District I
1625 N French Dr., Hobbs, NM 8824 E E Energy Minerals and Natural Resources
District II
1301 W Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 84410
District IV
1220 S-St Francis Dr., Santa Fe, NM 771110CD ARTESIA Dr.
Santa Fe, NM 87505

For temporary pits, closed-loop systems, and below-grade tanks, submit to the appropriate NMOCD District Office

For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.



Pit, Closed-Loop System, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application

Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method

Final Closure Report Modification to an existing permit Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method
Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request
Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances
Operator Yates Petroleum Corp. OGRID # 025575
Address: _105 South 4th. Artesia N.M. 88210
Facility or well name:Tombstone BMB St #1
API Number30-015-36315OCD Permit Number:
U/L or Qtr/Qtr D Section 12 Township 25S Range 29E County. Eddy
Center of Proposed Design: Latitude32 151047
Surface Owner: Federal State Private Tribal Trust or Indian Allotment
2.
Pit: Subsection F or G of 19.15.17 11 NMAC
Temporary Drilling Workover
☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A
☐ Lined ☐ Unlined Liner type: Thickness20mil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other
⊠ String-Reinforced
Liner Seams: Welded Factory Other Volume. 13,000_bbl Dimensions: L_150_x W_150_x D_6
3.
Closed-loop System: Subsection H of 19.15.17.11 NMAC
Type of Operation. P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)
Drying Pad Above Ground Steel Tanks Haul-off Bins Other
Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other
Liner Seams: Welded Factory Other
4.
Below-grade tank: Subsection I of 19 15.17.11 NMAC
Volume:bbl Type of fluid:
Tank Construction material.
Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other
Liner type. Thickness mil HDPE PVC Other
Alternative Method:
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval

And closure don 5/29/05

Fencing: Subsection D of 19.15.17 11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks) Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, institution or church)	hospītal.
Four foot height, four strands of barbed wire evenly spaced between one and four feet	
Alternate. Please specify	
Netting: Subsection E of 19 15 17.11 NMAC (Applies to permanent pits and permanent open top tanks) Screen Netting Other Monthly inspections (If netting or screening is not physically feasible)	
- Monthly inspections (in feeding of servening is not physically reasone)	
Signs: Subsection C of 19.15.17 11 NMAC	
12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers	
☐ Signed in compliance with 19.15.3.103 NMAC	
9. Administrative Approvals and Exceptions: Justifications and/or demonstrations of equivalency are required Please refer to 19.15 17 NMAC for guidance. Please check a box if one or more of the following is requested, if not leave blank: Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau consideration of approval. Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval	office for
Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptant material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the approoffice or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of a Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to dry above-grade tanks associated with a closed-loop system.	priate district pproval.
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application (Applies to temporary, emergency, or cavitation pits and below-grade tanks) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	Yes No
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application (Applies to permanent pits) - Visual inspection (certification) of the proposed site; Aerial photo: Satellite image	☐ Yes ☐ No ☐ NA
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality, Written approval obtained from the municipality	☐ Yes ☐ No
Within 500 feet of a wetland - US Fish and Wildlife Wetland Identification map, Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
Within an unstable area. - Engineering measures incorporated into the design, NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	☐ Yes ☐ No
Within a 100-year floodplain FEMA map	☐ Yes ☐ No

Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19 15 17 9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19 15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19 15 17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15 17 12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19 15 17.9 NMAC and 19 15.17.13 NMAC Previously Approved Design (attach copy of design) API Number or Permit Number:
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19 15 17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19 15 17.9 Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19 15 17 10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19 15.17.9 NMAC and 19 15 17.13 NMAC
 □ Previously Approved Design (attach copy of design) □ Previously Approved Operating and Maintenance Plan □ API Number. □ API Numb
Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H ₂ S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan. Type Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Closed-loop System Alternative Proposed Closure Method Waste Excavation and Removal Waste Removal (Closed-loop systems only) On-site Closure Method (Only for temporary pits and closed-loop systems) In-place Burial On-site Trench Burial Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)
Waste Excavation and Removal Closure Plan Checklist: (19 15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached. Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19 15 17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17 13.D Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if n							
facilities are required.							
Disposal Facility Name: Disposal Facility Permit Number							
Disposal Facility Name: Disposal Facility Permit Number:							
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for future serv Yes (If yes, please provide the information below) No	rice and operations?						
Required for impacted areas which will not be used for future service and operations Soil Backfill and Cover Design Specifications based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC							
Siting Criteria (regarding on-site closure methods only): 19.15.17 10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate distructions of an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Justif demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.	ict office or may be						
Ground water is less than 50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA						
Ground water is between 50 and 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA						
Ground water is more than 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA						
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark) - Topographic map; Visual inspection (certification) of the proposed site	Yes No						
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No						
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application - NM Office of the State Engineer - iWATERS database, Visual inspection (certification) of the proposed site	Yes No						
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	Yes No						
Within 500 feet of a wetland - US Fish and Wildlife Wetland Identification map, Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No						
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No						
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society, Topographic map	Yes No						
Within a 100-year floodplain. - FEMA map	☐ Yes ☐ No						
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan by a check mark in the box, that the documents are attached. □ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC □ Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19.15 17.13 NMAC □ Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC □ Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC □ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC □ Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC □ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC □ Re-vegetation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC □ Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC	15.17.11 NMAC						

Operator Application Certification: I hereby certify that the information submitted with this application is	s true, accurate and complete to the best of my knowledge and belief.
Name (Print):	Title:
Signature:	Date.
e-mail address:	Telephone:
OCD Approval: Permit Application (including closure plan)	
OCD Representative Signature:	Mike Bratcher Approval Date:Mar. 6- 2009
Title:	OCD Permit Number:
Closure Report (required within 60 days of closure completion): Instructions: Operators are required to obtain an approved closure	Subsection K of 19 15 17 13 NMAC plan prior to implementing any closure activities and submitting the closure report. 60 days of the completion of the closure activities. Please do not complete this
Closure Method: Waste Excavation and Removal ☐ On-Site Closure Method ☐ If different from approved plan, please explain.	☐ Alternative Closure Method ☐ Waste Removal (Closed-loop systems only)
Instructions: Please indentify the facility or facilities for where the two facilities were utilized. Disposal Facility Name: Disposal Facility Name:	Disposal Facility Permit Number. ormed on or in areas that will not be used for future service and operations? No
mark in the box, that the documents are attached. □ Proof of Closure Notice (surface owner and division) □ Proof of Deed Notice (required for on-site closure) □ Plot Plan (for on-site closures and temporary pits) □ Confirmation Sampling Analytical Results (if applicable)	nte closure) 1-035 Ind Seeded With 33 Lbs. Winter Wheat Will Reseed Late June 2010 Longitude NAD 1927 1983
25 Operator Closure Certification:	
I hereby certify that the information and attachments submitted with t	his closure report is true, accurate and complete to the best of my knowledge and ure requirements and conditions specified in the approved closure plan.
Name (Print):Scott Pitts	Title:Construction Supervisor
Signature Signature	Date:8-10-2009
c-mail address scottp@yatespetroleum.com	Telephone: (575)-365-4716

Accepted for record NMOCD

NOV 0 6 2009



ANALYTICAL RESULTS FOR YATES PETROLEUM CORPORATION ATTN: SCOTT PITTS

105 SOUTH 4TH STREET ARTESIA, NM 88210 FAX TO: (575) 748-4229

Receiving Date: 04/09/09 Reporting Date: 04/09/09

Quality Control

True Value QC

Relative Percent Difference

% Recovery

Project Number: NOT GIVEN
Project Name: TOMBSTONE
Project Location: NOT GIVEN

Analysis Date: 04/09/09 Sampling Date: 04/07/09 Sample Type: SOIL

Sample Condition: INTACT Sample Received By: ML

500

500

100

< 0.1

Analyzed By: TR

		Cl
LAB NUMBER	SAMPLE ID	(mg/kg)
H17214-1	5-SPOT 9' BG 2	2,040
H17214-2	NW 9' BG2	1,280
H17214-3	NE 9 ' BG2	192
H17214-4	SW 9' BG2	496
H17214-5	SE 9' BG2	384
H17214-6	MID 9' BG2	7,800

Cleaned Out Pit Bottom

METHOD:	Standard Methods	4500-CIB

Note: Analyses performed on 1:4 w:v aqueous extracts.

Chemist

Date



ANALYTICAL RESULTS FOR YATES PETROLEUM CORPORATION ATTN: SCOTT PITTS

105 SOUTH 4TH STREET ARTESIA, NM 88210 FAX TO: (575) 748-4229

Receiving Date: 04/09/09 Reporting Date: 04/13/09 Project Owner: NOT GIVEN Project Name: TOMBSTONE

Project Location: NOT GIVEN

Sampling Date: 04/07/09 Sample Type: SOIL Sample Condition: INTACT

Sample Condition: INTACT Sample Received By: ML

Analyzed By: ZL

ETHYL TOTAL DLUENE BENZENE XYLENES

LAB NUMBER SAMPLE ID

BENZENE TOLUENE BENZENE XYLENES (mg/kg) (mg/kg) (mg/kg) (mg/kg)

ANALYSIS DATE		04/13/09	04/13/09	04/13/09	04/13/09
H17214-1	5-SPOT 9' BG2	<0.050	<0.050	<0.050	<0.300
Quality Control		0.059	0.054	0.051	0.163
True Value QC		0.050	0.050	0.050	0.150
% Recovery		118	108	102	109
Relative Percent	Difference	3.7	4.0	7.8	10.5

METHOD: EPA SW-846 8021B

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES.

Chemist

Date



ANALYTICAL RESULTS FOR YATES PETROLEUM CORPORATION ATTN: SCOTT PITTS 105 SOUTH 4TH STREET ARTESIA, NM 88210

FAX TO: (575) 748-4229

Receiving Date: 04/09/09 Reporting Date: 04/13/09 Project Owner: NOT GIVEN Project Name: TOMBSTONE Project Location: NOT GIVEN Sampling Date: 04/07/09
Sample Type: SOIL
Sample Condition: INTACT
Sample Received By: ML

Analyzed By: AB

ANALYSIS DATE	04/10/09	04/10/09	04/09/09
H17214-1 5-SPOT 9' BGL	<10.0	<10.0	<100
Quality Control	554	551	324
True Value QC	500	500	300
% Recovery	111	110	108
Relative Percent Difference	1.7	<0.1	1.2

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; EPA 418.1

Chemist

Date

H17214 TPH2 YATES

AST.						
	ARDIN	IAL	LABO	DRAT	OR	IES
The state of the s	101	Fact	Mariand	Hobbe	MA	88240

	(575) 393-2326 Fa			E-MAIL	SCOH,	P @ Y	ates f	Detro	le v.	Mo	Con	1		Page	of			
Company Name:	Yntes Petrole	eum Corp)			L TO					-	ANAL'	YSIS R	EQUE	ST			
Project Manager:	Scott Pitts				P.O. #: 10	3-259	12			ĺ	_							
Address: 105	S. 4Th				Company: Ya	tes Per	rokum		1									
City: Artes,	a	State NM	Zip:	88210	Attn: <i>Scott</i>	Pitts			Ì									
Phone #1575	3 15-4718	Fax #: 575	-74	8-4229	Address:				-	1								}
Project #:		Project Owner	<u> </u>		City:			ď								1		}
Project Name:	Tombstone				State:	Zip:		S	B	Ì	3	,					Ì	Ì
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		1 60'00	(G)RAB OR (C)OMP # CONTAINERS	SOIL	1	DATE	TIME		,									
H17214-1	<u>5-</u> 3	Spot 9 BGL	<u> C</u> _	J		4-7-09	3:00	V	~	V	V							
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-5	SE	9.86L		V	1	11	1:40	1										
- 6	m_{i}	9'BGL		2		11.	1145	V										
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	(COPB = Cleaner	10.10.1 R-+		}				-						-				
	Damages Cardinal's leadily and clie	nt's exclusive remedy for a							L	1			: Interest will be					
	g those for negligence and any other or rdine, be liable for incidental or consec 3 Out of or related to the ogriformence	quental damages including	mil tuodies	takon, business interruptions.	, loss of use, or loss of pr	rolits incurred by	client, its subsidia	ities,	ole				rate of 24% per ons, including at			al date of inv	voice.	
Sampler Relingu	ished fulfs	Date: 4-8-0					Phone Re	esult:	0		No No	Add'l Ph Add'l Fa						
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Relinquished By	:	Date: 1/a/a	Rece	ived By:	1	/	-											
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Delivered By:	(Circle One)	0.05	Temp.	Sample Condi	ition, CHECK	KED BY:	-											
Sampler - UPS	- Bus - Other:			Cool Intact	es (ini	tials)	1											
	cannot accept verbal				10 100	20									······································			

^{. †} Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.



ANALYTICAL RESULTS FOR YATES PETROLEUM CORPORATION ATTN: SCOTT PITTS 105 SOUTH 4TH STREET

ARTESIA, NM 88210 FAX TO: (575) 748-4229

Receiving Date: 04/09/09

Reporting Date: 04/09/09

Sampling Date: 04/07/09

Project Number: NOT GIVEN Sample Type: SOIL

Project Name: TOMBSTONE Sample Condition: INTACT Project Location: NOT GIVEN Sample Received By: 'ML

Analyzed By: TR

CI

Delineation Samples

		U i
LAB NUMBER	SAMPLE ID	(mg/kg)
H17215-1	NW 13' BG2	144
H17215-2	NW 11' BG2	928
H17215-3	NE 13' BG2	16
H17215-4	NE 11' BG2	32
H17215-5	SW 13' BG2	752
H17215-6	SW 11' BG2	2,080
H17215-7	SE 13' BG2 .	4,400
H17215-8	SE 11' BG2	4,480
H17215-9	MIDDLE 16' BG2	352
H17215-10	MIDDLE 13' BG2	1,740
H17215-11	MIDDLE 11' BG2	10,600
Quality Control		500
True Value QC		500
% Recovery		100
Relative Percent Dif	< 0.1	

METHOD: Standard Methods 4500-Cl'B

Note: Analyses performed on 1:4 w:v aqueous extracts.

Date

H17215 YATES

7	
ARD)

ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 E-Mail Scottp@ yates petroleum. Com (575) 393-2326 Fax (575) 393-2476 Company Name: Yntes Petrolpin Corp ANALYSIS REQUEST Scott Pitts P.O. #: 103-2542 Project Manager: Address: 105 Company: Vates Potrokum State NM Zip: 882/0 Fax #: 575-748-4229 Address: Project #: Project Owner: City: Project Name: /ombstone State: Zip: 3 Project Location: Phone #: Sampler Name: Fax #: MATRIX PRESERV SAMPLING FOR LAS USE ONLY G)RAB OR (C)OMP # CONTAINERS ACID/BASE: Sample I.D. ICE / COOL OTHER: Lab I.D. DATE TIME 1+17215-1 NW 13' BG-L 4-7-09 1130 BGL Terms and Conditions: Interest will be charged on all accounts more than analyses will claims including those for negligence and any other cause whatsoever shall be deemed warved unless made in writing and received by Cardinal within 30 days after completion of the applicable 30 days past due at the rate of 24% per annum from the prioring date of invoice Service In no event shall Cardina, be liable for increantal or consequental damages including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, and all costs of collections, including attorney's fees are a subjectife at any out of or revaled to the certainmance of services hereunder by Cardinal regardless of whether such claim is based upon any of the above stated reasons or otherwise Sampler Relinquished TAdd'l Phone #: Phone Result: Fax Result: Add'l Fax #: REMARKS: Relinguished By: Received By Delivered By: (Circle One) CHECKED BY: Cool Intact (Initials) Sampler - UPS - Bus - Other: Yes Yes

[†] Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.

Scott Pitts

From: Bratcher, Mike, EMNRD [mike.bratcher@state.nm.us]

Sent: Friday, May 01, 2009 12:00 PM

To: Scott Pitts

Subject: RE: Tombstone: BMB:St: #1

This pit site is approved for closure. Please be advised that OCD approval does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, this approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

Sincerely,

Mike Bratcher NMOCD District 2

From: Scott Pitts [mailto:ScottP@yatespetroleum.com]

Sent: Friday, May 01, 2009 9:55 AM

To: Bratcher, Mike, EMNRD **Subject:** Tombstone BMB St. #1

5-1-09

Mr. Bratcher,

As per our conversation this morning, this pit has some areas of elevated chlorides. After studying the geologic map's and water quality survey's we believe these levels are naturally occurring. All the information studied will be part of my final closure report as supporting documents. With this said I would like to request permission to backfill and complete this closure.

Tombstone BMB St. #1

Thank you Scott Pitts Construction Supervisor Yates Petroleum Corp.

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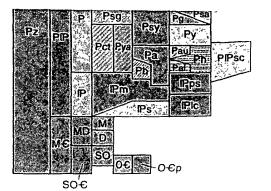
New Mexico Office of the State Engineer POD Reports and Downloads

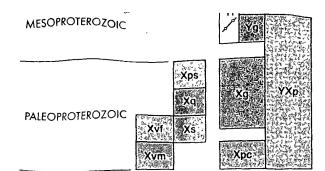
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AVERAGE DEPTH OF WATER REPORT 04/29/2009

							(Depth	Water in	Feet)
Bsn	Tws	Rng Sec	Zone	X	Y	Wells	Min	Max	Avg
C	25S	29E 06				1	40	40	40
С	25S	29E 15				1	60	60	60
С	25S	29E 30				1	30	30	30
RA	25S	29E 10				1	40	40	40

Record Count: 4





PALEOZOIC

Paleozoic rocks, undivided

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Permian rocks, undivided



Quartermaster Formation (Upper Permian)—Red sandstone and siltstone



Quartermaster and Rustler Formations (Upper Permian)



Rustler Formation (Upper Permian)—Siltstone, gypsum, sandstone, and dolomite



Salado Formation (Upper Permian) - Evaporite sequence, dominantly



Castile Formation (Upper Permian) - Dominantly anhydrite sequence



Artesia Group (Guadalupian)—Shelf facies forming broad south-southeast trending outcrop from Glorieta to Artesia area; includes Tansill, Yates, Seven Rivers, Queen and Grayburg Formations (Guadalupian). May locally include Moenkopi Formation (Triassic) at top



Tansill and Yates Formations (Guadalupian) - Sandstone, siltstone, limestone, dolomite, and anhydrite



Seven Rivers Formation (Guadalupian) - Gypsum, anhydrite, salt, dolomite, and siltstone



Queen and Grayburg Formations (Guadalupian)—Sandstone, gypsum, anhydrite, dolomite, and red mudstone



Capitan Formation (Guadalupian)-Limestone (reef facies)



Bell Canyon Formation (Guadalupian) - Basin facies - sandstone, limestone, and shale



Cherry Canyon Formation (Guadalupian) - Basin facies - sandstone, limestone, and shale

PROTEROZOIC



Neoproterozoic mafic dikes - Exposed in Taos Range



Mesoproterozoic mafic dikes, diabase, metadiabase, metadiorite-Mainly in Burro Mountains; age not well constrained



Mesoproterozoic sedimentary rocks—Exposed in Sacramento Mountains. present in subsurface in southeastern New Mexico as De Baca Group



Mesoproterozoic granitic plutonic rocks—Mainly 1.45-1 35 Ga megacrystic granites, generally weakly foliated except locally at their margins



Mesoproterozoic and Paleoproterozoic plutonic rocks, undivided



Paleoproterozoic granitic plutonic rocks-Variably foliated granites and grantic gneisses; 1.71-1.65 Ga in northern New Mexico; 1.66-1.65 Ga in central and southern New Mexico



Paleoproterozoic pelitic schist-Includes Rinconada Formation in northern New Mexico and Blue Springs Schist in Manzano Mountains



Paleoproterozoic quartzite-Includes ~1.70 Ga Ortega Quartzite and equivalents in northern New Mexico and ~1.67 Ga quartzites in central New Mexico



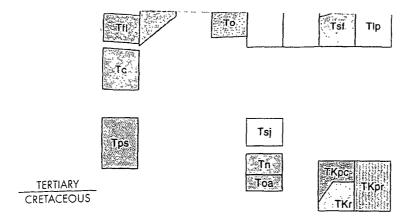
Paleoproterozoic metasedimentary rocks-Pelitic schist, quartz-muscovite schist, immature quartzite, and subordinate amphibolite; includes parts of Vadito Group in northern New Mexico, immature metasedimentary rocks of central New Mexico, and Bullard Peak Series mixed supracrustal rocks in Burro Mountains

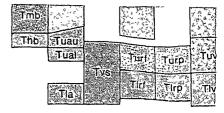


Paleoproterozoic rhyolite and felsic volcanic schist-Includes 170 Ga Vadito Group in northern New Mexico and ~1.68 Ga Sevilleta Metarhyolite in central New Mexico



Paleoproterozoic calc-alkaline plutonic rocks-Granodiorite, diorite, and gabbro complexes, 1.78-1.71 Ga; interpreted to be intrusive part of juvenile volcanic arc basement







DESCRIPTION OF MAP UNITS

QUATERNARY

Alluvium (Holocene to upper Pleistocene) Qa

Landslide deposits and colluvium (Holocene to Pleistocene) – Landslide QI. deposits on western flanks of Socorro Mountains not shown for clarity

Lacustrine and playa deposits (Holocene)-Includes associated alluvial .Qpl and eolian deposits of major lake basins

Piedmont alluvial deposits (Holocene to lower Pleistocene) – Includes deposits of higher gradient tributaries bordering major stream valleys, alluvial veneers of the piedmont slope, and alluvial fans. May locally include uppermost Pliocene deposits

Qe Eolian deposits (Holocene to middle Pleistocene)

Qeg Gypsiferous eolian deposits (Holocene to middle Pleistocene)

Eolian and piedmont deposits (Holocene to middle Pleistocene) -Qep Interlayed eolian sands and piedmont-slope deposits along the eastern. flank of the Pecos River valley, primarily between Roswell and Carlsbad. Typically capped by thin eolian deposits

Qd Glacial deposits; till and outwash (upper to middle Pleistocene)

Older alluvial deposits of upland plains and piedmont areas, and calcic soils and eolian cover sediments of High Plains region (middle to lower Pleistocene) - Includes scattered lacustrine, playa, and alluvial deposits of the Tahoka, Double Tanks, Tule, Blackwater Draw, and Gatuña Formations, the latter of which may be Pliocene at base; outcrops, however, are basically of Quaternary deposits

Basaltic to andesitic lava flows (Holocene to middle Pleistocene) - Flows `Qb_ south of Grants and west of Carrizozo are Holocene Includes minor vent deposits

Basaltic tephra and lavas near vents (upper to middle Pleistocene) - Tuff QV. rings, maars, cinder cones, and minor proximal lavas. Includes maars at Kilbourne Hole and Zuni Salt Lake

Basaltic to andesitic lava flows (middle to lower Pleistocene) - Includes Qbo' vent deposits

Ring-fracture rhyolite lava domes of the Valles caldera (uppermost to lower Pleistocene) - Upper members of the Valles Rhyolite in Jemez Mountains, Includes 60-ka Banco Bonito and El Cajete Members on south margin of caldera

Older rhyolite lavas and early volcaniclastic sedimentary fill deposits of the Valles caldera (lower Pleistocene) - Units are associated with resurgent doming or predate doming of the caldera core. Includes minor middle Pleistocene tuffs of the upper Valles Rhyolite on north side of caldera

Bandelier Tuff (lower Pleistocene)—Includes large blocks of older andesite

Upper middle Tertiary basaltic Group (lower Miocene and up Bearwallow Mountain Ande Mountain, also near vent ba Chuska Mountains

Lower-upper middle Tertiary Mogollon Group (upper Olige Basaltic Andesite, Uvas Basaltic and Twin Peaks, Squirrel Spring Springs Basalt, flows of Gila Fl Formation, and the Alum Mountai caldera are dominantly silicic

> Middle Tertiary volcaniclast Eocene)- Mostly syneruptive units dominantly derived from composition. Locally includes and intertongued with Mogc Top Formation, South Crosby units near Quemado. Older Group tuffs, Tlrp) include Palm Creek Formations and lower

Windmill, Chavez Canyon, a

lavas are a minor component

Upper middle Tertiary rhyoli 24-29 Maj-Includes Taylor C Canyon, rhyolite of Hardy Ridge and Sawmill Canyon formation

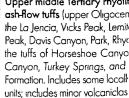
Lower middle Tertiary rhyolit upper Eocene, 36-31 Ma)-Cedar Hills, and other units in the

> Upper middle Tertiary rhyolit ash-flow tuffs (upper Oligocen the La Jencia, Vicks Peak, Lemiti Peak, Davis Canyon, Park, Rhyc the tuffs of Horseshoe Canyo Canyon, Turkey Springs, and Formation, Includes some locally

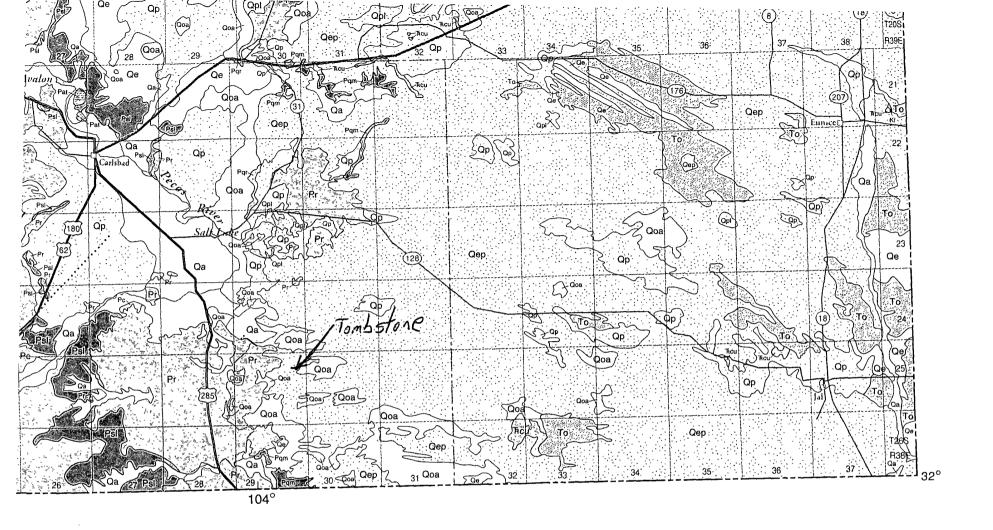
Lower middle Tertiary rhyol Group, ash-flow tuffs (lower Regional ash-flow tuffs include Datil Well, Lebya Well, Rock F Creek, Bluff Creek, Gillespie, I the tuffs of Steins Mountain, Bl Ranch, Juffs of the Organ caul Includes some locally erupted includes minor volcaniclastic se sheets











v Mexico

Geólogic Map Of New Mexico

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SCALE

CORROSION

Water Samples for Township 25 South Range 29 East

Instructions:

The number represents the number of water samples of certain well. Click the number if you want to download the data.

3 records are available.

# of samples	S	T	R	Formation	Date	Chlorides (mg/L)	Location (qtr/qtr)
<u>1</u> sample	32	25S	29E	RSLR	4/4/1985	3900	25S.29E.32.21111
<u>1</u> sample	32	25S	29E	RSLR	8/4/1987	4026	25S.29E.32.21111
<u>1</u> sample	32	25S	29E	RSLR	5/5/1992	5080	25S.29E.32.21111

SELECT/DESELECT ALL

Submit





RESERVE PIT INSPECTION LOG Tombstone BMB State#1 S12-T25S-R29E Eddy Co., NM

DATE:	VISUAL INSPECTION BY:	HOLE SIZE:	DEPTH	OULSIDE IN PIT LEVEL READING	FLUID ADDITIONS	MINII 2' FREE YES		COMMENTS
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