0.005	0.005	0.015	æ	na	na
	Grab	ج	SCTV10362502NBH-3'	6/25/2002	Caliche	9.5	01	11.6	21.6	0.030	0.005	0.005	0.005	0.015	69.	Ba	g
	Grab	'n	SCTV10362502NBH-5'	6/25/2002	Sand/Caliche	0.4	10	10	92	0.030	0.005	0.005	0.005	0.015	æ	g	BC
North Borenole	Grab	10,	SCTV10362502NBH-10'	6/25/2002	Sand/Caliche	0.2	10	10	20	0.030	0.005	0.005	0.005	0.015	æ	Bu	eu
	Grab	15'	SCTV10362502NBH-15	6/25/2002	Brown Sand	0.0	10	0,	82	0.030	0.005	0.005	0.005	0.015	112	na	T18
hgs - holow ground rurface	g																
2VOC-Voladic Organic Conceminance/Consciouence	Acceminance.	Constitution															
CHO-Gesoline Range Organics Ce-Cin	panies Co-Cu																
"DRO-Diesel Range Organies Co-Ca	that Clor Cza																
FIPH-Foral Permission Hydrocarbon = GRO+DRO.	drocarbon = (GRO+DRO.															
Bolded values are in excess	of the New	Mexico Oil Conse	Bolded values are in excess of the New Mexico Oil Conservation Division guideline threshold for the	parameter													
Trailetzed values are a the instrument detection limit.	nstrument de	toction limit.															
N/A Not Analyzed																	T
Reported detection limits a	ve considered	"de minimus" vel	Reported desection limits are considered "de minimus" values and are included in the GRO/DRO and	BIEX summadons.													

VACUUM UNIT WELL #103



PHONE (805) 383-2326 . 101 E. MARLAND . HOBBS, NM 88240

ANALYTICAL RESULTS FOR CHEVRON TEXACO ATTN: RODNEY BAILEY P.O. BOX 3109 MIDLAND, TX 79702 FAX TO:

Receiving Date: 08/18/02

Reporting Date: 06/20/02 Project Owner: TEXACO

Project Name: TEXACO

Project Location: VACUUM UNIT WELL 103

Sampling Date: 06/17/02

Sample Type: GROUNDWATER Sample Condition: COOL & INTACT

Sample Received By: AH

Analyzed By: AH

		TDS	Çi
LAB NUMBER	SAMPLE ID	(mg/L)	(mg/L)

ANALYSIS D	ATE:	06/19/02	06/18/02
H6812-2	CTVUW10361702ST	343	44
Quality Contr	ol	NR	1020
True Value C	nc .	NR	1000
% Recovery		NR	102
Relative Per	ent Difference	8.8	4.0

METHODS: EPA 600/4-79-02
*Std. Methods

H6812

6-20-02

4500-CIB*

PLEASE NOTE: Liability and Demograe. Cardinal's liability and client's exclusive remedy for any claim prizing, whether issued in conteast or tont, shall be tritted to the emount paid by client for anelyses. All claims, including thisse for negligeness and any other cause arrangement will be demand whether shaded in withing and spacked by Cardinal within thiny (30) days after completen of the applicable service. In any event elect Cardinal to fishibit for incidental conceptable demands of conceptable, including, without infinition, laurises intermediated and 10 services for prime required by Cardinal so fishibit for incidental conceptable demands or otherwise.

Stiffactor or successors arising out of or related to the performance of services hermander by Cardinals, regardless of whether such claim is based upon any of the above-stated assessor or otherwise.

160.1



PHONE (508) 393-2326 . 101 E. MARLAND . HOBBS. NM 88240

ANALYTICAL RESULTS FOR CHEVRON TEXACO ATTN: RODNEY BAILEY P.O. BOX 3109 MIDLAND, TX 79702 FAX TO:

Receiving Date: 08/18/02

Reporting Date: 06/20/02 Project Owner: TEXACO Project Name: TEXACO

Project Location: VACUUM UNIT WELL 103

Sampling Date: 06/17/02

Sample Type: GROUNDWATER Sample Condition: COOL & INTACT

Sample Received By: AH

Analyzed By: BC

			ETHYL	TOTAL
	BENZENE	TOLUENE	BENZENE	XYLENES
LAB NUMBER: SAMPLE ID	(mg/L)	(mg/L)	(mg/L)	(mg/L)

ANALYSIS [06/18/02	06/18/02	06/18/02	06/18/02
H6812-1*	CTVUW10381702 HP	<0.010	<0.010	< 0.010	<0.030
H6812-2	CTVUW10361702 ST	<0.002	<0.002	<0.002	<0.008
Quality Cont		0.102	0.108	0.107	0.316
True Value (3C	0.100	0.100	0.100	0.300
% Recovery		102	108	107	105
Relative Per	cent Difference	4.1	6.7	2.9	4.8

METHOD: EPA SW-846 8280

*Dilution required due to pronounced odor and foaming during purge/trap.

whether based in contract or ton, what he limited to the amount pold by dignt for analyses in writing and received by Cardinal within thing (30) days after completion of the applicable, no. 1, business insured by client, it is subsidiaried at of profice insured by client, its subsidiaries at of whether such claim is based upon any of the above-stated reasons or otherwise.

NM 88240 3-2476	Analysis Request							sto	8 H	จ	DATE TIME								Fax Results To Pat McCasland 505-394-2601 REMARKS:	
101 East Marland, Hobbs, NM 88240 505-393-2326 Fax 505-393-2476	BIII To	0	1. 1.	Kodwey DANIEY						PRESERV.	OTHER OTHER OTHER	X	X	X					Fax Results REMARKS:	34:
101 East Mar 505-393-2326	建新加州	TEXALO	- f	Kodr			1	<u> </u>	_	MATRIX	ACUDE OIL SOIL SOIL								laff)	Checked By
ار. ا								3			# CONTAINERS # CONTAINERS # CONTAINERS)2 X		X ::		1		,	Received By:	cof & Intact
Cardinal Laboratories In 2111 Beechwood, Abilene, TX 79603 915-673-7001 Fax 915- <u>6</u> 73-7020.	ne /skaco	1		c		ner Texas	TEKACO	Project Location Vacuum Kail Will !			SAMPLE 1.D.	108 3-1071/4 W10361702 APIONIC 6	2 CTV 4 W103417625T 40116 G	CTV 4 W1036,1762 ST Quart 1 G				W	10.30 10.10	
2111 Beechwoo 915-673-7001	Company Name	Project Manager	Address	City, State, Zip	Phone#/Fax#	Project #/Owner	Project Name Texago	Project Location	Sampler Name		LAB I.D.	176812-11CT	-2 Cm	(C)					Sampler Relinquished:	Delivered by Samular



PHONE (805) 383-2828 . 101 E. MARLAND . HOBBS, NM 88240

ANALYTICAL RESULTS FOR CHEVRON TEXACO ATTN: RODNEY BAILEY P.O. BOX 3109 MIDLAND, TX 79702 FAX TO:

Receiving Date: 06/19/02

Reporting Date: 08/21/02 Project Number: NOT GIVEN

Project Name: CHEVRON TEXACO

Project Location: VACUUM UNIT WELL 103

Sampling Date: 06/18/02

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: BC

Analyzed By: BC

LAB NUMBI	ER SAMPLE ID	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS	DATE	08/19/02	06/19/02	06/19/02	08/19/02
H6814-1	CTVUW10361802N	0.031	0.223	1.01	3.04
H8814-2	CTVUW10361802W	0.008	0.458	1.51	2.82
H6814-3	CTVUW10361802S	<0.005	0.401	0.903	1.41
H6814-4	CTVUW10351802E	<0.005	0.008	0.022	0.029
Quality Con	Irol	0.107	0.102	0.101	0.290
True Value	QC	0.100	0.100	0.100	0.300
% Recovery		107	102	101	97.6
Relative Pe	rcent Difference	5.0	6.1	5.7	8.9

METHOD: EPA SW-846 8260

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PLEASE NOTE: Listelly and Demograe. Continents inchies and clients evolutive sensely for any claims ending, whether based in contract or lost, shall be finited to the amount paid by client for analysis.

All californ, inchies places for negligations and any other cause whether we also be decreated unless made in writing and received by Cerdand villab being (30) days after completion of the applicate control by Cerdand villab being (30) days after completion of the applicate control by Cerdand by Cerdand villab being (30) days after completion of the applicate control by Cerdand being control by Cerdand by Cer



PHONE (505) 383-2326 . 101 E. MARLAND . HOBBS, NM 88240

ANALYTICAL RESULTS FOR CHEVRON TEXACO ATTN: RODNEY BAILEY P.O. BOX 3109 MIDLAND, TX 79702 FAX TO:

Receiving Date: 06/19/02

Reporting Date: 08/20/02

Project Number: NOT GIVEN

Project Name: CHEVRON TEXACO
Project Location: VACUUM UNIT WELL 103

Sampling Date: 08/18/02

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: BC Analyzed By: BC/AH

		GRO	DRO	
		(C ₆ -C ₁₀)	(>C10-C28)	CI*
LAB NUMBER SAMPLE ID	•	(mg/Kg)	(mg/Kg)	(mg/Kg)

ANALYSIS	DATE	08/19/02	08/19/02	06/20/02
H8814-1	CTVUW10361802N	366	2930	1340
H8814-2	CTVUW10381802W	47.3	1460	4960
H6814-3	CTVUW103818028	59.1	2680	1870
H6814-4	CTVUW10361802E	<10.0	38.5	600
Quality Con	trol	784	818	1020
True Value		800	800	1000
% Recover		95.4	102	102
	rcent Difference	7.3	2.3	4.0

METHODS: TPH GRO & DRO: EPA SW-848 8015 M; CI: Std. Methods 4500-CIB *Analyses performed on 1:4 w.v aqueous extracts.

Chemist Salf A Cooke

6/20/02

Date

H6814A.XLS

PLEASE NOTE: Liability and Damages. Cardinal's Rabilly and clients exclusive remedy for any claim scients, whether bessed in countries or toris, shall be limited to the amount paid by client for analyses. All clients, instauring those for medical and say other cause whetherwise stad be deemed unless made in writing and sactioned by Cardinal within thiny (SI) days after completion of the applicable. In no country that Cardinal be lightly for inchanged by client, it is subscient, but subscients, inchanged by client, it is subscients. In a subscient of the particular day of the above-stand reasons or otherwise.

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

ANALYTICAL RESULTS FOR CHEVRON TEXACO ATTN: RODNEY BAILEY P.O. BOX 3109 MIDLAND, TX 79702 FAX TO:

Receiving Date: 06/26/02 Reporting Date: 06/28/02

Project Owner: CHEVRON TEXACO

Project Name: VACUUM UNIT WELL 103

Project Location: NOT GIVEN

Sampling Date: 06/25/02 Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: AH

Analyzed By: BC/AH

,		GRO	DRO	
		(Ce-C10)	(>C ₁₀ -C ₂₈)	CI*
LAB NUMBER SAMPLE ID	•	(mg/Kg)	(mg/Kg)	(mg/Kg)

ANALYSIS [DATE	08/27/02	08/27/02	06/28/02
H8845-1	SCTV10382502SBH-3'	<10.0	<10.0	300
H6845-2	SCTV103625028BH-5'	<10.0	<10.0	96
H8845-3	SCTV103625028BH-10'	<10.0	<10.0	240
H8845-4	SCTV10382502SBH-15	<10.0	<10.0	480
H6845-5	SCTV10362502WBH-3'	<10.0	<10.0	96
H6845-6	SCTV10362502WBH-6'	<10.0	<10.0	96
H8845-7	SCTV10362502WBH-10"	<10.0	<10.0	120
H6845-8	SCTV10362502WBH-15'	<10.0	<10.0	80
H6845-9	SCTV10362502NBH-3'	<10.0	11.6	160
H6845-10	SCTV10362502NBH-5'	<10.0	<10.0	80
H6845-11	SCTV10382502NBH-10	<10.0	<10.0	80
H8845-12	SCTV10362502NBH-15'	<10.0	<10.0	112
Quality Conf	iroi	718	766	1040
True Value	3C	800	800	1000
% Recovery		89.7	95.8	104
Relative Per	cent Difference	2.2	8.4	2.0

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

H8845A.XLS

PLEASE NOTE: Liability and barriages. Cardinar's fainty and client's extudes remedy for any claim arising, whether based in contract or ton, shall be limited to the on.
All claims, including more for recipilization and any other cause whatsoever shall be deprined values must be written and to recover by Cardinar within party (30) days a service. In no event shall be cardinar within party (30) days a service. In no event shall be cardinar within party (30) days a service. In no event shall be cardinar be labeled to make the contamination of services in the cardinary of the performance of services for required by Labeled to the performance of services for required by Labeled to the services of profits in



PHONE (505) 393-2328 . 101 E. MARLAND . HOBBS. NM 88240

ANALYTICAL RESULTS FOR CHEVRON TEXACO ATTN: RODNEY BAILEY P.O. BOX 3109 MIDLAND, TX 79702 FAX TO:

Receiving Date: 05/26/02

Reporting Date: 06/28/02

Project Owner: CHEVRON TEXACO

Project Location: NOT GIVEN

Project Name: VACUUM UNIT WELL 103

Sampling Date: 06/25/02

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: AH

Analyzed By: BC

LAB NO.	SAMPLE ID	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS	DATE	08/27/02	06/27/02	08/27/02	08/27/02
H8845-1	SCTV10362502SBH-3*	< 0.005	<0.005	< 0.005	<0.015
H8845-2	SCTV10362502SBH-5	<0.005	< 0.005	< 0.005	<0.015
H8845-3	SCTV10362502SBH-10'	<0.005	0.008	<0.005	<0.015
H8845-4	SCTV10382502SBH-15	<0.005	< 0.005	< 0.005	<0.015
H8845-5	SCTV10362502WBH-3'	<0.005	<0.005	<0.005	<0.015
H8845-6	SCTV10362502WBH-5	<0.005	< 0.005	<0.005	<0.015
H6845-7	SCTV10362502WBH-10'	<0.005	<0.005	<0.005	<0.015
H6845-8	SCTV10362502WBH-15	<0.005	<0.005	< 0.005	<0.015
H8845-9	SCTV10362502NBH-3"	<0.005	<0.005	< 0.005	<0.015
H8845-10	SCTV10362502NBH-5	<0.005	<0.005	< 0.005	<0.015
H6845-11	SCTV10382502NBH-10	<0.005	<0.005	< 0.005	<0.015
H6845-12	SCTV10362502NBH-15'	<0.005	<0.005	<0.005	<0.015
Quality Cor	trol	0.102	0.097	0.100	0.288
True Value	QC	0.100	0.100	0.100	0.300
% Recover	7	102	97.0	99.7	95.9
Relative Pe	rcent Difference	0.3	5.1	4.3	3.9

METHOD: EPA SW-846 8260

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PLEASE NOTE: Liability and Demages. Cardinal's liability and clearts acclusive remedy for any claim erising, whether based in contract or tort, small be limited to the emount paid by clear for enables of the property of the country of the cause whether is the operand of the property of the cause of the property of the cause whether is the operand of the property of the cause of the operand of the property of the cause of the operand of the property of the cause of the operand of the property of the property of the cause of the cause of the property of the cause of the caus

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PHONE (505) 393-2326 . 101 E. MARLAND . HOBBS. NM 68240

ANALYTICAL RESULTS FOR CHEVRON TEXACO ATTN: RODNEY BAILEY P.O. BOX 3109 MIDLAND, TX 79702 FAX TO:

Receiving Date: 09/30/02 Reporting Date: 10/03/02

Project Number: NOT GIVEN
Project Name: VACUUM UNIT #103
Project Location: BUCKEYE, NM

Sampling Date: 09/30/02

Sample Type: GROUNDWATER Sample Condition: COOL & INTACT

Sample Received By: BC

Analyzed By: AH

		TDS	CI
LAB NUMBER	SAMPLE ID	(mg/L)	(mg/L)

ANALYSIS D	ATE:	10/02/02	10/01/02
H/ 7089 -1	WCTVU10393002WM	367	160
Quality Cont	roi	NR	940
True Value (ac	NR	1000
% Recovery	1	NR	94.0
Relative Per	cent Difference	8.8	6,0

METHODS: EPA 600/4-79-02 16	60.1	4500-CIB*

*Std. Methods

HZUSO

Date

PLEASE NOTE: Unbillity and Deverages. Cerdina're fability and classifs exclusive sementy for any claim arising, whother based in contract or toot, which be limited to the amount peid by client for analyses. All claims, including these for regifigance and any other cases whichover shall be desired waived unless making and excelled by Cerdinal within thiny (30) days after competition of the applicable service. In me oversit shall Cardinate be facility for including, which the including which is the



PHONE (605) 383-2326 . 101 E. MARLAND . HOBBS, NM 88240

ANALYTICAL RESULTS FOR CHEVRON TEXACO ATTN: RODNEY BAILEY P.O. BOX 3109 MIDLAND, TX 79702 FAX TO:

Receiving Date: 09/30/02

Reporting Date: 10/03/02
Project Number: NOT GIVEN

Project Name: VACUUM UNIT #103

Project Location: BUCKEYE

Sampling Date: 09/30/02

Sample Type: GROUNDWATER Sample Condition: COOL & INTACT

Sample Received By: BC

Analyzed By: BC

·				ETHYL	TOTAL
		BENZENE	TOLUENE	BENZENE	XYLENES
LAB NUMBER SAMPLE ID	•	(mg/L)	(mg/L)	(ma/L)	(ma/L)

ANALYSIS I	ATE	09/30/02	09/30/02	09/30/02	09/30/02
H7089-1	WCTVU10393002WM	<0.002	<0.002	<0,002	<0.008
					
	•				
				<u> </u>	
Quality Cont	rol	0.103	0.103	0.108	0.310
True Value (XC .	0.100	0.100	0.100	0.300
% Recovery		103	103	108	103
Relative Per	cent Difference	0.3	0.2	0.7	0.8

METHOD: EPA SW-846 8260

10/3/01

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PLEASE NOTE: Listeling and Demograe, Confined behalf and claims exclusive grounds for any claim existing, whether beand in contract or tort, shall be limbed to the amount paid by client for analyzer.

All claims, including thoughts represent any other cause whateboxes shall be demond where making and received by Condition think (bits) (20) days after completion of the applicable.

All claims, including thoughts represent the behalf or included or consequential damages, including, which inhibition, business thermodors, loss of use, or loss of profess fractured by direct, its substitutions without the participant of the performance of services hereunder by Condition, regardless of whether such claim is based upon any of the above-cated exercise or otherwise.

Project Name Project Location City, State, Zip Phone#/Fax# Company Name Project Manager Relinguished by: Sampler Relinquished: Sampler Name Address 915-673-7001 Fax 915-673-7020 2111 Beechwood, Abilene, TX 79603 Project #/Owner Delivered by Sampler 17089 Cardinal Laboratories Inc. LAB LD. WCTVU10393002WM SAMPLE LD. Buckeye Roger Boone Vacuum Unit# Rodney Bailey Chevron Texaco Date 12 Required By: Date? 30 Received By: Q (C)RABOR (C)OMP. # CONTAINERS Thtaty **GROUND WATER** No WASTEWATER MATRIX SOIL 101 East Marland, Hobbs, NM 88240 505-393-2326 Fax 505-393-2476 Checked CUDE OIL SLUDGE Ву OTHER: ACID/BASE Same віш То PRESERV. REMARKS: Fax Results To Pat McCasland 505-394-2601 ICE/COOL OTHER 9/30 RLVO SAMPLING 8:30 TIME × **BTEX 8021B TPH 8015M** CI × TDS **Analysis Request**

Attachment IV: New Mexico Office of the State Engineer Well Reports

New Mexico Office of the State Engineer

Page 1 of 1

		fice of the State Engineer orts and Downloads	
Township: 178	Range: 34E	Sections: 36	
NAD27 X:	Y:	Zone: Search Radius:	•
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		r Column Report	
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AVERAGE DEPTH OF WATER REPORT 09/28/2002

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			Well	/ Surl	ace Data Re				to Water	Report	<u> </u>
	ga		Well	/ Surl	ace Data Re	Water		ort	to Water	Report	
		AVERA		en e		Water	Cotumn Rep WATERS	Menu		Report	<u>.</u>
		AVERA		en e	Clear For	Water	Cotumn Rep WATERS	Menu 2	Help		
Bsn	Tws		GE DEP	en e	Clear For	Water	Column Rep WATERS I	Menu 2	Help	in Feet)	
Bsn L	Tws 185	AVERA Rng 35E	GE DEP	rh oi	Clear Fon	Water	Column Rep WATERS I	Menu 2 (Depth	Help Water		
		Rng	GE DEP	rh oi	Clear Fon	Water	Column Rep WATERS I 09/28/200	Menu 2 (Depth Min	Help Water Max	in Feet) Avg	

Record Count: 20

http://seowaters.ose.state.nm.us/awdProd/awd.html?email_address=enviplus1@aol.com&t... 9/28/2002

Attachment V: Site Metrics and Information Form

Attachment VI: Chevron Digging Permit

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: Ruding Bailey Eldie 5 th		6-17-02	
Type Work: Back diagram + fx		Jel Soil	
MERGENCY LEAK KEPB.	Y CONTRACTOR		
Specific Restrictions: /			
Mechanical digging equipment should not be us	ed within 12" of an underground	line.	
PERMIT REQUIREMENTS:			
Basic Precautions:		Yes No	N/A
Has an underground line map been reviewed? Piping plan mus be used when work is performed within a facility.	***************************************		
2. Has the person operating the digging equipment isolate			
and performed LOTO? If electrical energy source cannot be accurately located, utilize elect	trical contractor with electric line locating equip	ment.	
3. Have digging operations been discussed w/ an employe	ee familiar with the area?	<u> </u>	·transmanants
4. Has a metal detecting line finder been used in the area	to be excavated?		
5. Are there any line markers near the excavation area?.	***************************************		
6. Is there a visible right-of-way where the digging will b	oe doné?		-
7. Are there special concerns with any equipment, i.e., ta buildings, power poles, etc., within 150° of the excavati	nk batteries, satellites, wells, ion area?		•
8. Are there special concerns with overhead power lines w	within 100' of the excavation?		
9. Will digging exceed 16" in depth? If yes; see Special Precaution below:		·	
10. Have you discussed the importance of not creating a s	spill and what to do if one occurs?	'	,
If contact with a line results in a release of oil and or produced water	contact Chevron Representative at Emergenc	y Phone # listed below imm	ediately.
Special Precaution: If work is to be performed within a 3 rd party right-of- utilities are in the vicinity then 1-800-545-6005 (TX) or in advance of any excavation work.	way, location near a populated area, 1-800-321-2537 (NM) (One-Call Not	designated area, or i	f underground nade 48 hours
I. Has One-Call Notification been called? Y 55	Date of call: 6-17-02	Time of call:	1.45An
2. Permitted start date and time: 6-19-02	21:45 p. Estimated duration of j	ob: 6-19-	-02_
3. One-Call Notification confirmation # 2062 3	250565		
THIS PERMIT MUST BE COMPLETED PRIOR TO REVIEW AT THE WORKSITE. If contact is made with an underground line or cable, this it should be attached to the work ticket.			
Rodry Bailer	22.1	ć	672-02
Chevron Representative / Emergency Phone #	Contractor	<u> </u>	Date
REVISED 0205/01			

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: Robby Barby Elder 5 Harry Date Authorized: 6-17-02	
Type Work: Back diagrily + Exenuating Contaminant ed Suic	
Specific Restrictions:Other:	
Mechanical digging equipment should not be used within 12" of an underground line.	*
PERMIT REQUIREMENTS:	
Basic Precautions: Yes N	lo N/A
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 autilize electrical contractor with electric line locating equipment.	
3. Have digging operations been discussed w/ an employee familiar with the area?	
4. Has a metal detecting line finder been used in the area to be excavated?	
5. Are there any line markers near the excavation area?	
6. Is there a visible right-of-way where the digging will be done?	
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?	
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?	f
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 3 rd party right-of-way, location near a populated area, designated area, utilities are in the vicinity then 1-800-545-6005 (TX) or 1-800-321-2537 (NM) (One-Call Notification) MUST in advance of any excavation work.	or if undergroun be made 48 hour
1. Has One-Call Notification been called? Y! Date of call: 6-17-az Time of call:	11:45An
2. Permitted start date and time: 6-19-02 //: 45 ex Estimated duration of job:	· · · · · · · · · · · · · · · · · · ·
3. One-Call Notification confirmation # 2002 250 4/6	
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.	
Rudy Bailer Chevron Representative / Emergency Phone # Contractor	Date
SSEVERS	

02:05:01



Energy Control (Lockout/Tagout) Procedures

FFECTIVE
1-1-92

12-1-96

SOP
Denver Division

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APPENDIX 7.A, Annual Inspection Certification Form

Sequence of Applying Energy Controls:

Indicate if the sequence of applying energy controls was followed by checking/the appropriate line.

Energy isolation was applied only by an authorized employee. All affected employees were notified. Equipment was prepared for shut down (types and level/quantity of energy and hazards involved). Equipment was properly shut down using correct operating controls. Equipment was isolated (operate all energy devices to assure that the equipment is isolated from the energy source). Lockout and tagout devices were applied. Provision was made for control of stored energy (stop all moving parts, install ground wires, relieve trapped pressure, release tension springs, block hydraulic parts, bleed lines down, blind or blank flanges, watch for stored energy to reaccumulate). Isolation of equipment was verified (clear of personnel, unnecessary tools and equipment). Work was performed while watching for any work operations that could reactivate the equipment.

10. When work was finished, lockout/tagout device was removed.

APPENDIX 7.B (cont.) Annual Inspection Log Book Example.

The following is a record of the Annual Inspection Performance of the energy control procedures in place for the authorized employees and equipment involved in lockout/tagout operations.

Date of	Authorized Employee(s)	Equipment on which Foaray Control Applied	Name of Inspector	Comments	Signature of Inspector
inspection	inspecies.	Photo Martell 183	Fally 5 HALPE	Lock on Togout # Sheef	Eldu Mayar
20/2012	J 0 1	atolle were wheel in		1 " AL	
	We've	de Contain soil in		11 11 #3	
	Word Hybridia	כשימונג מכת מת גוו יפס			