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

State of New Mexico
Energy Minerals and Natural Resources
Department
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-144 Revised April 3, 2017

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office.

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

BGT 2	Pit, Below-Grade Tank, or							
	Proposed Alternative Method Permit or Closure Plan Application							
Type of action: Below grade tank registration Permit of a pit or proposed alternative method Closure of a pit, below-grade tank, or proposed alternative method Modification to an existing permit/or registration Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank, or proposed alternative method								
Instru	ctions: Please submit one appl	ication (Form C-144) per	individual pit, belov	v-grade tank or alterna	ttive request			
Please be advised that appropriate properties of the properties of	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.							
1.				-	_			
Address: P.O. Drawe	oil & Minerals Ltd er 1228, Farmington, NN	/I 87499-1228						
Facility or well name: N	larron #5A		10.88					
API Number: 30-045-	23128	OCD Pe	ermit Number:					
U/L or Qtr/Qtr P	23128 Section 27 36 54000	Township 27N	Range 8W	County: San Jua	an			
Center of Proposed Desig	gn: Latitude 36.54000	Longit	ude -107.66501		NAD83			
	ral 🗌 State 📗 Private 🔲 Triba							
☐ Lined ☐ Unlined ☐ String-Reinforced	□ Workover ency □ Cavitation □ P&A □ Liner type: Thickness □ Factory □ Other	obvious staine ☐ Multi-Well Fluid Manamil ☐ LLDPE ☐ H	d or impacted gement L DPE □ PVC □ O	I soils which even				
	Subsection I of 19.15.17.11 NMbbl Type of fluid:				e unknown			
Tank Construction mater	al:							
	ent with leak detection Visi			verflow shut-off				
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other								
Liner type: Thicknessmil								
4.)					
Alternative Method:	request is required. Execution		Conta Fa Farriana					
	request is required. Exception	s must be submitted to the	Santa Fe Environme	ental Bureau office for o	consideration of approval.			
5. Fencing: Subsection D o	f 19.15.17.11 NMAC (Applies to	o permanent pits, tempora	ry pits, and below-gi	rade 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, hospital, institution or church)								
Four foot height, four strands of barbed wire evenly spaced between one and four feet								
Alternate. Please specify								

6. 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)						
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 19.15.16.8 NMAC						
8. Variances 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: Variance(s): Requests must be submitted to the appropriate division district for consideration of approval. Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.						
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 acceptable source material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.						
General siting						
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank. - ☑ NM Office of the State Engineer - iWATERS database search; ☐ USGS; ☐ Data obtained from nearby wells	☐ Yes ☑ No ☐ NA					
Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells						
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. (Does not apply to below grade tanks) - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☑ No					
Within the area overlying a subsurface mine. (Does not apply to below grade tanks) - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☑ No					
 Within an unstable area. (Does not apply to below grade tanks) 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. (Does not apply to below grade tanks) - FEMA map	☐ Yes ☑ No					
Below Grade Tanks						
Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☑ No					
Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☑ No					
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)						
Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.) - Topographic map; Visual inspection (certification) of the proposed site						
Within 300 feet from a occupied 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 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No					

Within 100 feet of a wetland.						
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site						
Temporary Pit Non-low chloride drilling fluid						
Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any 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						
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, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site						
Within 300 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No					
Permanent Pit or Multi-Well Fluid Management Pit						
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 1000 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 spring or a fresh water well used for domestic or stock watering purposes, 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 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No					
10.						
Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 N Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the doc						
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 19.15.17.11 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 NI and 19.15.17.13 NMAC						
Previously Approved Design (attach copy of design) API Number: or Permit Number:						
11.						
Multi-Well Fluid Management Pit 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.						
 □ 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 □ A List of wells with approved application for permit to drill associated with the pit. 						
Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMA and 19.15.17.13 NMAC						
 ☐ Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC 						
Previously Approved Design (attach copy of design) API Number: or Permit Number:	0					

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 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 19.15.17.12 NMAC Freeboard and Overtopping Prevention 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	documents are				
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 ☐ Multi-well F	luid Management Pit				
☐ 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	70.00 AMARA AM				
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 C 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 H of 19.15.17.13 NMAC ☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC					
15. 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 material are provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. Please refer to 19.15.17.10 NMAC for guidance.					
Ground water is less than 25 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 25-50 feet below the bottom of the buried waste NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells					
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					
Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site					
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					
Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site					
Written confirmation or verification from the municipality; Written approval obtained from the municipality					
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site					
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							
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division							
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological							
Society; Topographic map							
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. Please indicate, 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 E of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K 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 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 19.15.17.13 NMAC Waste Material Sampling Plan - based upon the appropriate requirements 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 be achieved) 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 H of 19.15.17.13 NMAC							
Operator Application Certification: I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief. Name (Print): Date: 6/1/2020 e-mail address: Telephone: 505-325-7707							
18. OCD Approval: ☐ Permit Application (including closure plan) ☒ Closure Plan (only) ☒ OCD Conditions (see attachment)							
OCD Representative Signature:	020						
Title: Environmental Specialist OCD Permit Number: BGT 2							
19							
Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed. Closure Completion Date:							
20.							
Closure Method: Waste Excavation and Removal On-Site Closure Method Alternative Closure Method Waste Removal (Closed-local If different from approved plan, please explain.	op systems only)						
21. Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please inc	licate, by a check						
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 for private land only) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (required for on-site closure) Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation)	исате, бу а спеск						
	I						

22. Operator Closure Certification:					
I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.					
Name (Print):	Title:				
Signature:	Date:				
e-mail address:	Telephone:				

Excavation Closure Plan

Western Oil & Minerals Ltd Marron #5A

API: 30-045-23128 P-S27-N27N-R8W

GPS: 36.54000, -107.66501

Western Oil & Minerals Ltd (Western) will undertake the following procedures and protocols for the closure of the excavation at the Marron #5A. The historical use of the excavation is unclear and does not presently contain a tank.

Closure Notice:

- Western will notify the surface owner, the Bureau of Land Management (BLM), by email per the attached variance request, a minimum of 72 hours, but not more than one week, prior to closure operations. The notice will include the well name, API number, and location as described by the public land survey system and global positioning system. (19.15.17.13.E(1))
- Western will notify the District 3 OCD office verbally and in writing via email a minimum of 72 hours, but not more than one week, prior to closure operations. The notice will include the operator's name, well name, API number, and location as described by the public land survey system and global positioning system. (19.15.17.13.E(2)

Closure Sampling:

- Western will collect a five-point composite sample from the soils in the base of the excavation utilizing a shovel, hand-auger, or backhoe, as appropriate for site conditions. Due to the unknown historical use of the excavation, Western will collect the five-point composite sample from the 1-foot interval exhibiting the highest concentration of volatile organic compounds as determined by field screening utilizing a photo-ionization detector to a maximum depth of 8 feet or equipment refusal on bedrock. If field screening indicates only negligible volatile organic compound concentrations for the total explored depth, the five-point composite sample will be comprised of the interval of 6 inches to 1 foot below the existing grade of the base of the excavation. (19.15.17.13.C(3)
- The sample will be analyzed for the constituents listed in Table 1 of 19.15.17.13 per Tier "greater than 100 feet". (19.15.17.13.C(3)(a))
- If any constituent concentration is higher than the parameters listed in Table 1 of 19.15.17.13 per Tier "greater than 100 feet", Western will not proceed with any further closure activities until the Division has reviewed the results and provides additional delineation requirements or provides approval to proceed with closure. (19.15.17.13.C(3)(b))
- If all constituent concentrations are less than or equal to the parameters listed in Table 1 of 19.15.17.13 per Tier "greater than 100 feet", the excavation will be backfilled with non-waste containing, uncontaminated, earthen material. (19.15.17.13.C(3)(c))

Marron #5A Closure Plan Page 1 of 3

Clasura Cuitar		Table I	ated with			
Closure Criteria for Soils Beneath Below-Grade Tanks, Drying Pads Associated with Closed-Loop Systems and Pits where Contents are Removed						
Depth below bottom of pit to groundwater less than 10,000 mg/l TDS	Constituent	Method*	Limit**			
	Chloride	EPA 300.0	600 mg/kg			
≤50 feet	TPH	EPA SW-846 Method 418.1	100 mg/kg			
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg			
	Benzene	EPA SW-846 Method 8021B or 8015M	10 mg/kg			
	Chloride	EPA 300.0	10,000 mg/kg			
51 feet-100 feet	TPH	EPA SW-846 Method 418.1	2,500 mg/kg			
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg			
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg			
	Benzene	EPA SW-846 Method 8021B or 8015M	10 mg/kg			
	Chloride	EPA 300.0	20,000 mg/kg			
> 100 feet	TPH	EPA SW-846 Method 418.1	2,500 mg/kg			
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg			
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg			
	Benzene	EPA SW-846 Method 8021B or 8015M	10 mg/kg			

^{*}Or other test methods approved by the division

Closure Reporting:

Within 60 days of closure completion, Western will submit a closure report on Form C-144, with
necessary attachments to document all closure activities including sampling results, information
required by 19.15.17 NMAC, and details on backfilling, capping, and covering, as applicable. In
the closure report, Western will certify that all information is correct, and that Western has
complied with all applicable closure requirements and conditions specified in the approved
closure plan. (19.15.17.13.F(1))

Reclamation and Re-vegetation:

Subsequent to closure, Western will reclaim the excavation location to a safe and stable
condition that blends with the surrounding undisturbed area. Western will restore the
impacted area to the condition that existed prior to oil and gas operations by placement of the
soil cover as provided in Paragraph (2) of Subsection H of 19.15.17.13 NMAC, recontour the
location and associated areas to a contour that approximates the original contour and blends

^{**}Numerical limits or natural background level, whichever is greater

- with the surrounding topography and re-vegetate according to Paragraph (5) in Subsection H of 19.15.17.13 NMAC. (19.15.17.13.H(1)(a))
- Western may propose an alternative to the re-vegetation or recontouring requirement if
 Western demonstrates to NMOCD District 3 office that the proposed alternative provides equal
 or better prevention of erosion, and protection of fresh water, public health, and the
 environment. The proposed alternative shall be agreed upon by the surface owner, BLM.
 Western will submit the proposed alternative, with written documentation that surface owner,
 BLM, agrees to the alternative, to the Division for approval. (19.15.17.13.H(1)(b))
- Areas reasonably needed for production operations will be compacted, covered, paved, or otherwise stabilized and maintained in such a way as to minimize dust and erosion to the extent practicable. (19.15.17.13.H(1)(c))
- Soil cover after site contouring, where soils at the base of the excavation are remediated to a chloride concentration of less than 600 mg/kg by EPA Method 300.0 if necessary, will consist of the background thickness of topsoil or one foot of suitable material, whichever is greater. (19.15.17.13.H(2))
- Western will construct the soil cover to the site's existing grade and prevent ponding of water and erosion of the cover material. (19.15.17.13.H(4))
- The area disturbed by the excavation closure, except where reasonably needed for production operations, will be reclaimed as early and as nearly as practicable to the original condition or the final land use and will be maintained to control dust and minimize erosion to the extent practicable. (19.15.17.13.H(5)(a)
- Topsoils and subsoils will be replaced to their original relative positions and contoured so as to achieve erosion control, long-term stability and preservation of surface water flow patterns. The disturbed area then will be reseeded in the first available growing season following closure. (19.15.17.13.H(5)(b))
- Reclamation of all disturbed area no longer in use will be considered complete when all ground surface disturbing activities at the site have been completed, and a uniform vegetative cover has been established that reflects a life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds. (19.15.17.13.H(5)(c))
- The re-vegetation and reclamation obligations imposed by the Bureau of Land Management will supersede these provisions and govern the obligations of Western provided that the other requirements provide equal or better protection of fresh water, human health and the environment. (19.15.17.13.H(5)(d))
- Western will notify the division when reclamation and re-vegetation are complete. (19.15.17.13.H(5)(e))

Marron #5A Closure Plan Page 3 of 3

Variance Request

Western Oil & Minerals Ltd Marron #5A API: 30-045-23128

P-S27-N27N-R8W

GPS: 36.54000, -107.66501

Western Oil & Minerals Ltd (Western) requests the following variance(s), per 19.15.17.15.A:

Western will notify the public entity surface owner, the Bureau of Land Management, by email in lieu of certified mail.

Hydrogeologic Information

Western Oil & Minerals Ltd Marron #5A API: 30-045-23128

P-S27-N27N-R8W

GPS: 36.54000, -107.66501

Depth to groundwater is anticipated to be greater than 100 feet below ground surface. The site is located on top of Blanco Mesa which is a sandstone mesa at an elevation of approximately 6,728 feet above mean sea level (amsl). The elevation the wash bed of Cañon Largo 6,150 feet northeast of the site is approximately 5,950 feet amsl, (about 778 feet lower than the site) and the elevation of the wash bed of Cottonwood Canyon 1,700 feet south of the site is approximately 6,270 feet amsl (about 458 feet lower than the site). The nearest wells registered with the New Mexico Office of the State Engineer are SJ 04124 POD1-3. Depth to water in these wells are reported at 21 feet and the surface elevation at the well locations is estimated to be 5,957 feet amsl.

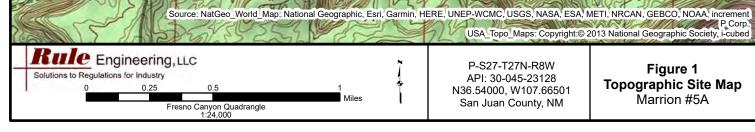
There are no springs indicated on the topographic map and no increased vegetation cover on the aerial photo to suggest the presence of a spring within 0.5 mile of the site.

The nearest significant watercourse is a stockpond and tributary to Cañon Largo located approximately 2,400 feet north-northeast of the site.

There are no water wells registered within 0.5 mile of the location.

The site is not within 300 feet of a wetland and is not within a 100-year floodplain.

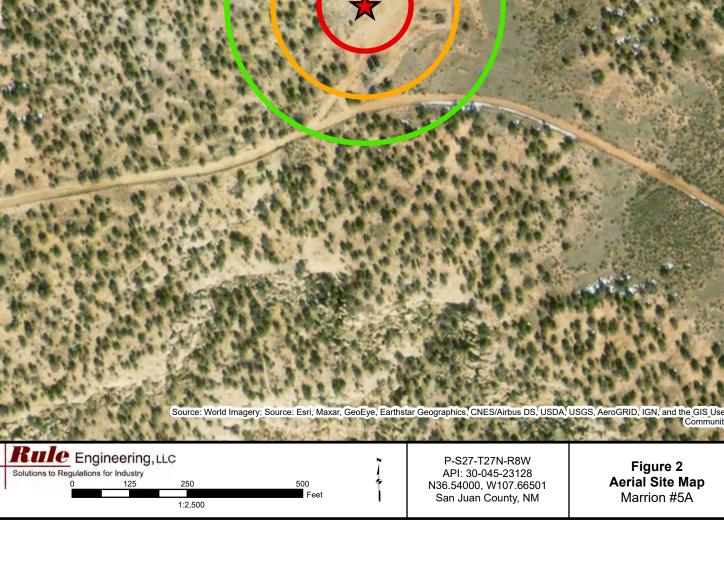
The site is underlain by the Tertiary San Jose Formation which does not exhibit karst features.



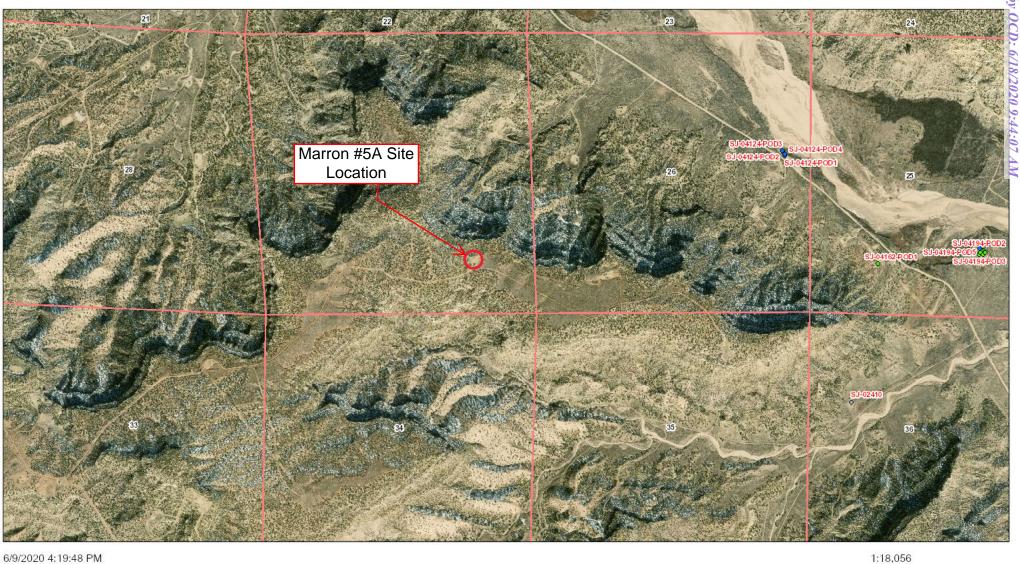
P-S27-T27N-R8W API: 30-045-23128 N36.54000, W107.66501 San Juan County, NM

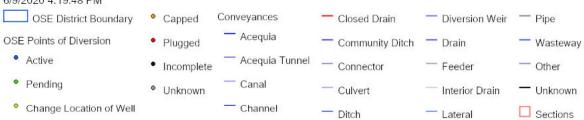
Figure 1 Topographic Site Map Marrion #5A

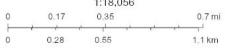
P Corp., USA_Topo_Maps: Copyright:© 2013 National Geographic Society, i-cubed



OSE POD Aerial Map







Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community, OSE GIS, Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community, NM OSE Information Technology

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New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.) (R=POD has been replaced, O=orphaned,

C=the file is closed)

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

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

	POD Sub-	c	2 2 2				Depth	Depth	Water
POD Number	Code basin	County 6	416 4 Sec	Tws Rng	Х	Υ	-	-	Column
SJ 04124 POD1	SJ	SJ	26	27N 08W	263248	4047683 🌑	32	21	11
SJ 04124 POD2	SJ	SJ	26	27N 08W	263240	4047703 🌍	32	21	11
SJ 04124 POD3	SJ	SJ	26	27N 08W	263234	4047715 🌍	32	21	11

Average Depth to Water: 21 feet

Minimum Depth: 21 feet

Maximum Depth: 21 feet

Record Count: 3

PLSS Search:

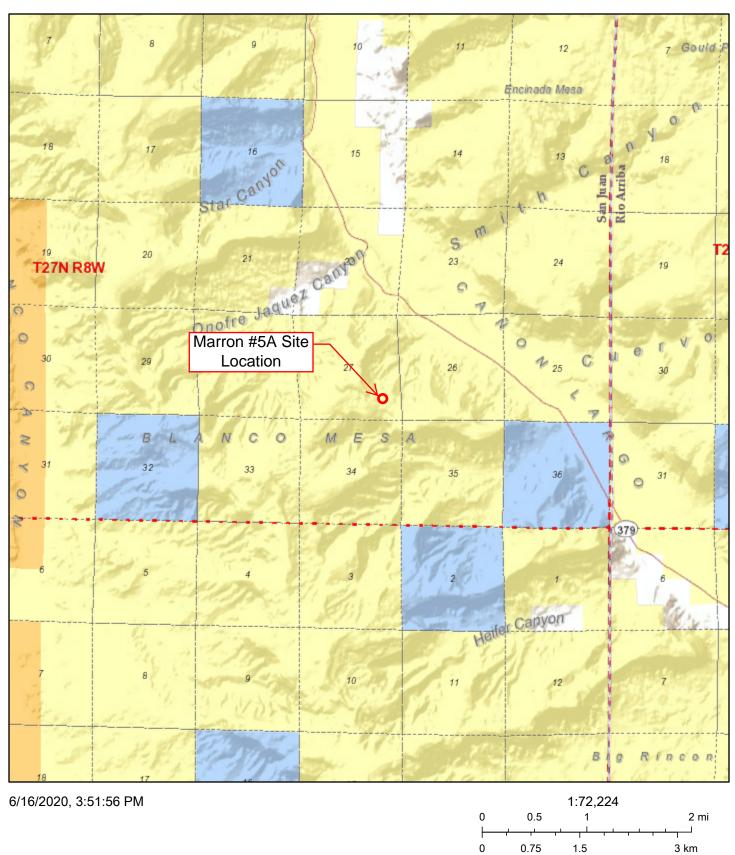
Section(s): 21, 22, 23, 26,

Township: 27N

Range: 08W

27, 28, 33, 34, 35

Active Mines in New Mexico



U.S. Bureau of Land Management - New Mexico State Office, Sources: Esri, USGS, NOAA, Sources: Esri, Garmin, USGS, NPS