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Form 3160-3 (September 2001) (63 UNITED STA	TES	DECEN		FORM APPRO OMB No. 1004 Expires January 3	4-0136
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	D DRILL OR REENTER	R CD-AR	resia	6. If indian, Anotee of T	nde Name
1a. Type of Work: 🖾 DRILL 🔲 RE	ENTER			7. If Unit or CA Agreemer	it, Name and No.
1b. Type of Well: Oil Well XX Gas Well Other	Type of Well: Oil Well X Gas Well Other Single Zone Multiple Zone			8. Lease Name and Well No. RINGER FED COM #6	
2. Name of Operator MURCHISON OIL & GAS, INC.			ĺ	9. API Well No.	27.07
3a. Address 1100 MIRA VISTA BLVD.	3b. Phone No. (include	area code)		30 - 015- 10. Field and Pool, or Explo	
PLANO, TX. 75093-4698	(972) 931-0	700		WHITE CITY PENN	
4. Location of Well (Report location clearly and in accordance with any State requirements.*)				11. Sec., T., R., M., or Blk.	and Survey or Area
At surface 1250' FSL & 1250' FEL	SE/SE (P)				
At proposed prod. zone				SEC. 3-T25S-	-R26E
14. Distance in miles and direction from nearest town or post off 17 MILES SW OF CARLSBAD NM	ce*			12. County or Parish	13. State
15. Distance from proposed*	16. No. of Acres in lea	se	7. Spacin	EDDY g Unit dedicated to this well	NM
location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 1250	159.86				
18. Distance from proposed location*	19. Proposed Depth	19. Proposed Depth 20. BLM/BIA Bond No. on file			
to nearest well, drilling, completed, applied for, on this lease, ft. 3000'	11900'				
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3340 GL	22. Approximate date 7/1/04		*	23. Estimated duration	
	24. Attachments		CARLS	BAD CONTROLLED	WATER BASI
The following, completed in accordance with the requirements of	Onshore Oil and Gas Order No.	I, shall be atta	ched to this	form:	
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest S SUPO shall be filed with the appropriate Forest Service Office 	ystem Lands, the 5. Ope 6. Such	n 20 above). rator certificat	ion. pecific info	is unless covered by an exist ormation and/or plans as ma	•
25. Signature	Name (Printed/T	yped)		! Date	· · · · · · · · · · · · · · · · · · ·
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Title VICE PRESIDENT OPERATIONS				1	
Approved by (Signature) /s/ Joe G. Lara	Name (Printed/I	Syped) /s/	loe G.	Lara Date	5 JAN 2004
ACTING FIELD MANAGE	C Office	CARL	SBAI) FIELD OFFIC	
Application approval does not warrant or certify the the applicant operations thereon. Conditions of approval, if any, are attached.	olds legal or equitable title to th	hose rights in t A	he subject I PPRC	ease which would entitle the VAL FOR 1 YI	applicant to conduc EAR
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, r States any false, fictitious or fraudulent statements or representation	ake it a crime for any person k ns as to any matter within its jur	enowingly and risdiction.	willfully to	o make to any department or	agency of the Unit
*(Instructions on reverse)					

Witness Surface Casing

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APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED

- v.

<u>District |</u> 1625 N. French Dr. Hobbs, NM 86240

District II 811 South First, Artesia, NM 88210

ori south finac Artesia, fair oozio

District III 1000 Rio Brazos Rd., Aztoc NM 87410

District_IV 2040 South Pacheco, Santa Fe, NM 87505 State of New Mexico Energy, Minerals & Natural Resources Form C-102 Revised March 17, 1999 Submit to Appropriate District Office State Lease - 4 Coples Foe Lease - 3 Copies

OIL CONSERVATION DIVISION

2040 South Pacheco Santa Fe. N M 87505

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT





J.D. MURCHISON INTERESTS, INC.

VIA FEDERAL EXPRESS

November 14, 2003

MURCHISON OIL & GAS, INC. MURCHISON PROPERTIES, INC.

United States Department of the Interior Bureau of Land Management Roswell District Office 2909 West Second Street Roswell, New Mexico 88201 Attn: Linda Askawik

Re: Application for Permit to Drill Murchison Oil & Gas, Inc. Ringer Federal Com #6 Eddy County, New Mexico Lease No. NM-19836

Gentlemen:

Murchison Oil & Gas, Inc. "MOGI" respectfully requests permission to drill our Ringer Federal Com #6 located 1250' FSL and 1250' FEL of Section 3, T25S, R26E, Eddy County, New Mexico, Federal Lease No. NM-19836. The proposed well will be drilled to a TD of approximately 11900' (TVD). The location and work area have been staked. It is approximately 17 miles South of Carlsbad, NM.

In accordance with requirements stipulated in Federal Onshore Oil and Gas Order No. 1 under 43 CFR 3162.1, our Application for Permission to Drill and supporting evidence is hereby submitted.

- I. Application for Permit to Drill:
 - 1. Form 3160-3, Application for Permit to Drill.
 - Form C-102 Location and Acreage Dedication Plat certified by Dan R. Reddy Registered Land Surveyor No. 5412 in the State of New Mexico, dated 9/2/03.
 - 3. The elevation of the unprepared ground is 3340 feet above sea level.
 - 4. The geologic name of the surface formation is Permian Rustler.
 - 5. Rotary drilling equipment will be utilized to drill the well to TD 11900' (TVD), and run casing. This equipment will then be rigged down and the well will be completed with a pulling unit.

- 6. Proposed total depth is 11900' TVD.
- 7. Estimated tops of important geologic markers. (KDB EST @ 3365')

Delaware Sand	1940' TVD
Cherry Canyon	2925' TVD
Bone Springs	5345' TVD
Wolfcamp	8633' TVD
Cisco Canyon	10128' TVD
Strawn	10298' TVD
Atoka	10364' TVD
Morrow Lime	10954' TVD
Morrow Clastics	11220' TVD

8. Estimated depths at which anticipated water, oil, gas or other mineral bearing formations are expected to be encountered:

Primary Objective:	Morrow	11220'	TVD
Secondary Objectives:	Atoka	10364'	TVD

9. The proposed casing program is as follows:

Surface: 13-3	8/8" OD 48# H40 ST&C casing set at 350'
1 st Intermediate:	9-5/8" OD 47# N80 ST&C casing from 0 to 1950'
2 nd Intermediate:	7-5/8" OD 36# N80 SJ2 casing from 0 to 8800'
Production Liner:	5-1/2" OD 17# P-110 Flush joint SJ2 threads from 8500' to 11900'

- 10. Casing setting depth and cementing program:
- A. 13-3/8" surface casing set at 350', or the top of the Rustler Anhydrite, in 17-1/2" hole. Circulate cement with 300sx 35:65
 WITNESS
 POZ/Class C with 6% gel + 2% CaCl₂ + 0.25 #/sx Cello-Seal and 200sx Class C with 2% CaCl₂.

If cement does not circulate, a temperature survey will be run to find the TOC and then finish cementing to surface through 1" using Class C with 2% CaCl₂.

B. 9-5/8" 1st intermediate casing set at 1950' in 12 1/4" hole. Circulate cement with 600sx 50/50 POZ/Class C with 6% gel + Murchison Oil & Gas, Inc. APD-Ringer Federal Com #6 Page 3

5% salt + 0.25 #/sx Cello-Seal and 300sx Class C with 2% CaCl₂.

If hole conditions dictate, a DV tool may be run to ensure that the intermediate string is cemented to surface.

If cement does not circulate, a temperature survey will be run to find the TOC and then finish cementing to surface through 1" using Class C with 2% CaCl₂.

C. 7-5/8" 2nd Intermediate casing set at 8800' in a 8-3/4" hole. Cement with 600 sx 50/50 POZ Class H cement with 0.5#/sx FL-25 + 0.2 #/sx CD-32 + 0.5 #/sx gilsonite followed by 200 sxs Class H neat.

Estimated top of cement is 1200'.

- Note: Cement volumes may need to be adjusted to hole caliper.
- D. A 5-1/2" Production Liner will be set if warranted from 8500' to TD in a 6-1/2" hole. Cement with 400sx of Class "H" + 1.2% BA-56 + 4/10% CD-32 + 3/10% SMS + 5% Salt.
- 11. Pressure Control Equipment
 - 0' 350' None
 - 350' 8800' 13-3/8" 5000# ram type preventers with one set blind rams and one set pipe rams and a 3000# annular preventer.
 - 8800' 11900' 13-3/8" 5000# ram type preventers with one set blind rams and one set pipe rams and a 3000# annular type preventer. A choke manifold and 120 gallon accumulator with floor and remote operating stations and auxiliary power system. Rotating head below 6000'. See attached Sketch of BOP Equipment.

A kelly cock will be installed and maintained in operable condition and a drill string safety valve in the open position will be available on the rig floor.

After setting the 7-5/8" casing, the blowout preventers and related control equipment shall be pressure tested to 5000 psi and 3000 psi

Murchison Oil & Gas, Inc. APD-Ringer Federal Com #6 Page 4

> respectively. Any equipment failing to test satisfactorily shall be repaired or replaced. Results of the BOP test will be recorded in the Driller's Log. The BOP's will be maintained ready for use until drilling operations are completed.

> BOP drills will be conducted as necessary to assure that equipment is operational and each crew is properly trained to carry out emergency duties.

> Accumulator shall maintain a pressure capacity reserve at all times to provide for the close-openclose sequence of the blind and pipe rams of the hydraulic preventers.

- 12. Mud Program:
 - 0 350' Fresh water/native mud. Wt. 8.7-9.2 ppg, vis 32-34 sec, Lime for pH control (9-10). Paper for seepage. Lost circulation may be encountered.
 - 350' 1950' Fresh water 8.4 ppg, vis 28-29 sec. Add 10# brine as make-up to avoid excessive washouts in salt stringers. Caustic for pH control (10-10.5). Paper for seepage. Lost circulation may be encountered.
 - 1950' 8800' Fresh water. Wt. 8.4 ppg, vis 28-29 sec, caustic for pH control (9-9.5). Paper for seepage.
 - 8800' 10100' Cut brine. Wt. 9.2 9.4 ppg, vis 28-29 sec, caustic for pH control.
 - 10100' 11900' Mud up with an XCD Polymer mud system with the following characteristics: Wt. 10.0 13.0 ppg, Vis 32-40 sec, WL 6-8cc.

Mud system monitoring equipment with derrick floor indicators and visual/audio alarms shall be installed and operative prior to drilling into the Wolfcamp formation. This equipment will remain in use until the production casing is run and cemented. Monitoring equipment shall consist of the following:

- 1) A recording pit level indicator.
- 2) A pit volume totalizer.

- 3) A flowline sensor.
- 13. Testing, Logging and Coring Program:
 - A. Testing program: None.
 - B. Mud logging program: Two man unit from 1950' to TD.
 - C. Electric logging program: CNL/LDT/CAL/GR, DLL/CAL/GR.
 - D. Coring program: Possible sidewall rotary cores.
- 14. No abnormal temperatures, or H2S gas are anticipated. Adequate flare lines will be installed off the mud/gas separator where gas may be flared safely.
- 15. Anticipated starting date is July 1, 2004. It should take approximately 34 days to drill the well and another 10 days to complete.
- 16. A statement accepting responsibility for operations is attached.
- 17. The Multi-Point Surface Use & Operation Plan is attached.
- 18. If the Bureau of Land Management needs additional information to evaluate this application, please advise.

Very truly yours,

Michael S. Daugherty / Vice President, Operations

MSD/cb/RingerFdCm#6-BLM-APTD

Attachments

,

MULTI-POINT SURFACE USE AND OPERATIONS PLAN

MURCHISON OIL & GAS, INC. RINGER FEDERAL COM #6 EDDY COUNTY, NEW MEXICO LEASE NO. NM-19836

This plan is submitted with the Application for Permit to Drill the above described well. The purpose of the plan is to identify the location of the proposed well, the proposed construction activities and operations plan, the magnitude of necessary surface disturbance involved and the procedures to be followed in rehabilitating the surface after completion of the operation so that a complete appraisal may be made of the environmental effects associated with the operation.

The well, and work area have been staked by a registered New Mexico land surveyor. Professional Archaeologists will be engaged to make an archaeological reconnaissance of the work area. Their findings concerning cultural resources will be reported to the Bureau of Land Management.

1. Existing Roads

A copy of a 1" to 2000' Topographic map is attached showing the proposed location. The well location is spotted on this map, which also shows the existing road system.

- 2. Planned Access Road
 - A. An existing lease access road off of US Highway 62/180 will be used to gain access to location. The attached vicinity map "Highlights" access route. About 540' feet of new lease road will have to be constructed.
 - B. Surfacing material: Six inches of caliche and water, compacted and graded.
 - C. Maximum Grade: Less than 3%
 - D. Turnouts: None needed.
 - E. Drainage Design: N/A.
 - F. Culverts: None needed.
 - G. Cuts and Fills: Leveling the location will require minimal cuts or fills.

- H. Gates or Cattleguards: None required.
- 3. Existing wells within a one mile radius of the proposed development well are shown on the attached map.
- 4. Location of Existing and/or Proposed Facilities
 - A. If the well is productive, production facilities will be constructed on the well pad. The facility will consist of a stack pack, one 300 bbl oil tank and one 300 bbl fiberglass water tank. All permanent above ground facilities will be painted in accordance with the BLM's painting guidelines simulating the color of sandstone brown.
 - B. All site security guidelines identified in 43 CFR 3162.7 regulations will be adhered to and a site security plan will be submitted for the Ringer Federal Com #6 tank battery. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed.
- 5. Location and Type of Water Supply

Fresh water and brine water will be used to drill this well. It will be purchased from a supply in or near Carlsbad and transported to the well site.

6. Source of Construction Materials

Caliche for surfacing the well pad will be obtained from a Federal pit located in Eddy County, New Mexico.

- 7. Method of Handling Waste Disposal
 - A. Drill Cuttings will be disposed of in drilling pits.
 - B. Drilling fluids will be allowed to evaporate in the drilling pits until pits are dry.
 - C. Water produced during tests will be disposed of in the drilling pits. Oil produced during tests will be stored in test tanks until sold.
 - D. Current laws and regulations pertaining to the disposal of human waste will be complied with.

Murchison Oil & Gas, Inc. Multi-Point Surface Use and Operations Plan Ringer Federal Com #6 Page 3

- E. Trash, waste paper, garbage and junk will be collected in steel trash bins and removed after drilling and completion operations are completed. All waste material will be contained to prevent scattering by the wind.
- F. All trash and debris will be removed from the wellsite within 30 days after finishing drilling and/or completion operations.
- 8. Ancillary Facilities
 - A. None needed.
- 9. Wellsite Layout
 - A. The location and dimensions of the well pad, mud pits, reserve pit and location of major rig components are shown on the attached well site layout sketch. If Patterson Drilling Company Rig #78 is not utilized a comparable rig will be substituted. The V-door will be to the west and the pits to the south.
 - B. Leveling of the wellsite will be required with minimal cuts or fills anticipated.
 - C. The reserve pit will be plastic lined.
 - D. The pad and pit area have been staked and flagged.
- 10. Plans for Restoration of the Surface
 - A. After completion of drilling and/or completion operations, all equipment and other materials not needed for operations will be removed. Pits will be filled and location cleaned of all trash and junk to leave the well site in as aesthetically pleasing condition as possible.
 - B. Any unguarded pits containing fluids will be fenced until they are filled.
 - C. After abandonment of the well, surface restoration will be in accordance with the land owner. This will be accomplished as expeditiously as possible. Barring unforeseen problems, all pits will be filled and leveled within 90 days after abandonment.

Murchison Oil & Gas, Inc. Multi-Point Surface Use and Operations Plan Ringer Federal Com #6 Page 4

11. Other Information

- A. Topography: The location is a flat plain. Ground Level elevation is 3340 feet.
- B. Soil: Sandy clay loams.
- C. Flora and Fauna: The vegetative cover is generally sparse consisting of mesquite, yucca, shinnery oak, sandsage and perennial native range grasses. Wildlife in the area is also sparse consisting of coyotes, rabbits, rodents, reptiles, dove and quail.
- D. Ponds and Streams: Black River Stream is 4600' to the north west.
- E. Residences and Other Structures: There are no occupied dwellings within a 1 mile radius of the location.
- F. Archaeological, Historical and Cultural Sites: An Archaeological Consultant who is acceptable to the BLM will be engaged to make an archaeological reconnaissance of the work area.
- G. Land Use: Cattle ranching.
- H. Surface Ownership: The surface is public land leased by Margaret Marquart, P.O. Box 8, White City, New Mexico 88268. They will be notified of our intention to drill prior to any activity.

Upon completion of the well, any plastic material used to line the pits or sumps will be cut off below ground level as far as possible and disposed of before the pits are covered. All unattended pits containing liquid will be fenced and the liquid portion allowed to evaporate before the pits are broken and backfilled.

All waste associated with the drilling operation will be contained in steel bins and removed. All garbage and debris left on site will be removed within 30 days of the final completion. The well site, if a producer, will be maintained and kept clean of all trash and litter which detracts from the surrounding environment. Equipment will be maintained in accordance with good operating practice. Murchison Oil & Gas. Inc. Multi-Point Surface Use and Operations Plan **Ringer Federal Com #6** Page 5

> After the wellsite is cleaned and pits and sumps backfilled, any obstruction to the natural drainage will be corrected by ditching or terracing. All disturbed areas, including any access road no longer needed, will be ripped. Those areas will be reseeded with grass if, in the opinion of the land owner, it is required.

12 **Operator's Representatives**

> The Field representatives responsible for assuring compliance with the approved surface use and operations plan are as follows:

Michael S. Daugherty 1100 Mira Vista Blvd. Plano, TX, 75093-4698 Office Phone: (972) 931-0700 Home Phone: (972) 618-0792

Randy Ford 201 W. Wall, Ste. 600 Wall Tower East Midland, TX, 79701 Office Phone: (915) 682-0440 Cell Phone: (915) 559-2222

13. Certification

> I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route: that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by MOGI and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

Vice President, Operations Murchison Oil & Gas, Inc.

<u>11/17/03</u> ate

UNITED STATES DEPARTMENT OF THE INTERIOR Bureau of Land Management Roswell Field Office 2909 West Second Street Roswell, New Mexico 88201-1287

Statement Accepting Responsibility for Operations

Operator Name:	MURCHISON OIL & GAS, INC.
Street or Box:	1100 MIRA VISTA BLVD.
City, State:	PLANO, TX.
Zip Code:	75093-4698

The undersigned accepts all applicable terms, conditions, stipulations, and restrictions concerning operations conducted on the leased land or portion thereof, as described below:

Lease No.: NM-19836

Legal Description of Land:

E/2 of E/2 SECTION 3, T25S, R26E

Formation (s) (if applicable): FROM THE SURFACE DOWN TO 11900'

Bond Coverage (State if individually bonded or another's bond): PERSONAL STATEWIDE BOND

BLM Bond File No.: NM2683

Authorized Signature:

MURCHISON OIL & GAS, INC.

Title: MICHAEL S. DAUGHERTY VICE PRESIDENT OPERATIONS

Date:





Patterson Drilling Company.

Rig #78

9-22-00

DRAWWORKS

Brewster N-75, 800 HP Brake: Parkersburg 40" Double Hydromatic 1 1/8 Drilling Line – Crown-o-malic

ENGINES

Two D353 Caterpillar engines, 410 HP each

DERRICK Ideal 132', 400,000// capacity

SUBSTRUCTURE Ideal 20', 540,000 setback capacily KB –22', Rotary Clearance 17.2

MUD PUMPS Pump 1/1: Ideco MM700 w/Cat 3508 Pump 1/2: Ideco MM700 w/Cat 379

DRILL STRING 12,000' 4-1/2" Drill Pipe Other sizes of drill pipe and drill collars are available

BLOWOUT PREVENTERS 3000// - 5000// working pressure as required

7,000' - 13,000'

MUD SYSTEM

Two steel pils plus slug pil, 600 bbl volume, fluid roller agitalors, one 5" x 6" centrifugal powered by one Detroit diesel, vibrator shale shaker, 48" x 60", two-cono Harrisburg desander

MUD HOUSE

8 x 30 Slorage

COMMUNICATIONS 24 hour direct cellular lelephone

OTHER EQUIPMENT

Blocks. Ideco 250 Ton Hook. Unilized Swivel. Emsco LB300 Rotary Table. Ideco 23" Shalo Shaker. Brandt Double Electrical Power. Two 3406 Cat w/320 kW generalors Fresh Water Storage. Two 500 bbl tanks Housing. Kolly. 5 ½ Hex, 41' Long

"Hole Requirements will dictate actual Reserve Pit size (TOOLPUSHER SHOULD BE CONSULTED)"



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