R. T. HICKS CONSULTANTS, LTD.

901 Rio Grande Blvd NW ▲ Suite F-142 ▲ Albuquerque, NM 87104 ▲ 505.266.5004 ▲ Fax: 505.266-0745

March 4, 2013

Mr. Mike Bratcher NMOCD District 2 811 South First Street Artesia, New Mexico 88210 Via E-mail and US Mail

RE: Murchison Oil and Gas: War Horse #1H and 3H

RECEIVE MAR 05 20.3 NMOCD ART

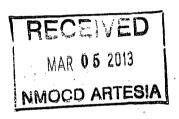
Dear Mike:

Attached are the corrected C-144 forms. We hope they are perfect.

Sincerely, R.T. Hicks Consultants

Randall Hicks

Copy: Murchison Oil and Gas, Inc.



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

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
Type of action: 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 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.
1.
Operator: Murchison Oil & Gas. Inc. OGRID #: 15363 Address: 1100 Mira Vista Blvd. Plano. Texas 75093-4698
Address:Wor Harra Edged Corp. No. 211
A DI Number
API Number: OCD Permit Number:
$\frac{1}{1000} = \frac{1}{1000} = 1$
Center of Proposed D M : Latitude <u>32.43 51.288</u> Longitude <u>104.04 19.198</u> NAD: []1927 [X] 1985
Pit: Subsection For Got
Temporary Drilling Workever S/
M Lined Unlined Liner type: Thickness 20
String-Reinforced
Liner Seams: X Welded [] Factory [] Other Virk Plate 1.2 bbl. Dimensions: L. x W. x D.
Closed-loop System: Subsection H of 19.15.17.11 NMAC
Address: 1100 Mira Vista Blvd. Plano. Texas 75093-4698 Facility or well name: War Horse Federal Com. No. 3H API Number: OCD Permit Number: U/L or Qtr/Qtr 1 Section 21 Township T18S Range R29E County: Eddw Center of Proposed D 'm: Latitude 32° 43' 51.288" Longitude 104° 04' 19 198" NAD: [] 1927 [] 1983 Surface Owner: Private [] Tribal Trust or Indian Allotment Image: Pit: Subsection F or G or MAR 0 5 2013 Permanent [] Emergency [] Cavitation [] Pite [] PVC [] Other MAR 0 5 2013 NMOCD ARTES!/A MAR 0 5 2013 NMOCD ARTES!/A String-Reinforced With of Plate 1.2 bbl Dimensions: L
Drying Pad D Above Ground Steel Tanks D Haul-off Bins D Other
Lined Unlined Liner type: Thickness mil ULDPE 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
5. Alternative Method:
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

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, hospital, institution or church)

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

10

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

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 office 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 accel material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appro office 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.	opriate district
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 SEE FIGURE 2a	🔲 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 SEE FIGURE 3a & 3b 	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. SEE FIGURE 3a 	☐ Yes ⊠ No ☐ NA
 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
 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. SEE FIGURE 2b 	Ves 🛛 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. SEE FIGURE 4 - 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 SEE FIGURE 5 	🗌 Yes 🛛 No
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division. SEE FIGURE 6	🗌 Yes 🖾 No
 Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map. SEE FIGURE 7 	🗌 Yes 🛛 No
Within a 100-year floodplain. - FEMA map. SEE FIGURE 8	Yes 🛛 No

Instructions: Each of the following items must be attaattached. □ Hydrogeologic Report (Below-grade Tanks) - bas ○ Hydrogeologic Data (Temporary and Emergency) ○ Siting Criteria Compliance Demonstrations - base ○ Design Plan - based upon the appropriate requirer ○ Operating and Maintenance Plan - based upon the	appropriate requirements of 19.15.17.12 NMAC 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC
 attached. Geologic and Hydrogeologic Data (only for on-si Siting Criteria Compliance Demonstrations (only Design Plan - based upon the appropriate require Operating and Maintenance Plan - based upon the 	ached to the application. Please indicate, by a check mark in the box, that the documents are ite closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9 of or on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC ments of 19.15.17.11 NMAC e appropriate requirements of 19.15.17.12 NMAC 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC 19 API Number:
attached. Hydrogeólogic Report - başed upon the requirem Siting Criteria Compliance Demonstrations - base Climatological Factors Assessment Certified Engineering Design Plans - based upon Dike Protection and Structural Integrity Design - Leak Detection Design - based upon the appropri Liner Specifications and Compatibility Assessme Quality Control/Quality Assurance Construction Operating and Maintenance Plan - based upon th Freeboard and Overtopping Prevention Plan - base Nuisance or Hazardous Odors, including H ₂ S, Pr Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate required	iched to the application. Please indicate, by a check mark in the box, that the documents are ents of Paragraph (1) of Subsection B of 19.15.17.9 NMAC ed upon the appropriate requirements of 19.15.17.10 NMAC the appropriate requirements of 19.15.17.11 NMAC based upon the appropriate requirements of 19.15.17.11 NMAC ent - based upon the appropriate requirements of 19.15.17.11 NMAC ent - based upon the appropriate requirements of 19.15.17.11 NMAC ent - based upon the appropriate requirements of 19.15.17.11 NMAC ent - based upon the appropriate requirements of 19.15.17.11 NMAC ent - based upon the appropriate requirements of 19.15.17.11 NMAC ent - based upon the appropriate requirements of 19.15.17.11 NMAC
Proposed Closure: 19.15.17.13 NMAC	
Type: Drilling Workover Emergency C Alternative Proposed Closure Method: Waste Excavation and D Waste Removal (Close On-site Closure Method In-place Bu	
 closure plan. Please indicate, by a check mark in the Protocols and Procedures - based upon the appro Confirmation Sampling Plan (if applicable) - bas Disposal Facility Name and Permit Number (for Soil Backfill and Cover Design Specifications - based upon the appropriate 	priate requirements of 19.15.17.13 NMAC ed upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC
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^{16.} Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.	I3.D NMAC)			
Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment facilities are required.	if more than two			
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 <i>will not</i> be used for future Yes (If yes, please provide the information below) No	service 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 NM Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC	ИАС			
^{17.} 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 s provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. J demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.	district 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	$\square Yes \boxtimes No$ $\square NA$			
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				
 Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or play lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site 	ra 🗌 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	n. 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 	TYes 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			
18. 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 F of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.13 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 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 c 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 I of 19.15.17.13 NMAC
 Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

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19. Operator Application Certification: I hereby certify that the information submitted with this applic	ation is true, accurate and complete to the best	st of my knowledge and belief.	· ***.
	Title: Production Superintendent		
Signature: Ay A	Date:	October 19, 2012	
e-mail address: <u>Gboans@jdmii.com and r@rthicksconsult.</u>	<u>com</u> Telephone: <u>(575) 361-4962, (1</u>	Hicks: 505/266-5004)	. •
20. OCD Approval: Dermit Application (including closure pl	an) 🗖 Closure Plán (only) 🔲 OCD Con	ditions (see attachment)	•
OCD Representative Signature:	n his Apli	pprova pare	
Title:	OCD Permit Number:_		
21. Closure Report (required within 60 days of closure complet	ion): Subsection K of 19 15 17 13 NMAC		
Instructions: Operators are required to obtain an approved c The closure report is required to be submitted to the division y section of the form until an approved closure plan has been o	losure plan prior to implementing any closu within 60 days of the completion of the closu	ire activities. Please do not complete this	
	Closure Completio		
22. Closury Michael			
Closure Method: Waste Excavation and Removal On-Site Closure Me If different from approved plan, please explain.	thod 🔲 Alternative Closure Method 🗍	Waste Removal (Closed-loop systems only)	
23. Closure Report Regarding Waste Removal Closure For Clo	sed-loon Systems That Utilize Above Grou	and Steel Tanks or Haul-off Bins Only:	
<i>Instructions: Please indentify the facility or facilities for whe two facilities were utilized.</i>			
Disposal Facility Name:	Disposal Facility Permit		
Disposal Facility Name: Were the closed-loop system operations and associated activitie	Disposal Facility Permit		
Yes (If yes, please demonstrate compliance to the items	below) 🔲 No		
Required for impacted areas which will not be used for future s	ervice and operations:		
Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique			-
24. Closure Report Attachment Checklist: Instructions: Each	of the following items must be attached to th	ie closure report. Please indicate, by a check	
<i>mark in the box, that the documents are attached.</i>			
 Proof of Deed Notice (required for on-site closure) Plot Plan (for on-site closures and temporary pits) 	(. •
 Confirmation Sampling Analytical Results (if applicable Waste Material Sampling Analytical Results (required for 			
 Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation 			
 Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation) 			
On-site Closure Location: Latitude	Longitude	NAD: □1927 □ 1983	
25. Operator Closure Certification:			
I hereby certify that the information and attachments submitted belief. I also certify that the closure complies with all applicab	with this closure report is true, accurate and le closure requirements and conditions specif	complete to the best of my knowledge and fied in the approved closure plan	:
Name (Print):	Title:		
Signature:	Date:		
e-mail address:	Telephone:		
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