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

Responsible Party: SIMCOE LLC

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	NRM2016448841
District RP	
Facility ID	
Application ID	

Initial Spill Report

Release Notification

Responsible Party

OGRID: 329736

Contact Name: Steve Moskal (Contract for Simcoe)		Contact Te	elephone: (505) 330-9	179				
Contact email: steven.moskal@bpx.com		Incident # (assigned by OCD)						
Contact mai	ling address:	1199 Main St., S	uite 101, Durango	o CO, 8	1301			
			Location	ı of F	Release So	ource		
Latitude: 36.8	350419°		(NAD 83 in d	'ecimal de	Longitude: egrees to 5 decim	-107.630780° nal places)		
Site Name: N	ortheast Bla	nco Unit Pump M	lesa SWD 001		Site Type: Water Injection Well			
Date Release	Discovered	: May 20, 2020			API#: 30-0)45-27340		
Unit Letter	Section	Township	Range		Coun	nty		
N	36	T31N	R08W	San	Juan			
Crude Oi						justification for the volume		
		Volume Release				Volume Recovered		
Normal Produced	Water	Volume Release				Volume Recovered (bbls): 30		
Is the concentration of dissolved chloride produced water >10,000 mg/l?			e in the	Yes No				
Condensa	ate	Volume Released (bbls):			Volume Recovered (bbls):			
Natural C	Gas	Volume Released (Mcf)			Volume Recovered (Mcf)			
∑ Other (describe) Volume/Weight Released (provide units) 40 gallons – slop oil			3)	Volume/Weight Recovered (provide units) 0 gallons				
	roduced wa	iter from a slop o ositions from the				offloading event. T	he isolation va	lves were not in

Page 2 of 43

Incident ID	NRM2016448841
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the responsible party consider this a major release?	
release as defined by 19.15.29.7(A) NMAC?	Greater than 25 bbls and water and oil was released into containment.	
1).13.2).7(A) WIAC:		
⊠ Yes □ No		
	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	
Steve Moskai to Cory Si	mith (cell phone) on May 20, 2020; 3:45 PM	
	Initial Response	
The responsible	party must undertake the following actions immediately unless they could create a safety hazard that would result in injury	
The source of the rele	ease has been stopped.	
The impacted area ha	as been secured to protect human health and the environment.	
Released materials ha	ave been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
	ecoverable materials have been removed and managed appropriately.	
If all the actions described	d above have <u>not</u> been undertaken, explain why:	
has begun, please attach	IAC the responsible party may commence remediation immediately after discovery of a release. If remediation a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred at area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and		
	required to report and/or file certain release notifications and perform corrective actions for releases which may endanger ment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have	
failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In		
addition, OCD acceptance of and/or regulations.	f a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws	
Printed Name: Steve Moskal Title: Contract Environmental Coordinator		
affre	Men	
Signature:	Date:June 4, 2020	
email: <u>steven.moskal@</u>	<u>Obpx.com</u> Telephone: <u>(505) 330-9179</u>	
OCD O I		
OCD Only		
Received by: Ram	Date: <u>6/12/2020</u>	

Received by OCD: 6/10/2020 4:21:00 PM Form C-141 State of New Mexico Page 3 Oil Conservation Division

	Page 3 of	43
Incident ID	NRM2016448841	
District RP		
Facility ID		
Application ID		

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>>100</u> (ft bgs)	
Did this release impact groundwater or surface water?	☐ Yes ⊠ No	
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No	
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No	
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No	
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No	
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No	
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No	
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No	
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No	
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No	
Are the lateral extents of the release within a 100-year floodplain?		
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ⊠ No	
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.		
Characterization Report Checklist: Each of the following items must be included in the report.		
 \infty Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. \infty Field data 		
Data table of soil contaminant concentration data		
Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release		
Boring or excavation logs		
Photographs including date and GIS information		
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐		
, 		

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Received by OCD: 6/10/2020 4:21:00 PM Form C-141 State of New Mexico Page 4 Oil Conservation Division

Page	4	of	43
			1

Incident ID	NRM2016448841
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Printed Name: _Steve Moskal	Title:Contract Environmental Coordinator	
Signature: Mun Min	Date: <u>June 4, 2020</u>	
email: <u>steven.moskal@bpx.com</u>	Telephone: <u>(505) 330-9179</u>	
OCD Only		
Received by: Ramona Marcus	Date:6/12/2020	

Page 5 of 43

Incident ID	NRM2016448841
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan.
 □ Detailed description of proposed remediation technique □ Scaled sitemap with GPS coordinates showing delineation points □ Estimated volume of material to be remediated □ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC □ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)
<u>Deferral Requests Only</u> : Each of the following items must be confirmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
Extents of contamination must be fully delineated.
Contamination does not cause an imminent risk to human health, the environment, or groundwater.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.
Printed Name: Steve Moskal Title: Contract Environmental Coordinator
Signature: Date:
email: <u>steven.moskal@bpx.com</u> Telephone: <u>(505) 330-9179</u>
OCD Only
Received by: Ramona Marcus Date:6/12/2020
Approved Deferral Approved Deferral Approved
Signature: Date:

Page 6 of 43

	1 1180 0 0
Incident ID	NRM2016448841
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the J	following items must be included in the closure report.
A scaled site and sampling diagram as described in	19.15.29.11 NMAC
Photographs of the remediated site prior to backfill must be notified 2 days prior to liner inspection)	l or photos of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appro	opriate ODC District office must be notified 2 days prior to final sampling)
□ Description of remediation activities	
and regulations all operators are required to report and/or may endanger public health or the environment. The acc should their operations have failed to adequately investig human health or the environment. In addition, OCD acc compliance with any other federal, state, or local laws an restore, reclaim, and re-vegetate the impacted surface are accordance with 19.15.29.13 NMAC including notification. Printed Name: Steve Moskal	and complete to the best of my knowledge and understand that pursuant to OCD rules of file certain release notifications and perform corrective actions for releases which deptance of a C-141 report by the OCD does not relieve the operator of liability gate and remediate contamination that pose a threat to groundwater, surface water, eptance of a C-141 report does not relieve the operator of responsibility for ad/or regulations. The responsible party acknowledges they must substantially eat to the conditions that existed prior to the release or their final land use in it to the OCD when reclamation and re-vegetation are complete. Title: Contract Environmental Coordinator
Signature:	Date:
email:steven.moskal@bpx.com	Telephone: <u>(505) 330-9179</u>
OCD Only	
Received by: Ramona Marcus	Date: 6/12/2020
	asible party of liability should their operations have failed to adequately investigate and ter, surface water, human health, or the environment nor does not relieve the responsible I laws and/or regulations.
Closure Approved by:	Date:
Printed Name	Title



CLIENT:	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	API # TANK ID (if applicble):
FIELD REPORT:	(circle one): BGT CONFRWATION RELEASE INVESTIGATION) OTHER:	PAGE # of
SITE INFORMATION	STENAME: NEBU PUMP MESA SWD	DATE STARTED: 5/22/2020
QUAD/UNIT: SEC: 36 TWP:	31N RING BW PM NM CNTY: SJ ST: NM	DATE FINISHED: 5/22/2020
1/4-1/4/FOOTAGE: 990 FSL × 1	600 FWL LEASE TYPE: FEDERAL/STATE/FEE/INDIAN	ENVIRONMENTAL
LEASE #:	PROD. FORMATION: CONTRACTOR:	SPECIALIST(S): JCB
REFERENCE POINT	WELL HEAD (W.H.) GPS COORD: 36.850 ZZZ × 107.630	32/ GLELEV: 6432'
1) RELEASE SOURCE POINT	77	FARING FROM W.H.:
2)	GPS COORD.: DISTANCEASE	ARING FROM W.H.:
3)	GPS COORD.: DISTANCERS	EARING FROM WEH.:
4)	GPS COORD.: DISTANCERS	ARING FROM W.H.:
SAMPLING DATA:	CHAIN OF CUSTODY RECORD(S) # OR LAB USED: ENVIROTECH	OVM READING (ppm)
1) SAMPLEID: AREA 1 (5-P	CINT) SAMPLEDATE: 5/22/2020 SAMPLETIME: 1005 LABANALYSIS: TP	
2) SAMPLEID: AREA 2 (5-PO		70,
3) SAMPLEID: AREA 3 (5-f	f.,	1 2,820
4) SAMPLEID: AREA 4 (5- f		966
	SOIL TYPE SAND SILTY SAND/SILT/SILTY CLAY/CLAY (GRAVE) OTHER	1
SOIL COLOR: TAW	PLASTICITY (CLAYS): NON PLASTIC / SUGHTLY PLASTIC /	
COHESION (ALL OTHERS) (NON COHESIVE / SDIGHTLY		
CONSISTENCY (NON COHESIVE SOILS): (LC	IOSE/FIRM/DENSE/VERYDENSE HCODORDETECTED. (YES) NO EXPLANATION - 🗡	
MOISTURE: DRY/SLIGHTLY MOIST (MOIST)/VII		
SAMPLE TYPE: GRAB (COMPOSITE) -#	OF PTSS ANY AREAS DISPLAYING WETNESS: (YES) NO EXPL O EXPLANATION - Oily Swface	INATION -
	S: LOST INTEGRITY OF EQUIPMENT: YES (NO EXPLANATION - OVERFLOW	
	DANDIOR OCCURRED MES NO EXPLANATION:	
EQUIPMENT SET OVER RECLAIMED AREA:		
OTHER:		
SOIL IMPACT DIMENSION ESTIMATION:	40 ft. X 30 ft. X ? ft. EXCAVATION ESTIM	ATION (Cubic Yards): 1200 +6
DEPTH TO GROUNDWATER: >/00 N	EAREST WATER SOURCE: >/000 NEAREST SURFACE WATER: >/000 NMC	DCD TPH CLOSURE STD: 2500 ppm
SITE SKETCH	BGT Located : off / on site PLOT PLAN circle: attached Ov	M CALIB. READ. = 100.Z ppm RF=0.52
	244	M CALIB GAS = 100, 0 ppm
	M m	1 1020 and DATE 5/22/2020
	AREN +	MISCELL. NOTES
10	AREA 2	
	- DREAS DOLLAR	WO: PO #:
	TaiTBOAL	PK:
		PJ#:
	VXC T	Permit date(s):
		OCD Appr. date(s):
X=SAMPLY POINTS		ank OVM = Organic Vapor Meter D ppm = parts per million
POLINI	SW WITTHWAS	BGT Sidewalls Visible: Y / N
()	2 10 20	BGT Sidewalls Visible: Y / N
	ON DEPRESSION; B.G. = BELOW GRADE; B = BELOW; T.H. = TEST HOLE; ~= APPROX; W.H. = WELL HEAD;	BGT Sidewalls Visible: Y / N
	OW-GRADE TANK LOCATION; SPD = SAMPLE POINT DESIGNATION; R.W. = RETAINING WALL; NA-NOT WALL; DW-DOUBLE WALL: SB - SINGLE BOTTOM: DB - DOUBLE BOTTOM:	Magnetic declination: 10° E
NOTES:	ONSITE: 5/12 /UTO	

revised: 11/26/13



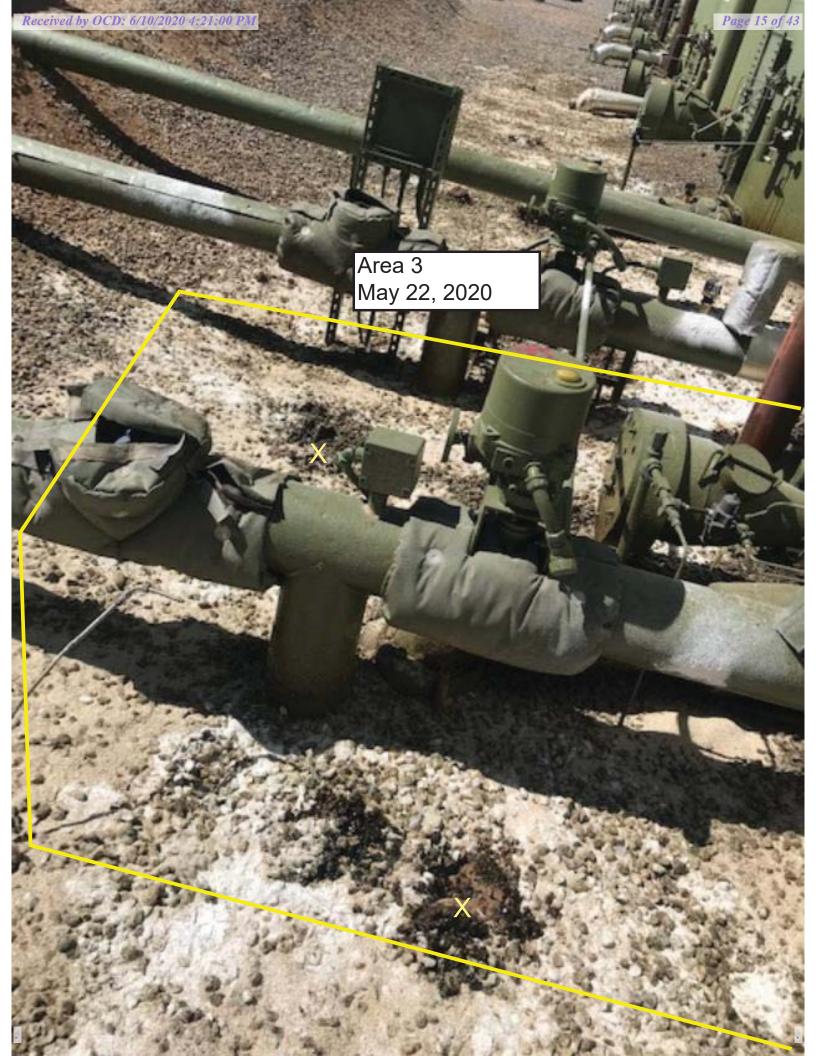






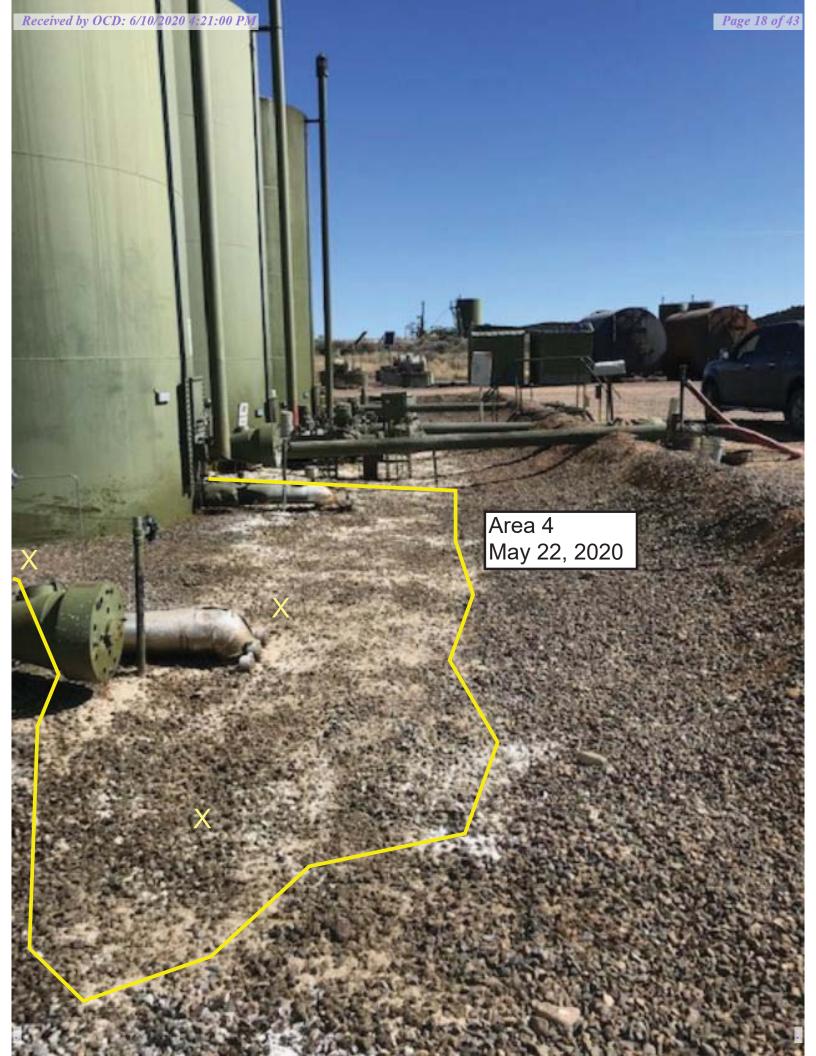












Summary of Laboratory Analysis Results in mg/Kg

NEBU Pump Mesa 001 Pipeline Release 5/22/2020

ъ ø	٤									Г
Method 300.0 Chloride	600 ppm	<20.0	<20.0	35	163					
Method 8021 BTEX	50 ppm	241.397	105.54	1.832	6.12					
Method 8021 Benzene	10 ppm	0.497	<0.250	<0.0250	<0.0250					
Total Hydrocarbons	2,500 ppm	24710	12359	1468.6	1902.4					
Method 8015 MRO	1,500 ppm	9920	4970	889	811					
Method 8015 DRO	1,000 ppm	13500	0929	662	1020					
Method 8015 GRO	1,000	1290	679	31.6	71.4					
Sample Depth (Feet BGS)		0.5	9.0	0.5	0.5					
Sample ID		Area 1	Area 2	Area 3	Area 4					
Time	delines	10:05	10:08	10:11	10:14					
Date	NMOCD Guidelines	5/22/2020 10:05	5/22/2020	5/22/2020	5/22/2020					

Analytical Report

Report Summary

Client: BP America Production Co.

Samples Received: 5/22/2020 Job Number: 03143-0424 Work Order: P005074

Project Name/Location: NEBU Pump Mesa SWD

Report Reviewed By:	Walter Hinderman	Date:	5/27/20	
		_		-

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.

Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.

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Envirotech, Inc, holds the Utah TNI certification NM009792018-1 for the data reported.

Envirotech, Inc, holds the Texas TNI certification T104704557-19-2 for the data reported.



Project Name:

NEBU Pump Mesa SWD

PO Box 22024 Tulsa OK, 74121-2024 Project Number: 03143-0424
Project Manager: Steve Moskal

Reported: 05/27/20 12:07

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
AREA 1	P005074-01A	Soil	05/22/20	05/22/20	Glass Jar, 4 oz.
AREA 2	P005074-02A	Soil	05/22/20	05/22/20	Glass Jar, 4 oz.
AREA 3	P005074-03A	Soil	05/22/20	05/22/20	Glass Jar, 4 oz.
AREA 4	P005074-04A	Soil	05/22/20	05/22/20	Glass Jar, 4 oz.

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5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

Project Name:

NEBU Pump Mesa SWD

PO Box 22024 Tulsa OK, 74121-2024 Project Number: Project Manager:

03143-0424 Steve Moskal **Reported:** 05/27/20 12:07

AREA 1 P005074-01 (Solid)

		1 0000	74-01 (50	nu,					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	0.497	0.250	mg/kg	10	2022001	05/26/20	05/26/20	EPA 8021B	
Toluene	31.2	0.250	mg/kg	10	2022001	05/26/20	05/26/20	EPA 8021B	
Ethylbenzene	13.2	0.250	mg/kg	10	2022001	05/26/20	05/26/20	EPA 8021B	
p,m-Xylene	159	0.500	mg/kg	10	2022001	05/26/20	05/26/20	EPA 8021B	
o-Xylene	37.5	0.250	mg/kg	10	2022001	05/26/20	05/26/20	EPA 8021B	
Total Xylenes	197	0.250	mg/kg	10	2022001	05/26/20	05/26/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		108 %	50-	150	2022001	05/26/20	05/26/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO	/ORO								
Diesel Range Organics (C10-C28)	13500	1250	mg/kg	50	2022003	05/26/20	05/26/20	EPA 8015D	
Oil Range Organics (C28-C40)	9920	2500	mg/kg	50	2022003	05/26/20	05/26/20	EPA 8015D	
Surrogate: n-Nonane		1100 %	50-	-200	2022003	05/26/20	05/26/20	EPA 8015D	S5
Nonhalogenated Organics by 8015 - GRO)								
Gasoline Range Organics (C6-C10)	1290	200	mg/kg	10	2022001	05/26/20	05/26/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.4 %	50-	150	2022001	05/26/20	05/26/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	2022002	05/26/20	05/26/20	EPA 300.0/9056A	

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5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

Project Name:

NEBU Pump Mesa SWD

PO Box 22024 Tulsa OK, 74121-2024 Project Number: Project Manager: 03143-0424 Steve Moskal **Reported:** 05/27/20 12:07

AREA 2 P005074-02 (Solid)

		P0050	74-02 (Solid	a)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.250	mg/kg	10	2022001	05/26/20	05/26/20	EPA 8021B	
Toluene	10.7	0.250	mg/kg	10	2022001	05/26/20	05/26/20	EPA 8021B	
Ethylbenzene	5.64	0.250	mg/kg	10	2022001	05/26/20	05/26/20	EPA 8021B	
p,m-Xylene	71.4	0.500	mg/kg	10	2022001	05/26/20	05/26/20	EPA 8021B	
o-Xylene	17.9	0.250	mg/kg	10	2022001	05/26/20	05/26/20	EPA 8021B	
Total Xylenes	89.2	0.250	mg/kg	10	2022001	05/26/20	05/26/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		107 %	50-13	50	2022001	05/26/20	05/26/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO	O/ORO								
Diesel Range Organics (C10-C28)	6760	500	mg/kg	20	2022003	05/26/20	05/26/20	EPA 8015D	
Oil Range Organics (C28-C40)	4970	1000	mg/kg	20	2022003	05/26/20	05/26/20	EPA 8015D	
Surrogate: n-Nonane		526 %	50-20	00	2022003	05/26/20	05/26/20	EPA 8015D	S5
Nonhalogenated Organics by 8015 - GRO	0								
Gasoline Range Organics (C6-C10)	629	200	mg/kg	10	2022001	05/26/20	05/26/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.9 %	50-13	50	2022001	05/26/20	05/26/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	2022002	05/26/20	05/26/20	EPA 300.0/9056A	

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5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

Project Name: Project Number:

Project Manager:

NEBU Pump Mesa SWD

PO Box 22024 Tulsa OK, 74121-2024 03143-0424 Steve Moskal **Reported:** 05/27/20 12:07

AREA 3 P005074-03 (Solid)

		P0050	74-03 (501	iu)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2022001	05/26/20	05/26/20	EPA 8021B	
Toluene	0.0288	0.0250	mg/kg	1	2022001	05/26/20	05/26/20	EPA 8021B	
Ethylbenzene	0.0550	0.0250	mg/kg	1	2022001	05/26/20	05/26/20	EPA 8021B	
p,m-Xylene	1.24	0.0500	mg/kg	1	2022001	05/26/20	05/26/20	EPA 8021B	
o-Xylene	0.508	0.0250	mg/kg	1	2022001	05/26/20	05/26/20	EPA 8021B	
Total Xylenes	1.74	0.0250	mg/kg	1	2022001	05/26/20	05/26/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		107 %	50-1	150	2022001	05/26/20	05/26/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO	O/ORO								
Diesel Range Organics (C10-C28)	799	25.0	mg/kg	1	2022003	05/26/20	05/26/20	EPA 8015D	
Oil Range Organics (C28-C40)	638	50.0	mg/kg	1	2022003	05/26/20	05/26/20	EPA 8015D	
Surrogate: n-Nonane		106 %	50-2	200	2022003	05/26/20	05/26/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GR	0								
Gasoline Range Organics (C6-C10)	31.6	20.0	mg/kg	1	2022001	05/26/20	05/26/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.9 %	50-1	150	2022001	05/26/20	05/26/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	35.0	20.0	mg/kg	1	2022002	05/26/20	05/26/20	EPA 300.0/9056A	

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Project Name:

NEBU Pump Mesa SWD

PO Box 22024 Tulsa OK, 74121-2024 Project Number: 03143-0424 Project Manager: Steve Moskal **Reported:** 05/27/20 12:07

AREA 4 P005074-04 (Solid)

		1 0050	74-04 (301	iuj					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2022001	05/26/20	05/26/20	EPA 8021B	
Toluene	0.0499	0.0250	mg/kg	1	2022001	05/26/20	05/26/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2022001	05/26/20	05/26/20	EPA 8021B	
p,m-Xylene	4.65	0.0500	mg/kg	1	2022001	05/26/20	05/26/20	EPA 8021B	
o-Xylene	1.41	0.0250	mg/kg	1	2022001	05/26/20	05/26/20	EPA 8021B	
Total Xylenes	6.06	0.0250	mg/kg	1	2022001	05/26/20	05/26/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		110 %	50-	150	2022001	05/26/20	05/26/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO	O/ORO								
Diesel Range Organics (C10-C28)	1020	25.0	mg/kg	1	2022003	05/26/20	05/26/20	EPA 8015D	
Oil Range Organics (C28-C40)	811	50.0	mg/kg	1	2022003	05/26/20	05/26/20	EPA 8015D	
Surrogate: n-Nonane		116 %	50-2	200	2022003	05/26/20	05/26/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO)								
Gasoline Range Organics (C6-C10)	71.4	20.0	mg/kg	1	2022001	05/26/20	05/26/20	EPA 8015D	_
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.6 %	50-1	150	2022001	05/26/20	05/26/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	163	20.0	mg/kg	1	2022002	05/26/20	05/26/20	EPA 300.0/9056A	

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Project Name:

NEBU Pump Mesa SWD

PO Box 22024 Project Number: Tulsa OK, 74121-2024 Project Manager: 03143-0424 Reported: Steve Moskal 05/27/20 12:07

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2022001 - Purge and Trap EPA 5030A										
Blank (2022001-BLK1)				Prepared: (05/26/20 0 A	Analyzed: 0	05/26/20 1			
Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 4-Bromochlorobenzene-PID	8.33		"	8.00		104	50-150			
LCS (2022001-BS1)				Prepared: (05/26/20 0 A	Analyzed: 0	05/26/20 1			
Benzene	5.09	0.0250	mg/kg	5.00		102	70-130			
Toluene	5.09	0.0250	"	5.00		102	70-130			
Ethylbenzene	5.07	0.0250	"	5.00		101	70-130			
p,m-Xylene	10.1	0.0500	"	10.0		101	70-130			
o-Xylene	5.08	0.0250	"	5.00		102	70-130			
Total Xylenes	15.2	0.0250	"	15.0		101	0-200			
Surrogate: 4-Bromochlorobenzene-PID	8.50		"	8.00		106	50-150			
Matrix Spike (2022001-MS1)	Sou	rce: P005075-	04	Prepared: (05/26/20 0 A	Analyzed: (05/26/20 1			
Benzene	5.09	0.0250	mg/kg	5.00	ND	102	54.3-133			
Toluene	5.08	0.0250	"	5.00	ND	102	61.4-130			
Ethylbenzene	5.05	0.0250	"	5.00	ND	101	61.4-133			
p,m-Xylene	10.1	0.0500	"	10.0	ND	101	63.3-131			
o-Xylene	5.06	0.0250	"	5.00	ND	101	63.3-131			
Total Xylenes	15.1	0.0250	"	15.0	ND	101	0-200			
Surrogate: 4-Bromochlorobenzene-PID	8.49		"	8.00		106	50-150			
Matrix Spike Dup (2022001-MSD1)	Sou	rce: P005075-	04	Prepared: (05/26/20 0 A	Analyzed: (05/26/20 1			
Benzene	4.92	0.0250	mg/kg	5.00	ND	98.4	54.3-133	3.40	20	
Toluene	4.89	0.0250	"	5.00	ND	97.8	61.4-130	3.76	20	
Ethylbenzene	4.87	0.0250	"	5.00	ND	97.4	61.4-133	3.66	20	
p,m-Xylene	9.73	0.0500	"	10.0	ND	97.3	63.3-131	3.61	20	
o-Xylene	4.87	0.0250	"	5.00	ND	97.5	63.3-131	3.76	20	
Total Xylenes	14.6	0.0250	"	15.0	ND	97.3	0-200	3.66	200	
Surrogate: 4-Bromochlorobenzene-PID	8.31		"	8.00		104	50-150			

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Project Name:

NEBU Pump Mesa SWD

PO Box 22024 Tulsa OK, 74121-2024

Project Number: 03143-0424 Project Manager: Steve Moskal

Reported: 05/27/20 12:07

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

		D (G 7	C		0/DEC		DDD	
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2022003 - DRO Extraction EPA 3570										
Blank (2022003-BLK1)				Prepared: (05/26/20 0 A	Analyzed: 0	5/26/20 1			
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	51.0		"	50.0		102	50-200			
LCS (2022003-BS1)				Prepared: (05/26/20 0 A	Analyzed: 0	5/26/20 1			
Diesel Range Organics (C10-C28)	417	25.0	mg/kg	500		83.4	38-132			
Surrogate: n-Nonane	46.4		"	50.0		92.8	50-200			
Matrix Spike (2022003-MS1)	Sou	rce: P005074-	01	Prepared: (05/26/20 0 A	Analyzed: 0	5/26/20 1			
Diesel Range Organics (C10-C28)	14400	2500	mg/kg	500	13500	172	38-132			M4
Surrogate: n-Nonane	0.00		"	50.0			50-200			Se
Matrix Spike Dup (2022003-MSD1)	Sou	rce: P005074-	01	Prepared: (05/26/20 0 A	Analyzed: 0	5/26/20 1			
Diesel Range Organics (C10-C28)	14800	2500	mg/kg	500	13500	249	38-132	2.64	20	M4
Surrogate: n-Nonane	0.00		"	50.0			50-200			Se

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Page 28 of 43



BP America Production Co.

Project Name:

Reporting

NEBU Pump Mesa SWD

Spike

Source

%REC

PO Box 22024 Tulsa OK, 74121-2024

Project Number: 03143-0424 Project Manager: Steve Moskal

Reported: 05/27/20 12:07

RPD

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

		B		F						
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2022001 - Purge and Trap EPA 5030A										
Blank (2022001-BLK1)				Prepared:	05/26/20 0	Analyzed: 0	5/26/20 1			
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.30		"	8.00		91.3	50-150			
LCS (2022001-BS2)				Prepared:	05/26/20 0	Analyzed: 0	05/26/20 1			
Gasoline Range Organics (C6-C10)	46.0	20.0	mg/kg	50.0		92.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.52		"	8.00		94.0	50-150			
Matrix Spike (2022001-MS2)	Sour	ce: P005075-	04	Prepared:	05/26/20 0	Analyzed: 0	05/26/20 1			
Gasoline Range Organics (C6-C10)	48.7	20.0	mg/kg	50.0	ND	97.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		"	8.00		92.2	50-150			
Matrix Spike Dup (2022001-MSD2)	Sour	ce: P005075-	04	Prepared:	05/26/20 0	Analyzed: 0	05/26/20 1			
Gasoline Range Organics (C6-C10)	45.4	20.0	mg/kg	50.0	ND	90.9	70-130	6.92	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.32		"	8.00		91.5	50-150			

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Project Name:

Reporting

NEBU Pump Mesa SWD

Spike

PO Box 22024 Tulsa OK, 74121-2024 Project Number: 03143-0424 Project Manager: Steve Moskal **Reported:** 05/27/20 12:07

RPD

%REC

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2022002 - Anion Extraction EPA 30	0.0/9056A									
Blank (2022002-BLK1)				Prepared: (05/26/20 0 A	Analyzed: 0	5/26/20 1			
Chloride	ND	20.0	mg/kg							
LCS (2022002-BS1)				Prepared: (05/26/20 0 A	Analyzed: 0	5/26/20 1			
Chloride	254	20.0	mg/kg	250		102	90-110			
Matrix Spike (2022002-MS1)	Source	: P005076-	01	Prepared: (05/26/20 0 A	Analyzed: 0	5/26/20 1			
Chloride	261	20.0	mg/kg	250	ND	105	80-120			
Matrix Spike Dup (2022002-MSD1)	Source	: P005076-	01	Prepared: (05/26/20 0 A	Analyzed: 0	5/26/20 1			
Chloride	260	20.0	mg/kg	250	ND	104	80-120	0.537	20	

QC Summary Report

Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values my differ slightly.

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Ph (505) 632-0615 Fx (505) 632-1865

BP America Production Co. Project Name: NEBU Pump Mesa SWD

 PO Box 22024
 Project Number:
 03143-0424
 Reported:

 Tulsa OK, 74121-2024
 Project Manager:
 Steve Moskal
 05/27/20 12:07

Notes and Definitions

S6 Surrogate was diluted out due to high concentrations of target and/or non-target analytes and does not provide useful information. The associated LCS spike recovery was acceptable.

S5 Surrogate spike recovery exceeded acceptance limits due to interfering target and/or non-target analytes.

M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The

associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

** Methods marked with ** are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

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Page /

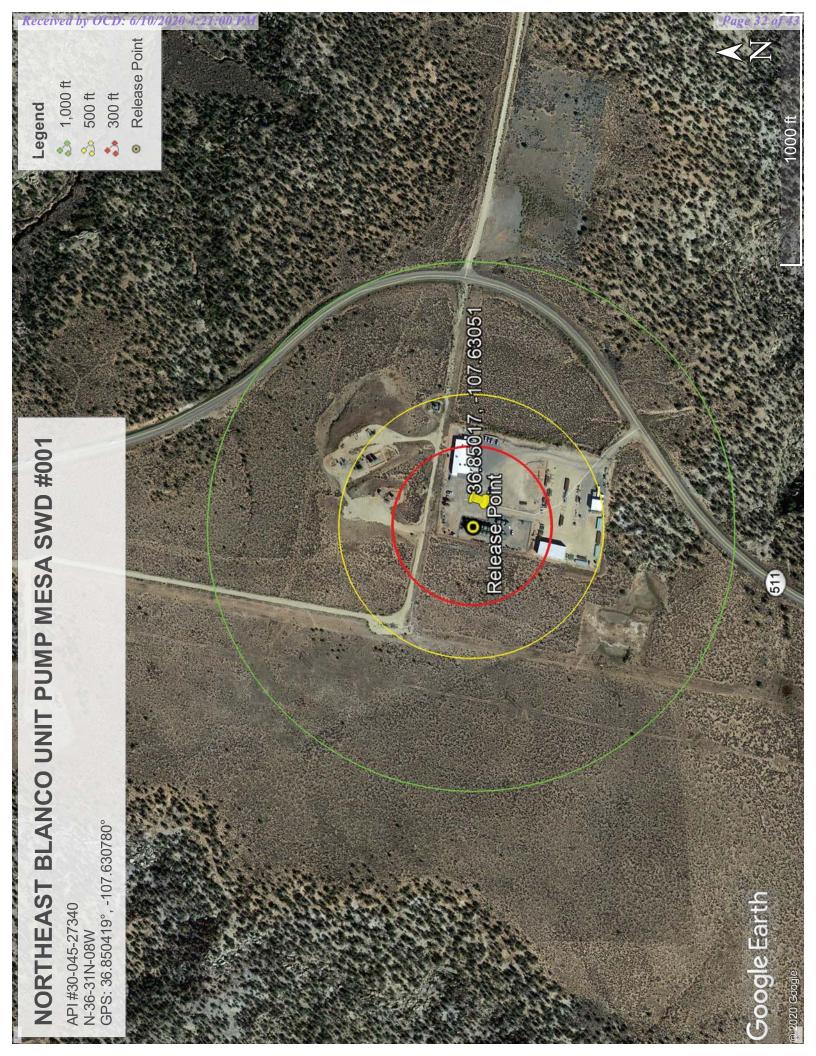
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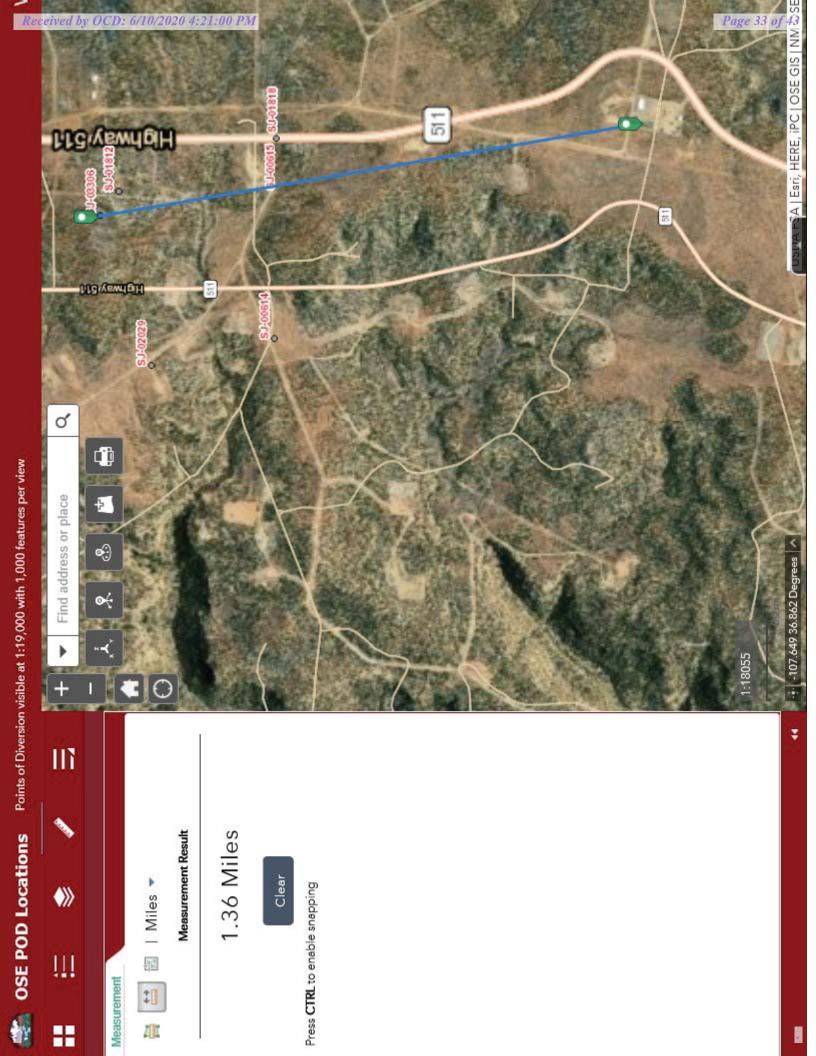
Client: BPX			Bill To			Lab Use Only	e Only	TAT	EP.	EPA Program	
Project: NEBU RU	RUMP Mesa SW	At	Attention: BPX - Stave Mosky		Lab WO#		Job Number	1D 3D	RCRA	CWA SDWA	۸۸
Project Manager: 5+eve	ve Maskal	Ad		- 1	20050	ナナ	03143-64CH				
Address:		Citx	.y, State, Zip			,	Analysis and Method	d		State	
City, State, Zip		됩	Phone:					_		NM CO UT	AZ
Phone:	4		Email: Steven, Maskal @ BPX	COM							
Report due by: 5/29	1000 AOL. (0.4)	ī								X OK	
Time Date Matrix	XII	Q		Lab	80/080	VOC by E	Metals 6			Remarks	
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										3	
Additional Instructions:	814 BFX 142020	SPius	60,								
 (field sampler), attest to the validity and authenticity of this sample. I am aware that the time of collection is considered fraud and may be grounds for legal action. Sampled by: 	and authenticity of this sample, and may be grounds for legal act	I am aware that tamportion. Sampled by:	or intentionally mislabelling the sample	location, date or			Samples requiring thermal preservation must be received on ket the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.	ervation must be retemp above 0 but	eceived on ice the is less than 6 °C on si	day they are sampled or ubsequent days.	
Relinquished by: Signature)	5/12/2020	71me 58	Received by (Signatura)	Ostre Color	Time	8	Received on ice:	Lab Us	Lab Use Only		
Relinquished by: (Signature)	Date	Time	Received by: (Sepature)	Date	Time		71) 년		T3	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time		AVG Temp °C	100			
Sample Matrix: S - Soil, Sd - Soild, Sg - Sludge, A - Aqueous, O - Other	Sg. Sludge, A. Aqueous, O.	- Other		Container T	ype: g - gla	ss, p - po	Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA	er glass, v -	VOA		
Note: Samples are discarded 30 di only to those samples received by	ays after results are reported the laboratory with this CO	d unless other arrang C. The liability of th	Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.	turned to clier the report.	it or disposed	of at the cl	ent expense. The repor	t for the analy	rsis of the abov	re samples is applic	aple
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labadmin@enynalechung com

5796 US Highway 64, Famington, NM 87401 24 Hour Emergency Response Phone (900) 363-1879 envirotech Analytical Laboratory







New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)	
(quarters are smallest to largest)	(1)

NAD83 UTM in meters) Well Tag **POD Number** Q64 Q16 Q4 Sec Tws Rng SJ 03306 1 25 31N 08W 265739 4083645*

Driller License: 1357 **Driller Company:** BAILEY DRILLING COMPANY

Driller Name: MARK BAILEY

Drill Start Date: Drill Finish Date: 11/17/2003 11/03/2003 Plug Date:

Log File Date: 11/26/2003 **PCW Rcv Date:** Shallow Source: Pump Type: Pipe Discharge Size: **Estimated Yield:** 10 GPM **Casing Size:** 5.00 Depth Well: 600 feet Depth Water: 500 feet

Water Bearing Stratifications: Top **Bottom Description**

500 Sandstone/Gravel/Conglomerate

Casing Perforations: Top **Bottom** 480 600

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

6/4/20 10:41 AM

POINT OF DIVERSION SUMMARY

^{*}UTM location was derived from PLSS - see Help

Hydrogeological Report for the NEBU 447

Geology:

The stratigraphic sequence of Paleocene and Eocene rocks in the eastern part of the San Juan basin is the Nacimiento and Animas formation overlain by the San Jose Formation. The San Jose Formation of Eocene age was defined by Simpson (1948a, b). It occurs in New Mexico and Colorado and its outcrop forms the land surface over much of the central basin area. It over lies the Nacimiento Formation in the area generally south of the State line (Fassett, 1974. P229). The Basal contact of the San Jose varies with location in the basin. This contact is a disconformity along the basin margins, and it is an angular unconformity along the Nacimiento uplift; the contact is conformable in the central basin. The Nacimiento is a sequence of varicolored beds of sandstone and mudrock that attains a thickness of as much as 120 m thick (Baltz,1967).

The Animas Formation occupies a stratigraghic position similar to that of the OJO Alamo and Nacimiento Formations. The Animas strata comprise a general fining upward sequence of volcaniclastic conglomerates and sandstones, with arkosic conglomerates and sandstones near the top. The upper member of the Animas has been shown to interfinger with the Nacimiento in its eastern (Dane, 1946) and western (Barnes et al., 1954) ourcrop belts. Subsurface correlation of these formations has not been carried out in any detail because of the difficulty of recognizing their contact on Electric logs (Fasset and Hinds, 1971:33).

The nature of the contact between the lower Eocene San Jose Formation and the Nacimiento formation north of latitude 36 degrees 45'N has been described as conformable (Barnes et al., 1954, Stone et al., 1983 25-26), Whereas at latitude 36 it has been shown to be unconformable (Baltz, 1967; Lucas et al., 1981) Contact relationships between the San Jose and Animas Formations in the northernmost San Juan Basin have been shown to be intertounguing (Smith, 1988). The San Jose formation was deposited in various fluvial type environments. In general the unit consists of an interbeded sequence of sandstone siltstone and variegated shale, the sandstones are buff to yellow and rusty-colored crossbedded very fine to coarse grained arkose, which are locally conglomeratic and contain abundant silicified wood. The thickness of the San Jose Nacimiento and Animas Formations is ranges from zero to more than 3,500 feet in the east central part of the structural basin. The bottom of the Nacimiento and Animas Formations decreases from a maximum altitude of more than 8 000 feet above sea level along the northeastern basin rim to less than 4,000 feet above sea level in the east central part of the basin.

Hydraulic Properties:

The San Jose, Nacimienito, and Animas Formations are a source of water for publicsupply, commercial, private-domestic, and livestock use in areas where drilling depths and pumping levels are economically feasible and where water quality is suitable. Water in the San Jose Nacimiento and Animas Formations occurs under both water table and artesian conditions. Recharge to the aquifer is from infiltration of precipitation and stream flow on outcrops and from vertical upward leakage of water from underlying units. Transmissivity data for the San Jose Nacimiento and Animas Formations are minimal-Values of 40 and 120 feet squared per day were determined from two aquifer tests (Stone and others 1983 table 5). The reported or measured discharge from 79 water wells completed in the San Jose, Nacimiento, and Animas Formations ranges from 1 to 61 gallons per minute and the median is 6 gallons per minute. The specific capacity of 12 of these wells ranges from 0.03 to 2.30 gallons per minute per foot of drawdown and the median is 0.23 gallon per minute per foot of drawdown. Water quality data described in this section are from the NWIS data base and were collected during 1938. 84 Well records were checked to assure to the extent possible that a particular sample represents water only from the San Jose Nacimiento and Animas Formations and not a mixture of water from other aquifers. Locally however these formations may have substantial differences in the concentration of some water quality constituents due in part to differences in rock characteristics as described in the Geology section.

Reference:

USGS Hydrologic investigations atlas HA-720-A plate 1,2 Lucas, Spencer G and Smith, Larry N. 1991, Stratigraphy, Sedimentology and Paleontology of the Lower Eocene San Jose Formation in the central portion of the San Juan basin, Northwestern New Mexico, New Mexico Bureau of Mines & Mineral Resources Bulletin 126. 6-7p.

Sitting Requirements for NEBU 447

The NEBU 447 is not located in an unstable area per topographic map attached.

There is no continuously flowing watercourse near the proposed location.

The proposed well location is neither near any private and/or public buildings nor any private and/or public water sources.

The proposed well location is not located within any incorporated municipal boundaries or municipal fresh water well field.

There are no wetlands located near the proposed well location as per the wetlands map attached.

Per the NM Bureau of Geology and Mineral Resources map attached there are no locations of any mines, mills or quarries near the proposed well location.

The FEMA floodplain map attached indicates the proposed well location is defined as outside of the 500 Year Flood Plain.

There will be no excavated material placed within 300 feet of a flowing watercourse or within 200 feet of any other defined water course.

New Mexico Office of the State Engineer POD Reports and Downloads

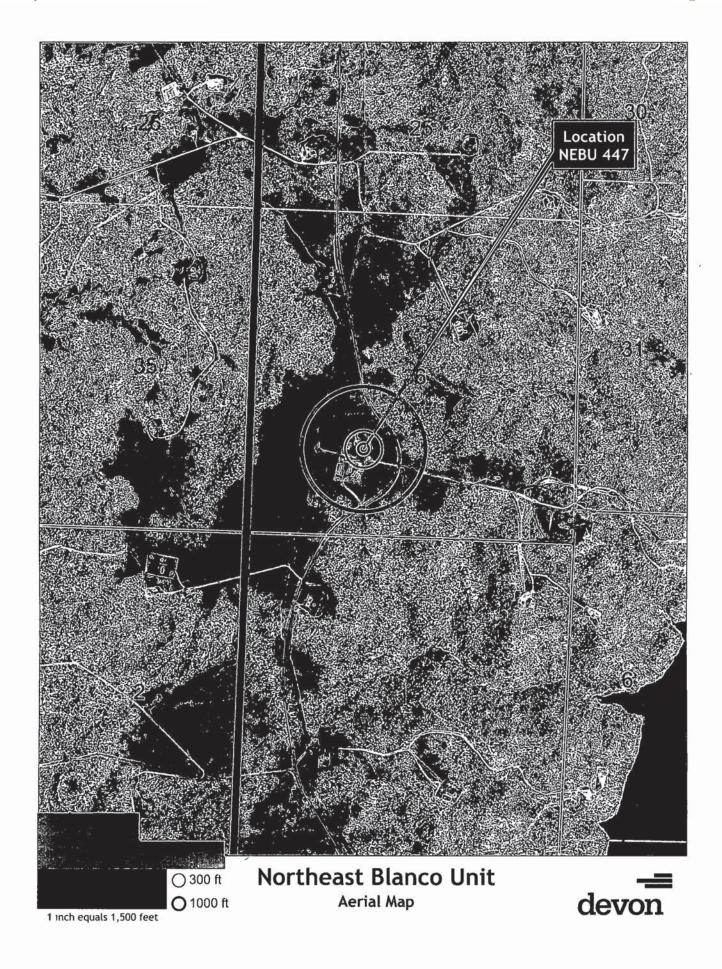
Township: 31N Range: 08W Secti	ons: 36,25,35,26
NAD27 X: Y: Zon	ne: Search Radius:
County: Basin:	Number: Suffix:
Owner Name: (First) (Last)	○ Non-Domestic ○ Domestic
POD-/-Surface-Data-Report	Avg Depth-to-Water-Report
Clear Form	FERS Menu Help

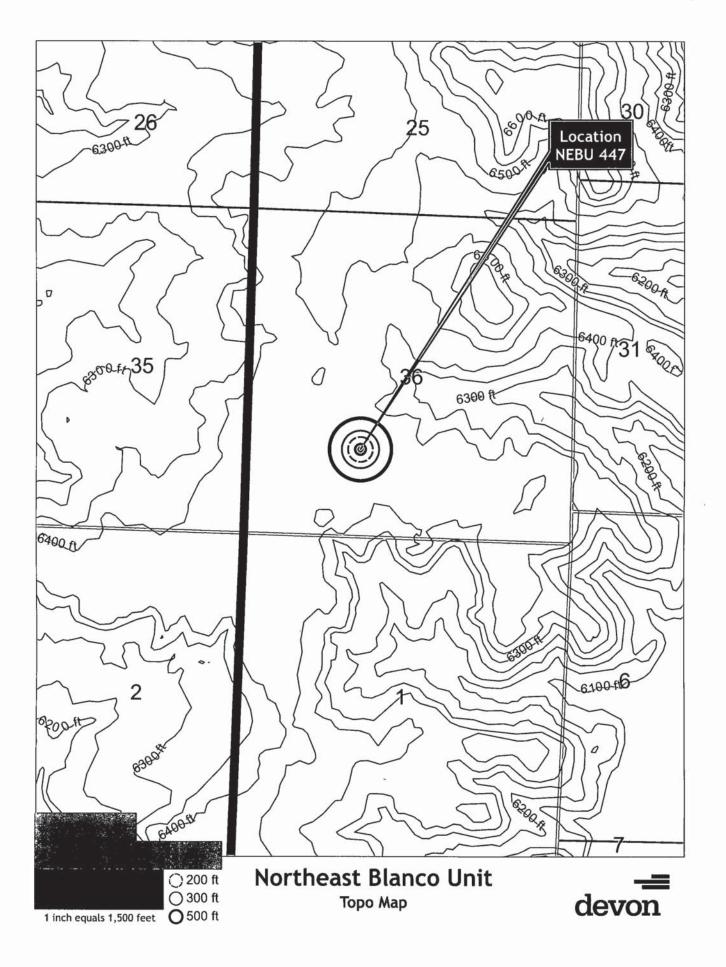
AVERAGE DEPTH OF WATER REPORT 09/10/2008

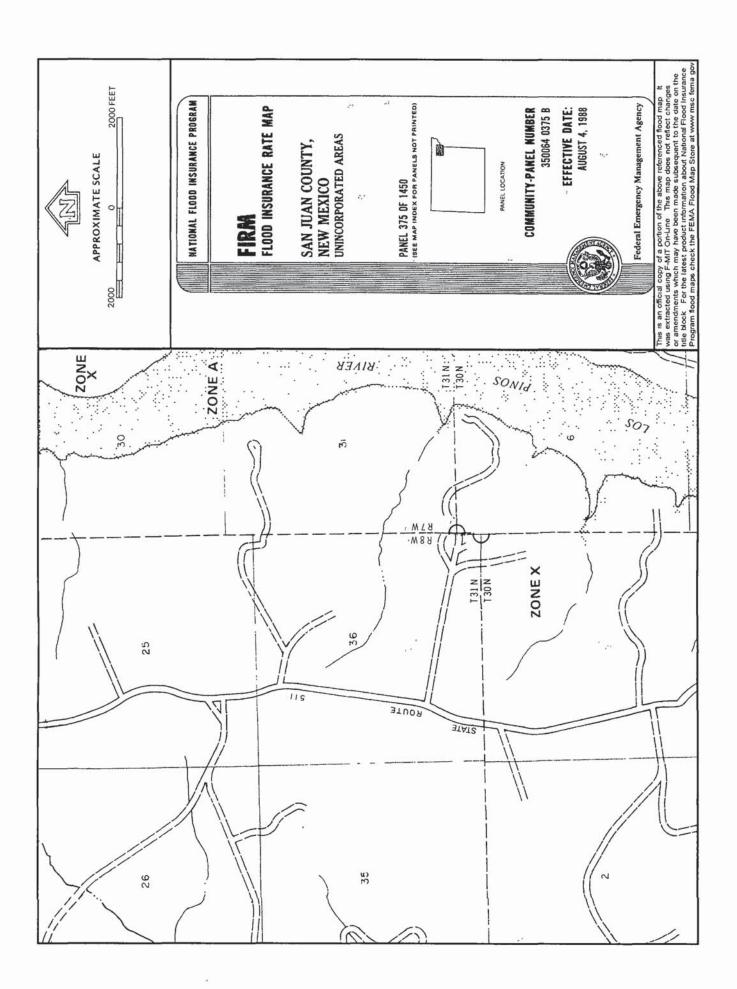
(Depth Water in Feet)

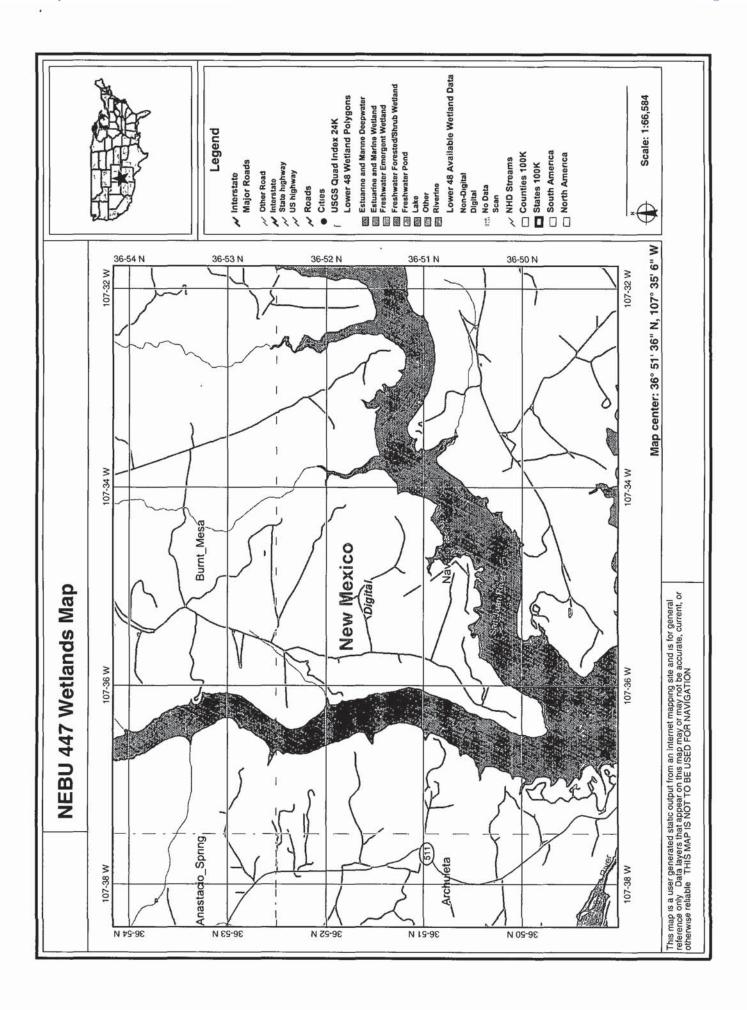
								(Depen	mater III	reeci
Bsn	Tws	Rng	Sec	Zone	x	Y	Wells	Min	Max	Avg
SJ	31N	08M	25				2	500	500	500

Record Count: 2









NEBU 447 Mines, Mills and Quarries Web Map

wines, wiii	s & Quarries Commodity Groups	
Δ	Aggregate & Stone Mines	
•	Coal Mines	
*	Industrial Minerals Mines	
•	Industrial Minerals Mills	
Ø	Metal Mines and Mill Concentrate	
	Potash Mines & Refineries	
2	Smelters & Refinery Ops.	
*	Uranium Mines	
(1)	Uranium Mills	
Population	i e	
	Citica (2000 Canava)	

