	DEPARTMEN	EU STATE	S INTEDIADE	гетстве н	lde)	Explics: Februa	004-0136 1ry 28, 1995
					ĺ	5. LEASE DESIGNATION	AND SERIAL NO.
	BUREAU OF	LAND MANA	GEMENT			NM 19836	
APPL	ICATION FOR P	ERMIT TO	DRILL OR D	EEPEN		G. IF INDIAN, ALLOTTE	OR TRIBE NAME
b. TYPE OF WELL	RILL X	DEEPEN	C SINGINAL OF	20212223 Amultu	ZQ.	7. UNIT AGREEMENT N	AME
2. NAME OF OPERATOR	WELL, OTHER		ZONE L	LI ZONNE	.1'r	δ . FARM OR LEASE HAMIL WE	U. NO.
	IL & GAS, INC.		(P)	RECEITED		RINGER FED C	OM #4
3. ADDRIES AND TEXTS ON BIND NO				D - ARTEST	<u> </u>		2.42
1100 MIRA V	ISTA BLVD., PLANC), TX. 750	93-4698 . (95	72) 031 <u>-</u> 0		30 - 015 - 37	O 43
4. LOCATION OF WELL (Report location clearly and	In accordance wi	th any State requir	cments.*)	700	WHITE CITY P	
660 t	FNL & 1040' FEL	NE/NE (A)	125		11. BEC., T., R., M., OR AND BURVEY OR AF	BLK.
rec proposed prod. 20	·····e					SEC. 3-T25S-	D26F
14. DISTANCE IN MILES		12. COUNTY OR PARISH					
	OF CARLSBAD NM					EDDY	NM
10. DISTANCE FROM PROI LOCATION TO NEARES	iT.		16, NO. OF ACRES	IN LEABE	17, NO, O	F ACRES ASSIGNED	I NrI
PROPERTY OR LEARE (Also to benrest dr	LINE, FT. lg. unit line, if any)	660 '	159.86		10 711		L ON 640 AC
	DRILLING, COMPLETED,		19. гвоговко ока	'TII	20. ROTAR	T OR CABLE TOOLS	011 040 110
OR APPLIED FOR, ON T			11650'			ROTARY	
	hether DF, RT, GR, etc.)					22. APPROX. DATE WO	BK WILL START*
3278 GR						7/1/02	
		PROPOSED CAS	ING AND CEMENT	ING PROGRA	м		
SIZE OF HOLE	ORADIT SIMI OF CAZINO	WEIGHT PER F	тоот пктті	NG DEPTH		QUANTITY OF CENE	* T
17 1/2"	13 3/8 K-55	68 #/FT	270 '		300 SX	CIRCULATE	
12 1/4"	9 5/8 N-80	36 #/FT	1850			K - CIRCULATE	
8 3/4" 7 5/8 P-110 33&38 #/FT 8600' 800 SX-EST TOP @ 1200'							001
6 1/2"	5 1/2 P-110	17 #/FT	1165	0'	' 400 SΣ	ζ	
IT IS PROPO	SED TO DRILL THI	S WELL TO A	A TD OF 1165	O' AND T	EST THE	MORROW FORMATI	ION
THE BOP PRO	GRAM IS AS FOLLO	WS:					
1) ONE SET	OF DRILL PIPE R	AMS (5M)					
	OF BLIND RAMS (, ,		- A	PROVA	L SUBJECT TO	

2) ONE SE	ET OF DRILL PIPE RAMS (ET OF BLIND RAMS (5M) YDRILL (3M)	(5M) ·	APPROVAL SU GENERAL REC SPECIAL STIP ATTACHED	QUIREMENTS AND
Carlebi	ed Controlled Water Beats	NSL-47	23	
IN ABOVE SPACE DESCRETE DESCRE	RIBE PROPOSED PROGRAM: If proposal pertinent data on subspurface lecations and me	ls to deepen, give data on present productive casured and true vertical depths. Give blowout	zone and proposed new pr preventer program, if any.	oductive zone. If proposal is to drill or
CThis space for F	bul J Jaughery	TITLE VICE PRESIDENT	COPERATIONS	DATE 4/3/02
•		APPROVAL DATE		
Application approval de CONDITIONS OF APPRO		lds legal or equitable title to those rights in the s	•	itle the applicant to conduct operations thereon
APPROVED BY	/S/ JOE G. LARA	ACTIVE FELD MANA		ggs In Educ
ma somer e j	*(See Instructions On Reverse Side	APPRO	VAL FOR 1 YEAR

BOSEQ TRANSON

2002 APR - 4 AM 11: 22

HECEINED

DISTRICT I P.C. Box 1980, Hobbs, NM 68241-1980

Energy, Minerals and Natural Resources Department

Form C-102 Revised February 10, 1904

Submit to Appropriate District Office

DISTRICT II P.O. Drawer DD, Artesia, NM 88211-0719

OIL CONSERVATION DIVISION P.O. Box 2088

State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410 Santa Fe, New Mexico 87504-2088

DISTRICT IV

WELL LOCATION AND ACREAGE DEDICATION PLAT P.O. BOX 2088, SANTA FE, N.M. 87504-2088

☐ AMENDED REPORT

API Number	Pool Code	Pool Code Pool Name			
	87280	WHITE CITY PENN (GAS)			
Property Code	Prop	Property Name			
	RI	RINGER			
OGRID No.		Operator Name			
015363	MURCHISON	3278'			

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	3	25-S	26-E		660	NORTH	1040	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joint o	r Infill Co	nsolidation (Code Or	der No.			1	<u> </u>
640	IN	FILL							

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		
LOT 4	LOT 3	LOT 2	LOT 1	OPERATOR CERTIFICATION
			3278.7' 9 3276.6'	I hereby certify the the information contained herein is true and complete to the
	•		1040'	best of my knowledge and belief.
		<u> </u>		
	1		3278.9' 3273.5'	1 Met but I found out
40.32 AC	40.56 AC	40.61 AC	40.85 AC	Signature Signature
				MICHAEL S. DAUGHERTY Printed Name
	7 7 1 N/L	80 m		VICE PRESIDENT OPERATIONS
	Mar Al			4/11/02
				Date
	l	<u> </u>		SURVEYOR CERTIFICATION
	1		1	I hereby certify that the well location shown
		CONCINI	G UNIT	on this plat was plotted from field notes of actual surveys made by me or under my
	1	STACTIV	O WINT	supervison, and that the same is true and
		م ا		correct to the best of my bakief.
	1			FEBRUARY 27, 2002
		!		Date Surveyed AWB Signature & Saal of College
				Professional Surveyor
	1	l \$	1	1 D SATES
				amaly Exam 2 (28/02
	1	l		02.17.0159
		<u> </u>	 	Certificate No. RONALD T EIDSON 3239 CARY EIDSON 12641
1				

DISTRICT I P.O. Box 1980, Hobbs, NM 88241-1980

Energy, Minerals and Natural Resources Department

Form C-102
Revised February 10, 1994

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

DISTRICT II P.O. Drawer DD, Artesia, NM 88211-0719

OIL CONSERVATION DIVISION

P.O. Box 2088

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

Santa Fe, New Mexico 87504-2088

DIS	STR	ICT	IV			
r.o.	Box	2086,	SANTA	FE.	N.M.	87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

			- AMENDED ALL ON		
API Number	Pool Code	Pool Code Pool Name			
No.	87280	WHITE CITY PENN (GAS)			
Property Code	X	Well Number			
		RINGER	4		
OGRID No.	C	Elevation			
015363	MURCHISON	NOIL & GAS, INC.	3278'		

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	3	25-S	26-E		660	NORTH	1040	EAST	EDDY

Bottom Hole Location If Different From Surface

			boccom	11010 1101	cacion ii biiic	stelle from Bur	race		
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joint o	r Infill Co	nsolidation	Code Or	der No.				
640	INF	'ILL		_					

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

*		-		
LOT 4	LOT 3	LOT 2	101	OPERATOR CERTIFICATION
		3278	3.7' 9 3276.6'	I hereby certify the the information contained herein is true and complete to the
1		I	1040	best of my knowledge and belief.
		3278	ii 3.9' 3273.5'	Markon Illauntutu
40.32 AC	40.56 AC	40.61_AC	40.85 AC	Signature June 1
				MICHAEL S. DAUGHERTY Printed Name
				V P OPERATIONS
				3/27/02 Date
<u> </u>	.			SURVEYOR CERTIFICATION
		<u>.</u> 1		I hereby certify that the well location shown on this plat was plotted from field notes of
		SPACING	UNIT	actual surveys made by me or under my supervison, and that the same is true and correct to the best of my belief.
				FEBRUARY 27, 2002
 	 	-		Date Surveyed AWB Signature & Scel Of Company Professional Surveyor Office
				Senall & Sulson 2 (28/02
				02.17.0159
	 	· 		Certificate No. RONALD William 3239 CARY EIDSON 12641



VIA FEDERAL EXPRESS

MURCHISON OIL & GAS, INC.

MURCHISON PROPERTIES, INC.

April 3, 2002

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 #4 Eddy County, New Mexico Lease No. NM-19836

Gentlemen:

Murchison Oil & Gas, Inc. "MOGI" respectfully requests permission to drill our Ringer Federal Com #4 located 660' FNL and 1040' 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 11650' (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.
 - 2. Form C-102 Location and Acreage Dedication Plat certified by Ronald J. Eidson Registered Land Surveyor No. 3239 in the State of New Mexico, dated 2/27/02.
 - 3. The elevation of the unprepared ground is 3278 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 11650' (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 11650' TVD.
- 7. Estimated tops of important geologic markers. (KDB EST @ 3299')

Delaware Sand	1874' TVD
Cherry Canyon	2859' TVD
Bone Springs	5279' TVD
Wolfcamp	8367' TVD
Cisco Canyon	9862' TVD
Strawn	10032' TVD
Atoka	10098' TVD
Morrow Lime	10688' TVD
Morrow Clastics	10877' TVD

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

Primary Objective:

Morrow

10877' TVD

Secondary Objectives:

Atoka

10098' TVD

9. The proposed casing program is as follows:

Surface:

13-3/8" OD 48# H40 ST&C casing set at 270'

1st Intermediate:

9-5/8" OD 47# N80 ST&C casing from 0 to 1850'

2nd Intermediate:

7-5/8" OD 36# N80 LT&C casing from 0 to 8600'

Production Liner:

5-1/2" OD 17# P-110 Flush joint SJ2 threads from

8300' to 11650'

- 10. Casing setting depth and cementing program:
 - A. 13-3/8" surface casing set at 270', or the top of the Rustler Anhydrite, in 17-1/2" hole. Circulate cement with 300sx 35:65 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 1850' in 12 1/4" hole. Circulate cement with 600sx 50/50 POZ/Class C with 6% gel + 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 8600'. 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.

11. Pressure Control Equipment

0' - 270' None

270' - 8600' 13-3/8" 5000# ram type preventers with one set blind rams and one set pipe rams and a 3000#

annular preventer.

8600' – 11650' 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 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-open-close sequence of the blind and pipe rams of the hydraulic preventers.

12. Mud Program:

0 – 270'	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.
270' – 1850'	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.
1850' — 8650'	Fresh water. Wt. 8.4 ppg, vis 28-29 sec, caustic for pH control (9-9.5). Paper for seepage.
8650' – 9900'	Cut brine. Wt. $9.2 - 9.4$ ppg, vis $28-29$ sec, caustic for pH control.
9900' – 11650'	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 2100' 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, 2002. 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.

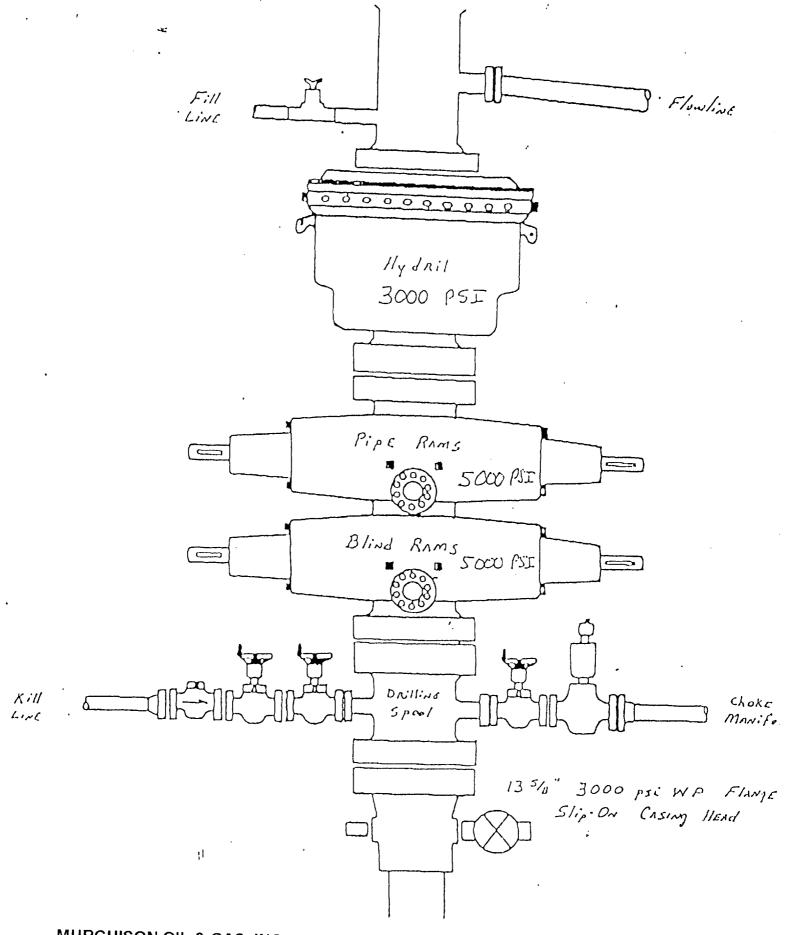
Very truly yours,

Michael S. Daugherty

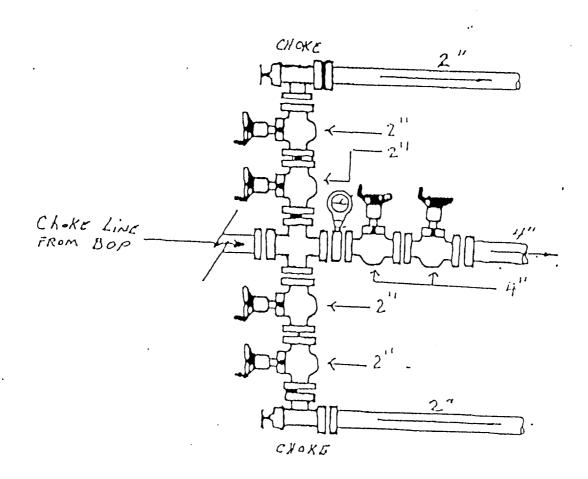
Vice President, Operations

MSD/cb/RingerFdCm#1-BLM-APTD

Attachments



MURCHISON OIL & GAS, INC. RINGER FEDERAL COM #4 660' FNL & 1040' FEL NE/NE(A) EDDY CO., NM.



MURCHISON OIL & GAS, INC. RINGER FEDERAL COM #4 660' FNL & 1040' FEL NE/NE(A) EDDY CO., NM.

MULTI-POINT SURFACE USE AND OPERATIONS PLAN

MURCHISON OIL & GAS, INC. RINGER FEDERAL COM #4 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. Mesa Field Services have been 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 USGS "Red Lake, New Mexico" 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 230' 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 #4 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.

- 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 east and the pits to the north.
 - 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.

11. Other Information

- A. Topography: The location is a flat plain. Ground Level elevation is 3278 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 1200' 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: Mesa Field Services have been 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.

Multi-Point Surface Use and Operations Plan Ringer Federal Com #4 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.

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 11650'

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

BLM Bond File No.: NM2683

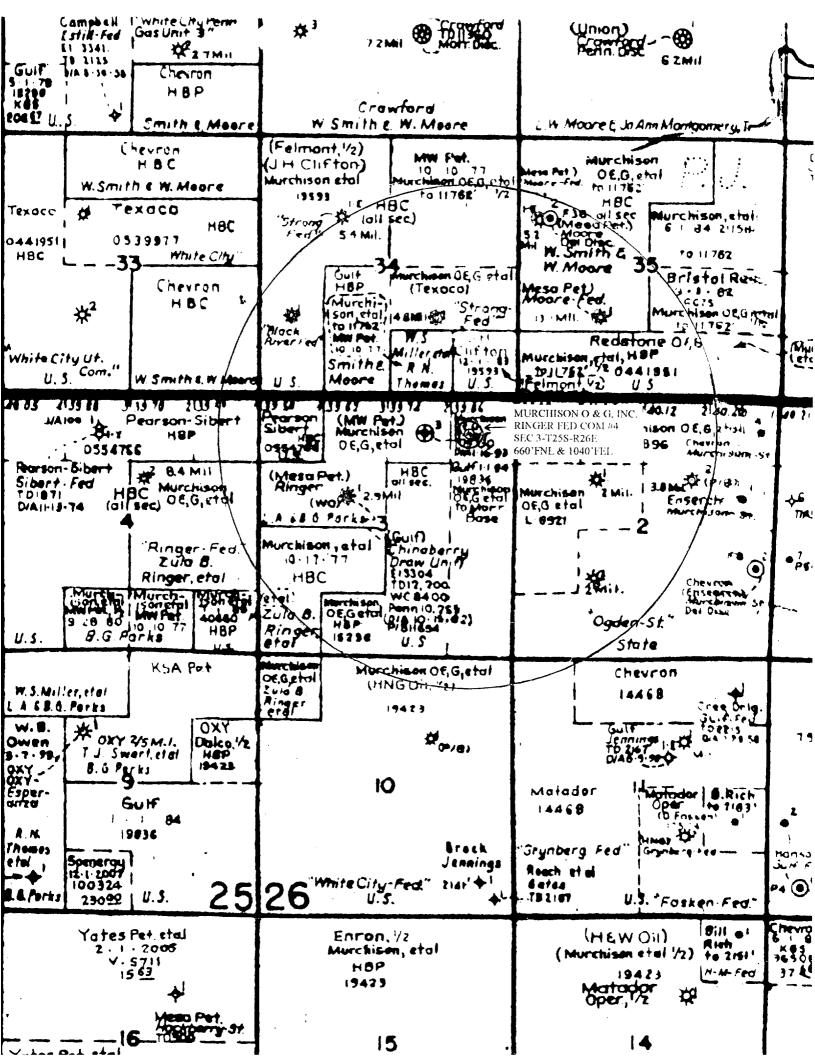
Authorized Signature:_

MURCHISON OIL & GAS, INC.

Title: MICHAEL S. DAUGHERTY

VICE PRESIDENT OPERATIONS

Date: 4/3/02



Patterson Drilling Company

Rig #78

7,000' - 13,000'

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 capacity KB -22', Rolary Clearance 17.2

MUD PUMPS

Pump #1: Ideco MM700 w/Cat 3508 Pump #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

MUD SYSTEM

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

MUD HOUSE

8 x 30 Storage

COMMUNICATIONS

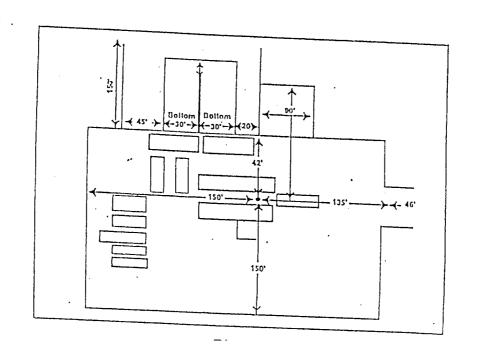
24 hour direct cellular telephone

OTHER EQUIPMENT

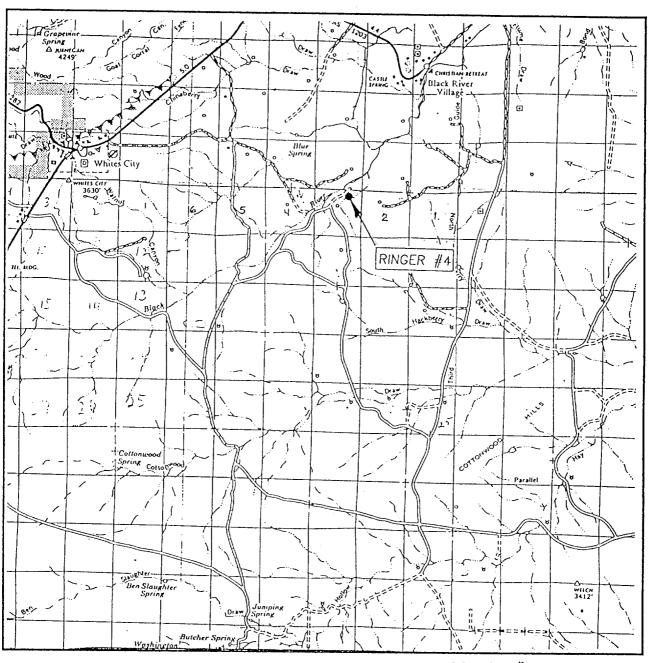
Blocks. Ideco 250 Ton Hook. Unilized Swivel. Emsco LB300 Rotary Table. Ideco 23" Shale Shaker. Brandt Double Electrical Power. Two 3406 Cat w/320 kW Fresh Water Storage. Two 500 bbl tanks Housing.

Kolly. 5 1/4 Hex, 41' Long

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



VICINITY MAP



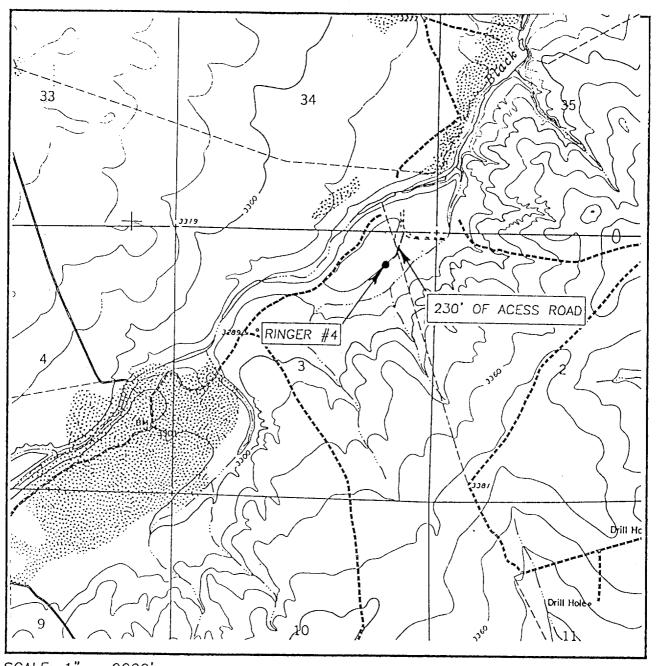
SCALE: 1" = 2 MILES

SEC. 3	IWP. <u>25-S</u> RGE. <u>26-E</u>
SURVEY	N.M.P.M.
COUNTY	EDDY
DESCRIPTIO	N 660' FNL & 1040' FEL
ELEVATION_	3278'
OPERATOR <u>I</u>	MURCHISON OIL & GAS INC
LEASE	RINGER

JOHN WEST SURVEYING HOBBS, NEW MEXICO (505) 393-3117



LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL: 20' BLACK RIVER VILLAGE, N.M.

SEC. 3 TWP. <u>25-S</u> RGE. <u>26-E</u>		
SURVEYN.M.P.M.		
COUNTYEDDY		
DESCRIPTION 660' FNL & 1040' FEL		
ELEVATION3278'		
OPERATOR MURCHISON OIL & GAS INC		
LEASERINGER		
U.S.G.S. TOPOGRAPHIC MAP BLACK RIVER VILLAGE, N.M.		

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