JUL 1 8 2006

Mr. Tommy W. Folsom Production Manager MURCHISON OIL AND GAS, INC. PO Box 627 Carlsbad, NM 88221-0627

21 June 2006

Mr. Mike Bratcher
OIL CONSERVATION DIVISION
1301 West Grand Avenue
Artesia, NM 88210

Re: Mustang Federal Com. No. 1 Pit Closure Documents

Dear Mr. Bratcher:

Pursuant to the State of New Mexico regulatory requirements for permanent closure of drilling pits, enclosed herewith is the completed Form C-144, digital photos of existing pit, sample location diagram and additional information constituting the "Closure Plan" for closure of the Murchison Oil and Gas, Inc., hereinafter "Murchison", Mustang Federal Com. No. 1 drilling pit (API-No:30-015-34475):located in U/L A S21 T18S, R29E of Eddy County, New Mexico.

INTRODUCTION

Remediation of the Murchison, hereinafter Mustang No. 1, drilling pit is targeted to begin 29 June 2006 with completion expected by 21 July 2006, permitting weather and the occurrence of unexpected conditions not within the Operator's control do not create delays or exacerbate the proposed schedule in any way. Murchison intends to maintain its commitment to environmental health and safety and fully comply with the Regulatory Performa of the State of New Mexico, OCD regarding this disposal action and permanent closure of the Mustang No. 1 drilling pit.

Potential, temporary contamination from the Mustang No. 1 drilling pit site, should any exist, resulted solely from oil and gas production activities. Potential contaminates of concern are typical mid to high-level concentrations of brines, typical polymers (such as xanthium gum and starch) and in general, drilling mud and fluids remaining upon completion of said drilling operations.

Area land use is primarily ranching with domestic pasturage and oil and gas production activities. The Murchison Mustang No. 1 drilling pit is located in a Section wherein groundwater depth to surface data has been established by a groundwater survey well drilled by White Drilling Company, Inc. showing the total depth of the well at 75 feet which was dry.

Consequently, *insitu* disposal is herewith the preferred choice for the Mustang No. 1 drilling pit closure. It is the belief of Murchison that compliant environmental performance and reduction of liability in this area pursuant to New Mexico; OCD regulations can be achieved with *insitu* disposal predicated on the evidentiary data heretofore presented. Further, should future Regulatory Performa mandate additional action or should the Operator choose to take additional action, the insitu option, in this case, (1) limits the environmental impact in general, (2) allows the operator/government immediate access to said liability, (3) contains said material within the Operator's lease boundary and (4) in the event evidence of water is

discovered during the digging of the *insitu* pit, all actions would cease and the State would be immediately notified.

Murchison intends to engage in *insitu* disposal upon approval from the New Mexico, OCD. This compliance action shall strictly apply the State of New Mexico, OCD standards, i.e. clean-up level for the Mustang No. 1 drilling pit shall meet the less than 100ppm of TPH, ND for BTEX and the less than 250ppm of chlorides unless approved otherwise and substantiated by background information documented to be higher than the above cited indices.

CLOSURE PLAN

Prior to commencement of closure activities, Murchison contractor will contact One-Call for line spot clearance confirming the State of New Mexico, OCD is in agreement with the proposed "Closure Plan" for removal of approximately 2,500 bbl. of liquid followed by the removal of all fines (drill cuttings) assuming these fines have sufficiently dried allowing for maneuverability of heavy equipment in the pit area, enabling *insitu* burial application to take place and final closure of the pit to occur.

Environmental health and safety regulations mandate control of pit volumes at all times. Thus, the liquid material was pumped off as needed and properly disposed of during active drilling operations. Water accumulated since this time is either due to liquid material not completely hauled from actual drilling operations or rain. This water has subsequently been hauled from the location and properly disposed of pursuant to OCD Regulatory Performa.

- Contractor shall mobilize to Mustang No. 1 drilling pit site located in Section 21, Township 18S and Range 29E of Eddy County, New Mexico.
- No remediation activity shall occur off the existing pad or already disturbed areas as authorized by the APD and approved Best Management Practices (BMP's). Murchison shall consider weather conditions and necessary equipment positioning to provide a clear area for adequate staging for site control and safety compliance, ensuring operations shall be compliant with New Mexico, OCD Regulatory Performa.
- The Mustang No. 1 drilling pit is currently lined with a 12ml HDPE liner, which shall be removed by heavy equipment and disposed of with the drilling fines inistu pursuant to New Mexico, OCD requirements. Insitu actions provide for the encasement of all drilling pit contents in a 12 ml HDPE liner capped with a 20 ml HDPE liner.
- Once the burial trench/pit has been dug to sufficient dimensions to ensure proper placement of the pit contents, the track hoe shall begin to deposit pit materials within the secured "container" until all pit material has been placed within it. This 12ml HDPE liner "container" shall not be permanently sealed until after the pit bottom has been sampled and approved for closure by the State of New Mexico, OCD.
- Prior to initiation of backfilling, the Operator shall take appropriate samples of the pit area to ensure compliance with OCD Standards for remediation of possible TPH, ND for BTEX and levels of less than 250ppm of chlorides. However if levels at the bottom of the drilling pit test too high, a background set of samples shall be obtained for testing from the immediate vicinity and compared to those of the pit bottom. Simultaneously, more soil shall be removed from the "hot spots". Once

- completed, new data acquisition shall occur and sample results determine whether or not compliance has been reached in order to begin backfilling. No backfilling shall begin without authorization by the State of New Mexico, OCD.
- ❖ Backfilling of the Mustang No. 1 drilling pit shall be commensurate with existing topography and terrain relief features (contouring) so as to return it to its "near-as" previous condition, including a contour for moisture accumulation which prevents abnormal or unsustainable water impoundment resulting in erosive actions.
- The "Closure Plan" shall include a final report providing lab analysis of the backfill material, digital project photos and evidentiary narrative to support the completed disposition of the reclaimed Mustang No. 1 drilling pit site.

Should you have questions, please call 505-628-3932 (office) or 505-706-0667 (cell).

Sincerely,

Tommy W. Folsom Production Manager

cc: State of New Mexico, OCD, Form C-144

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV

regulations.

Approval:

Printed Name/Title:

State of New Mexico **Energy Minerals and Natural Resources**

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

For drilling and production facilities, submit to

Form C-144

June 1, 2004

AUG 0 3 2006

Date:

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

1220 S. St. Francis Dr., Santa Fe, NM 87505	elow-Grade Tank Registration or Closure	
Is pit or below-gra	de tank covered by a "general plan"? Yes 🗌 No 🗌	
Type of action: Registration of a	pit or below-grade tank Closure of a pit or below-	grade tank X
Operator: Murchison Oil and Gas, inc. Telep	hone: 505-628-3932 e-mail address: tom	myfolsom@valornet.com RECEIVED
Address: PO Box 627, 406 N. Guadalupe, Suite B, Carlsbad, NM 8	8221-0627	TIEGETV ZZ
• •	#: 30-015-34475	E, 960' FNL, 990' FEL JUL 1 8 2006
	tude N Longitude W NAD: 1927	OCDEARTOR
Surface Owner: Federal X		
Pit	Below-grade tank N/A	
Type: Drilling X	Volume: N/A bbl Type of fluid: N/A	
Lined X	Construction material: N/A	ļ
Liner type: Synthetic X Thickness: 12ml HDPE Liner	Double-walled, with leak detection? If not,	explain why not.
Pit Volume: 2500 bbl. (Approximately)		
Depth to ground water (vertical distance from bottom of pit to seasona	Less than 50 feet	(20 points)
high water elevation of groundwater.) Total depth of groundwater	50 feet or more, but less than 100 feet	(10 points) 0 pts .
elevation survey well at 75.0 feet, no groundwater found.	100 feet or more	(0 points)
Wellhead protection area: (Less than 200 feet from a private domestic		(20 points)
water source, or less than 1000 feet from all other water sources.)	No	(0 points) 0 pts.
Distance to surface water: (horizontal distance to all wetlands, playas,	Less than 200 feet	(20 points)
irrigation canals, ditches, and perennial and ephemeral watercourses.)	200 feet or more, but less than 1000 feet	(10 points) 0 pts.
	1000 feet or more	(0 points)
	Ranking Score (Total Points)	0 pts.
If this is a pit closure: (1) Attach a diagram of the facility showing the remediation activity (final report). (2) Indicate disposal location: Intellow ground surface _ ft. and attach sample results. (5) Attach soil sample attached letter for details survey data. For purposes of continuity, all materials shall be survey data.	situ If offsite, name of facility: N/A (4) Groundwarmple results and a diagram of sample locations and exceed "Closure Plan" information, digital photos, same	ater encountered: No X Yes If yes, show depth cavations.
I hereby certify that the information above is true and complete to the been/will be constructed or closed according to NMOCD guidelines X Date: 21 June 2006	, a general permit , or an (attached) alternative OCI	
Printed Name/Title: Tommy W. Folsom, Production Manager	Signature 7 // Joh	

Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate groundwater or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or

File Number:

RECEIVED

NEW MEXICO OFFICE OF THE STATE ENGINEER WELL RECORD

JUL 1 8 2006 OCU-MITERIA

1. OWNER OF WELL	
Name: Murchison Oil and Gas, Inc.	Work Phone:
Contact: Tommy Folsom Address: P.O. Box 627	Home Phone:
406 N. Guadalupe, Suite B	-
City: Carlsbad	State: NM Zip: 88221-0627
City. Ourioud	
2. LOCATION OF WELL(A,B,C,or D required,E or F if known	
A1/41/4 Section: 21 Town	
in Eddy	County.
B. X =feet, Y =	feet, N.M. Coordinate System
Zone in the	Grant.
U.S.G.S. Quad Map	
C. Latitude: 32 d 44 m 16.0 s Longitud	e: <u>104</u> d <u>04</u> m <u>27.8</u> s
D. East (m), North (m), UTM	Zone 13, NAD (27 or 83)
E. Tract No, Map No of the	
F. Lot No, Block No of Unit/Tract _	
Subdivision recorded in	
H. Give State Engineer File Number if existing well: I. On land owned by (required): Murchison Oil and Gas 3. DRILLING CONTRACTOR License Number: WD-1456 Name: White Drilling Company, Inc. Agent: John W. White Mailing Address: P.O. Box 906 City: Clyde	work Phone: 325-893-2950 Home Phone: 325-893-2950
4. DRILLING RECORD Mustang Federal Com. #1	
Drilling began: 5/08/06 ; Completed: 5/09/06	
Size of hole: 61/8 in.; Total depth of well: 75.0	
Completed well is: shallow (shallow, artes	
Depth to water upon completion of well: Dry	10.
File Number:	Trn Number:
Form: wr-20 page 1 of 4	IIII NUMBEL.

•	PRINCIF Depth i		eet T	hickness	Descri	Mustang ption of bearing fo		Com. #	1	Es	timated (GPM	
•	RECORD Diamete		Pounds	Threads		in Feet	Length	Туре	of	Shoe	Perfo	rations
	(inches	s)	per ft. Sch. 40	per in. 4.0	тор 0.0	Bottom 60.0	(feet) 60.0				From	TO
	2.0		.020	4.0	60.0	70.0	10.0				60.0	70.0
	RECORD	OF	MUDDING	AND CEM	ENTING							
,	Depth	in	Feet	Hole S	Sacks	Cubic Fe		Method	of 1	Placem	ent	
•			Feet		Sacks	Cubic Fe of Cemen		Method	of I	Placem	ent	
•	Depth	in	Feet	Hole S	Sacks			Method	of I	Placem	ent	
•	Depth	in	Feet	Hole S	Sacks			Method	of I	Placem	ent	
	Depth From	in To	Feet D:	Hole S	Sacks			Method	of I	Placem	ent	
	Depth From PLUGGIN	in To	Feet D:	Hole Siameter o	Sacks of mud	of Cemen		Method	of 1	Placem	ent	
	Depth From PLUGGIN	in To	Feet D: RECORD	Hole Siameter of	Sacks of mud			Method	of i	Placem	ent	
	Depth From PLUGGIN Pluggin	in To	Feet DE	Hole Siameter of the same ter	Sacks of mud illing Co	of Cemen		Method	of I	Placem	ent	
	Depth From PLUGGIN Pluggin	in To	RECORD ontractor Address	Hole Siameter Control of the second s	Sacks of mud illing Co	of Cemen		Method	of I	Placem	ent	
•	PLUGGIN Pluggin Plu Date	in To	RECORD ontractor Address ng Method	White Dr P.O. Box Hand Mix 5/09/06	Sacks of mud illing Co	of Cemen		Method	of	Placem	ent	
•	PLUGGIN Pluggin Plu Date	in To	RECORD ontractor Address	White Dr P.O. Box Hand Mix 5/09/06	Sacks of mud illing Co	of Cemen	t				ent	
•	PLUGGIN Pluggin Plu Date	in To	RECORD ontractor Address ng Method	White Dr P.O. Box Hand Mix 5/09/06	Sacks of mud illing Co	of Cemen					ent	
•	PLUGGIN Pluggin Plu Date	in To	RECORD ontractor Address ng Method	White Dr P.O. Box Hand Mix 5/09/06	Sacks of mud illing Co	of Cemen	t				ent	
•	PLUGGIN Pluggin Plu Date	in To	RECORD ontractor Address ng Method 1 Plugged proved by	Hole Siameter of P.O. Box: Hand Mix: 5/09/06	illing Co	of Cemen	ingineer R				ent	
•	PLUGGIN Pluggin Plu Date	in To	Feet D: RECORD Ontractor Address ng Method 1 Plugged proved by	Hole Siameter of P.O. Box: Hand Mix: 5/09/06	Sacks of mud illing Co. 906	of Cemen	ingineer R				ent	
•	PLUGGIN Pluggin Plu Date	in To	RECORD ontractor Address ng Method 1 Plugged proved by	Hole Siameter of P.O. Box: Hand Mix: 5/09/06	Sacks of mud illing Co. 906	of Cemen	ingineer R				ent	
•	PLUGGIN Pluggin Plu Date	in To	Feet D: RECORD Ontractor Address ng Method 1 Plugged proved by No. De	Hole Siameter of P.O. Box: Hand Mix: 5/09/06	illing Co	of Cemen mpany, Inc. State F	Ingineer R				ent	
•	PLUGGIN Pluggin Plu Date	in To	RECORD ontractor Address ng Method l Plugged proved by No. De Top	Hole siameter of the siameter	illing Co. 906 C 29 si	of Cemen mpany, Inc. State F c Feet of 4 cement	Ingineer R				ent	
•	PLUGGIN Pluggin Plu Date	in To	RECORD ontractor Address ng Method l Plugged proved by No. De Top 1 0.0 2 10.0	Hole siameter of the siameter	illing Co. 906 C 29 si	of Cemen mpany, Inc. State F c Feet of 4 cement acks bentor	Ingineer R				ent	

page 2 of 4

File Number:
Form: wr-20

Trn Number:

File Number:

File	Number:	

NEW MEXICO OFFICE OF THE STATE ENGINEER WELL RECORD

RECEIVED JUL 1 8 2006 OCU-MITESIA

9.LOG OF HOLE - Mustang Federal Com. #1

Depth in From	feet To	Thickness in feet	Color and Type of Material Encountered
0.0	8.0	8.0	Caliche.
8.0	10.0	2.0	Clayey sand & gravel.
10.0	26.0	16.0	Gravel & sand dry.
26.0	40.0	14.0	Light brown sand & gravel.
40.0	48.0	8.0	Reddish brown sandy clay & gravel.
48.0	54.0	6.0	Red brown shale.
	63.0	9.0	Reddish brown silty shale.
54.0	75.0	12.0	Caliche.
63.0	75.0	12.0	Calicile.
			THE PARTY OF THE P
-			
·			
		 	
	 		
		-	
			
			The state of the s

File Number:	:				Trn Number:	
Form:	wr-20	 page 3	of	4	1	

	Number:	
File	Number:	

NEW MEXICO OFFICE OF THE STATE ENGINEER

	NEW MEXICO OFFICE OF THE STATE WELL RECORD ADDITIONAL STATEMENTS OR EXPLANATIONS: - Mustang Federal Com. #1
10.	ADDITIONAL STATEMENT OF PROPERTY OF THE PROPER
10.	ADDITIONAL STATEMENTS OR EXPLANATION. I casing pulled and boring was plugged the next day.
-	I Casing 1
	The undersigned hereby certifies that, to the best of his knowledge and the undersigned hereby certifies that, to the best of his knowledge and the undersigned hereby certifies that, to the best of his knowledge and the undersigned hereby certifies that, to the best of his knowledge and the undersigned hereby certifies that, to the best of his knowledge and the undersigned hereby certifies that, to the best of his knowledge and the undersigned hereby certifies that, to the best of his knowledge and the undersigned hereby certifies that, to the best of his knowledge and the undersigned hereby certifies that, to the best of his knowledge and the undersigned hereby certifies that, to the best of his knowledge and the undersigned hereby certifies that, to the best of his knowledge and the undersigned hereby certifies that, to the best of his knowledge and the undersigned hereby certifies that, to the best of his knowledge and the undersigned hereby certifies the undersigned hereby certifies the following that the following hereby certifies the undersigned hereby certifies the
	The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described bole.
	we certifies that, to the record of the
	undersigned hereby is a true and
	belief, the foleyou
	hole. (mm/ldd/lyear)
	Driller (mm) duri
	FOR STATE ENGINEER USE ONLY
	TSE ONLY
	FOR STATE ENGINEER USE ONLY
	Location No.
	;FSL ;Use
	FOR STATE ENGINEER ODD ; Location No; Quad; FWL; Use; Trn Number:
	4 01 2
	File Number: Page 4 of 4 Form provided by Forms On-A-Disk · 214-340-9429 · FormsOnADisk.com Form provided by Forms On-A-Disk · 214-340-9429 · FormsOnADisk.com