SITE INFORMATION Report Type: Closure Report General Site Information: Owl 20504 JV-P Well #5 Site: COG Operating LLC Company: **T26S** R27E Section, Township and Range Unit J Sec 18 API-30-015-35135 Lease Number: **Eddy County** County: GPS: 32.04119° N 104.22750° W Surface Owner: Federal Mineral Owner: South of Malaga at the intersection of Hwy 285 and CR 724 (White City Rd), travel west on CR Directions: 724 for 11.2 miles, turn left (south) on CR 742 (John D. Forehand) and travel 2.3 miles, turn left (east) and travel 1.0 mile to the site. Release Data: Date Released: 3/10/2013 Produced Water Type Release: Source of Contamination: Fiberglass Line 10 bbls Fluid Released: Fluids Recovered: 0 bbls Official Communication: Name: Robert McNeill Ike Tavarez Company: COG Operating, LLC Tetra Tech Address: One Concho Center 1910 N. Big Spring 600 W. Illinois Ave. City: Midland Texas, 79701 Midland, Texas Phone number: (432) 686-3023 (432) 682-4559 Fax: (432) 684-7137 rmcneill@concho.com Email: ike.tavarez@tetratech.com Ranking Criteria Ranking Score Depth to Groundwater: Site Data <50 ft 20 20 10 50-99 ft >100 ft. 0 WellHead Protection: Ranking Score Site Data Water Source <1,000 ft., Private <200 ft. 20 Water Source >1,000 ft., Private >200 ft. 0 Surface Body of Water: Ranking Score Site Data <200 ft. 200 ft - 1,000 ft. 10 >1.000 ft. 0 Total Ranking Score: JAN 24 2014 Acceptable Soil RRAL (mg/kg) Benzene Total BTEX TPH 10 50 100



October 23, 2013

Mr. Mike Bratcher
Environmental Engineer Specialist
Oil Conservation Division, District 2
811 S. First Street
Artesia. New Mexico 88210

Re: Closure Report for the COG Operating LLC., Owl 20504 JV-P Well #5, Unit J, Section 18, Township 26 South, Range 27 East, Eddy County, New Mexico.

Mr. Bratcher:

Tetra Tech, Inc. (Tetra Tech) was contacted by COG Operating LLC. (COG) to assess a spill from the Owl 20504 JV-P Well #5 located in Unit J, Section 18, Township 26 South, Range 27 East, Eddy County, New Mexico (Site). The spill site coordinates are N 32.04119°, W 104.22750°. The site location is shown on Figures 1 and 2.

Background

According to the State of New Mexico C-141 Initial Report, the leak was discovered on March 10, 2013, and released approximately ten (10) barrels of produced water from a fiberglass line on the pad. To alleviate the problem, COG personnel replaced the line. Zero (0) barrels of standing fluids were recovered. The spill initiated and remained on the facility pad and measured approximately 60' \times 175', 30' \times 100' and 50' \times 70'. The initial C-141 form is enclosed in Appendix A.

Hydrogeology and Groundwater

According to the Geology and Groundwater Resources of Eddy County, New Mexico (Report 3), the Rustler and Castile formation (Ochoa Series) is present west and east of the Pecos River. The Salado formation overlies the Castile formation east of the Pecos River and was removed by solution west of the river. The Rustler and Castile formations consist of anhydrite, gypsum, interbedded sandy clay and beds of dolomite. Groundwater from the Castile and Rustler formations west of the Pecos River is historically high in chloride and sulfate concentrations which increase towards the river.

Tel 4326824559



According to the USGS, no water wells are listed in Section 18. One water well is reported in Section 22, with a depth to groundwater of 50.0' below surface. In addition, a well is reported in Section 5, with a depth to groundwater of 12.0' below surface. According to the NMOCD groundwater map the reported depth to groundwater in this area is approximately 25.0' below surface. The groundwater data is shown in Appendix B.

Regulatory

A risk-based evaluation was performed for the Site in accordance with the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills and Releases, dated August 13, 1993. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. The proposed RRAL for benzene was determined to be 10 parts per million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene, and xylene). Based upon the depth to groundwater, the proposed RRAL for TPH is 100 mg/kg.

Soil Assessment and Analytical Results

On April 4, 2013, Tetra Tech personnel inspected and sampled the spill area. Ten (10) auger holes (AH-1 through AH-10) were installed using a stainless steel hand auger to assess the impacted soils. Selected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C. The sampling results are summarized in Table 1. The auger hole locations are shown on Figure 3.

Referring to Table 1, none of the samples selected exceeded the TPH or BTEX RRAL's. Elevated chloride concentrations were detected in all of the auger holes, except in the area of AH-1. Auger holes (AH-2 and AH-3) showed a chloride in the shallow soils at depths of approximately 1.0' to 2.0' and the deeper samples significantly declined with depth. The areas of AH-4 through AH-10 had elevated chloride concentrations and detected bottom hole samples of 8,610 mg/kg (5.5'), 7,630 mg/kg (3.5'), 11,800 mg/kg (3.5'), 2,720 mg/kg (3.5'), 1,980 mg/kg (3.5'), 4,820 mg/kg (3.5') and 1,380 mg/kg (5.5'), respectively. These auger hole locations were not vertically defined.

On May 8, 2013, Tetra Tech supervised the installation of seven (7) soil borings (SB-1 through SB-7) using an air rotary drilling rig to assess the impacted soils. The soil borings were installed to a maximum depth of 30.0' below surface. Copies of laboratory analysis chain-of-custody documentation are included in Appendix D. The soil boring results are summarized in Table 1. The soil boring locations are shown on Figure 3.



Referring to Table 1, chloride concentrations were detected in all of the soil borings. However, the impact soils were vertically defined and significantly declined at depths ranging from 5.0' to 15.0' below surface.

Upon further review, a suspected closed reserve pit appears to be in the area of AH-4. The samples from 0 to 3.0' below surface did not show a chloride impact to the shallow soils. In addition, a 2008 aerial photograph (Figure 5) shows what appears to be a closed reserve pit in the area. According to the well site information, the reserve pit drilling mud was removed and hauled to proper disposal. Correspondence on the well site is enclosed in Appendix C. Based on the results, the spill did not impact the area and the chlorides detected appear to be from a former closed reserve pit. Therefore, COG will not excavated or disturb this area.

Remediation and Conclusion

On April 5, 2013, Tetra Tech personnel supervised the excavation of the impacted soils. The excavated areas and depths are highlighted in Table 1 and shown on Figure 4. In order to remove the elevated chloride concentrations, AH-2 and AH-3 were excavated to 2.0'; AH-5, AH-6 and AH-8 were excavated to 3.0-4.0' and AH-7, AH-9 and AH-10 were excavated to 4.0-5.0' below surface. A 40 mil liner was installed in the areas of AH-5, AH-6 and AH-8 to cap the remaining impact.

Approximately 2,000 cubic yards³ of soil were removed and transported to R360 facility for proper disposal. The site was then backfilled with clean material to surface grade.

Based on the remediation activities performed at this location, COG requests closure for this site. The C-141 (Final) is included in Appendix A. If you have any questions or comments concerning the assessment or the remediation activities performed at the site, please call me at (432) 682-4559.

Respectfully submitted,

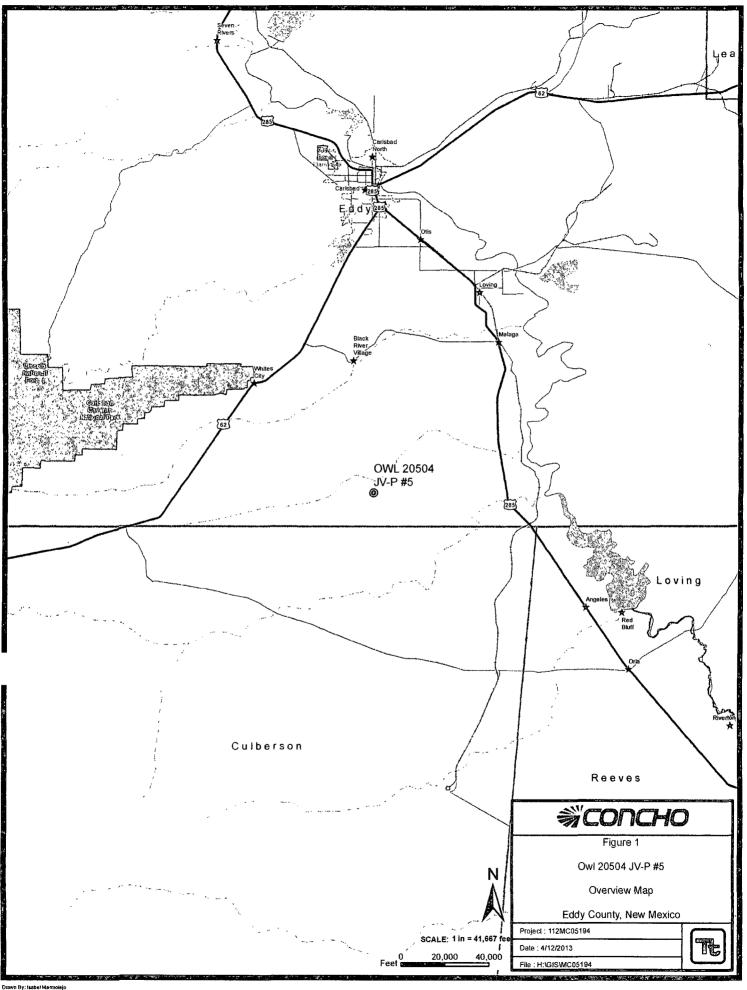
Ike Tavarez, PG

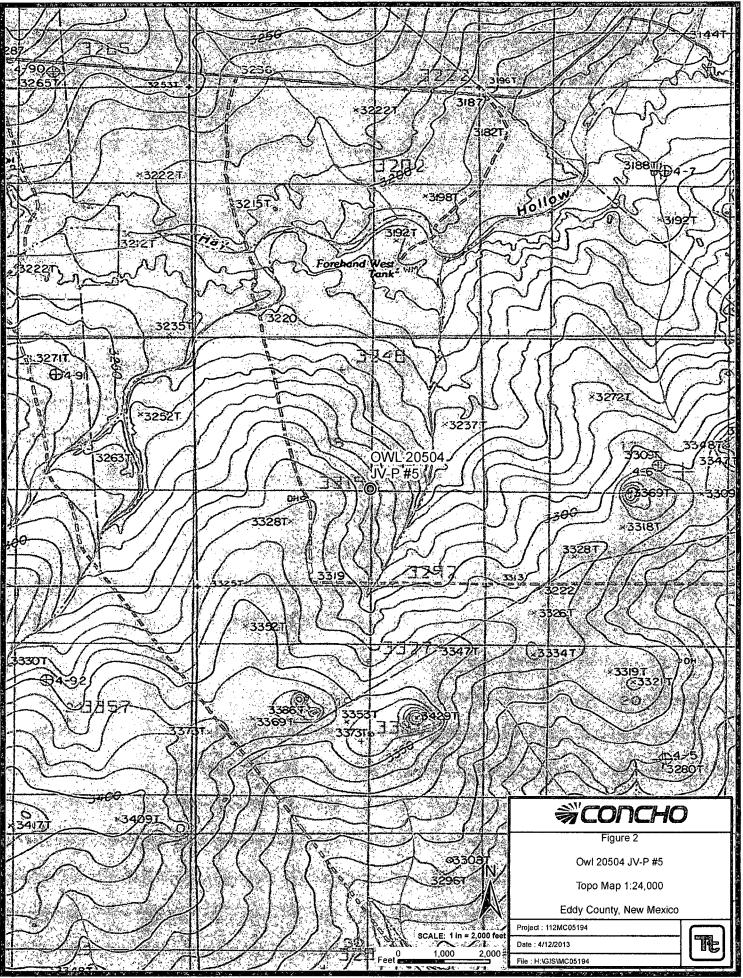
Senior Project Manager

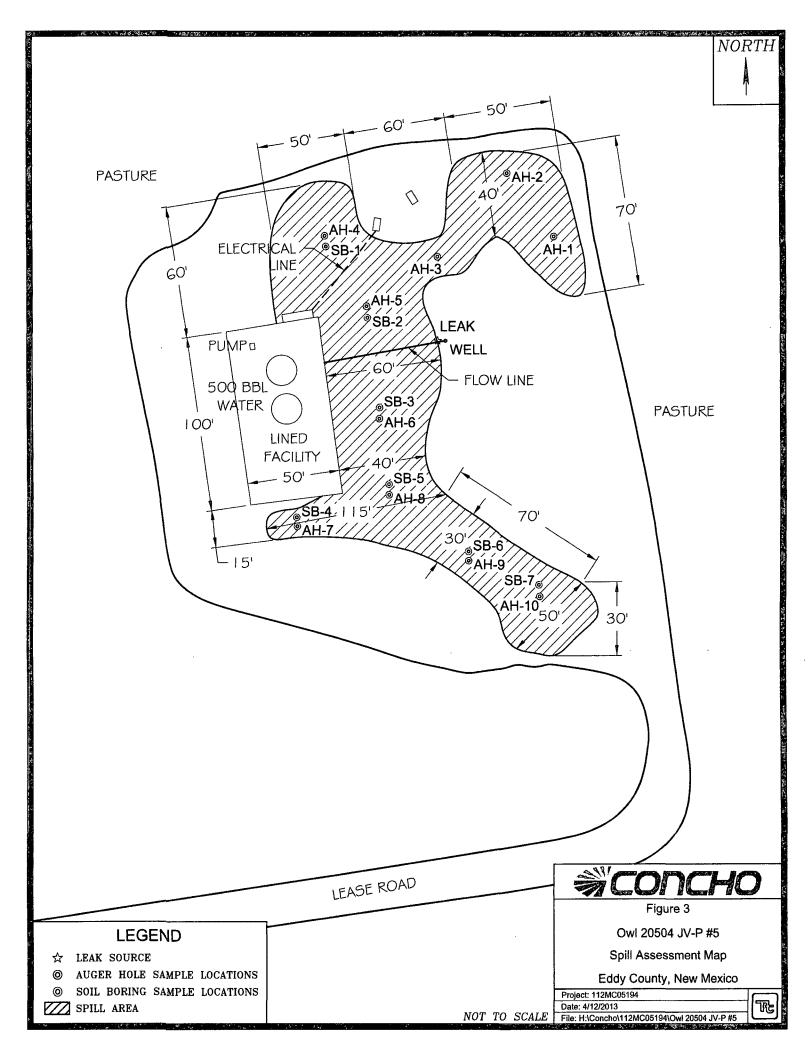
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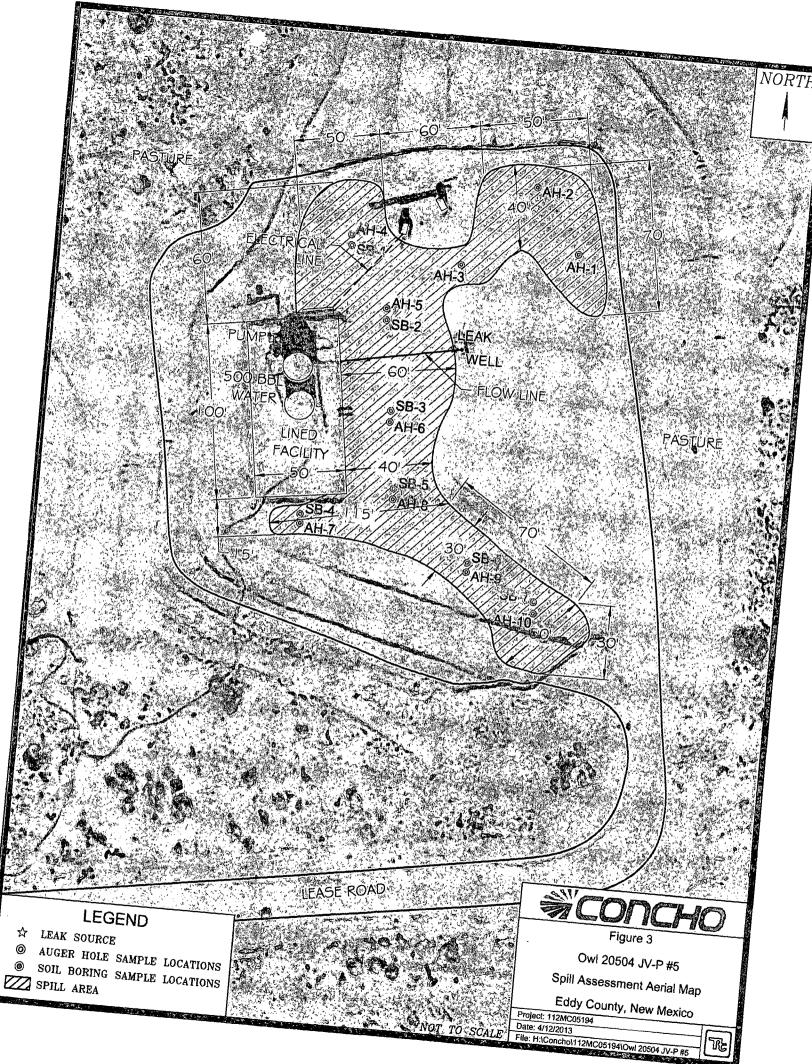
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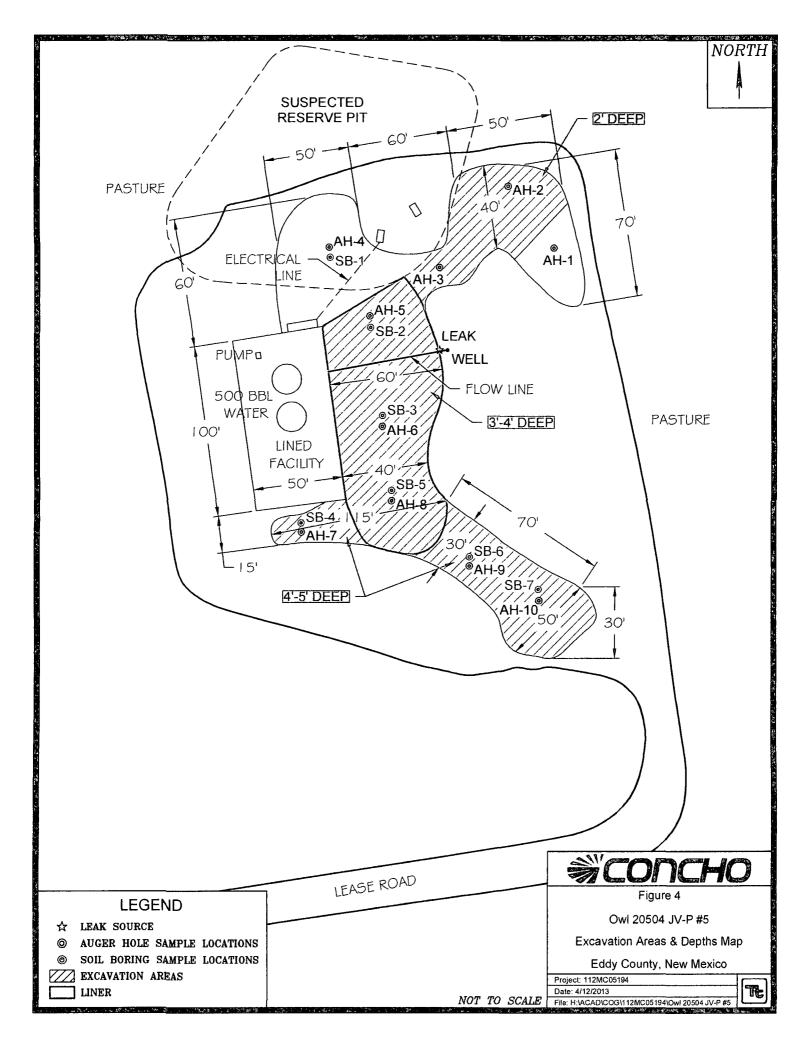
Figures

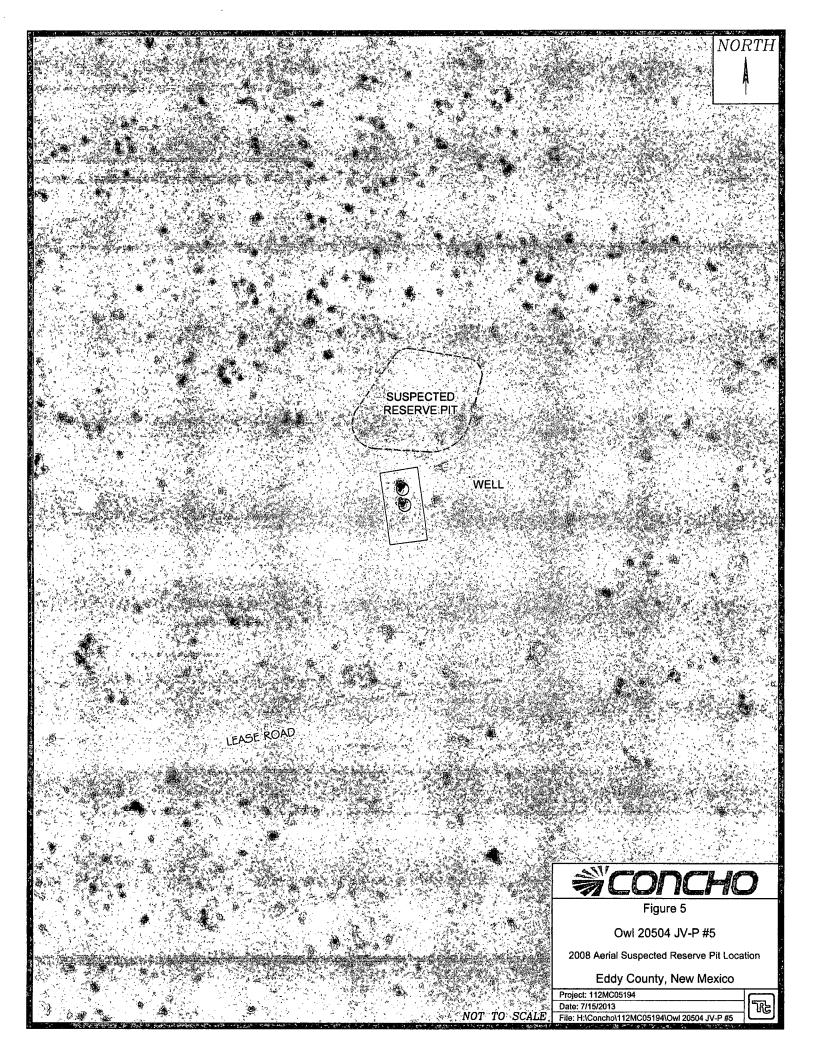












Tables

Table 1
COG Operating LLC.
Owl 20504 JV-P #5
Eddy County, New Mexico

Comple ID	Sample	BEB	Excavation Bottom	Soil	Status		ΓΡΗ (mg/k	g)	Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
Sample ID	Date	Sample Depth (ft)	Depth (ft)	In-Situ	Removed	GRO	DRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
AH-1	4/4/2013	0-1	0	Х		<4.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	959
	61	1-1.5	n	Х		-	-	-	-	-	-	-	+	98.9
	11	2-2.5	n	Х		-	-	-	-	-	_	-	-	119
	ii.	3-3.5	ıı	Х		-	-	-	-	-	-	-	-	63.9
	11	4-4.5	11	Х		-	•	-	-	-	-	-	-	128
	n	5-5.5	u	Х		-	-	-	-	-	-	-	-	236
	11	6-6.5	u	Х		-	-	-	-	-	-	-	-	556
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Table 1
COG Operating LLC.
Owl 20504 JV-P #5
Eddy County, New Mexico

0I- ID	Sample	BEB	Excavation	Soil	Status	1	PH (mg/k	g)	Benzene	Toluene	Ethlybenzene	Xylene	Total	Chloride
Sample ID	Date	Sample Depth (ft)	Bottom Depth (ft)	In-Situ	Removed	GRO	DRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	BTEX (mg/kg)	(mg/kg)
AH-4	4/4/2013	0-1	0	Χ		<4.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	481
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Area	11	3-3.5	11	Х		-	-	-	-	-	-	-	-	9,290
	11	4-4.5	н	Х		-	-	-		-	-	-	-	6,490
	"	5-5.5	п	Х		-	-	-	-	-		-	-	8,610
SB-1	5/7/2013	5	0	Х		-	-	-	-	-	-	-	<u>-</u>	6,400
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Table 1
COG Operating LLC.
Owl 20504 JV-P #5
Eddy County, New Mexico

	Sample	BEB	Excavation	Soil	Status		TPH (mg/k	g)	Benzene	Toluene	Ethlybenzene	Xylene	Total	Chloride
Sample ID	Date	Sample Depth (ft)	Bottom Depth (ft)	In-Situ	Removed	GRO	DRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	BTEX (mg/kg)	(mg/kg)
AH-6	4/4/2013	, 0-1%,	, O		×	<4.00	¿50.0	\$<50.0	<0.0200	,<0.0200	<0.0200	<0.0200	<0.0200	6,700
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Table 1
COG Operating LLC.
Owl 20504 JV-P #5
Eddy County, New Mexico

Sample ID	Sample	BEB	Excavation Bottom	Soil	Status		TPH (mg/k	g)	Benzene	Toluene	Ethlybenzene	Xylene	Total	Chloride
Sample ID	Date	Sample Depth (ft)	Depth (ft)	In-Situ	Removed	GRO	DRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	BTEX (mg/kg)	(mg/kg)
AH-8	4/4/2013	0-1;	0		* X	<4.00	₹50.0°	<50.0	<0.0200	<0:0200	<0.0200	<0:0200	<0.0200	, "2,770
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Table 1 COG Operating LLC. Owl 20504 JV-P #5 Eddy County, New Mexico

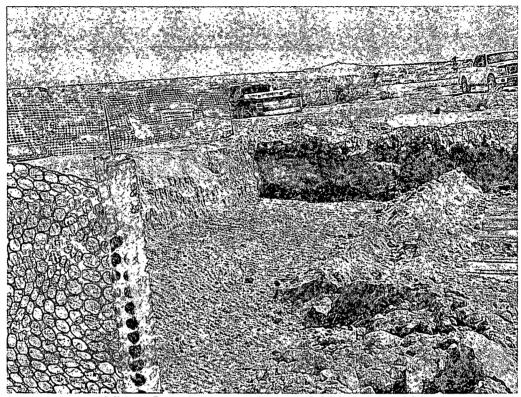
CI- ID	Sample	BEB	Excavation	Soil S	Status		ГРН (mg/k	g)	Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
Sample ID	Date	Sample Depth (ft)	Bottom Depth (ft)	In-Situ	Removed	GRO	DRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
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(-) Not Analyzed
(BEB) Below Excavation Bottom
Excavated Depths
Liner Installed

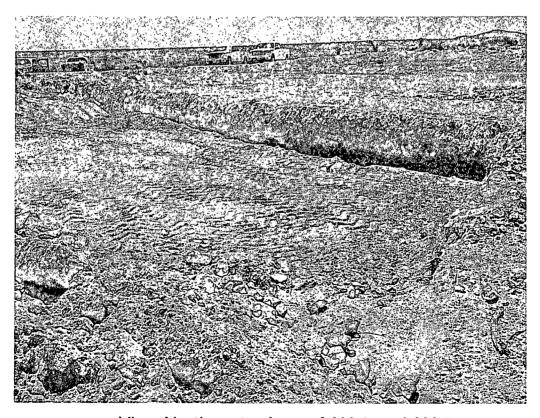
Photos

COG Operating LLC Owl 20504 JV-P Well #5 Eddy County, New Mexico





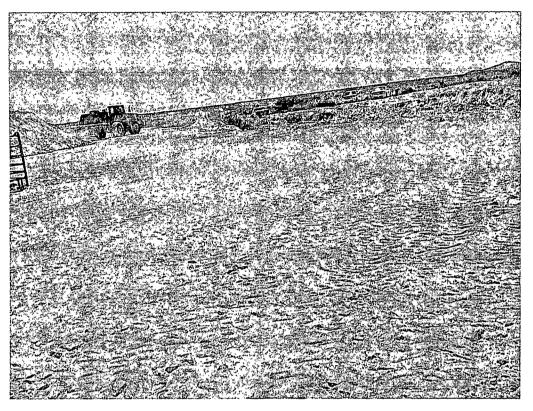
View Southeast - Area of AH-9 and AH-10



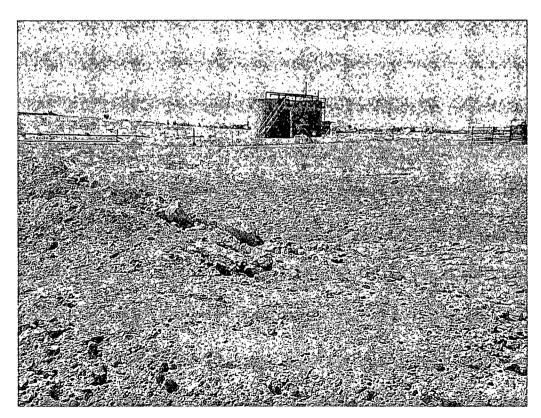
View Northeast – Area of AH-6 and AH-8

COG Operating LLC Owl 20504 JV-P Well #5 Eddy County, New Mexico





View East - Area of AH-3 and AH-4



View North - Backfill

Appendix A

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

COG Operating LLC

Name of Company

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised October 10, 2003

Final Report

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

Initial Report

Pat Ellis

JAN 2 4 2014

NMOCD ARTESIA

Release Notification and Corrective Action

Contact

OPERATOR

Address	600 W	est Illinois A	venue, N	Midland, TX 79	701	Telephone N	No. (432)	230-0077	
Facility Nar	ne	OWL	20504 J	V-P Well #005		Facility Typ	e SWD)	
Surface Ow	ner: Feder	al		Mineral O	wner			Lease	No. (API#)30-015-35135
				LOCA	TIO	N OF REI	LEASE		
Unit Letter J	Section 18	Township 26S	Range 27E	Feet from the		/South Line	Feet from the	East/West Line	County Eddy
			1	Latitude N32.04	148	° Longitud	e W104.22825	0	
				NAT	URE	OF RELI	EASE		
Type of Relea						Volume of	Release 10 bbls		Recovered 0 bbls
Source of Rel	ease: Fiber	glass line				Date and H 3/10/2013	lour of Occurrenc	1	Hour of Discovery 3 4:45 p.m.
Was Immedia	ite Notice C	_	Yes 🛭	No ⊠ Not Rec	quired	If YES, To	Whom?	, ,	
By Whom?						Date and H	lour		
Was a Watero	ourse Reac	hed?	Yes 🛚	No			lume Impacting t	he Watercourse.	
If a Watercou	rse was Imp	pacted, Descri	be Fully.*	ζ	-	, , , . , . , . , . ,		** * * * * * * * * * * * * * * * * * * *	
Describe Cau	se of Proble	em and Remed	lial Action	n Taken.*				· · · · · · · · · · · · · · · · · · ·	
A buried fiber	glass line f	ractured due t	o traffic.	The line has been	replace	ed and added i	more surface mate	erial for additional	padding and protection.
Describe Area	Affected a	ind Cleanup A	ction Tak	en.*					
	al. The site								s removed and hauled away for report and submitted it to
regulations al public health should their o	l operators a or the envir perations ha ment. In ac	are required to onment. The ave failed to a ddition, NMO	report an acceptanc dequately CD accep	d/or file certain re te of a C-141 repor investigate and re	lease r t by th mediat	notifications ar ne NMOCD mate contaminati	nd perform correct arked as "Final Ro on that pose a thre	tive actions for re eport" does not re eat to ground wate	suant to NMOCD rules and leases which may endanger lieve the operator of liability er, surface water, human health compliance with any other
Signature:		1)			OIL CONS	SERVATION	DIVISION
Printed Name	: Ike Tavare		COG)			Approved by	District Superviso	or:	
Title: Project	Manager					Approval Dat	e:	Expiration	Date:
E-mail Addre	ss: Ike Tava	arez@tetratecl			_	Conditions of	Approval:		Attached
Date: //)- Attach Addit	. د کر ional Shee	ts If Necessa		(432) 682-4559					
							RECE	IVED	

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Form C-141

Revised October 10, 2003

Release Notification and Corrective Action

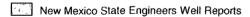
						OPERA?	TOR		✓ Initial	ıl Report		Final Report
Name of Co		COG OP				Contact		at Ellis				
Address				idland, TX 7970		Telephone l		230-00	77	······································		
Facility Nar	ne	OWL 20504	JV-P W	ELL #005		Facility Typ	e 3	SWD				
Surface Ow	ner FEDI	ERAL		Mineral O	wner				Lease N	lo. (API#)	30-015	5-35135
				LOCA	TIOI	N OF RE	LEASE					
Unit Letter J	Section 18	Township 26S	Range 27E	Feet from the	North/	South Line	Feet from the	East/V	Vest Line	County	EDDY	
				Latitude 32.04	4148	Longi	tude 104.22825					
				NAT	URE	OF REL	EASE					
Type of Rele	ase Produc	ed water				Volume of	Release 10bbls		Volume F	lecovered	0bbls	
Source of Re	lease Fiber	glass line				Date and F 03-10-2013	lour of Occurrence	:e		Hour of Dis		
Was Immedia	ate Notice (Given?				If YES, To			03-10-20	13 4:45pm		
			Yes 🗵	No 🛛 Not Re	quired	,						
By Whom?						Date and I						
Was a Water	course Read		Yes ⊠	No		If YES, Vo	lume Impacting t	he Wate	rcourse.			
If a Watercou	ırse was Im	pacted, Descr	be Fully.	•		.4						
Describe Cau	se of Probl	em and Reme	fial Action	Taken.*							·	
				. The line has bee	n replac	ced and added	more surface ma	terial fo	r additiona	l padding ar	ıd prote	ction.
Describe Are	a Affected	and Cleanup A	Action Tak	en.*				We-it-le-			··········	
Initially an es	stimated 10	obls were rele	ased due t	o a fracture in a b	uried fib	perglass line o	n location. We we	ere unab	ole to recov	er any fluid	s. The e	entire spill
was containe	d on the loc	ation. Tetra T	ech will sa	ample the spill site or to any significa	e area to	delineate an	possible contam					
regulations a public health should their or or the environ	Il operators or the envi operations h nment. In a	are required to ronment. The ave failed to a	report ar acceptance dequately CD/BLM	is true and compid/or file certain rese of a C-141 repoinvestigate and reacceptance of a C	elease not by the emediate	otifications a e NMOCD m e contaminati	nd perform correct arked as "Final Re on that pose a thre	tive acti eport" de eat to gr	ons for rele oes not reli ound water	eases which eve the ope s, surface wa	may en rator of ater, hun	danger liability nan health
							OIL CONS	SERV	ATION	DIVISIO	N	
Signature:			(/.		-							,
Printed Name	e:	Josh	Russo			Approved by	District Supervise	or:				
Title:	!	Senior Enviro	nmental C	oordinator		Approval Dat	e:	F	Expiration 1	Date:		
E-mail Addre	ess:	jrusso@c	oncho.co	n		Conditions of	Approval:			Attached		
Date: 03-2	0-2013		Phone:	432-212-2399	,							

^{*} Attach Additional Sheets If Necessary

Appendix B

Water Well Data Average Depth to Groundwater (ft) COG-Owl 20504 JV-P Well #5 Eddy County, New Mexico

	24 5	outh		26 East			24 9	South	:	27 Eas	t		24	South	1 :	28 Eas	t
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31	32	33	34	35	36	31	32	33	34	35	36	31	32	33	34	35	36
		1	ş ·	1													



USGS Well Reports

Geology and Groundwater Conditions in Southern Eddy, County, NM

NMOCD - Groundwater Data

Field water level

New Mexico Water and Infrastructure Data System

- District 1 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 AUG UZ 2007 OCD-ARTESIA

Form C-144 June 1, 2004

For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe office

Pit or Below-Grade Tank Registration or Closure
Is pit or below-grade tank covered by a "general plan"? Yes X No
faction. Registration of a nit or helow-grade tank 🗍 Closure of a nit or below-grade tank 🔀

	or delow-grade tank Closure of a pir of below	
Operator: BTA oil Producars G03002 Telepho		Searl or to lever - wer
Address: 104 5. Pecas Milloud 1ex Facility or well name: Owl 20504 JV-P #5 API#:	79701	J Sec 18 T 26 R 27
County: Latitude	32° 041386 N Longitude 109	
Surface Owner: Federal M State Private Indian		
Pit	Below-grade tank	<u> </u>
Type: Drilling Production Disposal	Volume: bbl Type of fluid:	
Workover Emergency	Construction material:	
Lined 🖸 Unlined 🗌	Double-walled, with leak detection? Yes 🔲 I	f not, explain why not.
Liner type: Synthetic [Thickness 12 mil Clay [
Pit Volume 4500bbl		
Depth to ground water (vertical distance from bottom of pit to seasonal	Less than 50 feet	(20 points)
•	50 feet or more, but less than 100 feet	(10 points)
high water elevation of ground water.)	100 feet or more	(0 points)
Wellhead protection area: (Less than 200 feet from a private domestic	Yes	(20 points)
water source, or less than 1000 feet from all other water sources.)	No ·	(0 points)
7,100,000,000,000,000,000,000,000,000,00	Less than 200 feet	(20 points)
Distance to surface water: (horizontal distance to all wetlands, playas,	200 feet or more, but less than 1000 feet	(10 points)
irrigation canals, ditches, and perennial and ephemeral watercourses.)	1000 feet or more	(0 points)
	Ranking Score (Total Points)	20 '
ur are burying in place) onsite offsite I foffsite, name of facility remediation start date and end date. (4) Groundwater encountered: No offsite I Attach soil sample results and a diagram of sample locations and excavariable of the sample of sample locations and excavariable of the sample of sample locations and excavariable of the sample of sample locations and excavariable of the sample of sample locations and excavariable of the sample of the	If yes, show depth below ground surface tions. Descriptions Descriptio	Sample He Sample He Landry Notice office Clasing It the above-described pit or below-grade tank mative OCD-approved plan
NOTIFY OCD 24 HOURS PRIOR to beginning closure and 24 HOURS PRIOR to obtaining samples. Samples are to be obtained from pit area and analyses submitted to OCD prior to back-filling.	Signature Signed By Mily B	AUG 0 6 2007

State of New Mexico

DISTRICT I 1625 N. PRENCE DR., HORBS, NM 88240

DISTRICT II

DISTRICT IV

Energy, Minerals and Natural Resources Department

WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-1

Revised October 12, 2

OIL CONSERVATION DIVISION

Submit to Appropriate District Off State Lease - 4 Cop Pee Lease - 3 Cop

1301 W. GRAND AVENUE, ARTESIA, NM 68210

DISTRICT III

1220 SOUTH ST. FRANCIS DR. Santa Fe, New Mexico 87505 1000 Rio Brazos Rd., Artec, NM 87410

☐ AMENDED REPO

API Number	Pool Code	Pool Name	
	97012	Wildcat (Delaware)	
Property Code	Property	Name	Well Number
	20504 JV-P	OWL	5
OGRID No.	Operator		Elevation
003002	BTA OIL PF	ODUCERS	3289

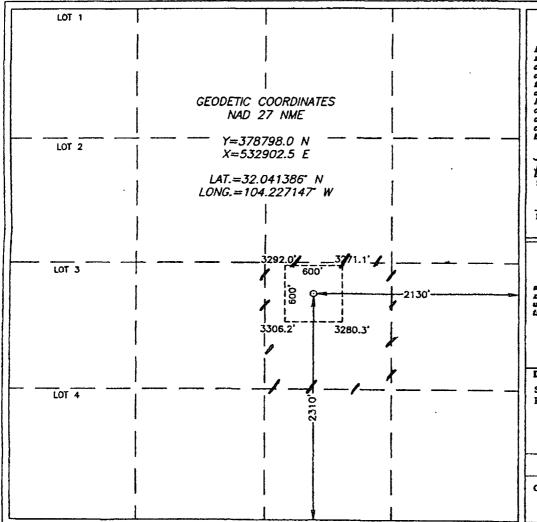
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Peet from the	Bast/West line	County
J	18	26 - S	27-E		2310	SOUTH	2130	EAST	EDD)

Bottom Hole Location If Different From Surface

			2000					•	
UL or lot No.	Section	Township	Range	Lot ldn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acre	Joint	or Infill	Consolidation	Code 0	rder No.				<u></u>

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



OPERATOR CERTIFICATION

I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hale location or has a right to drill this well at this proposed better with an extent with an or has a right to drift this sell at this location pursuant to a contract with an owner of such mineral or working interest, or to a reluniary pooling agreement or a compulsory pooling order heretofore entered by the divinight.

.01/09/07

Pam Inskeep Printed Name

SURVEYOR CERTIFICATION

I hereby certify that the wall location and this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same true and correct to the best of my belief.

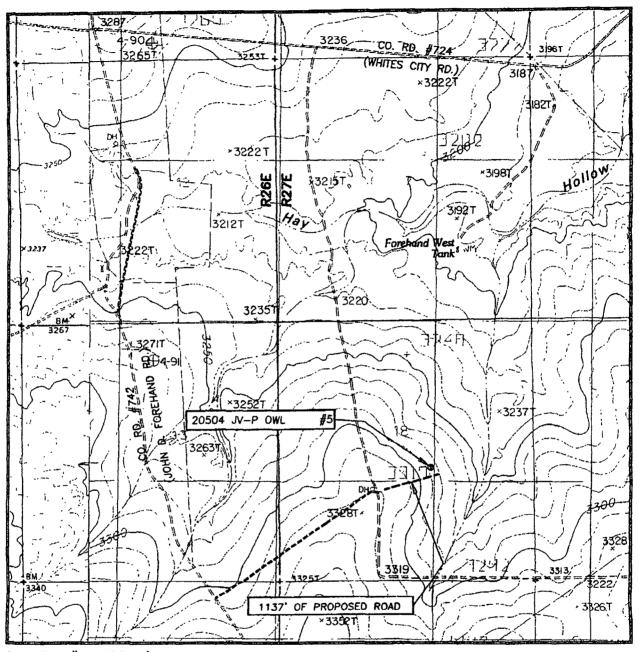
SEPTEMBER 12, 2006

Date Surveyor William Graf DS Continue MR Signature SenFib 106

THE PROFESSION POFESSIONE

1264

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL: COTTONWOOD HILLS, N.M. - 10'

SEC. 18 TWP. 26-S RGE. 27-E

SURVEY N.M.P.M.

COUNTY EDDY STATE NEW MEXICO

DESCRIPTION 2310' FSL & 2130' FEL

ELEVATION 3289'

OPERATOR BTA OIL PRODUCERS

LEASE 20504 JV-P OWL

U.S.G.S. TOPOGRAPHIC MAP

COTTONWOOD HILLS, N.M.



PROVIDING SURVEYING SERVICES
SENCE 1948
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO
HOBBS, N.M. 88240
(805) 383-3117

Ground water may 3852,65

OCD-ARTESIA

FORM APPROVED OM B No 1004-0137 UNITED STATES DEPARTMENT OF THE INTERIOR Expires March 31, 2007 **BUREAU OF LAND MANAGEMENT** 5. Lease Senal No NMOCD ARTIFIED NOTICES AND REPORTS ON WELLS NMNM 114969 If Indian, Allottee or Tribe Name Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals. 7 If Unit or CA/Agreement, Name and/or No SUBMIT IN TRIPLICATE- Other instructions on reverse side. Type of Well Other SWD Öil Well 🛭 🗎] Gas Well □□ Well Name and No. 8 Owl, 20504 JV-P #5 2 Name of Operator COG Operating LLC API Well No 30-015-35435 3a Address 3b Phone No. (include area code) 550 W Texas, Suite 100 432-685-4384 10 Field and Pool, or Exploratory Area SWD. Cherry Canyon 4 Location of Well (Footage, Sec., T. R., M., or Survey Description) 11 County or Parish, State UL -J-, Sec. 18, T26S-R27E 2310' FSL & 2320' FEL Eddy Co., NM 12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF ACTION TYPE OF SUBMISSION Acidize Production (Start/Resume) Water Shut-Off Deepen Notice of Intent Alter Casing Fracture Treat Reclamation Well Integrity Other Change of Operator Casing Repair New Construction Recomplete Subsequent Report Change Plans Plug and Abandon Temporarily Abandon Final Abandonment Notice Convert to Insection Plug Back Water Disposal 13 Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones Attach the Bond under which the work will be performed or provide the Bond No on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection) COG Operating LLC will take over operations of this location from BTA Oil Producers, LLC, 104 S Pecos, Midland, TX 79701, 432-682-3753, effective 04/01/2012. COG Operating LLC accepts all applicable terms, conditions, stipulations, and restrictions concerning operations conducted on the leased land or portion thereof, as described herein. BLM Bond No. NMB000740; NMB000215. APPROVED If well goes off production for more than 30 days notify BLM by Sundry within 5 business days SEE ATTACHED FOR APR 2 8 2012 CONDITIONS OF APPROVAL /s/ JD Whitlock J BUREAU OF LAND MANAGEMENT CARLSBAD PI**ELD OF TIGE** I hereby certify that the foregoing is true and correct Name (Printed/Typed) Kelly J. Holly Title Permitting Tech 04/12/2012 Signature THIS SPACE FOR FEDERAL OR STATE OFFICE USE Title Date Conditions of approval, if any, are attached Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on page 2)

which would entitle the applicant to conduct operations thereon

BUREAU OF LAND MANAGEMENT Carlsbad Field Office 620 East Greene Street Carlsbad, New Mexico 88220 575-234-5972

Conditions of Approval

COG Production LLC OWL 20504 JV-P #1 & #5 NM114969

- 1. Tank battery must be bermed/diked (must be able to contain 1 1/2 times the volume of the largest tank).
- 2. Submit for approval of water disposal method.
- 3. Submit updated facility diagrams as per Onshore Order #3
- 4. This agency shall be notified of any spill or discharge as required by NTL-3A.
- 5. All outstanding environmental issue must be addressed within 90 days. Contact Jim Amos for inspection and to resolve environmental issues. 575-234-5909
- 6. Install legible well sign on location with operator name, well name and number, lease number, unit number, 1/4 1/4, section, township, and range. NMOCD requires the API number on well signs.
- 7. Subject to like approval by NMOCD.

Form 3160-5 (February 2005)

UNITED STATES DEPARTMENT OF THE INTERIOR

FORM APPROVED
OM B No. 1004-0137
Expires: March 31, 2007

JAN 24 2011

1. Type of Well Oil Well O Gas Well O Other Injection 8. Well Name and No. Owl. 20504 JV-P #5 9. API Well No. 30-015-35435 104 S. Pecos, Midland, TX 79701 4. Location of Well (Footage, Sec., T., R., M., or Survey Description) UL -J-, Sec. 18, T26S-R27E 2310' FSL & 2130' FWL 12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF SUBMISSION TYPE OF ACTION Well Name and No. Owl. 20504 JV-P #5 9. API Well No. 30-015-35435 10. Field and Pool, or Exploratory Area Wildcat (Delaware) 11. County or Parish, State Eddy Co., NM 12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF SUBMISSION Production (Start/Resume) Water Shut-Off	SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.				Lease Serial No. NMNM 114969 G. If Indian, Allottee or Tribe Name	
2. Name of Operator BTA Oil Producers LLC 3a Address 104 S. Pecos, Midland, TX 79701 4. Location of Well (Footage, Sec., T., R., M., or Survey Description) ULJ., Sec. 18, T26S-R27E 2310' FSL & 2130' FWL 12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF SUBMISSION TYPE OF ACTION 8. Well Name and No. Owl, 20504 JV-P #5 9. API Well No. 30-015-35435 10. Field and Pool, or Exploratory Area Wildcat (Delaware) 11. County or Parish, State Eddy Co., NM TYPE OF SUBMISSION TYPE OF ACTION Water Shut-Off	SUBMIT IN TR	7. If Unit or CA/Agreement, Name and/or No.				
3a Address 104 S. Pecos, Midland, TX 79701 4. Location of Well (Footage, Sec., T., R., M., or Survey Description) ULJ., Sec. 18, T26S-R27E 2310' FSL & 2130' FWL 12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF SUBMISSION TYPE OF ACTION P. API Well No. 30-015-35435 10. Field and Pool, or Exploratory Area Wildcat (Delaware) 11. County or Parish, State Eddy Co., NM TYPE OF ACTION TYPE OF ACTION Water Shut-Off	☐ Oil Well ☐ ☐ Gas Well ☐ ☐ Other In Ject 1011					
104 S. Pecos, Midland, TX 79701 432-682-3753 10. Field and Pool, or Exploratory Area Wildcat (Delaware) UL -J-, Sec. 18, T26S-R27E 2310' FSL & 2130' FWL 12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF SUBMISSION TYPE OF ACTION Acidize Deepen Production (Start/Resume) Water Shut-Off	2. Name of Operator BTA Oil Pro-	ducers LLC				
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) UL -J-, Sec. 18, T26S-R27E 2310' FSL & 2130' FWL 12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF SUBMISSION TYPE OF ACTION Acidize Deepen Production (Start/Resume) Water Shut-Off	3a Address 3b. Phone No. (include area code)					
2310' FSL & 2130' FWL 12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF SUBMISSION TYPE OF ACTION Acidize Deepen Production (Start/Resume) Water Shut-Off	4. Location of Well (Footage, Sec.,	Wildcat (Delaware)				
TYPE OF SUBMISSION TYPE OF ACTION Acidize Deepen Production (Start/Resume) Water Shut-Off						
Acidize Deepen Production (Start/Resume) Water Shut-Off	12. CHECK AI	PPROPRIATE BOX(ES) TO	INDICATE NATUR	E OF NOTICE, R	EPORT, OR OTHER DATA	
	TYPE OF SUBMISSION		· TYP	E OF ACTION		
Subsequent Report Casing Repair Change Plans Plug and Abandon Temporarily Abandon Convert to Injection Plug Back Well Integrity Well Integrity Well Integrity Well Integrity Well Integrity Well Integrity Well Integrity Well Integrity Well Integrity Well Integrity Other Convert to Injection Plug Back Water Disposal	Subsequent Report	Alter Casing Casing Repair Change Plans	Fracture Treat New Construction Plug and Abandon	Reclamation Recomplete Temporarily At	Well Integrity Other	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

BTA submits that the surface location for this well has been improved and restored as follows:

06/08-11/18/2010

1. Made the facility pad smaller

NMOCD ARTESIA 2. Excavated impacted site, collected soil samples and submitted them to an approved laboratory for analysis, removed impacted soil to approved disposal facility, received approval from BLM and backfilled the excavation with clean soil, seeded as per BLM approved seed and requirements We will monitor the growth.

3. On back side of the battery, slope was terraced and seeded slope with approved BLM seed mix. Will monitor growth.

4. Built firewall on east, north and west sides of production pad

5. Removed poly-pipe not in service.

14. Thereby certify that the foregoing is true and correct Name (Printed/Typed) Pamilinskeep	Title R	cgulatory Adm	inistrator	מזרח בחם!	oreen a
Signature Am Inways	Date		01/06/2	12 5 1 2 1 1 K 5 1 N 1	
THIS SPACE FOR FEDERAL OR STATE OFFICE USE					
Approved by	Т	itle		Date Date	
Conditions of approval, if any, are attached. Approval of this notice does not warran certify that the applicant holds legal or equitable title to those rights in the subject lea which would entitle the applicant to conduct operations thereon.	ise O	Iffice			
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any states any false, fictitious or fraudulent statements or representations as to any matter	person kn within it:	lowingly and wil s jurisdiction.	Ifully to make	ro' any department or age	ncy of the United -

(Instructions on page 2)

Appendix D

Report Date: May 16, 2013 Work Order: 13050941 Page Number: 1 of 8

Summary Report

Ike Tavarez Tetra Tech 1910 N. Big Spring Street Midland, TX 79705

Report Date: May 16, 2013

Work Order: 13050941

Project Location: Eddy Co., NM

Project Name: COG/Owl 20504 JV-P #5

Project Number: 112MC05194

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
328718	Background 0-1'	soil	2013-05-07	00:00	2013-05-09
328719	Background 5'	soil	2013-05-07	00:00	2013-05-09
328720	Background 10'	soil	2013-05-07	00:00	2013-05-09
328721	Background 15'	soil	2013-05-07	00:00	2013-05-09
328722	Background 20'	soil	2013-05-07	00:00	2013-05-09
328723	Background 25'	soil	2013-05-07	00:00	2013-05-09
328724	SB-1 @ AH-4 5'	soil	2013-05-07	00:00	2013-05-09
328725	SB-1 @ AH-4 10'	soil	2013-05-07	00:00	2013-05-09
328726	SB-1 @ AH-4 15'	soil	2013-05-07	00:00	2013-05-09
328727	SB-1 @ AH-4 19-20'	soil	2013-05-07	00:00	2013-05-09
328728	SB-1 @ AH-4 24-25'	soil	2013-05-07	00:00	2013-05-09
328729	SB-1 @ AH-4 29-30'	soil	2013-05-07	00:00	2013-05-09
328731	SB-2 @ AH-5 0-1'	soil	2013-05-07	00:00	2013-05-09
328732	SB-2 @ AH-5 2-3'	soil	2013-05-07	00:00	2013-05-09
328733	SB-2 @ AH-5 4-5'	soil	2013-05-07	00:00	2013-05-09
328734	SB-2 @ AH-5 6-7'	soil	2013-05-07	00:00	2013-05-09
328735	SB-2 @ AH-5 9-10'	soil	2013-05-07	00:00	2013-05-09
328736	SB-2 @ AH-5 14-15'	soil	2013-05-07	00:00	2013-05-09
328738	SB-3 @ AH-6 0-1'	soil	2013-05-08	00:00	2013-05-09
328739	SB-3 @ AH-6 2-3'	soil	2013-05-08	00:00	2013-05-09
328740	SB-3 @ AH-6 4-5'	soil	2013-05-08	00:00	2013-05-09
328741	SB-3 @ AH-6 6-7'	soil	2013-05-08	00:00	2013-05-09
328742	SB-3 @ AH-6 9-10'	soil	2013-05-08	00:00	2013-05-09
328743	SB-3 @ AH-6 14-15'	soil	2013-05-08	00:00	2013-05-09
328744	SB-4 @ AH-7 0-1'	soil	2013-05-08	00:00	2013-05-09
328745	SB-4 @ AH-7 2-3'	soil	2013-05-08	00:00	2013-05-09
328746	SB-4 @ AH-7 4-5'	soil	2013-05-08	00:00	2013-05-09
328747	SB-4 @ AH-7 6-7'	soil	2013-05-08	00:00	2013-05-09
328748	SB-4 @ AH-7 9-10'	soil	2013-05-08	00:00	2013-05-09
328749	SB-4 @ AH-7 14-15'	soil	2013-05-08	00:00	2013-05-09

			Date	$_{ m Time}$	Date
Sample	Description	Matrix	Taken	Taken	Received
328750	SB-5 @ AH-8 0-1'	soil	2013-05-08	00:00	2013-05-09
328751	SB-5 @ AH-8 2-3'	soil	2013-05-08	00:00	2013-05-09
328752	SB-5 @ AH-8 4-5'	soil	2013-05-08	00:00	2013-05-09
328753	SB-5 @ AH-8 6-7'	soil	2013-05-08	00:00	2013-05-09
328754	SB-5 @ AH-8 9-10'	soil	2013-05-08	00:00	2013-05-09
328755	SB-5 @ AH-8 14-15'	soil	2013-05-08	00:00	2013-05-09
328756	SB-5 @ AH-8 19-20'	soil	2013-05-08	00:00	2013-05-09
328757	SB-5 @ AH-8 24-25'	soil	2013-05-08	00:00	2013-05-09
328758	SB-6 @ AH-9 0-1'	soil	2013-05-08	00:00	2013-05-09
328759	SB-6 @ AH-9 2-3'	soil	2013-05-08	00:00	2013-05-09
328760	SB-6 @ AH-9 4-5'	soil	2013-05-08	00:00	2013-05-09
328761	SB-6 @ AH-9 6-7'	soil	2013-05-08	00:00	2013-05-09
328762	SB-6 @ AH-9 9-10'	soil	2013-05-08	00:00	2013-05-09
328763	SB-7 @ AH-10 0-1'	soil	2013-05-08	00:00	2013-05-09
328764	SB-7 @ AH-10 2-3'	soil	2013-05-08	00:00	2013-05-09
328765	SB-7 @ AH-10 4-5'	soil	2013-05-08	00:00	2013-05-09
328766	SB-7 @ AH-10 6-7'	soil	2013-05-08	00:00	2013-05-09
328767	SB-7 @ AH-10 9-10'	soil	2013-05-08	00:00	2013-05-09
328768	SB-7 @ AH-10 14-15'	soil	2013-05-08	00:00	2013-05-09

Sample: 328718 - Background 0-1'

Param	Flag	Result	Units	RL
Chloride		59.5	mg/Kg	4

Sample: 328719 - Background 5'

Param	Flag	Result	Units	RL
Chloride		89.3	mg/Kg	4

Sample: 328720 - Background 10'

Param	Flag	Result	Units	RL
Chloride		79.4	mg/Kg	4

Sample: 328721 - Background 15'

Param	Flag	Result	Units	RL
Chloride		74.4	mg/Kg	4

Report Date: May 16, 2013	Work Order: 13050941	Page Number: 3 of 8	
Sample: 328722 - Background 20'			
Param Flag	Result	Units	RL
Chloride	44.6	mg/Kg	4
Sample: 328723 - Background 25'			
Param Flag	Result	Units	RL
Chloride	<20.0	mg/Kg	4
Sample: 328724 - SB-1 @ AH-4 5'			
Param Flag	Result	Units	RL
Chloride	6400	mg/Kg	4
Sample: 328725 - SB-1 @ AH-4 10'			
Param Flag	Result	Units	RL
Chloride	9870	mg/Kg	4
Sample: 328726 - SB-1 @ AH-4 15'			
Param Flag	Result	Units	RL
Chloride	1660	mg/Kg	4
Sample: 328727 - SB-1 @ AH-4 19-20'			
Param Flag	Result	Units	RL
Chloride	9110	mg/Kg	4
Sample: 328728 - SB-1 @ AH-4 24-25'			
Param Flag	Result	Units	RL
Chloride	8610	mg/Kg	4
Sample: 328729 - SB-1 @ AH-4 29-30'			
Param Flag	Result	Units	RL
Chloride	214	mg/Kg	4

Report Date: May 16, 2013		Work Order: 13050941	Page	Number: 4 of 8
Sample: 328731 -	SB-2 @ AH-5 0-1'			
Param	Flag	Result	Units	RL
Chloride		8130	mg/Kg	4
Sample: 328732 -	SB-2 @ AH-5 2-3'			
Param	Flag	Result	Units	RL
Chloride	30'	12100	mg/Kg	4
Sample: 328733 -	SB-2 @ AH-5 4-5'			
Param	Flag	Result	Units	RL
Chloride		7490	mg/Kg	4
Sample: 328734 -	SB-2 @ AH-5 6-7'			
Param	Flag	Result	Units	RL
Chloride		3160	mg/Kg	4
Sample: 328735 -	SB-2 @ AH-5 9-10'			
Param	Flag	Result	Units	RL
Chloride		821	mg/Kg	4
Sample: 328736 -	SB-2 @ AH-5 14-15'			
Param	Flag	Result	Units	RL
Chloride		213	mg/Kg	4
Sample: 328738 -	SB-3 @ AH-6 0-1'			
Param	Flag	Result	Units	RL
Chloride		13100	mg/Kg	4
Sample: 328739 -	SB-3 @ AH-6 2-3'			
Param	Flag	Result	Units	RL
Chloride		2330	mg/Kg	4

Report Date: May 16, 2013	Work Order: 13050941	Page	Number: 5 of 8
Sample: 328740 - SB-3 @ AH-6 4-5'			
Param Flag	Result	Units	RL
Chloride	2080	mg/Kg	4
Sample: 328741 - SB-3 @ AH-6 6-7'			
Param Flag	Result	Units	m RL
Chloride	1160	mg/Kg	4
Sample: 328742 - SB-3 @ AH-6 9-10'			
Param Flag	Result	Units	RL
Chloride	4050	mg/Kg	4
Sample: 328743 - SB-3 @ AH-6 14-15'			
Param Flag	Result	Units	RL
Chloride	203	mg/Kg	4
Sample: 328744 - SB-4 @ AH-7 0-1'			
Param Flag	Result	Units	RL
Chloride	2560	ıng/Kg	4
Sample: 328745 - SB-4 @ AH-7 2-3'			
Param Flag	Result	Units	RL
Chloride	1900	mg/Kg	4
Sample: 328746 - SB-4 @ AH-7 4-5'			
Param Flag	Result	Units	RL
Chloride	1110	mg/Kg	4
Sample: 328747 - SB-4 @ AH-7 6-7'			
Param Flag	Result	Units	RL
Chloride	785	nıg/Kg	4

Report Date: May 16, 2013		Work Order: 13050941	Page	Number: 6 of 8
Sample: 328748 -	SB-4 @ AH-7 9-10'			
Param	Flag	Result	Units	RL
Chloride		<20.0	mg/Kg	4
Sample: 328749 -	SB-4 @ AH-7 14-15'			
Param	Flag	Result	Units	RL
Chloride		146	mg/Kg	4
Sample: 328750 -	SB-5 @ AH-8 0-1'			
Param	Flag	Result	Units	RL
Chloride		834	mg/Kg	4
Sample: 328751 -	SB-5 @ AH-8 2-3'			
Param	Flag	Result	Units	RL
Chloride		927	mg/Kg	4
Sample: 328752 - 3	SB-5 @ AH-8 4-5'			
Param	Flag	Result	Units	RL
Chloride		2260	mg/Kg	4
Sample: 328753 - 3	SB-5 @ AH-8 6-7'			
Param	Flag	Result	Units	RL
Chloride		976	mg/Kg	4
Sample: 328754 - 5	SB-5 @ AH-8 9-10'			
Param	Flag	Result	Units	RL
Chloride		2650	mg/Kg	4
Sample: 328755 - 5	SB-5 @ AH -8 14-15'			
Param	Flag	Result	Units	RL
Chloride		621	mg/Kg	4

Report Date: May 16, 2013	Work Order: 13050941	Page	Number: 7 of 8
Sample: 328756 - SB-5 @ AH-8 19-20	,		
Param Flag	Result	Units	RL
Chloride	63.5	mg/Kg	4
Sample: 328757 - SB-5 @ AH-8 24-25	,		
Param Flag	Result	Units	RL
Chloride	39.1	ıng/Kg	4
Sample: 328758 - SB-6 @ AH-9 0-1'			
Param Flag	Result	Units	RL
Chloride	6180	mg/Kg	4
Sample: 328759 - SB-6 @ AH-9 2-3'			
Param Flag	Result	Units	RL
Chloride	6890	mg/Kg	4
Sample: 328760 - SB-6 @ AH-9 4-5'			
Param Flag	Result	Units	RL
Chloride	1290	mg/Kg	4
Sample: 328761 - SB-6 @ AH-9 6-7'			
Param Flag	Result	Units	RL_
Chloride	<20.0	mg/Kg	4
Sample: 328762 - SB-6 @ AH-9 9-10'			
Param Flag	Result	Units	RL
Chloride	48.9	mg/Kg	4
Sample: 328763 - SB-7 @ AH-10 0-1'			
Param Flag	Result	Units	RL
Chloride	7010	mg/Kg	4

Report Date: May 16, 2013		Work Order: 13050941	Page 1	Number: 8 of 8
Sample: 328764	- SB-7 @ AH-10 2-3'			
Param	Flag	Result	Units	RL
Chloride		5530	mg/Kg	4
Sample: 328765	- SB-7 @ AH-10 4-5'			
Param	Flag	Result	Units	RL
Chloride		2360	nig/Kg	4
Sample: 328766	- SB-7 @ AH-10 6-7'			
Param	Flag	Result	Units	RL
Chloride		1120	mg/Kg	4
Sample: 328767	- SB-7 @ AH-10 9-10'			
Param	Flag	Result	Units	RL
Chloride		<20.0	mg/Kg	4
Sample: 328768 -	- SB-7 @ AH-10 14-15'			
Param	Flag	Result	Units	RL
Chloride		<20.0	mg/Kg	4

Report Date: April 15, 2013 Work Order: 13040905 Page Number: 1 of 8

Summary Report

Ike Tavarez Tetra Tech 1910 N. Big Spring Street Midland, TX 79705 Report Date: April 15, 2013

Work Order: 13040905

Project Location: Eddy Co., NM

Project Name: COG/Owl 20504 JV-P #5

Project Number: 112MC05194

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
325503	Background 0-1'	soil	2013-04-04	00:00	2013-04-08
325504	Background 1-1.5'	soil	2013-04-04	00:00	2013-04-08
325505	Background 2-2.5'	soil	2013-04-04	00:00	2013-04-08
325506	AH-1 0-1'	soil	2013-04-04	00:00	2013-04-08
325507	AH-1 1-1.5'	soil	2013-04-04	00:00	2013-04-08
325508	AH-1 2-2.5'	soil	2013-04-04	00:00	2013-04-08
325509	AH-1 3-3.5'	soil	2013-04-04	00:00	2013-04-08
325510	AH-1 4-4.5'	soil	2013-04-04	00:00	2013-04-08
325511	AH-1 5-5.5'	soil	2013-04-04	00:00	2013-04-08
325512	AH-1 6-6.5°	soil	2013-04-04	00:00	2013-04-08
325513	AH-2 0-1'	soil	2013-04-04	00:00	2013-04-08
325514	AH-2 1-1.5'	soil	2013-04-04	00:00	2013-04-08
325515	AH-2 2-2.5'	soil	2013-04-04	00:00	2013-04-08
325516	AH-2 3-3.5'	soil	2013-04-04	00:00	2013-04-08
325517	AH-3 0-1'	soil	2013-04-04	00:00	2013-04-08
325518	AH-3 1-1.5'	soil	2013-04-04	00:00	2013-04-08
325519	AH-3 2-2.5'	soil	2013-04-04	00:00	2013-04-08
325520	AH-3 3-3.5'	soil	2013-04-04	00:00	2013-04-08
325521	AH-4 ()-1'	soil	2013-04-04	00:00	2013-04-08
325522	AH-4 1-1.5'	soil	2013-04-04	00:00	2013-04-08
325523	AH-4 2-2.5'	soil	2013-04-04	00:00	2013-04-08
325524	AH-4 3-3.5'	soil	2013-04-04	00:00	2013-04-08
325525	AH-4 4-4.5'	soil	2013-04-04	00:00	2013-04-08
325526	AH-4 5-5.5'	soil	2013-04-04	00:00	2013-04-08
325527	AH-5 0-1'	soil	2013-04-04	00:00	2013-04-08
325528	AH-5 1-1.5'	soil	2013-04-04	00:00	2013-04-08
325529	AH-5 2-2.5'	soil	2013-04-04	00:00	2013-04-08
325530	AH-5 2.5-3'	soil	2013-04-04	00:00	2013-04-08
325531	AH-6 0-1'	soil	2013-04-04	00:00	2013-04-08
325532	AH-6 1-1.5'	soil	2013-04-04	00:00	2013-04-08
		cloop Ara Suita	- Lubbook TV 704	24 1515 • (806)	704 1206

TraceAnalysis, Inc. • 6701 Aberdeen Ave., Suite 9 • Lubbock, TX 79424-1515 • (806) 794-1296

This is only a summary. Please, refer to the complete report package for quality control data.

Work Order: 13040905 Page Number: 2 of 8

			Date	$_{ m Time}$	Date
Sample	Description	Matrix	Taken	Taken	Received
325533	AH-6 2-2.5	soil	2013-04-04	00:00	2013-04-08
325534	AH-6 3-3.5'	soil	2013-04-04	00:00	2013-04-08
325535	AH-7 ()-1'	soil	2013-04-04	00:00	2013-04-08
325536	AH-7 1-1.5'	soil	2013-04-04	00:00	2013-04-08
325537	AH-7 2-2.5'	soil	2013-04-04	00:00	2013-04-08
325538	AH-7 3-3.5'	soil	2013-04-04	00:00	2013-04-08
325539	AH-8 0-1'	soil	2013-04-04	00:00	2013-04-08
325540	AH-8 1-1.5'	soil	2013-04-04	00:00	2013-04-08
325541	AH-8 2-2.5'	soil	2013-04-04	00:00	2013-04-08
325542	AH-8 3-3.5'	soil	2013-04-04	00:00	2013-04-08
325543	AH-9 ()-1'	soil	2013-04-04	00:00	2013-04-08
325544	AH-9 1-1.5'	soil	2013-04-04	00:00	2013-04-08
325545	AH-9 2-2.5'	soil	2013-04-04	00:00	2013-04-08
325546	AH-9 3-3.5'	soil	2013-04-04	00:00	2013-04-08
325547	AH-10 0-1'	soil	2013-04-04	00:00	2013-04-08
325548	AH-10 1-1.5'	soil	2013-04-04	00:00	2013-04-08
325549	AH-10 2-2.5'	soil	2013-04-04	00:00	2013-04-08
325550	AH-10 3-3.5'	soil	2013-04-04	00:00	2013-04-08
325551	AH-10 4-4.5'	soil	2013-04-04	00:00	2013-04-08
325552	AH-10 5-5.5'	soil	2013-04-04	00:00	2013-04-08

		BTEX			TPH DRO - NEW	TPH GRO
	Benzene	Toluene	Ethylbenzene	Xylene	DRO	GRO
Sample - Field Code	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
325506 - AH-1 0-1'	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 50.0	<4.00 Qs
325513 - AH-2 0-1'	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 50.0	<4.00 Qn
325517 - AH-3 0-1'	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 50.0	<4.00 QH
325521 - AH-4 0-1'	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 50.0	<4.00 Q#
325527 - AH-5 0-1'	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 50.0	$< 4.00 \mathrm{Qs}$
325531 - AH-6 0-1'	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 50.0	<4.00 Qr,Qn
325535 - AH-7 0-1'	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 50.0	$< 4.00 \; _{Qr,Qs}$
325539 - AH-8 0-1'	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 50.0	<4.00 Qr,Qs
325543 - AH-9 0-1'	< 0.0200	< 0.0200	< 0.0200	< 0.0200	<50.0	<4.00 Qr,Qs
325547 - AH-10 0-1'	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 50.0	<4.00 Qr,Qs

Sample: 325503 - Background 0-1'

Report Date: April 15, 2013

Param	Flag	Result	Units	RL
Chloride		< 20.0	mg/Kg	4

Sample: 325504 - Background 1-1.5'

Param	Flag	Result	Units	RL
<u>Chloride</u>		<20.0	mg/Kg	4

Report Date: April 15, 2013		Work Order: 13040905	Page	Number: 3 of 8
Sample: 325505 -	Background 2-2.5'			
Param	Flag	Result	Units	RL
Chloride		<20.0	mg/Kg	4
Sample: 325506 -	AH-1 0-1'			
Param	Flag	Result	Units	RL
Chloride		959	mg/Kg	4
Sample: 325507 -	AH-1 1-1.5'			
Param	Flag	Result	Units	RL
Chloride		98.9	mg/Kg	4
Sample: 325508 -	AH-1 2-2.5'			
Param	Flag	Result	Units	RL
Chloride		119	mg/Kg	4
Sample: 325509 -	AH-1 3-3.5'			
Param	Flag	Result	Units	RL
Chloride		63.9	ıng/Kg	4
Sample: 325510 -	AH-1 4-4.5'			
Param	Flag	Result	Units	RL
Chloride		128	mg/Kg	4
Sample: 325511 -	AH-1 5-5.5'			
Param	Flag	Result	Units	RL
Chloride		236	mg/Kg	4
Sample: 325512 -	AH-1 6-6.5°			
Param	Flag	Result	Units	RL
Chloride	0	556	mg/Kg	4

Report Date: April 15, 2013		Work Order: 13040905	Page Number: 4 of 8	
Sample: 325513 - AH-	2 0-1'			
Param	Flag	Result	Units	RL
Chloride		3050	mg/Kg	4
Sample: 325514 - AH-	2 1-1.5'			
Param	Flag	Result	Units	RL
Chloride		939	mg/Kg	4
Sample: 325515 - AH-	2 2-2.5'			
Param	Flag	Result	Units	RL
Chloride		24.6	mg/Kg	4
Sample: 325516 - AH-	2 3-3.5'			
Param	Flag	Result	Units	RL
Chloride		<20.0	mg/Kg	4
Sample: 325517 - AH-	3 0-1'			
Param	Flag	Result	Units	RL
Chloride		8690	mg/Kg	4
Sample: 325518 - AH-	3 1-1.5'			
Param	Flag	Result	Units	m RL
Chloride		1960	mg/Kg	4
Sample: 325519 - AH-	3 2-2.5'			
Param	Flag	Result	Units	RL
Chloride		1950	mg/Kg	4
Sample: 325520 - AH-	3 3-3.5'			
Param	Flag	Result	Units	RL
Chloride		255	mg/Kg	4

Report Date: April 15, 2013	Work Order: 13040905	Page 1	Page Number: 5 of 8		
Sample: 325521 - AH-4 0-1'					
Param Flag	Result	Units	RL		
Chloride	481	mg/Kg	4		
Sample: 325522 - AH-4 1-1.5'					
Param Flag	Result	Units	RL		
Chloride	24.1	mg/Kg	4		
Sample: 325523 - AH-4 2-2.5'					
Param Flag	Result	Units	RL		
Chloride	144	mg/Kg	4		
Sample: 325524 - AH-4 3-3.5'					
Param Flag	Result	Units	RL		
Chloride	9290	mg/Kg	4		
Sample: 325525 - AH-4 4-4.5'					
Param Flag		Units	RL		
Chloride	6490	mg/Kg	4		
Sample: 325526 - AH-4 5-5.5'					
Param Flag	Result	Units	RL		
Chloride	8610	mg/Kg	4		
Sample: 325527 - AH-5 0-1'					
Param Flag	Result	Units	RL		
Chloride	14100	m mg/Kg	4		
Sample: 325528 - AH-5 1-1.5'					
Param Flag	Result	Units	RL		
Chloride	7660	mg/Kg	4		

Report Date: April	15, 2013	Work Order: 13040905	Page Number: 6 of 8		
Sample: 325529 - AH-5 2-2.5'					
Param	Flag	Result	Units	RL	
Chloride		7150	mg/Kg	4	
Sample: 325530 -	· AH-5 2.5-3'				
Param	Flag	Result	Units	RL	
Chloride		7630	mg/Kg	4	
Sample: 325531 -	AH-6 0-1'				
Param	Flag	Result	Units '	RL	
Chloride		6700	mg/Kg	4	
Sample: 325532 -	AH-6 1-1.5'				
Param	Flag	Result	Units	RL	
Chloride		3760	mg/Kg	4	
Sample: 325533 -	AH-6 2-2.5'				
Param	Flag	Result	Units	RL	
Chloride		13200	mg/Kg	4	
Sample: 325534 -	AH-6 3-3.5'				
Param	Flag	Result	Units	RL	
Chloride		11800	mg/Kg	4	
Sample: 325535 -	AH-7 0-1'				
Param	Flag	Result	Units	RL	
Chloride		1630	mg/Kg	4	
Sample: 325536 -	AH-7 1-1.5'				
Param	Flag	Result	Units	RL	
Chloride		1780	mg/Kg	4	

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Sample: 325537 - AH-7 2-2.5'					
Param	Flag	Result	Units	RL	
Chloride		2290	mg/Kg	4	
Sample: 325538 - A	AH-7 3-3.5'				
Param	Flag	Result	Units	RL	
Chloride		2720	mg/Kg	4	
Sample: 325539 - A	AH-8 0-1'				
Param	Flag	Result	Units	RL	
Chloride		2770	mg/Kg	4	
Sample: 325540 - A	AH-8 1-1.5'				
Param	Flag	Result	Units	RL	
Chloride		2580	mg/Kg	4	
Sample: 325541 - A	AH-8 2-2.5'				
Param	Flag	Result	Units	RL	
Chloride		2910	mg/Kg	4	
Sample: 325542 - A	AH-8 3-3.5'				
Param	Flag	Result	Units	RL	
Chloride		1980	mg/Kg	4	
Sample: 325543 - A	AH-9 0-1'				
Param	Flag	Result	Units	RL	
Chloride		10400	mg/Kg	4	
Sample: 325544 - A	AH-9 1-1.5'				
Param	Flag	Result	Units	RL	
Chloride		2260	mg/Kg	4	

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Sample: 325545 - AH-9 2-2.5'						
Param Flag	Result	Units	RL			
Chloride	3380	mg/Kg	4			
Sample: 325546 - AH-9 3-3.5'						
Param Flag	Result	Units	RL			
Chloride	4820	mg/Kg	4			
Sample: 325547 - AH-10 0-1'						
Param Flag	Result	Units	RL			
Chloride	4460	mg/Kg	4			
Sample: 325548 - AH-10 1-1.5'						
Param Flag	Result	Units	RL			
Chloride	4620	mg/Kg	4			
Sample: 325549 - AH-10 2-2.5'						
Param Flag	Result	Units	RL			
Chloride	2020	mg/Kg	4			
Sample: 325550 - AH-10 3-3.5'						
Param Flag	Result	Units	RL			
Chloride	951	mg/Kg	4			
Sample: 325551 - AH-10 4-4.5'						
Param Flag	Result	Units	RL			
Chloride	1280	mg/Kg	4			
Sample: 325552 - AH-10 5-5.5'						
Param Flag	Result	Units	RL			
Chloride	1380	mg/Kg	4			