• Page: 1 Document Name: untitled

CMD :

ONGARD

01/06/04 10:15:53

OG6IWCM

INOUIRE WELL COMPLETIONS

OGOMES -TQAC

Pool Idn : 81600 NASH DRAW; MORROW (GAS)
OGRID Idn : 15363 MURCHISON OIL & GAS INC

Prop Idn : 8131 NASH UNIT

Well No : 053 GL Elevation: 2986

U/L Sec Township Range North/South East/West Prop/Act(P/A)

--- --- -------

B.H. Locn : K 12 23S 29E FTG 1663 F S FTG 2185 F W

Lot Identifier:

Dedicated Acre: 320.00

Lease Type : F

Type of consolidation (Comm, Unit, Forced Pooling - C/U/F/O) :

M0025: Enter PF keys to scroll

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06

PF07 PF08 PF09 PF10 NEXT-WC PF11 HISTORY PF12 NXTREC

Date: 1/6/2004 Time: 10:17:16 AM

CMD: 01/06/04 10:16:16

OG6ACRE C102-DEDICATE ACREAGE OGOMES -TQAC

Page No: 1

API Well No : 30 15 32548 Eff Date : 11-05-2003

Pool Idn : 81600 NASH DRAW; MORROW (GAS)

Prop Idn : 8131 NASH UNIT Well No : 053

Spacing Unit : 58198 OCD Order : Simultaneous Dedication:

Sect/Twp/Rng : 12 23S 29E Acreage : 320.00 Revised C102? (Y/N) :

Dedicated Land:

S Base U/L Sec Twp Rng Acreage L/W Ownership Lot Idn A 12 23S 29E 40.00 N FDВ 12 23S 29E 40.00 N FDG 12 23S 29E 40.00 N FDH 12 23S 29E 40.00 N FD I 12 23S 29E 40.00 N FDJ 12 23S 29E 40.00 N FDO 12 23S 29E 40.00 N FD12 23S 29E 40.00 N ST

E0005: Enter data to modify or PF keys to scroll

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06 CONFIRM PF07 BKWD PF08 FWD PF09 PF10 LAND PF11 NXTSEC PF12 RECONF

Date: 1/6/2004 Time: 10:17:22 AM

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Stogner, Michael

From:

Sent:

Arrant, Bryan Tuesday, December 02, 2003 10:09 AM 'mdaugherty@jdmii.com' Gum, Tim; Stogner, Michael Nash Unit # 53

To: Cc:

Subject:



LETTERHEAD.032.d oc



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

State of Mary Stage Free Color

BILL RICHARDSON Governor Joanna Prukop Cabinet Secretary

Lori Wrotenbery Director **Oil Conservation Division**

December 2, 2003

Murchison Oil & Gas, Inc. 1100 Mira Vista Blvd. Plano, TX 75093-4698

Attn: Mr. Michael S. Daugherty

RE:

Murchison Oil & Gas, Inc.'s gas well completion of the

Nash Unit #53, located in Section 12 of Township 23 South,

Range 29 East, Eddy County, New Mexico.

Bottom Hole Location: 2185' FWL & 692' FEL

API # 30-015-32548

Dear Mr. Daugherty,

In reference to the above directionally well, the top and bottom producing intervals of the Morrow formation as well as the bottom hole location is non-standard according to New Mexico Oil Conservation Division's Rule 104 for deep gas wells in southeast New Mexico. I cannot find a non-standard location approval for this well allowing for Morrow gas production. Until such an approval is issued, this well will need to be shut-in. Please refer to NMOCD's Rule 104 C. (2) for further clarification or please give me a call to discuss this matter further.

Yours truly,

Bryan G. Arrant **PES**

Cc:

Michael Stogner, Chief Hearing Examiner-Santa Fe

Tim Gum, District Supervisor-Artesia

Stogner, Michael

From:

Arrant, Bryan

Sent:

Tuesday, December 02, 2003 10:29 AM 'mdaugherty@jdmii.com'

To: Cc:

Gum, Tim; Stogner, Michael

Subject:

Nash Unit # 53

This is a revised letter as the previous letter stated an incorrect bottom hole location making it a Very Large hole.



LETTERHEAD.0321. doc



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON
Governor
Joanna Prukop
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

December 2, 2003

Murchison Oil & Gas, Inc. 1100 Mira Vista Blvd. Plano, TX 75093-4698

Attn: Mr. Michael S. Daugherty

RE:

Murchison Oil & Gas, Inc.'s gas well completion of the

Nash Unit #53, located in Section 12 of Township 23 South,

Range 29 East, Eddy County, New Mexico.

Bottom Hole Location: 2056' FNL & 692' FEL

API # 30-015-32548

Dear Mr. Daugherty,

In reference to the above directionally well, the top and bottom producing intervals of the Morrow formation as well as the bottom hole location is non-standard according to New Mexico Oil Conservation Division's Rule 104 for deep gas wells in southeast New Mexico. I cannot find a non-standard location approval for this well allowing for Morrow gas production. Until such an approval is issued, this well will need to be shut-in. Please refer to NMOCD's Rule 104 C. (2) for further clarification or please give me a call to discuss this matter further.

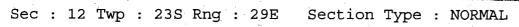
Yours truly,

Bryan G. Arrant PES

Cc:

Michael Stogner, Chief Hearing Examiner-Santa Fe

Tim Gum, District Supervisor-Artesia



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Form 3160-3 (September 1001)

N.M. Oil Cons. DI Dist. 2 1301 W. Grand Avenue

DEPARTMENT OF THE INTERIORATESIA, NM 882105. Lease Serial No. NM

68 BUREAU OF LAND MA	NAGEMENT		NM 0556859-A 5,	42
APPLICATION FOR PERMIT TO	DRILL OR REENTER		6. If Indian, Allottee or T	ribe Name
ta. Type of Work: DRILL REE	NTER		7. If Unit or CA Agreemer	nt, Name and No.
1b. Type of Well: Oil Well Gas Well Other	Single Zone M	ıltiple Zone	8. Lease Name and Well N NASH UNIT #53	0.
MURCHISON OIL & GAS, INC	le dancs nine		9. API Well No. 30 - 015-	
3a. Address	3b. Phone No. (include area code		10. Field and Pool, or Explo	oratory
1100 MIRA VISTA BLVD., PLANO, TX. 75093-4698	(972) 931-0700		NASH DRAW	
4. Location of Well (Report location clearly and in accordance of At surface 1663' FSL & 2185' FWL W. K. At proposed prod. zone 1980' FNL & 660' FEL UN			11. Sec., T., R., M., or Blk. SEC. 12, T23S, R29E	and Survey or Area
14. Distance in miles and direction from nearest town or post office		VIESH	12. County or Parish	13. State
17 MILES SOUTHEAST OF CARLSBAD			EDDY	NM.
15. Distance from proposed* location to nearest property or lease line, ft.	16. No. of Acres in lease	17. Spacing	Unit dedicated to this well	93031-1237
(Also o nearest drig. unit line, if any) 660' BHL	320		320 N/2	9
18. Distance from proposed location* to nearest well, drilling, completed, applier for, on this lease, fl. 2965' BHL	19. Proposed Depth	20. BLM/B	IA Bond No. on file	OCO RECT
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work wil	l start*	23. Estimated duration	3020
2986' GL	9/1/02		70 DAYS \감	- 'K'O
	24. Attachments	Carlshad (Controlled Weter 5a	aln 🕏

The follow ng, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

- 1. Well plat certified by a registered surveyor.
- 2. A Drilling Plan.
- 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO ::hall be filed with the appropriate Forest Service Office).
- 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- 5. Operator certification.
- 6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature Michael / Manghert	Name (Printed/Typed) MICHAEL S. DAUGHERTY	Date 6/21/02
Title VICE PRESIDENT OPERATIONS		
Approved by (Signatus) RICHARD A. WHITLEY	Name (Printed/Typed)	Date NOV 2 9 2002
TILL STATE DIRECTOR	Office NM STATE OFFICE	

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

APPROVAL FOR 1 YEAR

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*(Instructions on reverse)

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED

State of New Mexico

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

WEST

EDDY

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

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

P.O. BOX 2088, SANTA FE, N.M. 87504-2088

12

23-S

DISTRICT IV

K

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

		1	ARTT T	OCATION	AND	AUREAU	E DEDICALL	ON PLAI		
API	Number			Pool Code		Pool Name				
Property (Code				_	l erty Name H UNIT	1		Well Num	ber
OGRID No 01536				MURCHI	•	ator Name	GAS INC.		Elcvatio 2986	
					Surfa	cc Locat	ion			
JL or lot No.	Section	Township	Range	Lot Idn	Feet fr	om the	North/South line	Feet from the	East/West line	Count

Bottom Hole Location If Different From Surface

SOUTH

2185

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
Н	12	23-S	29-E		1980'	NORTH	660'	EAST	EDDY	
Dedicated Acre	s Joint o	r Infill Co	neolidation	Code Or	der No.					
320										

1663'

29-E

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

2185	SPACING UNIT	BHL OCEMENT	OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief. MICHAEL S. DAUGHERTY Printed Name VICE PRESIDENT OPERATIONS Title G 21 OZ Date SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision and that the same is true and carrect to the best of my beltef. MAY 28, 2002 Date Surveyed MILLIAN SUBJECT OF TOTAL SURVEYORS MEXICAN SURVEYORS OZ.11.03942 Ceyllagate No. RONAM FIDSON 3239 GARK FIDSON 12641



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

June 21, 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. Nash Unit #53 Eddy County, New Mexico

Lease No. NM-0556859-A

Gentlemen:

Murchison Oil & Gas, Inc. "MOGI" respectfully requests permission to drill our Nash Unit #53 with a surface location at 1663' FSL and 2185' FWL, and a bottom hole location at 1980' FNL and 660' FEL of Section 12, T23S, R29E, Eddy County, New Mexico, Federal Lease No. NM-0556859-A. The proposed well will be drilled to a TD of approximately 14,000' (TVD) and 14,600' MD. The location and work area have been staked. It is approximately 17 miles South East of Carlsbad, New Mexico.

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 Gary Eidson Registered Land Surveyor No. 12641 in the State of New Mexico, dated May 28, 2002.
 - 3. The elevation of the unprepared ground is 2986 feet above sea level.
 - 4. The geologic name of the surface formation is Permian.
 - 5. Rotary drilling equipment will be utilized to drill the well to a measured depth of 14,600', 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 14,000' TVD.

7. Estimated tops of important geologic markers.

Lamar	3070' TVD
Delaware	3140' TVD
Cherry Canyon	4170' TVD
Bone Springs	6865' TVD
3 rd BS SS	9786' TVD
Wolfcamp	10139' TVD
Strawn	12025' TVD
Atoka	12147' TVD
Morrow	12918' TVD

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

Primary Objective:

Morrow

12918' TVD

Secondary Objectives:

Strawn

12025' TVD

12147' TVD Atoka

9. The proposed casing program is as follows:

Surface:

16" OD J-55 BUTT T&C casing set at 400' TVD

1st Intermediate: 10-3/4" OD BUTT T&C casing set at 3100' TVD 45.5 #

2nd Intermediate:

7-5/8" 33.7 #/FT N-80 and S-95 LT&C casing set

@ 10330' TVD

Production Liner:

5-1/2" 20#/FT N-80 FL4S Liner set @ 10000-14000'

TVD

10. Casing setting depth and cementing program:

> 16" surface casing set at 400', in a 20" hole. Circulate cement with Α. 550sx Class C with additives.

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 cement with additives.

10-3/4" 1st intermediate casing set at 3100' in a 14-3/4" hole. B. Circulate cement with 1800sx 35:65 POZ/Class C and 200sx Class C cement with additives.

- C. 7-5/8" 2nd intermediate casing set at 10330' TVD in 8-3/4" hole. Cement with 1500sx Class C cement with additives.
- D. 5-1/2" production liner set from 10,000' to 14,000' TVD. Cement with 340sx Class C cement with additives.

Note: Cement volumes may need to be adjusted to hole caliper.

11. Pressure Control Equipment

0' - 400' None

400' - 3100' 20" Hydril and Divertor System.

3100' – 14000' TVD 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 10330' TVD. 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:

350' - 3100'

3100' - 10330' TVD

0-350' Spud with fresh water gel flocculated with lime and pretreated with 6-8 lbs/bbl cottonseed hulls, 2-4 lbs/bbl fiber, and 2 lbs/bbl paper for possible severe loss circulation zone 100-200'. If necessary drill without returns, or if full returns cannot be established at casing point mix 150 bbls viscous mud treated with LCM as above and spot on bottom before coming out of the hole to run casing.

Drill out with brine water through a controlled section of the reserve pit. Add paper for seepage control or to sweep hole, as needed. At casing point, sweep hole with 150± bbls viscous mud with 6-8 lbs/bbl LCM before coming out of the hole to run casing.

Drill out with fresh water through a controlled section of the reserve pit. Use paper, sea mud, and salt water gel slugs to sweep the hole and control seepage, as necessary. To control corrosion maintain ph 8.5 to 9.5 with caustic soda and use corrosion chemicals from 3100' to total depth.

10330' – 14000' TVD Circulate steel pits and mud up to 36-40 sec/qt viscosity, 6 to 8cc API filtrate, and 3.0+% KCL.

- 13. A direction well plan prepared by Directional Drilling Contractors LLC is attached which represents the proposed well plan.
- 14. Testing, Logging and Coring Program:
 - A. Testing program: None anticipated.
 - B. Mud logging program: Two man unit from 8000' to TD.
 - C. Electric logging program: CNL/LDT/CAL/GR, DLL/CAL/GR.
 - D. Coring program: Possible sidewall rotary cores.

APD-Nash Unit #53 Page 5

- 15. 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.
- 16. Anticipated starting date is September 1, 2002 subject to rig availability. It should take approximately 60 days to drill the well and another 10 days to complete.
- 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/NashUnit#53-BLM-APTD

Attachments

MULTI-POINT SURFACE USE AND OPERATIONS PLAN

MURCHISON OIL & GAS, INC.

NASH UNIT #53

EDDY COUNTY, NEW MEXICO
LEASE NO. NM-0556859-A

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 Archaeological Service has 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 "Remuda Basin, 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.

Directions to location: Travel East from Loving, NM on State Highway 31 and turn southeast on State Highway 128 and go 4 miles, then east 1 mile on lease road then north 2/10 mile to the location.

2. Planned Access Road

- A. An existing lease access road will be used to gain access.
- 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 Nash Unit #53 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 Carlsbad, NM vicinity 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. A closed loop mud system will be utilized for drilling operations and water for drilling will be stored in steel tanks.
 - B. Drill cuttings will be collected in steel bins and transported to a lined pit to be located approximately 685' from the north line and 1295' from the west line of Section 18, T23S, R30E. This is the location and drilling pad for the Nash Unit #7 which has been P&A'd and is approximately 1 mile from the rig. A sketch of the proposed land farm pit is attached.
 - C. Water produced during tests will be stored in test tanks and transported to authorized disposal facility. 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, steel mud pits and location of major rig components are shown on the attached well site layout sketch. If Patterson Drilling Company Rig #18 is not utilized a comparable rig will be substituted. The V-door will be to the North.
 - B. Leveling of the wellsite will be minimal since this is an existing wellsite.
 - C. A closed loop mud system will be utilized for drilling operations and water for drilling will be stored in steel tanks.
 - D. Drill cuttings will be collected in steel bins and transported to a lined pit to be located approximately 685' from the north line and 1295' from the west line of Section 18, T23S, R30E. This is the location and drilling pad for the Nash Unit #7 which has been P&A'd and is approximately 1 mile from the rig. A sketch of the proposed land farm pit is attached.
 - E. The pad has 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. The land farm pit will be filled. The location will be cleaned of all trash and junk to leave the well site in as aesthetically pleasing condition as possible.

B. 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. GL elevation is 2986'.
- 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: A Playa Lake is located within .2 miles to the north and west. See attached topographic map.
- E. Residences and Other Structures: There are no occupied dwellings within a 1 mile radius of the location.
- F. Archaeological, Historical and Cultural Sites: Cultural resources have been recorded in the area. Mesa Field Services Archaeological Service has 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 the BLM to Hart M. Greenwood, Jr., P.O. Box 104, Carlsbad, NM. 88221. 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 Nash Unit #53 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 210 W. Wall St., Suite 600 Midland, TX. 79701

Office Phone: (915) 682-0440

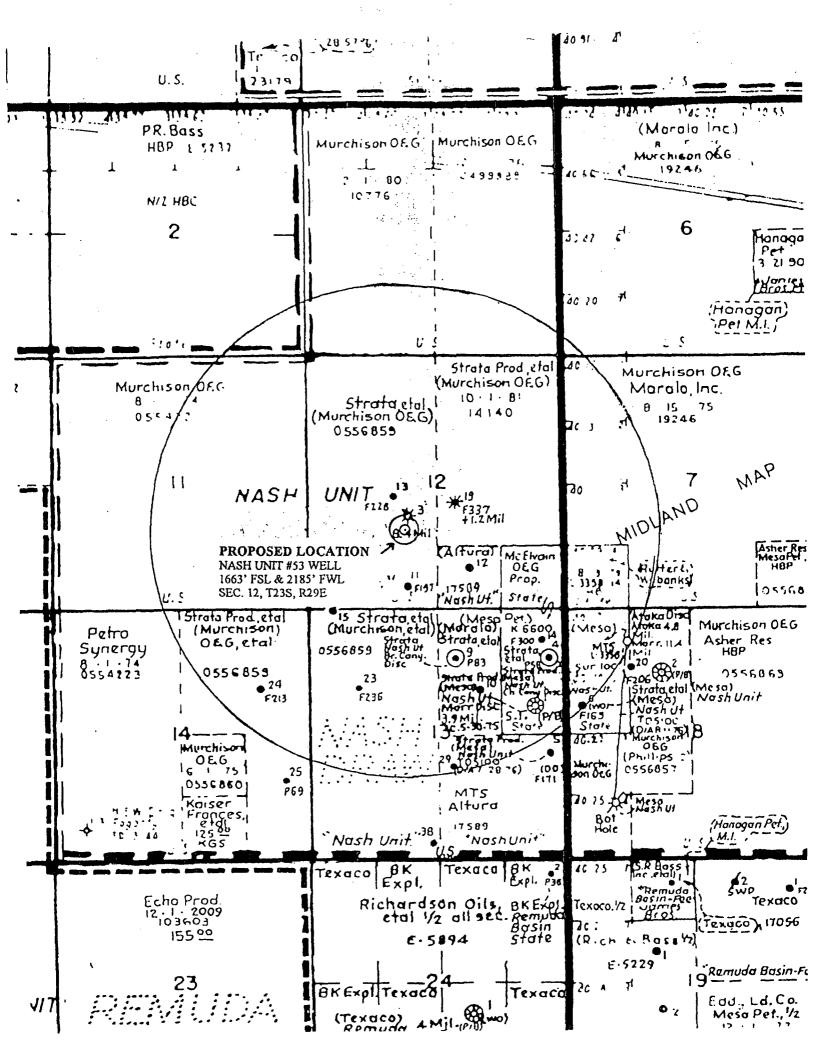
13. Certification

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.

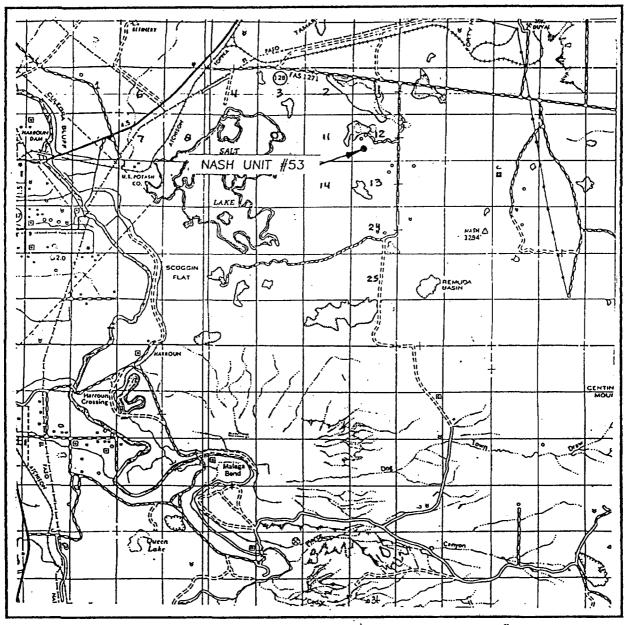
/21/02

Michael S. Daugherty

Vice President, Operations Murchison Oil & Gas, Inc.



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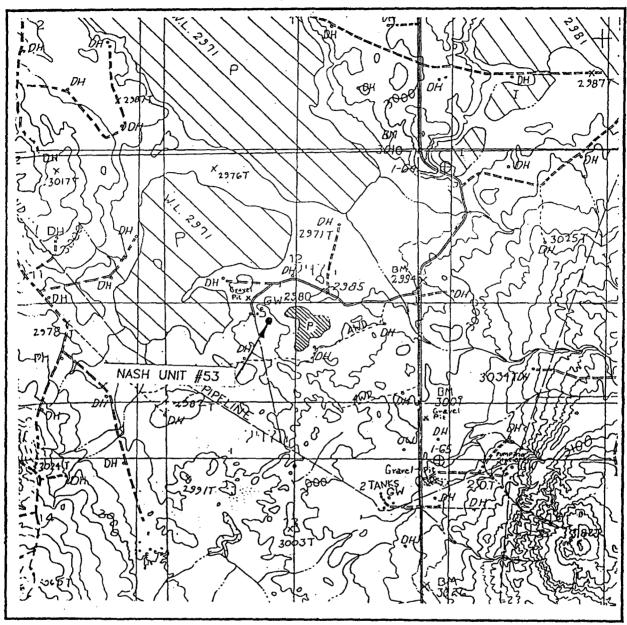


SCALE: 1" = 2 MILES

SEC. 12	_TWP. <u>23-S_</u> RGE29-E
SURVEY	N.M.P.M.
COUNTY	EDDY
DESCRIPTI	ON 1663' FSL & 2185' FWL
ELEVATION	2986
OPERATOR	MURCHISON OIL & GAS INC
LEASE	NASH UNIT

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

LOCATI'N VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL: 20' REMADA BASIN, N.M.

SEC. 12 TWP. 23-S RGE. 29-E

SURVEY N.M.P.M.

COUNTY EDDY

DESCRIPTION 1663' FSL & 2185' FWL

ELEVATION 2986'

OPERATOR MURCHISON OIL & GAS INC.

LEASE NASH UNIT

U.S.G.S. TOPOGRAPHIC MAP

REMADA BASIN, N.M.

JOHN WEST SURVEYING HOBBS, NEW MEXICO (505) 393-3117 MIDLAND, TX (915) 684-7446 OKLAHOMA CITY, OK (405) 810-0021 CORPUS CHRISTI, TX (361) 851-2473



HOUSTON, TX LAFAYETTE, LA NEW ORLEANS, LA (281) 877-120 (337) 237-530 (504) 566-041

Subject	Page No.	of
File	Ву	Date

PLAN VIEW MURCHISON OIL & GAS INC PROPOSED LAND FARM PIT GRADED APPROACH 100' x 30' x 12' NASH UNIT # 53 SEC 12 T 235 R 29E (WELL LOCATION) 100 30' 510E VIEW

DDS.

Job Number: Proposal

Company: MURCHISON OIL & GAS, INC.

Lease/Well: Nash #53

Location: Eddy County

Rig Name: N/A RKB: Ground Level

G.L. or M.S.L.: 2987'

State/Country: New Mexico

Declination: 9.0

Grid: 1.8

File name: C:\WINSERVE\MURNA53.SVY

Date/Time: 04-Jun-02 / 11:13

Curve Name: Nash # 53 (ST @ 3200')

WINSERVE SURVEY CALCULATIONS Minimum Curvature Method Vertical Section Plane 56,09 Vertical Section Referenced to Wellhead Rectangular Coordinates Referenced to Wellhead

	Measured	incl	Drift	True			Vertical	Dogleg	CLO	SURE	
	Depth FT	Angle Deg	Direction Deg	Vertical Depth	N-S FT	E-W FT	Section FT	Severity Deg/100	Distance FT	Direction Deg	
Г					. =						_
1	10-3/4" Cs	sg Pt.									
l	3100.00	.00	.00	3100.00	.00	.00	.00	.00	.00	.00	_
	ST Point v	w/Gradua	l Nudge to 4	00' V.S.							٦
	3200.00	.00	8.57	3200.00	.00	.00	.00	.00	.00	.00	
	3300.00	.35	56.09	3300.00	.17	.25	.30	.35	.30	56.08	_
	3400.00	.70	56.09	3400.00	.68	1.01	1.22	.35	1.22	56.08	
	3500.00	1.05	56.09	3499.98	1.53	2.28	2.74	.35	2.74	56.09	
	3600.00	1.40	56.09	3599.96	2.72	4.05	4.88	.35	4.88	56.09	
	3700.00	1.75	56.09	3699.92	4.25	6.33	7.62	.35	7.62	56.09	
	3800.00	2.10	56.09	3799.87	6.12	9.11	10.97	.35	10.97	56.09	
	3900.00	2.45	56.09	3899.79	8.33	12.40	14.94	.35	14.94	56.09	
	4000.00	2.79	56.09	3999.68	10.88	16.19	19.51	.35	19.51	56.09	
	4100.00	3.14	56.09	4099.55	13.77	20.49	24.69	.35	24.69	56.09	
	4200.00	3.49	56.09	4199.38	17.00	25.20	20.40	25	20.40	50.00	
	4300.00	3.4 9 3.84	56.09 56.09	4199.36	20.57	25.29 30.60	30.48 36.88	.35	30.48	56.09	
	4400.00	4.19	56.09	4398.93	20.57 24.48	36.42	43.88	.35 .35	36.88	56.09 56.00	
	4500.00	4.13	56.09	4498.64	28.73	42.74	51.50	.35 .35	43.88 51.50	56.09 56.09	
	4600.00	4.89	56.09	4598.30	33.32	49.56	59.72	.35	59.72	56.0 9	
	4000.00	4.00	00.00	4000.00	00.0L	40.50	JJ.72	.55	33.12	30.03	
	4700.00	5.24	56.09	4697.91	38.24	56.89	68.55	.35	68.55	56.09	
	4800.00	5.59	56.09	4797.46	43.51	64.72	77.99	.35	77.99	56.09	
	4900.00	5.94	56.09	4896.96	49.11	73.06	88.03	.35	88.03	56.09	
	5000.00	6.29	56.09	4996.39	55.05	81.90	98.68	.35	98.68	56.09	

Measured Depth FT	inci Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	Dogleg Severity Deg/100	C L O : Distance FT	SURE Direction Deg
5100.00	6.64	56.09	5095.75	61.33	91.24	109.94	.35	109.94	56.09
5200.00	6.99	56.09	5195.05	67.95	101.08	121.80	.35	121.80	56.09
5300.00	7.34	56.09	5294.27	74.91	111.43	134.27	.35	134.27	56.09
5400.00	7.69	56.09	5393.41	82.20	122.28	147.34	.35	147.34	56.09
5500.00	8.04	56.09	5492.47	89.83	133.63	161.02	.35	161.02	56.09
5000.00	0.20	E6 00	EE01 44	07.80	445.40	475.00	25	475.20	E6 00
5600.00	8.38	56.09	5591.44 5690.33	97.80	145.48	175.30	.35	175.30 190.18	56.09
5700.00	8.73	56.09 56.00		106.10	157.83	190.18	.35		56.09
5800.00	9.08	56.09	5789.12	114.74	170.68	205.67	.35	205.67	56.09
5900.00	9.43	56.09	5887.82	123.72	184.03	221.75	.35	221.75	56.09
6000.00	9.78	56.09	5986.42	133.03	197.89	238.44	.35	238.44	56.09
6100.00	10.13	56.09	6084.91	142.68	212.23	255.73	.35	255.73	56.09
6200.00	10.48	56.09	6183.30	152.66	227.08	273.62	.35	273.62	56.09
6300.00	10.43	56.09	6281.57	162.97	242.43	292.11	.35	292.11	56.09
6400.00	11.18	56.09	6379.73	173.62	258.27	311.20	.35	311.20	56.09
6500.00	11.53	56.09	6477.78	184.61	230.27 274.61	330.89	.35 .35	330.89	56.09
0500.00	11.55	56.09	0477.70	104.01	214.01	330.03	.33	330.03	36.09
6600.00	11.88	56.09	6575.70	195.92	291.44	351.18	.35	351.18	56.09
6700,00	12.23	56.09	6673.49	207.57	308,77	372.06	.35	372.06	56.09
6800.00	12.58	56.09	6771.16	219.56	326.60	393.54	.35	393.54	56.09
) w/400' V.S							
6829.56	12.68	56.09	6800.00	223.16	331.96	400.00	.35	400.00	56.09
6859.56	13.58	56.09	6829.22	226.96	337.62	406.81	3.00	406.81	56.09
6889,56	14.48	56.09	6858.32	231.02	343.65	414.09	3.00	414.09	56.09
6919.56	15.38	56.09	6887.31	235.33	350.07	421.81	3.00	421.81	56.09
6949.56	16.28	56.09	6916.17	239.90	356.86	430.00	3.00	430.00	56.09
00.000	, , , , ,						0.00	,,,,,,,	
6979.56	17.18	56.09	6944.90	244.72	364.02	438.63	3.00	438.63	56.09
7009.56	18.08	56.09	6973.49	249.79	371.57	447.72	3.00	447.72	56.09
7039.56	18.98	56.09	7001.93	255.10	379.48	457.25	3.00	457.25	56.09
7069.56	19.88	56.09	7030.22	260.67	387.76	467.23	3.00	467.23	56.09
EOB w/2	0.2° inc. @	7079' MD/7	'039' TVD						
7078.84	20.16	56.09	7038.94	262.45	390.40	470.41	3.00	470.41	56.09
7178.84	20.16	56.09	7132.82	281.67	419.00	504.87	.00	504.87	56.09
7278.84	20.16	56.09	7226.69	300.90	447.60	539.34	.00	539.34	56.09
7378.84	20.16	56.09	7320.57	320.13	476.20	573.80	.00	573.80	56.09
7478.84	20.16	56.09	7414.44	339.35	504.80	608.26	.00	608.26	56.09
7578.84	20.16	56.09	7508.32	358.58	533.40	642.72	.00	642.72	56.09
7678.84	20.16	56.09	7602.19	377.81	562.00	677.18	.00	677.18	56.09
7778.84	20.16	56.09	7696.06	397.04	590.60	711.65	.00	711.65	56.09
7878.84	20.16	56.09	7789.94	416.26	619.20	746.11	.00	746.11	56.09
7978.84	20.16	56.09	7883.81	435.49	647.80	780.57	.00	780.57	56.09
9079.04	20.40	E6 00	7077.00	4E 4 70	670.40	945.00	00	945.00	EC 00
8078.84	20.16	56.09 56.00	7977.69	454.72 473.04	676.40	815.03	.00	815.03	56.09
8178.84 8278 84	20.16	56.09	8071.56 8165.43	473.94 493.17	705.00	849.50	.00	849.50	56.09
8278.84	20.16	56.09	8165.43	493.17	733.60	883.96	.00	883.96	56.09

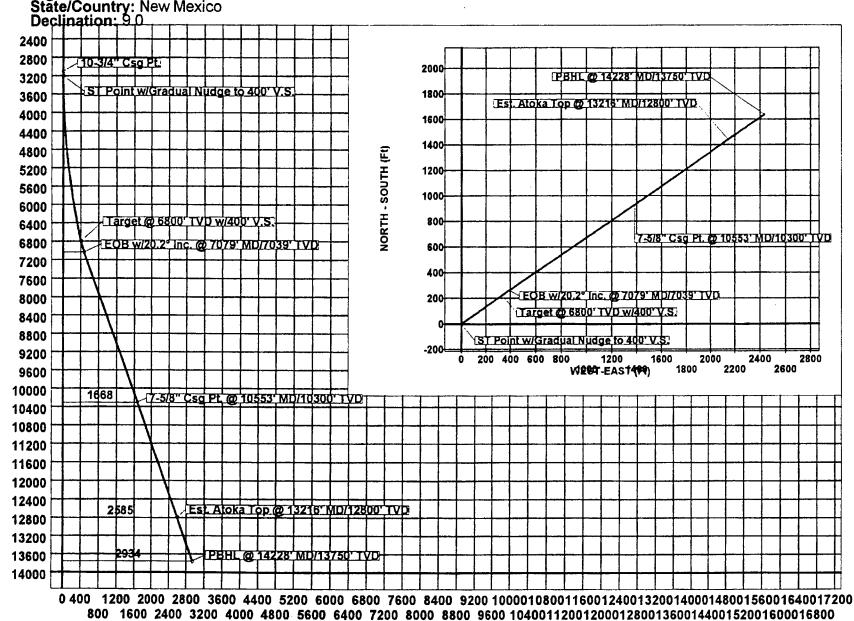
Measured	Incl	Drift Dianatian	True Vertical	N-S	E-W	Vertical	Dogleg	_	S U R E Direction
Depth FT	Angle Deg	Direction Deg	Vertical Depth	14-5 FT	E-VV FT	Section FT	Severity Deg/100	Distance FT	Direction
			8259.31	512.40	762.19	918.42	.00	918.42	56.09
8378.84	20.16	56.09 56.09		512.40 531.63	762.19 790.79	910.42 952.88	.00	910.42 952.88	56.09
8478.84	20.16		8353.18	550.85		95∠.00 987.34		952.66 987.34	56.09
8578.84	20.16	56.09 56.09	8447.06	570.08	819.39 847.99	967.3 4 1021.81	.00. .00	1021.81	56.09
8678.84	20.16 20.16	56.09 56.09	8540.93 8634.81	570.06 589.31	876.59	1021.01	.00	1021.01	56.09 56.09
8778.84	20.10	30.09	0034.01	308.31	070.59	1036.27	.00	1030.27	30.09
8878.84	20.16	56.09	8728.68	608.54	905.19	1090.73	.00	1090.73	56.09
8978.84	20.16	56.09	8822.55	627.76	933.79	1125.19	.00	1125.19	56.09
9078.84	20.16	56.09	8916.43	646.99	962.39	1159.65	.00	1159.65	56.09
9178.84	20.16	56.09	9010.30	666.22	990.99	1194.12	.00	1194.12	56.09
9278.84	20.16	56.09	9104.18	685.44	1019.59	1228.58	.00	1228.58	56.0 9
9378.84	20.16	56.09	9198.05	704.67	1048.19	1263.04	.00	1263.04	56.09
9478.84	20.16	56.09	9291.92	723.90	1076.79	1297.50	.00	1297.50	56.09
9578.84	20.16	56.09	9385.80	743.13	1105.39	1331.97	.00	1331.97	56.09
9678.84	20.16	56.09	9479.67	762.35	1133.99	1366.43	.00	1366.43	56.09
9778.84	20.16	56.09	9573.55	781.58	1162.59	1400.89	.00	1400.89	56.09
0079 04	20.46	56.09	0667.40	800.81	4404.40	1435.35	00	1435.35	56.09
9878.84	20.16	-	9667.42		1191.19	1469.81	.00	1435.35	
9978.84	20.16	56.09	9761.30	820.04	1219.79		.00		56.09
10078.84	20.16	56.09	9855.17	839.26	1248.39	1504.28	.00	1504.28	56.09
10178.84	20.16	56.09	9949.04	858.49	1276.99	1538.74	.00	1538.74	56.09
10278.84	20.16	56.09	10042.92	877.72	1305.59	1573.20	.00	1573.20	56.09
10378.84	20.16	56.09	10136.79	896.94	1334.19	1607.66	.00	1607.66	56.09
10478.84	20.16	56.09	10230.67	916.17	1362.79	1642.13	.00	1642.13	56.09
		553' MD/10							
10552.70	20.16	56.09	10300.00	930.37	1383.92	1667.58	.00	1667.58	56.09
10578.84	20.16	56.09	10324.54	935.40	1391.39	1676,59	.00	1676.59	56.09
10678.84	20.16	56.09	10418.41	954.63	1419.99	1711. 05	.00	1711.05	56.09
10778.84	20.16	56.09	10512.29	973.85	1448.59	1745.51	.00	1745.51	56.09
10878.84	20.16	56.09	10606.16	993.08	1477.19	1779.97	.00	1779.97	56.09
10070.04	20.10	30.00	10000.10	000.00	1477.10	1775.57	.00	1770.07	30.03
10978.84	20.16	56.09	10700.04	1012.31	1505.79	1814.44	.00	1814.44	56.09
11078.84	20.16	56.09	10793.91	1031.54	1534.39	1848.90	.00	1848.90	56.09
11178.84	20.16	56.09	10887.79	1050.76	1562.99	1883.36	.00	1883.36	56.09
11278.84	20.16	56.09	10981.66	1069.99	1591.59	1917.82	.00	1917.82	56.09
11378.84	20.16	56.09	11075.53	1089.22	1620.19	1952.28	.00	1952.28	56.09
11478.84	20.16	56.09	11169.41	1108.44	1648.79	1986.75	.00	1986.75	56.09
11578.84	20.16	56.09	11263.28	1127.67	1677.39	2021.21	.00	2021.21	56.09
11678.84	20.16	56.09	11357.16	1146.90	1705.99	2055.67	.00.	2055.67	56.09
11778.84	20.16	56.09	11451.03	1166.13	1734.59	2090.13	.00	2090.13	56.09
11878.84	20.16	56.09	11544.90	1185.35	1763.19	2124.60	.00	2124.60	56.09
44679.04	20.46	EE 00	14620 70	1004.60	1704 70	2450.00	00	2450.00	E6 00
11978.84	20.16	56.09 56.00	11638.78	1204.58	1791.79	2159.06	.00	2159.06	56.09
12078.84	20.16	56.09	11732.65	1223.81	1820.39	2193.52	.00	2193.52	56.09
12178.84	20.16	56.09	11826.53	1243.04	1848.99	2227.98	.00	2227.98	56.09
12278.84	20.16	56.09	11920.40	1262.26	1877.59	2262.44	.00	2262.44	56.09

Measured	incl	Drift	True			Vertical	Dogleg	CLO	SURE
Depth	Angle	Direction	Vertical	N-S	E-W	Section	Severity	Distance	Direction
FT	Deg	Deg	Depth	FT	FT	FT	Deg/100	FT	Deg
12378.84	20.16	56.09	12014.28	1281.49	1906.19	2296.91	.00	2296.91	56.09
12478.84	20.16	56.09	12108.15	1300.72	1934.79	2331.37	.00	2331.37	56.09
12578.84	20.16	56.09	12202.02	1319.94	1963.39	2365.83	.00	2365.83	56.09
12678.84	20.16	56.09	12295.90	1339.17	1991.99	2400.29	.00	2400.29	56.09
12778.84	20.16	56.09	12389.77	1358.40	2020.59	2434.76	.00	2434.76	56.09
12878.84	20.16	56.09	12483.65	1377.63	2049.19	2469.22	.00	2469.22	56.09
12978.84	20.16	56.09	12577.52	1396.85	2077.79	2503.68	.00	2503.68	56.09
13078.84	20.16	56.09	12671.39	1416.08	2106.39	2538.14	.00	2538.14	56.09
13178,84	20.16	56.09	12765.27	1435.31	2134.99	2572.60	.00	2572.60	56.09
Est. Atoka	a Top @ 1	3216' MD/1	2800' TVD						
13215.83	20.16	56.09	12800.00	1442.42	2145.57	2585.35	.00	2585.35	56.09
13278.84	20.16	56.09	12859.14	1454.54	2163.59	2607.07	.00	2607.07	56.09
13378.84	20.16	56.09	12953.02	1473.76	2192.19	2641.53	.00	2641.53	56.0 9
13478.84	20.16	56.0 9	13046.89	1492.99	2220.79	2675.99	.00	2675.99	56.09
13578.84	20.16	56.09	13140.77	1512.22	2249.39	2710.45	.00	2710.45	56.09
13678.84	20.16	56.09	13234.64	1531.44	2277.99	2744.91	.00	2744,91	56.09
13778.84	20.16	56.09	13328.51	1550.67	2306.59	2779.38	.00	2779.38	56.09
13878.84	20.16	56.09	13422.39	1569.90	2335,19	2813.84	.00	2813.84	56.09
13978.84	20.16	56.09	13516.26	1589.13	2363.79	2848.30	.00	2848.30	56.09
14078.84	20.16	56.09	13610.14	1608.35	2392.39	2882.76	.00	2882.76	56.09
14178.84	20.16	56.09	13704.01	1627.58	2420.99	2917.23	00	2917.23	56.09
PBHL@1	4228' MD	/13750' TV	D						
14227.83	20.16	56.09	13750.00	1637.00	2435.00	2934.11	.00	2934.11	56.09

Company: MURCHISON OIL & GAS, INC. Lease/Well: Nash #53
Location: Eddy County
Rig Name: N/A
State/Country: New Mexico
Declination: 9.0

Grid: 1.8





^{°--} Nash # 53 (ST @ 3200')

TRUE VERTICAL DEPTH (Ft)

Patterson Drilling Company

Rlg #18

14,500'

DRAWWORKS

Drewstor N-46

Brake: V00 Double Parmac Twin Disc Torque Converter

ENGINES

Two Catorpillar 3400 Dlosels, 475 HP oa

DERRICK

Pyramid 136', 000,000# Rated Capacity

SUBSTRUCTURE

Pyramid 10', 800,000// Solback Capacity KB - 19', Rotary Clearance - 15'

MUD PUMPS

Pump #1: Idoco 700 w/Cat 379
Pump #2: Drowstor U-750 w/Cat 379

DRILL STRING

4-1/2" Grado E. Now, 20// Drill Pipo

6-1/2" Now Drill Collars

Other sizes of drill pipe and drill collars are

available

BLOWOUT PREVENTERS:

13 5/0" 5,000// Ram/Ram/Annular Shaffer St

MUD SYSTEM

Shalo pit, 560 bbls, suction pit, 560 bbls, 5 subpuns, 2 electric mud stirrers, 2 mud mixing pumps (6x8 contribugal), two 70 HP electric motors, double screen high-speed vibrating shalo shaker

MUD HOUSE

Nono

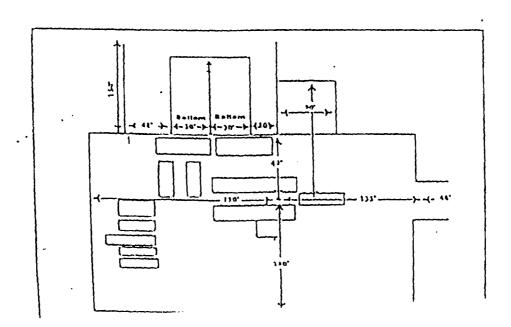
COMMUNICATIONS

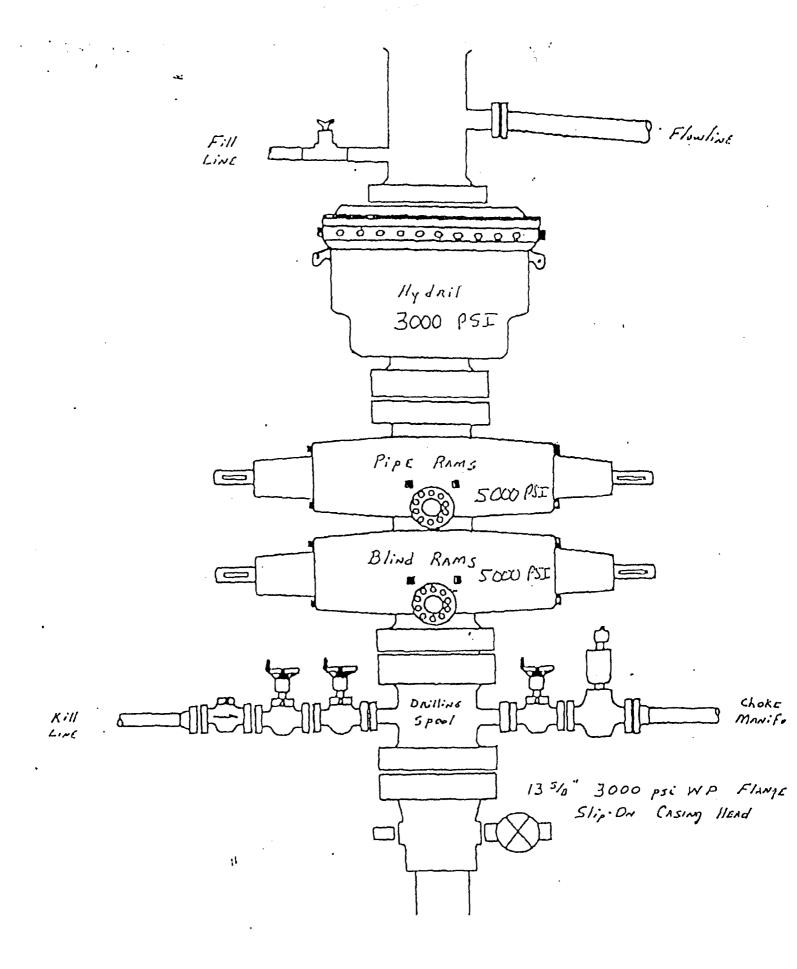
24 hour direct collular telephone

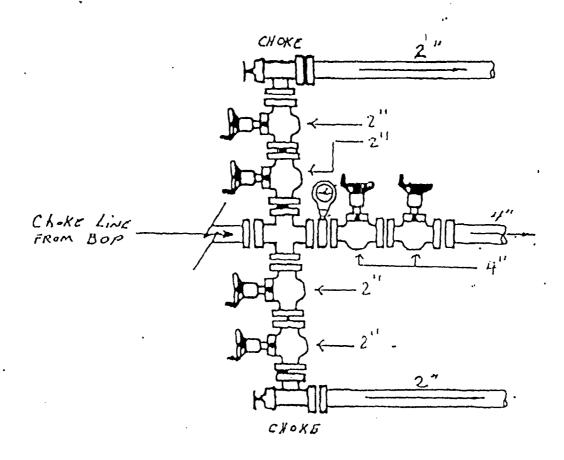
OTHER EQUIPMENT

Blocks. Gardner Denver 300 Ten Hook. Gardner Denver 300 Ten Swivel. 7 SX Browster 300 Ten Relary Table. Gardner Denver 27 1/2" Electrical Power. Two 275 kW Generalors w/3408 Cal Fresh Water Storage. 1000 bbls Housing.

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



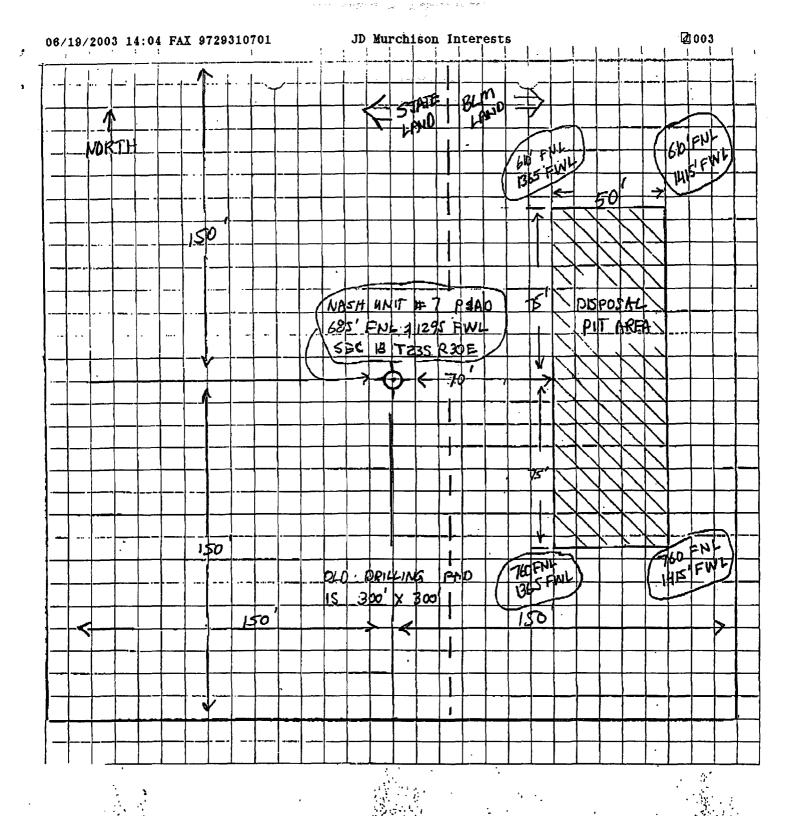




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DEPARTMENT OF THE INTERIOR DEPARTMENT OF	,	\smile	o dro		_	,	
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for propagate to differ or in figheriter any 2003 shandoned well. Use Form 3160-2 (APD) for such geoponales (MI) CONTROL OF SURFACE COMPANY AND ADDRESS OF SUR	Form 3160-5 (September 2001)	DEPARTMENT OF THE INTI	OCD-	232425262	OMB No. 1004-0135 Expires January 31, 2004		
Do not use this form for proposals to dryl or to proposals and will be a provided by the proposals of the pr	CHADE		/ 'V	★ ~	! \		
Type of Well One	SUNDA Do not use th	us form for proposals to dril	i or to reenter a	2003 M			
Supplementary Supplementar	abandoned we	all. Use Form 3160-3 (APD) fo	r such proposals	SUM ZUUU	8	1000 m 87104 1 mr/m	
Name of Operator Name of Ope	ngainannagaagaga kinnagaga			A PROPERTY OF STREET		Anneemen Name and/or No.	
Name of Operator Name of Ope	SUBMITINAR	IPLICATE + Other instructi	ons on reversit.	uder) - ;	// I Office Ora	Secondic tame mount tan-	
2. Name of Operator MURCRISON OIL & GAS, INC. 3a. Address 1100 MTRA VISTA BLVD. 3b. Phone No. (includer area code) PLANO. TX. 75.933-66.98 9. ARI Well No. PLANO. TX. 75.933-66.98 10. Field of Protego. Sec. 7. R. M. or Survey Description) SEC. 12, T23S, R29E At surface 1663' FSL & 2185' FWL At proposed prod. zone 1980' FNL & 660' FEL UNIT R 12. CHECK APPROPRIATS BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF SUBMISSION TYPE OF SUBMISSION Acidize Aler Casing Protect Type Acidize Aler Casing Protect Type Complete Report Complete Operation (Secretary Sec. 12, T23S) Acidize Complete Operation (Secretary Sec. 12, T23S) Blood Absorbount Notice Complete Operation (Secretary Sec. 12, T23S) Complete Operation of Indicated Operation (Secretary Sec. 12, T23S) Aler Date of Intern Discribe Proposed or Completed Operation (Secretary Sec. 12, T23S) Complete Operation of Completed Operation (Secretary Sec. 12, T23S) Complete Operation of Completed Operation (Secretary Sec. 12, T23S) Describe Proposed or Completed Operation (Secretary Sec. 12, T23S) Describe Proposed or Completed Operation (Secretary Sec. 12, T23S) Describe Proposed or Completed Operation (Secretary Sec. 12, T23S) Describe Proposed or Completed Operation (Secretary Sec. 12, T23S) Describe Proposed or Completed Operation (Secretary Sec. 12, T23S) Describe Proposed or Completed Operation (Sec. 12, T23S) Describe Proposed or Completed Operation of Sec. 12, T23S) Protect Operation Operation of Sec. 12, T23S (Sec. 13, T23S) Describe Proposed or Completed Operation Operation Operation Operation Operation Operation Operation			₹.	£,			
2. Name of Operator MURCRISON OIL & GAS, INC. 3a. Address 1100 MTRA VISTA BLVD. 3b. Phone No. (includer area code) PLANO. TX. 75.933-66.98 9. ARI Well No. PLANO. TX. 75.933-66.98 10. Field of Protego. Sec. 7. R. M. or Survey Description) SEC. 12, T23S, R29E At surface 1663' FSL & 2185' FWL At proposed prod. zone 1980' FNL & 660' FEL UNIT R 12. CHECK APPROPRIATS BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF SUBMISSION TYPE OF SUBMISSION Acidize Aler Casing Protect Type Acidize Aler Casing Protect Type Complete Report Complete Operation (Secretary Sec. 12, T23S) Acidize Complete Operation (Secretary Sec. 12, T23S) Blood Absorbount Notice Complete Operation (Secretary Sec. 12, T23S) Complete Operation of Indicated Operation (Secretary Sec. 12, T23S) Aler Date of Intern Discribe Proposed or Completed Operation (Secretary Sec. 12, T23S) Complete Operation of Completed Operation (Secretary Sec. 12, T23S) Complete Operation of Completed Operation (Secretary Sec. 12, T23S) Describe Proposed or Completed Operation (Secretary Sec. 12, T23S) Describe Proposed or Completed Operation (Secretary Sec. 12, T23S) Describe Proposed or Completed Operation (Secretary Sec. 12, T23S) Describe Proposed or Completed Operation (Secretary Sec. 12, T23S) Describe Proposed or Completed Operation (Secretary Sec. 12, T23S) Describe Proposed or Completed Operation (Sec. 12, T23S) Describe Proposed or Completed Operation of Sec. 12, T23S) Protect Operation Operation of Sec. 12, T23S (Sec. 13, T23S) Describe Proposed or Completed Operation Operation Operation Operation Operation Operation Operation	Oil Well Of Gas Well C	Other	511	10			
30-015-32548 30-0		PON ATT F CAP THE		32036			
PIANO TX. 15093-6698 (972) 931-0700			h Phone No Gachele	area codel			
At surface 1663' FSL & 2185' FWL At proposed prod. zone 1980' FNL & 660' FEL UNIT H EDDY CO., NM. 12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF SUBMISSION TYPE OF ACTION Notice of Internt Aler Casing Repair Aler Casing Repair Aler Casing Repair Ping and Abandous Treat Completed Operation (direct) rate of Ping Sack Water Structor Treat Describe Proposed or Campleted Operation (direct) rate of Ping Sack Water Structor Treat Describe Proposed or Campleted Operation (direct) rate of Describe Ping Sack Water Structor Treat Describe Proposed or Campleted Operation (direct) rate of Describe Ping Sack Water Structor Alexand on Only Proposed water which the work will be performed or provide the Boan No. on file with StM/MUL- Required value and approximate duration thereof. Alta the Bond under which the work will be performed or provide the Boan No. on file with StM/MUL- Required value work and approximate duration thereof. Alta the Bond under which the work will be performed or provide the Boan No. on file with StM/MUL- Required value work and approximate duration thereof. Alta the Bond under which the work will be performed or provide the Boan No. on file with StM/MUL- Required value work and approximate duration thereof. Alta the Bond under which the work will be performed or provide the Boan No. on file with StM/MUL- Required value work and approximate duration thereof. Alta the Bond under which the work will be performed or provide the Boan No. on file with StM/MUL- Required value work and approximate duration thereof the StM/MUL- Required value work and approximate duration thereof. Alta the Bond under which the work will be performed or provide the Boan No. on file with StM/MUL- Required value work and approximate duration thereof. Pursuant to the Approved of file independent of the StM/MUL- Required value work and approximate file of the side is ready for file disposal pit will be constructed entirely on BLM land and within the area designated. Appr			·				
At proposed prod. zone 1980' FNL & 660' FEL UNIT B EDDY CO., NM. 12. CRECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF SUBMISSION TYPE OF ACTION Acidize Deepen Production (StarViceume) Water Shut-Off	4. Location of Well (Footage, Sec.	, T., R. M., or Survey Description) SF	C. 12, T23S	, R29E	NASH D	RAW	
TYPE OF SUBMISSION Acidize Decyce Producting (Star/Renume) Water Shad-Off	At surface 16	63' FSL & 2185' FWL			11. County or Pa	rish, State	
TYPE OF SURMISSION Acidize Deepen Production (Start/Rexume) Water Shot-Off Well Integrity Well	At proposed prod	. zone 1980' FNL 8	660' FEL	UNIT H	EDDY C	0., NM.	
Notice of Intent	. 12. CHECK AT	PROPRIATE BOX(ES) TO IN	IDICATE NATUR	LE OF NOTICE, RI	EPORT, OR OT	HER DATA	
Motice of Intent	TYPE OF SUBMISSION		TYI	PE OF ACTION		· ·	
Motice of Intent		D Acidize . D	Decren	Production (Start	/Renime) D	Water Shut-Off	
Casing Repair	XX Notice of Intent		•		· ·		
Final Abandoursent Notice Chearge Pleas Pleas and Abandoon Tempopararily Abandoon DISEOSAL PIT FOR	Cubrament Report	Casing Repair	New Construction	Recomplete	23	Other CONSTRUCT A	
13. Describe Proposed or Completed Operation (elearly state all persinent details, including estimated starting dute of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and grave-serial depths of all pertinent residers and zones. Attach the Bond water which the work will be performed or provide the Band No. on file with EUMBLA. Required publication for the involved operations. If the operation results in a multiple completion is a per interval, a form 3160-4 shall the filed once testing that been complete. First Absorbancement Nations shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the size is ready for final imprection.) Pursuant to the Approved drilling plan dated 11/29/02, Murchison Oil & Gas, Inc. intends to construct a disposal pit for wellbore cuttings as stipulated on the old drilling pad for the Nash Unit #7 located 685' FNL & 1295' FWL, Sec. 18, T23S, R30E, the old pad is partially on BLM land and State land. The disposal pit will be constructed entirely on BLM land and writhin the boundaries of the old drilling pad. Please refer to the attached diagram. The size of the disposal pit will not be as large as the area shown but will be located within the area designated. The disposal pit will be lined and reclaimed as stipulated. Verbal approval has been granted by Berry Hunt. Construction will begin on 6/19/03. 14. Thereby certify that the foregoing is que and correct Name (Printed/Pyped) MICHAEL S. DAUGHERTY Date 6/18/03: Title VICE PRESIDENT OPERATIONS Signature Machael of the start of the start of the subject lease which would enable they be operations thereon.	a Sunacipalis (report	Change Plans	Plug and Abandon	Temporarily Ab	andon	DISPOSAL PIT FOR	
If the proposal is to deepen directionally or recomplete horizontally, give subsurface beautings and measured and true vertical depths of all perfinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BL/MSI required subsurgators reports shall be filled which is down following completion of the involved operations. If the operation results in a multiple completion in a new interval, a Form 3160-4 shall be filled only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.) Pursuant to the Approved drilling plan dated 11/29/02, Murchison Oil & Gas, Inc. intends to construct a disposal pit for wellbore cuttings as stipulated on the old drilling pad for the Nash Unit #7 located 685' FNL & 1295' FWL, Sec. 18, T23S, R30E, the old pad is partially on BLM land and State land. The disposal pit will be constructed entirely on BLM land and within the boundaries of the old drilling pad. Please refer to the attached diagram. The size of the disposal pit will not be as large as the area shown but will be located within the area designated. The disposal pit will be lined and reclaimed as stipulated. Verbal approval has been granted by Berry Hunt. Construction will begin on 6/19/03. 14. Threeby certify that the foregoing is true and correct Name (PrintedTyped) MICHAEL S. DAUGHERTY Title VICE PRESIDENT OPERATIONS Signature Date 6/18/03: Title VICE PRESIDENT OPERATIONS Date 19 JUN 2003 Conditions of approval, if any, are situated by Approval to these rights in the subject lease which would critibe the applicant hold begal or certificity that the applicant hold begal or certificity in the subject lease or other prints of these rights in the subject lease which would critibe the applicant hold begal or certificity in the subject lease or these rights in the subject lease or the certification thereon.	Final Abandonment Notice	Convert to Injection	Plug Back	Water Disposal		DRILL CUTTINGS	
MICHAEL S. DAUGHERTY Signature Date 6/18/03	following completion of the investing has been completed. For determined that the site is ready Pursuant to to construct Nash Unit # partially on BLM land ar diagram. The located with stipulated.	wolved operations. If the operation reprint Abandonment Notices shall be fill to final inspection.) the Approved drilling plated a disposal pit for wellbor for located 685' FNL & BLM land and State lared within the boundaries the size of the disposal pain the area designated	alts in a multiple comp and only after all required in dated 11/29, re cuttings as s 1295' FWL, S and. The dispos of the old drill bit will not be a . The dispos	/02, Murchison stipulated on the Sec. 18, T238, sal pit will be sing pad. Pleas as the all pit will be ling pad. be ling pad. be ling pad. be ling pad.	hanew interval, a maxima, have been of the constructed se refer to the area shown ined and re-	Form 3160-4 shall be filed once completed, and the operator has inc. intends pad for the old pad is entirely on se attached but will be claimed as	
MICHAEL S. DAUGHERTY Signature MICHAEL S. DAUGHERTY Date 6/18/03: Approved by Conditions of approval, if any, are stinched. Approval of this notice does not wanted or certify that the applicant holds legal or entitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Title VICE PRESIDENT OPERATIONS 6/18/03: FIJELD MANAGER Dute 1 9 JUN 2003 CARLSBAD FIELD OFFICE Which would entitle the applicant to conduct operations thereon.		ng is true and correct	· 1		·	,	
Approved by Conditions of approval, if any, are salached Approved of the subject lease which would entitle the applicant to conduct operations thereon. Date 6/18/03: HIELD MANAGER Date 1 9 JUN 2003 CARLSBAD FIELD OFFICE which would entitle the applicant to conduct operations thereon.	, ,,	ERTY	Title	VICE PRESIN	ENT OPERAT	TONS	
Approved by Conditions of approval, if any, are stinched Approval of this hotter does not warrant or certify that the applicant holds legal or captured by the the applicant to conduct operations thereon. STRICE POR REDERACION STRICE PORTE OF THE DEPARTMENT OF TH	w/	1111 8-1		VIOD I RUSID	DIVI OF EXAL	1003	
Approved by Conditions of approval, if any, are stinched Approval of the active does not warrant or certify that the applicant holds legal or equivalent to those rights in the subject lease which would entitle the applicant to conduct operations thereon. HIELD MANAGER Dute 1 9 JUN 2003 CARLSBAD FIELD OFFICE	Signature // West	VI/augherly	Date	6/18/03: ·			
Approved by Conditions of approval, if any, are stinched Approval of the active does not warrant or certify that the applicant holds legal or equivalent to those rights in the subject lease which would entitle the applicant to conduct operations thereon. HIELD MANAGER Dute 1 9 JUN 2003 CARLSBAD FIELD OFFICE		A THE STREET	FEDERALIONS	ATE OFFICE USE			
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable tills to those rights in the subject lease which would entitle the applicant to conduct operations thereon. CARLSBAD FIELD OFFICE				ICT IN RAANI	AGER	1 Q IHN 2003	
	Conditions of approval, if any, are	attached Approved of the access do all or equipable title to those rights in conduct operations thereon	es not warrant or				
				nowingly and willfully	to make to any dep	artment or agency of the United	

(Instructions on reverse)



Murchison Oil & Gas, Inc.
Attachment to Form 3160-5 dated 6/18/03
Nash Unit #53
Eddy Co., NM.

22324.25				•	·
7222324252623 Form 3160-5		Oil (Cons.		·
Form 3160-5			V-Dist. 2	. Ton	M APPROVED
Form 3160-5 (September 2001) JUN 2003	UNITED STATES BEFARTMENT OF THE I	rmabΩn3 1 \A/ Cı	V-DISL Z		No. 1004-0135
# JUN 2003 P	RURPATI OF LAND MANA	GEMENW	and Avenu		January 31, 2004
RECEIVED	EUREAU OF LAND MANA THOTICES AND REPO	Artesia, P	NM 88210		NM 14140 BHL
OCD participate thi	s form for proposals to	RISON WELLS	,		59-A SHL
abandoned we	H./ Use Form 3160-3 (APD) for such proposals.	Ì	6. If Indian, Allot	tee or I noe Name
	/				
₹ SUBMITIÑ TRI	PLICATE - Other instru	ictions on reverse s	ide	7. If Unit or CA/	Agreement, Name and/or No.
				NASH U	TTT
1. Type of Well)		•		
Oil Well Cas Well C	Other	·		8. Well Name an	
2. Name of Operator MURCHTS	SON OIL & GAS, INC	C.	•	9. API Well No.	NIT #53
3a. Address 1100 MIRA VI		3b. Phone No. (include	orea code)	30-015	-32548
PLANO, TX.		(972) 931-(, or Exploratory Area
4. Location of Well (Footage, Sec.,	T., R., M., or Survey Description	SEC. 12, T23S	R29E	NASH D	· ·
	63' FSL & 2185' F			11. County or Par	ish, State
A	10001 707		73.4 Mary		
At proposed prod			JNIT H	<u> </u>	O., NM.
12. CHECK AP	PROPRIATE BOX(ES) TO	O INDICATE NATUR	E OF NOTICE, R	eport, or ot	HER DATA
TYPE OF SUBMISSION		TY	E OF ACTION		
	☐ Acidize	O Deepen	Production (Start	/Resume)	Water State Off
Notice of Intent	Alter Casing	G Fracture Treat	Cl Reclamation		Water Shut-Off Well Integrity
	Casing Repair	New Construction	C) Recomplete		- · -
XX Subsequent Report	Change Plans	Plug and Abandon	Ci Recomplete Ci Temporarily Ab		Other SPUD WELL
Final Abandonment Notice	Convert to Injection	Plug Back	Water Disposal	andon	RUN SURFACE CASING
T I mat Month Common a common	Convert to injection	CI Flug Dack	Ct Mater Disbosat		& CEMENT
Attach the Bond under which the following completion of the inv	etionally or recomplete horizonta the work will be performed or pro- olved operations. If the operation and Abandonment Notices shall if for final inspection.)	ovide the Bond No. on file was results in a multiple comp	vith BLM/BIA. Requi	red subsequent repo- in a new interval, a	rts shall be filed within 30 days Form 3160-4 shall be filed once
				•	
Spud well @ 1	19:00 HRS 6/13/03 a	nd drill 20" hole	to 420'. Ran	10 jts. of 16"	75#/FT J-55
BUTT casing	to a depth of 420.	Cemented w/ 52	0 SX Class "C	" + 2% Ca	C1 + 1/4 #/SX
	Circulate 100 SXS to				
	lown at 19:00 HR. 6				
	ople up 21-1/4" Hydr				
out cement. I	est casing and hydrill	to 1000 PSI. Res	ume drilling 14	1-3/4" open n	ole.
	•	•			•
	•				•
	•				
14. I hereby certify that the foregoi	ne is true and correct				
Name (Printed/Typed)	P is due film contact.	ĺ			
MICHAEL S. PAUGH	ERATY /	Title	VICE PRESID	ENT OPERAT	IONS
Signature Warana	Markinta	Date	6/18/03		CCEPTED FOR RECOR
	HHIS SPACE	FOR FEDERAL ORS			
	Market Market Company of the Company	T			11111 0 2 2000
Approved by			lle '	Date	JUN 2 3 2003
Conditions of approval, if any, are certify that the applicant holds leg	nttached. Approval of this noti al or equitable title to those rie!	ce does not warrant or his in the subject lease	· · · · · · · · · · · · · · · · · · ·	Γ	aci

which would entitle the applicant to conduct operations thereon.

Office

ALEXIS C. SWOBODA

PETROL SUM ENCINEER

States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Oil Cons. N.M. DIV-Dist. 2

2003 RECSUNDR RECSUND		ITERI AITIOS JEMENT RTS ON WEI drill or to re- of for such pro	LS enter an posals.	38210 5. 6.	FORM APPROVED OMB No. 1004-0135 Expires January 31, 2004 Lease Serial No. NM 14140 NM 0556859-A SHL If Indian, Allottee or Tribe Name If Unit or CA/Agreement, Name an NASH UNIT	
2. Name of Operator	1 Other		· · · · · · · · · · · · · · · · · · ·	· 8	. Well Name and No. NASH UNIT #53	
MURCHI	SON OIL & GAS, INC				. API Well No.	
3a. Address 1100 MIRA V	ISTA BLVD. 75093-4698	1	finclude area cod	. —	30-015-32548 0. Field and Pool, or Exploratory Are	2
4. Location of Well (Footage, Sec	., T., R., M., or Survey Description,	SEC. 12,	T23S, R29		NASH DRAW	
At surface 16	63' FSL & 2185' FV	NL .		1	1. County or Parish, State	
At proposed prod	. zone 1980' FNI	& 660' 1	EL UNIT	н	EDDY CO., NM.	
12. CHECK A	PPROPRIATE BOX(ES) TO	INDICATE I	vature of 1	NOTICE, REP	ORT, OR OTHER DATA	
Type of Submission			TYPE OF A	CTION_	·	
Notice of Intent Subsequent Report	Acidize Alter Casing Casing Repair Change Plans	Deepen Fracture Tre New Constr Plug and Ab	at C Rescriction C Re	oduction (Start/Reclamation complete mporarily Aband	Well Integrity Other RUN CA	
G Final Abandonment Notice	Convert to Injection	Plug Back		ater Disposal	on <u>& CEMENT</u>	 -
If the proposal is to deepen dit Attach the Bond under which following completion of the in testing has been completed. I determined that the site is read	ectionally or recomplete horizontal the work will be performed or provolved operations. If the operation in the control of the operation in the control of t	lly, give subsurfac vide the Bond No a results in a mult be filed only after	e locations and me on file with BLM ple completion or all requirements,	easured and true v A/BIA. Required recompletion in a including reclama	proposed work and approximate dural critical depths of all pertinent marken subsequent reports shall be filed wit new interval, a Form 3160-4 shall b tion, have been completed, and the o	s and zones. hin 30 days c filed once
Drill a 14-3/4" he	ole from 420' to a depth of Guide Shoe	3120'. Ran	74 jts of 10-3/	4" casing as 1 1'	follows:	
	1 Jt 10-3/4" 45.5 #	/FT P-1	10 Butt	43'		
	1 Float Collar			1'		
	4 Jts 10-3/4" 45.5 # 11 Jts 10-3/4" 45.5 #			165 ' 465'	•	
	58 Jts 10-3/4" 45.5 #			2465'	•	
"C" + 2% CaCL2 Weld on casing h	 Circulated 450 SX to su 	rface. Bumpe OP and 5000 I	ed plug and flo PSI Hydrill an	oats held. WO d manifold. H	ce followed w/ 200 SX Class OC and nipple down Hydrill. Rig up top drive and drill out le.	
14. I hereby certify that the forego	ing is true and correct	•				
Name (Printed/Typed) MICHAEL S. DAUG	HERTY 🗸 / 4	}	Tide vice	ישמדסשום ק	NT OPERATIONS	
Signature Michael	Maucherly		Date	. 6/30/0	ACCEPTED FOR	RECOR
		ORFEDERA	ORSTATE	DEFICE USEN		
Approved by			Title		Date JUL 2	2003
Conditions of approval, if any, a	e attached. Approval of this noting gal or equitable title to those right to conduct operations thereon.	ce does not warre	nt or		ALEXIS C. SW	OCA OBODA

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Oil Cons. N.M. DIV-Dist. 2 1301 W. Grand Avenue om 3160-5 UNITED STATES FORM APPROVED DEPARTMENT OF THE INTERIOR ARTESIA, NM 88210 (September 2001) 2003 OMB No. 1004-0135 Expires January 31, 2004 RECEIVED BUREAU OF LAND MANAGEMENT 5. Lease Serial No. NM 14140 BHL OCD ARTE SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to re-enter an NM 0556859-A SHL 6. If Indian, Allottee or Tribe Name abandoned well. Use Form 3160-3 (APD) for such proposals. 7. If Unit of CA/Agreement, Name and/or No. SUBMIT IN TRIPLICATE - Other instructions on reverse side NASH UNIT Type of Well Well Name and No. Oil Well Di Gas Well Other Name of Operator NASH UNIT #53 API Well No. MURCHISON OIL & GAS, INC 3n. Address 1100 MIRA VISTA BLVD. 3b. Phone No. (include area code) 30-015-32548 (972) 931-0700 10. Field and Pool, or Exploratory Area PLANO, TX. 75093-4698 Location of Well (Footage, Sec., T., R., M., or Survey Description) SEC. 12, T23S, R29E NASH DRAW 1663' FSL & 2185' FWL 11. County or Parish, State At surface 1980' FNL & 660' FEL At proposed prod. zone UNIT H EDDY CO., NM. 12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF ACTION TYPE OF SUBMISSION ☐ Acidize Deepen Production (Start/Resume) Water Shut-Off Notice of Intent Alter Casing Fracture Treat C Reclamation Well Integrity Casing Repair New Construction Recomplete Other RUN CASING Subsequent Report Change Plans Plug and Abandon Temporarily Abandon CEMENT ☐ Final Abandonment Notice Convert to Injection Plug Back Water Disposal 13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleted in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Alamanment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the rice is ready for final inspection. determined that the site is ready for fund inspection.) Drill a 14-3/4" hole from 420' to a depth of 3120'. Ran 74 its of 10-3/4" casing as follows: Guide Shoe 1' 1 Jt 10-3/4" 45.5 #/FT 43' P-110 Butt Float Collar 1' 10-3/4" 4 Its 45.5 #/FT P-110 Butt 165' 11 Jts 10-3/4" 45.5 #/FT N-80 Butt 465 58 Jts 10-3/4" 45.5 #/FT J-55 **Butt** 2465' 3140' Set casing @ 3120'. Cemented w/ 1825 SX 35:65 + 2% CaCL2 + 1/4 #/SX Celloflake followed w/ 200 SX Class "C" + 2% CaCL2. Circulated 450 SX to surface. Bumped plug and floats held. WOC and nipple down Hydrill.

Weld on casing head. Nipple up 10,000 BOP and 5000 PSI Hydrill and manifold. Rig up top drive and drill out cement. WOC total of 48 Hrs. Test casing to 1000 PSI. Resume drilling 9-7/8" hole.

14. I hereby certify that the foregoing is true and correct Name (Printed/Typed)						==
MICHAEL S. DAUGHERTY	Tide VI	CE PRESIDENT OF	PERAT	IONS		
Signature Michael / / / / / / / / / / / / / / / / / / /	Date	. 6/30/03	AC	CEPTED	FOR RE	CORD
THE PROPERTY OF THE PROPERTY O	L'OR STATE	OFFICEUSE				7
Approved by	Title		Date	JUL	2 2003	=
Conditions of approval, if any, are attached. Approval of this notice does not warr certify that the applicant holds legal or equitable title to those rights in the subject which would entitle the applicant to conduct operations thereon.	ant or lease Office			ALEXIS C.	SWOBOD	
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for a States any false, lictitious or fraudulent statements or representations as to any matter	ny person knowi Within its jurisdic	ngly and willfully to make to	any dep	artment or age	ncy of the Unit	

Oil Cons. N.M. DIV-Dist. 2 1301 W. Grand Avenue FORM APPROVE

Form \$263,456789 UNITED STATES 130	1 W. Grand Avenue FORM APPROVED
Spliember 2001) DEPARTMENT OF THE INTERIOR	rtesia, NM 88210 OMB No. 1004-0135 Expires January 31, 2004
BUREAU OF LAND MANAGEMENT	5. Lease Serial No. NM 14140 BHL
AUG 2003 SUNDRY NOTICES AND REPORTS ON WELLS	NM 0556859-A SHL
BUREAU OF LAND MANAGEMENT AUG 2003 SUNDRY NOTICES AND REPORTS ON WELLS RECEIVED not use this form for proposals to drill or to re-ente OCD ARTESIA SUBMIT IN TRIPLICATE Other instructions on rever	6. If Indian, Allottee or Tribe Name
SUBMIT IN TRIPLICATE Other instructions on rever	Se S/de 7. If Unit or CA/Agreement, Name and/or No.
1. The or well C	NASH UNIT
Oil Well Cas Well Other	8. Well Name and No.
2. Name of Operator MURCHISON OIL & GAS, INC.	NASH UNIT #53
3a. Address 1100 MIRA VISTA BLVD. 3b. Phone No. fine	· · · · · · · · · · · · · · · · · · ·
PLANO, TX, 75093-4698 (972) 93	
4. Location of Well (Faotage, Sec., T., R., M., or Survey Description) SEC. 12, T2 At surface 1663' FSL & 2185' FWL	3S, R29E NASH DRAW 11. County or Parish, State
At proposed prod. zone 1980' FNL & 660' FEI	
12. CHECK APPROPRIATE BOX(ES) TO INDICATE NA	
TYPE OF SUBMISSION	TYPE OF ACTION
☐ Acidize ☐ Deepen	Production (Start/Resume) Water Shut-Off
☐ Notice of Intent ☐ Alter Casing ☐ Fracture Treat	Reclamation Well Integrity
Subsequent Report Casing Repair New Construction	KON CASING
Change Plans Plug and Abando Final Abandonment Notice Convert to Injection Plug Back	
☐ Final Abandonment Notice ☐ Convert to Injection ☐ Plug Back 13. Describe Proposed or Completed Operation (clearly state all pertinent details, including	U Water Disposal
Attach the Bond under which the work will be performed or provide the Bond No. on following completion of the involved operations. If the operation results in a multiple testing has been completed. Final Abandonment Notices shall be filed only after all a determined that the site is ready for final inspection.) Drill a 9-7/8" hole from 3120' to a depth of 10820'. Ran 256 jts of the state of	equirements, including reclamation, have been completed, and the operator i
Float Shoe	1'
1 Jt 7-5/8" 39 #/FTP-110 Butt 1 Float Collar	42' ACCEPTED FOR RECORD
52 Jts 7-5/8" 39 #/FTP-110 Butt	2263'
83 Jts 7-5/8" 39 #/FTN-80 Butt 15 Jts 7-5/8" 33.7 #/FT S-95 Butt	3480' 558' AUG - 5 2003
1 DV Tool	2'
22 Jts 7-5/8" 33.7 #/FTS-95 Butt 83 Jts 7-5/8" 33.7 #/FTP-110 Butt	899' 3474' ALEXIS C. SWOBODA
	10820' PETROLEUM ENGINEER
Set casing @ 10820'. Cemented w/ 850 SX 50:50:10 + 3% SMS Plug down and circulate 164 SX to pit off DV tool. WOC and circulate SMS followed w/ 100 SX "C" Neat. Circulate 11 SX to pit	rculate DV tool. Cement w/ 513 SX 50:50:10 + 5% Salt + t. Plug down. Nipple down, set slips, cut off 7-5/8" csg.
Nipple up tbg. head and test to 5000 PSI. WOC total of 56 Hrs.	Test casing to 2500 PSI. Resume drilling 6-1/2" hole.
14. I hereby certify that the foregoing is true and correct Name (Printed/Typed)	
MICHAEL S. DAUGHERTY Title	VICE PRESIDENT OPERATIONS
Signature Muchaell/augherty Date	7/29/03
	RSTATE OF THE STATE OF THE STAT
/ / THISSPACE FOR FEDERALIO	
Approved by	Title Date
	Title Date

Oil Cons.

5189101112	•		. Grand Avent	ue .
Form 3460-5 September 2001	UNITED STATES DEPARTMENT OF THE IN	Artesia ITERIOR	a, NM 88210	FORM APPROVED OMB No. 1004-0135 Expires January 31, 2004
SECULIES SUNDA	BUREAU OF LAND MANACY Y NOTICES AND REPOF is form for proposals to a lil. Use Form 3160-3 (APD)		er an	5. Lease Serial No. NM 14140 BHL NM 0556859-A SHL 6. If Indian, Allottee or Tribe Name
4	se francisco de la companya de la c			7. If Unit or CA/Agreement, Name and/or No.
	IPLICATE - Other instru	ciions onnever	363/0E	NASH UNIT
1. Type of Well Oil Well Of Gas Well	Other			8. Well Name and No.
2. Name of Operator				NASH UNIT #53
MURCHIS 3a. Address 1100 MIRA V	SON OIL & GAS, INC	3b. Phone No. (incl	lude area code)	9. API Well No. 30-015-32548
PLANO, TX.	75093-4698	(972) 93	1-0700	10. Field and Pool, or Exploratory Area
4. Location of Well (Foolage, Sec.	, T., R., M., or Survey Description)	-	3S, R29E	NASH DRAW
At surface 160	63' FSL & 2185' FW			11. County or Parish, State
At proposed prod				EDDY CO., NM.
12. CHECK AP	PROPRIATE BOX(ES) TO	INDICATE NAT	TURE OF NOTICE, RI	EPORT, OR OTHER DATA
TYPE OF SUBMISSION			TYPE OF ACTION	
Notice of Intent Subsequent Report Final Abandonment Notice	Alter Casing Casing Repair Change Plans	Deepen Fracture Treat New Construction Plug and Abando Plug Back		Well Integrity Other RUN
If the proposal is to deepen dire Attach the Bond under which the	ectionally or recomplete horizontal he work will be performed or prov	ly, give subsurface loc vide the Bond No. on	cations and measured and true file with BLM/BIA. Require	ny proposed work and approximate duration thereof, the vertical depths of all pertinent markers and zones, and subsequent reports shall be filed within 30 days
testing has been completed. Fi determined that the site is ready	inal Abandonment Notices shall be for final inspection.)	e filed only after all n	equirements, including recla	in a new interval, a Form 3160-4 shall be filed once mation, have been completed, and the operator has
	e to a measured depth Sec. 12, T23S, R29E. F		tring and run 5-1/2"	m hole location is 2048' FNL liner as follows: Length
вотто		Guide Shoe	•	2'
	1 JT	23 #/FTP-110 Float Collar) FL4S	35' 1'
	93 JTS	23 #/FTP-110	0 FL4S	3790'
TOP:		Liner Hanger	& Packer	27'
hanger and pac circulate hole.	cker set had full returns	during cementing to liner top. Di	ng. Bumped plug, find not find cement (. Displaced with mud. Liner float held. Pull 10 stands and @ liner top. Circulate hole w/ 8/13/03.
14. I hereby certify that the foregoi Name (Printed/Typed)	ing is true and correct	1		
MICHAEL S. DAUGH	IERTY / ; /	Title	VICE PRESID	DENT_OPERATIONS
Signature Michael	1/1/ Trusterly	Date		ACCEPTED
	i / III yalesiyada	OR FEDERAL DI	RSTATE OFFICE USE	
Approved by			Title :	SEP - 4 2003
Conditions of approval, if any, are certify that the applicant holds leg which would entitle the applicant to	gal or equitable title to those righ	e does not warrant or its in the subject lease	Office	ALEXIS C. SWOBODA

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United-States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Form 3160-4 (August 1999)

Oil Cons. UNITED STATES DEPARTMENT OF THE INTERIGOUND W. Grand Avenue BUREAU OF LAND MANAGEMENT Artesia, NM 88210

FORM APPROVED OMB NO. 1004-0137 Expires: November 30, 2000

	WEI	LL C	OMP	LETIO	n or re	COMPLE	ETION F	REPORT	AND	LOG					NM 14140 BHL 59-A SHL
la. Type o	f Well	ПС	ii Wall	Γ X G	as Well	Dry Od	her								or Tribe Name
	of Completi					ork Over		n 🔾 Piu	g Back	Diff. I	Resvr.	- 1		,	
U. 1780				ther			•		•		-,		7. Uni	t or CA Agree	ment Name and No.
2. Name	of Operator	•												NASH U	
M	URCHIS	SON	OIL	& GA	s, INC)	OGRID	#0153	63			} ;		se Name and \	
					A BLVD. 3a. Phone No. (include area code)									SH UNIT	¥53
					93-469			(972) 93	1-0700]		-015-32!	540 Q1
4. Locati						cordance with	Federal re					1		d and Pool, or	
At sur	fore	1 6 6 9	ot m	CT C	21051	T21 T7			_		<i></i>	1		SH DRAW	
At sui	ince	100.	3 · F	SL &	2185 '	rwL			۲	RECEIV	/EL	' 1	I. Sec	., T., R., M., o	n Block and
At top	prod. inter	val rep	ported t	oclow					1	NOV 2.6	2003		Sur	vey or Area	SEC. 12,T23S;R2
		205	6' F	NL &	692' F	EL U	UNIT H	[1		unty or Parish	13. State
	ai depin									D-AR	[ES			DDY	NM
14. Date S	Spudded			15. Date	T.D. Reach	ied		16. Date C		1 A Ready to	Prod	1	7. Ble	vations (DF, R	KB, RT, GL)*
6/1	3/03			8	3/13/03	}	1	- D	wa A	- May K		.	GL	=2986	KDB=3013
18. Total	Depth: M	D	143	68	19. P	lug Back T.D	.: MD	14015	;	20. Depti	Bridg	ge Piug Se	t: N	1D 140	30.
	T	VD	139	04			TVD	13560)			_		VD 145	75
21. Type F	Electric & C	Other I	Mechan	iical Logs	Run (Subm	it copy of eac	:h)	MSFL						Yes (Subi	
COMP	NSATE	יא ר	משוום	ית/ זאט	שידיטאי	GR DI		TERLO	<u>.</u>					☐ Yes (Subrr lo 🙀 Yes (S	
					ings set in w		UAL LA	TERLO	7	Differ	CHOIM	Survey.		y Xa Test.	suotini copy)
	1						Stage	Cementer	No. o	f Sks. &	Slu	ny Vol.	C	ent Top*	Amount Bolland
Hole Size	Size/Gra	ide	WL (#	/fl.) T	op (MD)	Bottom (M		Depth	Турс	of Coment		BBL)	Cen	Amount Pulled	
20	16"J	-55	75	St	JRFACE	421	0		520	"C"		79	SURF	ACE	
14-3/4	10-3/	4J-	5545	.5 St	JRFACE	3120		2025 35:65 700					SURF	ACE	
					SURFACE	1082	0 44	72	1663	50:50		636	SURF	ACE	
6 - 1/2	5-1/2	P11	0 23	11)512	1436	7	 	345	H		_74	TC	L	
	<u> </u>					<u> </u>			<u> </u>				l		·
24. Tubin		C-4 (VECT	D1 D	at (MD)	Ci	I Danis	Cat (MD)	D. Jan I	Devil (MD)		C:-	T 5-		D. J. D. J. (MD)
Size 2-7/	Depth	580		1358	epth (MD)	Size	Depu	i Set (MD)	Packer	Depth (MD)	 	Size	De	pth Set (MD)	Packer Depth (MD)
25. Produ				1330	30 1		26.	Perforation	n Record		<u> </u>				<u> </u>
23. 11000	Formation			1 1	Гор	Bottom		Perforated			Size	No.	Holes	F	Perf. Status
A) MC	DRROW				590	13977		3690-9			/8"	(OP	
B)				 -= - `	-	2000				<u> </u>	,		<u> </u>	1	
C)														 	
D)															
	Fractur e , T		ent, Cer	nent Sque	eze, Etc.										
	Depth Inter			1						nd Type of N					
136	590-13	977		FRAC	3 W/62	2 K 20-	40 INI	ERPROI	? & 2	6K GAL	FO	AM II	I TO	N CO2 7	98 MCF N2
				+		 									
				+				·····							
28. Produ	ction - Inter	val A		<u> </u>											
Date First	Test	Houn	N T	est	Oil	Gas	Water	Oil Grav		Gas		Production	Method		
Produced 11/05	Date 11/05	Teste		roduction	BBL	мсғ 579	88L 56	Corr. Al		Gravity		Dr Ats	7370		
Choke		Cxg.		4 Hr.	Oil	Gas I	₩ater	Gas : Oi	/ <u>A</u>	.62 Well State	<u></u>	FLOW	TNG		
Size	Tbg. Press.	Press	s. R	Late	BBL	MCF	BBL	Katio		ì			AC	CEPTED	FOR RECORD
3/4"	si 40	0			0	579	56	N,	<u>/ A</u>	WAI	TIN	G ON	PIPE	LINE	
28a. Produ	Test	rval B Houn		est	Loit	Gar	Water	0:10:	.ie	Gen		.	36-41		
Produced	Date	Teste		roduction	Oil BBL	Gas MCF	BBL BBL	Oil Grav Corr. Al	ANY PI	Gas Gravity		Production	wethod	NOV	2 5 2003
	1		-	<u>-></u>	<u> </u>	<u> </u>					{			,,	- 5 - 500
Choke Size	Tbg. Press.	Cag. Press		4 Hr. Late	Oil BBL	Gas MCF	Water BBL	Gass: Oi Ratio	1	Well State	ns			A1 5345 5	
	Flwg. SI		-	→						1.	•	l	ī		S. SWOBODA JM ENGINEER
(See instru	ctions and	paces	for ad	ditional d	ala on rever	se side)				- 1				LINOLEU	WI FIAGUACELZ

Date First	Test	Hours	Test	Oii	Gas	Water	Oil Gravity	Gas	Production Method		
Produced	Date	Tested	Production		MCF	BBL	Corr. API	Gravity			
Choke Size	Tog. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status			
28c. Produc											
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method		
Choke Size	Tbg. Press.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	<u> </u>	·	
29. Dispos	SI ition of Ga	s (Sold, use	ed for fuel, v	ented, etc.)				<u> </u>			
20 Summ	ary of Porc	me Zance (Include Aqu	uifers):				21 Format	ion (Log) Markers	·	
Show tests, i	all imports	ant zones e	of porosity a	und contents	thereof: me tool o	Cored interv pen, flowing	als and all drill-ster and shut-in pressure	n	ion (cog/mancis		
Forma	ation	Тор	Bottom		Desc	riptions, Con	lents, etc.	Name Meas			
STRAWN	1	12458	12471	SAN	D			LAMAR 314			
ATOKA ATOKA	SAND	12830 13046 13067		LIM SAN SAN	D			DELAW DELAW	DELAWARE BELL C. 31 DELAWARE CHERRY C. 42 DELAWARE BRUSHY C. 52 BONE SPRING 52 3rd BONE SPRING 69 WOLFCAMP 102 STRAWN 122 ATOKA BANK 128		
ORROW:	1	13529		SAN				3rd F WOLFO STRAW			
ORROW		13690		SAN				ATOKA			
IORROW	SAND	14045	14191	SAN	ט			MORRO)W	13419	
32. Additi	onal remari	cs (include	plugging pr	ocedure):			**************************************		·····		
-	etrical/Mec	hanical Log	gs (1 full set ng and ceme	req'd.) ent verificatio		Geologic Rep Core Analysis		eport 4. !	Directional Survey		
34.1 hereby	certify the	nt the foreg	oing and att	ached inform	ation is c	omplete and	correct as determine	d from all availa	ble records (see attached instru	ctions)*	
Name	(please pri	10 M	ICHAEL	S. DAU	GHERT	ŢY	TitleV	ICE PRES	IDENT OPERATIONS		
	1.	. A	1 6 1	f j	<i>!</i>						

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 12/2, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Submit in duplicate to appropriate district office. See Rule 401 & Rule 1122

State of New Mexico

RECEIVED

Form C-122 Revised October, 1999

Energy Minerals and Natural Resources Oil Conservation Division

2040 South Pacheco Santa Fe, NM 87505

OCD-ARTESIA

30-015-32548 MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL MURCHISON OIL & GAS, INC. Lease or Unit Name **NASH UNIT** Operator Type Test Well No. Test Date ☑ Initial 🔲 Annuai Special 11-21-03 Completion Date Unit Ltr - Sec - TWP - Rge Total Depth Plug Back TD Elevation 11-05-03 14367 14015 2986 GL K 12 23 29 Csg. Size Wı. Perforations: Sei Ai County 5 1/2 23 4.67 14367 13690 13997 **EDDY** From: To: Perforations: The Size W١ Pool Set At 2 7/8 2.441 13582 From: **OPEN ENDED** NASH DRAW MORROW 6.5 To: Type Well-Single-Bradenhead-G.G. or G.O. Multiple Packer Set At Formation **SINGLE** 13582 **MORROW** Producing Thru Reservoir Temp. F Baro. Press.-P. Connection Mean Annual Temp. F **DUKE ENERGY** 188.8 @ 13582 TBG 13.2 **%CO**2 %N₂ %ឣ៹ៜ Prover Meter Run Gg Taps 13582 13582 0.688 N/A N/A 3.068 **FLG** TUBING DATA CASING DATA FLOW DATA Duration rover Orifice Press Press Diff. Press Temp. Temp. Temp. of Line No. p.s.i.g. p.s.i.g. p.s.i.g. Flow °F Size Size ٥F œ **PKR** 16 DAYS 3963 SI 3 X 1.625 50 87 3850 1 HR 7.3 1 X 50 73 1 HR 3 1.625 21.7 3639 2 . 3 X 1.625 53 45.8 65 3372 1HR 3 63 63 1HR 4 3 X 1.625 110.5 2625 5 RATE OF FLOW CALCULATIONS Rate of Flow Super Compress Pressure COEFFICIENT Flow Temp. No. Factor F pv Q. Mcfd h"P" Pm Gravity Factor (24 Hour) Factor Ft. 369 1 643 2 977 **METERED** BY TOTAL **FLOW METER** 3 1,581 4 5 P, T, **DRY GAS** Temp. °R Z Gas Liquid Hydrocarbon Ratio Mcf bbl. No. DRY A.P. I. Gravity of Liquid Hydrocarbons Deg. 2 0.688 XXXXXXX Specific Gravity Separator Gas N/A XXXXX 3 Specific Gravity Flowing Fluid 669 P.S.I.A. 4 Critical Pressure P.S.I.A. 669 385 385 5 Critical Temperature R 3976.2 15810.2 Pc P.2 P, 2 P_w P_w^2 $P_c^2 - P_w^2$ No. 1.793 1.457 (1) 14926.5 3863.5 883.7 1 3653.1 13345 2 2465.3 3387.3 11473.9 3 4336.3 2.303 AOF = O2644.6 6994.1 8816.1 4 $P_c^2 - P_w^2$ 5 79825 2,303 Absolute Open Flow Mcfd @ 15.025 Angle of Slope (): 57.2 Slope n: 0.644 Remarks WELL PRODUCED NO FLUID DURING TEST Approved By Division: Conducted By: Checked By: Calculated By:

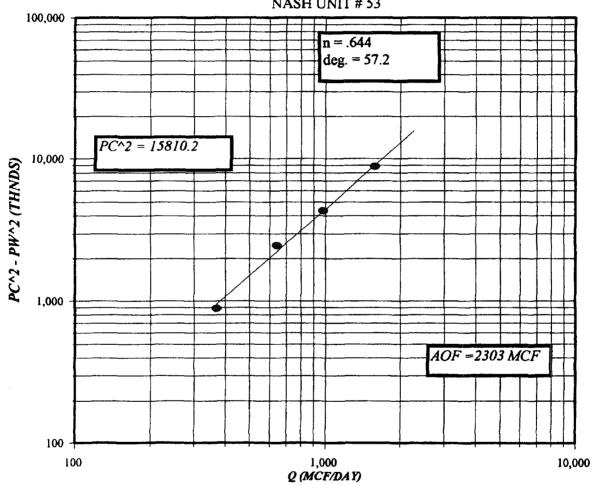
BM

BM

JARREL SERVICES, INC.

MURCHISON OIL & GAS

NASH UNIT # 53



	UNIT L \$CO2	: 13582 : 2.441	H N2 Fr	SECTION: 13582: :0.010763	: 12 L/H H2S GII	: 1 : 9344.4	-	: 23 : 0.688 Date Range	:11-21-03	Pt2 = *******	Pc2 = Pw =	15810.2 * 3863.5 * 3653.1 * 3387.3 * 2644.6 *
	VOL 1 VOL 2 VOL 3 VOL 4	: 643 : 977	PSIA 2 PSIA 3	: 3863.2 : 3652.2 : 3385.2 : 2638.2			RESV.TEMP Shut-in pr			Pc2-Pw2= 883.7 2465.2 4336.3 8816.1	Pw2 =	14926.5 * 13345.0 * 11473.9 * 6994.1 *
				PCR TCR					1	n =	0.644	* (
	LINE	RATE 1	i i	RATE 2		RATE 3	! !	RATE 4		Pc2/(Pc2-Pw2) =	17.891 6.413 3.646	*
~		`15T	2ND	`IST	``2ND	`1ST	2ND	'IST	`2ND	1	1.793	*!! *!!
1 2 3	QN TW Ts	0.369 534 648.8	0.369	0.643	534	534	,		534	[[Pc2/Pc2-Pw2]n =		* i ! ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;
4	T PR (est)	591.4 5.77	 	5.46	591.4	591.4 5.06	İ	591.4 3.94	591.4	 	3.310 2.300 1.457	# 1 1 1 2 1 3 1
5 6 7	Z(est) TZ GH/TZ	0.841 497.2 18.796	0.908 536.7 17.409			478.1			0.801 473.7 19.728	AOF= Q	2.364 2.128	*!;
8 9 10	eS 1-e-S Pt	2.024 0.506 3863.2	1.921 0.479	2.050 0.512	1.950	2.081 0.520	1.989 0.497	2.146 0.534	2.096 0.523	 	2.248 2.303	*
	Pt2 /1000 Fr	14924.3 0.010763	14924.3 0.010763	13338.6	13338.6	11459.6	11459.6 0.010763	6960.1 0.010763	6960.1 0.0107631			* i i * ! i ! i * i i
13 14 15	Fc=PrTZ FcQm L/H(FcQm)	1.97	2.13		3.63	5.03	5.36			Ì		* [
16 17	Fw Pw2	1.971981 14926.3	2.178710 14926.5	5.847196 13344.4	6.421174	13.12945 11472.7	14.27844	32.56989 6992.7	33.962781 6994.1	 		*!!
18 19 20			5354.8	5230.0	5101.9	4886.5	22821.5 4777.2 4081.2	3873.6	3828.3	1		# # # # # # # # # #
21 22 23		6.99 1.54 0.908	6.89 1.54	6.64	6.54	6.18	6.10	4.87 1.54	4.83	; 	ORN C122-	# } } # }



Job Number: MDR-3116

Company: MURCHISON OIL & GAS, INC.

Lease/Well: Nash #53 **Location: Eddy County**

Rig Name: Big Dog #11

RKB: 3013'

G.L. or M.S.L.: 2986'

State/Country: New Mexico

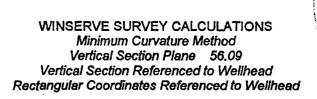
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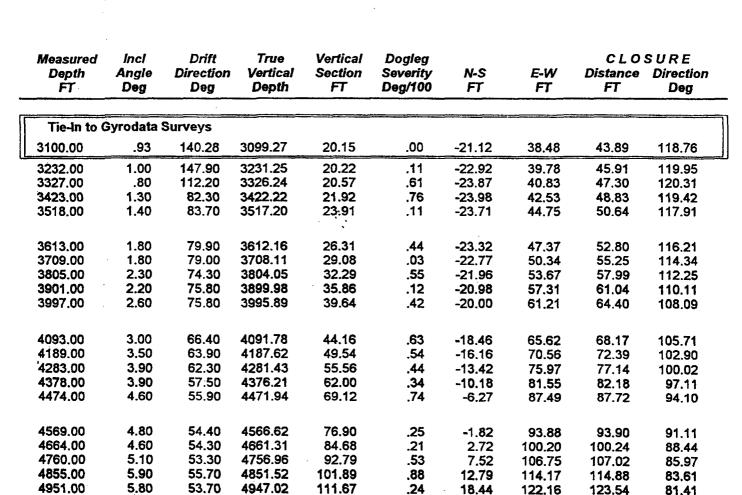
Grid: -0.2100

File name: C:\PROPOS~1\2003\03090'S\03-090\03-090R1.SV\

Date/Time: 17-Sep-03 / 10:09

Curve Name: DDC As-Drilled Nash #53





18.44

122.16

123.54

81.41

	Measured Depth FT	inci Angle Deg	Drift Direction Deg	True Vertical Depth	Vertical Section FT	Dogleg Severity Deg/100	N-S FT	E-W FT	C L O S Distance FT	SURE Direction Deg
	5047.00	6.60	55.10	5042.46	122.03	.85	24.47	130.59	132.86	79.39
	5141.00	6.40	54.00	5135.86	132.67	.25	30.64	139.26	142.59	77.59
	5235.00	6.70	53.70	5229.24	143.38	.32	36.97	147.92	152.47	75.97
	5330.00	7.20	55.50	5323.54	154.87	.57	43.62	157.29	163.23	74.50
	5426.00	7.50	57.40	5418.76	167.15	.40	50.40	167.53	174.94	73.25
	5521.00	7.90	58.20	5512.90	179.87	.44	57.19	178.30	187.24	72.22
	5616.00	8.30	57.10	5606.95	193.25	.45	64.35	189.60	200.23	71.25
	5712.00	8.20	57.40	5701.96	207.03	.11	71.80	201.19	213.62	70.36
	5807.00	8.80	57.40	5795.91	221.07	.63	79.37	213.02	227.32	69.57
	5902.00	9.60	57.90	5889.69	236.25	.85	87.49	225.85	242.21	68.82
(5997.00	10.10	57.00	5983.29	252.49	.55	96.24	239.55	258.16	68.11
	6092.00	10.60	56.20	6076.74	269.56	.55	105.64	253.79	274.90	67.40
	6188.00	11.10	54.80	6171.03	287.63	.59	115.88	268.68	292.60	66.67
	6283.00	11.90	54.00	6264.12	306.56	.86	126.90	284.08	311.14	65.93
	6378.00	12.40	53.30	6356.99	326.54	.55	138.76	300.18	330.70	65.19
(6474.00	13.20	52.70	6450.61	347.77	.84	151.56	317.17	351.52	64.46
	6567.00	13.90	52.00	6541.02	369.52	.77	164.87	334.41	372.85	63.76
	6662.00	14.20	52.40	6633.17	392.53	.33	179.01	352.64	395.47	63.09
	6757.00	14.50	53.70	6725.21	416.04	.46	193.16	371.46	418.67	62.53
	6852.00	14.60	53.30	6817.16	439.88	.15	207.35	390.64	442.26	62.04
	6947.00	15.10	54.00	6908.99	464.20	.56	221.78	410.25	466.36	61.60
	7043.00	17.10	56.50	7001.22	490.82	2.20	236.92	432.14	492.83	61.27
	7138.00	18.90	57.70	7091.57	520.16	1.93	252.85	456.79	522.11	61.03
	7233.00	20.00	57.30	7181.15	551.79	1.17	269.85	483.47	553.68	60.83
	7328.00	21.10	56.30	7270.10	585.13	1.22	288.12	511.37	586.95	60.60
,	7423.00	21.60	54.60	7358.58	619.71 .	.84	307.74	539.85	621.40	60.32
	7519.00	21.10	53.30	7447.99	654.64 `	.72	328.30	568.11	656.14	59.98
	7614.00	21.70	54.60	7536.44	689.27	.81	348.69	596.13	690.62	59.68
	7709.00	20.30	54.00	7625.13	723.30	1.49	368.55	623.78	724.53	59.42
	7804.00	21.00	53.10	7714.03	756.77	.81	388.46	650.73	757.86	59.16
	7899.00	20.80	51.90	7802.78	790.59	.50	409.09	677.62	791.53	58.88
	7995.00	21.50	52.40	7892.31	825.15	.75	430.34	704.97	825.94	58.60
	8088.00	22.30	54.60	7978.60	859.79	1.23	450.96	732.85	860.49	58.39
	8184.00	22.30	54.00	8067.42	896.20	.24	472.22	762.44	896.83	58.23
	8277.00	21.50	53.60	8153.71	930.86	.88	492.70	790.43	931.41	58.06
	8373.00	20.90	54.50	8243.21	965.55	.71	513.09	818.53	966.05	57.92
	8468.00	18.40	54.60	8332.67	997.49	2.63	531.61	844.55	997.94	57.81
	8563.00	20.00	54.90	8422.38	1028.72	1.69	549.64	870.06	1029.13	57.72
	8657.00	21.20	55.60	8510.37	1061.79	1.30	568.49	897.24	1062.18	57.64
	8752.00	21.70	55.60	8598.79	1096.53	.53	588.12	925.91	1096.90	57.58
	8847.00	22.20	56.2 0	8686.91	1132.04	.58	608.02	955.31	1132.39	57.52

	Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	Vertical Section FT	Dogleg Severity Deg/100	N-S FT	E-W FT	C L O S Distance FT	SURE Direction Deg
	0040.00									
	8942.00	21.70	56.80	8775.02	1167.55	.58	627.62	984.92	1167.90	57.49
	9038.00	23.10	55.60	8863.77	1204.13	1.53	647.98	1015.31	1204.47	57.45 57.44
	9133.00	22.60	56.10	8951.32	1241.02	.56	668.69	1045.84	1241.34	57.41
	9228.00	22.50	55.60	9039.06	1277.45	.23	689.14	1075.99	1277.76	57.36
	9323.00	22.10	56.0 0	9126.95	1313.49	.45	709.41	1105.80	1313.80	57.32
	9419.00	22.70	54.50	9215.71	1350.07	.86	730.26	1135.86	1350.35	57.26
	9514.00	21.40	56.50	9303.76	1385.73	1.58	750.20	1165.23	1385.99	57.22
	9609.00	21.60	55.80	9392.15	1420.54	.34	769.87	1194.15	1420.81	57.19
	9704.00	22.60	57.00	9480.17	1456.28	1.15	789.64	1223.92	1456.54	57.1 9 57.17
	9799.00	22.50	57.90	9567.90	1492.70	.38	809.24	1254.63	1492.97	57.18
	9894.00	22.20	57.50	9655.77	1528.81	.35	828.54	1285.16	1529.09	57.19
	9989.00	22.90	56.80	9743.50	1565.24	.79	848.31	1315.77	1565.53	57.19
	10085.00	22.80	56.30	9831.97	1602.51	.23	868.86	1346.87	1602.80	57.17
	10180.00	22.60	56.40	9919.61	1639.18	.21	889.17	1377.39	1639.46	57.16
	10274.00	22.20	56.4 0	10006.52	1675.00	.43	908.99	1407.23	1675.28	57.14 57.14
	10274.00	22.20	30.40	10000.52	1075.00	.40	300.33	1407.20	1075.20	37.14
	10369.00	22.90	54.5 0	10094.26	1711.42	1.06	929.66	1437.22	1711.69	57.10
	10465.00	23.00	53.90	10182.66	1748.83	.27	951.56	1467.58	1749.07	57.04
	10560.00	22.20	53.80	10270.36	1785.31	.84	973.09	1497.06	1785.53	56.98
	10655.00	23.30	53.70	10357.97	1822.02	1.16	994.81	1526.69	1822.21	56.91
	10775.00	23.00	54.30	10468.31	1869.16	.32	1022.55	1564.85	1869.32	56.84
							,			
-	Casing Po	oint								
	10820.00	22.36	56.59	10509.83	1886.51	2.42	1032.39	1579.14	1886.66	56.82
L	10854.00	21.90	58.40	10541.32	1899.31	2.42	1039.27	1589.94	1899.47	56.83
	10917.00	22.50	57.80	10599.65	1923.10	1.02	1053.27	1610.15	1923.27	56.84
	11010.00	24.90	56.20	10684.80	1960.47	2.67	1072.23	1641.48	1960.64	56.85
	11104.00	23.00	54.80	10770.71	1998.62	2.07 2.11	1072.23	1672.93	1998.79	56.82
	11104.00	25.00	34.00	10770.71	1990.02	2,11	1095.05	1012.93	1990.19	30.62
	11198.00	23.00	53.90	10857.24	2035.34	.37	1115.23	1702.78	2035.48	56.78
	11290.00	21.90	54.30	10942.26	2070.45	1.21	1135.84	1731.23	2070.58	56.73
	11383.00	23.80	53.20	11027.96	2106.53	2.09	1157.20	1760.35	2106.64	56.68
	11476.00	22.40		11113.50	2142.97	1.51	1179.01	1789.60	2143.06	56.62
	11569.00	21.10		11199.88	2177.41	1.63	1199.05	1817.62	2177.49	56.59
										33.33
	11663.00	20.60	57.20	11287.72	2210.86	.83	1217.59	1845.47	2210.95	56.58
	11755.00	20.00	58.20	11374.01	2242.77	.75	1234.65	1872.44	2242.86	56.60
	11847.00	19.20	58.00	11460.68	2273.61	.87	1250.96	1898.64	2273.71	56.62
	11940.00	16.90	57.10	11549.10	2302.41	2.49	1266.41	1922.96	2302.52	56.63
	12035.00	15.30	55.90	11640.37	2328.76	1.72	1280.94	1944.94	2328.86	56.63
							,			
	12128.00	16.70	59.70	11729.77	2354.36	1.88	1294.56	1966.64	2354.47	56.64
	12221.00	15.40	65.10	11819.14	2379.90	· 2.13	1306.50	1989.38	2380.03	56.71
	12314.00	13.80	58.7 0	11909.14	2403.18	2.44	1317.46	2010.06	2403.34	56.76
	12408.00	15.60	53.20	12000.07	2427.00	2.42	1330.86	2029.76	2427.16	56.75
	12501.00	15.00	50.90	12089.77	2451.48	.92	1345.94	2049.11	2451.62	56.70

Page 3
DDC As-Drilled Nash #53 File: C:\PROPOS~1\2003\03090'S\03-090\03-090R1.SVY

Measured	Incl	Drift	True	Vertical	Dogleg	N C	IT 14/		BURE
Depth FT	Angle Deg	Direction Deg	Vertical Depth	Section FT	Severity Deg/100	N-S FT	E-W FT	Distance FT	Direction Deg
12595.00	14.50	48.30	12180.67	2475.25	.88	1361.44	2067.34	2475.36	56.63
12688.00	15.60	45.50	12270.48	2499.08	1.42	1377.95	2084.95	2499.16	56.54
12781.00	14.40	45.30	12360.31	2522.73	1.29	1394.85	2102.09	2522.78	56.43
12875.00	15.00	42 .60	12451.24	2546.04	.97	1412.03	2118.63	2546.06	56.32
12969.00	14.60	43.80	12542.12	2569.45	.54	1429.53	2135.07	2569.45	56.20
13062.00	12.40	52.60	12632.55	2590.87	3.23	1444.06	2151.12	2590.87	56.13
13155.00	13.80	58.60	12723.14	2611.92	2.10	1455.91	2168.52	2611.92	56.12
13249.00	14.60	61.30	12814.26	2634.92	1.10	1467.44	2188.48	2634.92	56.16
13342.00	11.70	64.90	12904.82	2655.92	3.24	1477.07	2207.31	2655.92	56.21
13435.00	11.80	71.00	12995.87	2674.43	1.34	1484.16	2224.84	2674.44	56.29
13529.00	13.00	57.10	13087.70	2694.29	3.41	1493.04	2242.81	2694.32	56.35
13623.00	13.00	58.30	13179.29	2715.43	,29	1504.34	2260.68	2715.46	56.36
13717.00	13.60	63.90	13270.77	2736.94	1.51	1514.76	2279.60	2736.98	56.40
13809.00	14.60	66.90	13360.00	2759.05	1.35	1524.06	2299.98	2759.11	56.47
13903.00	13.90	71.40	13451.11	2781.57	1.39	1532.31	2321.58	2781.67	56.57
13996.00	13.20	75.60	13541.52	2802.36	1.30	1538.52	2342.45	2802.52	56.70
14090.00	13.20	68.90	13633.04	2822.94	1.63	1545.05	2362.86	2823.17	56.82
14183.00	14.10	66.30	13723.42	2844.44	1.17	1553.43	2383.14	2844.73	56.90
14277.00	12.00	74.20	13814.99	2865.00	2.93	1560.69	2403.03	2865.36	57.00
Projection			. 			والأمام والمعارض			
14368.00	12.00	74.20	13904.00	2882.99	.00	1565.84	2421.24	2883.44	57.11

2051 FONT 674 FEW District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico Energy, Minerals & Natural Resources

Form C-104 Revised June 10, 2003

Oil Conservation Division

Submit to Appropriate District Office

District IV 1220 S. St. Fran	-	•		7505				Francis 1					_		3 Copies
1220 S. St. F181	I.		•				,	M 87505 AND A		DI7A	TION	то '			ED REPORT
¹ Operator 1	ame ar	ıd Addr	ess ·			LOW	AULE	AND A	UIIIC		RID Nur		IKAN	SPURI	
				GAS, IN	C.								01536		······
		RA VIS , TX. 7								3 Rea	son for I	Tiling C	Code/ Ef NW	fective Dat	e
⁴ API Numb	er		5 Pool	Name						<u>. </u>		6 P	ool Code	,	
30 - 015-3					NASH D	PRAW	(MORR	OW)					<u>8</u>	1600	
⁷ Property C				perty Nan	ne 		NASH U	NIT				, M	ell Nur	ber 53	
II. 10 Su		n Tow		D	T -4 T3-	TP 4 /		IN	41.7.	T 6		T	ET? b.		
U) or lot no. H	12		3S	Range 29E	Lot.1an		rom the	North/Sou SOU			185		West lin EST		County DDY
11 Bo		Iole La						1 500			105				<u> </u>
UL or lot no		n Tow		Range	Lot Idn	•		North/Sou		i .		East/	West lin	e (County
н	12	2:	3S	29E		. 20	956	NOI	RTH	6	92	E	AST	E	EDDY
12 Lse Code	²³ Pro	ducing Mo Code	ethod	[™] Gas Co Da	mnection ite	15 C-	129 Pern	nit Number	16 (-129 E	ffective l	Date	17 C	-129 Expira	ation Date
III. Oil	and G	as Tra	nspor	ters											
18 Transpor	ter		¹⁹ Trai	sporter l			²⁰ I	OD	²¹ O	/G		22 P(DD ULS	TR Location	n
OGRID	+	DIE		d Addres	s ERVICES	. +						_	and Des	cription	
036785	İ			FREET, S					G			H S	EC. 12,	T23S, R26	Œ
	DENVER, CO. 80202								sississeenen						
	NAVA IO CRUDE OU														
15694		NAVAJO CRUDE OIL P.O. DRAWER 159							0			H S	EC. 12,	T23S, R20	íE
		ARTESIA, NM. 88240										_			
													RE	CEIVE)
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													-		
IV. Pro	luood i	Water											OCL	-ARTE	SIA
23 POD	Juceu		24 POD	ULSTR	Location	and D	escriptio	n							
								H SE	C. 12, T	23S, R2	26E				
V. Well										1 20					
25 Spud Da 6/13/03		1	Ready 1 11/5/0			²⁷ TD 14,368		²² PB' 14,01			Perforat 3690-139		SIN	30 DHC, GLE COM	MC PLETION
	le Size		T	32 Casing	& Tubin	g Size		33 Depth Set			34 Sacks Cement				
	20"				16"	<u> </u>			420					520 SX	
14	-3/4"		+		10-3/4"				3120			~		2025 SX	
14	-314								3120					.025 SA	
9-	7/8"			·- ·- ·- ·- ·	7-5/8"				10820				1	663 SX	
6-	1/2"				5-1/2"			105	12-1436	7			;	345 SX	
VI. Wel															
35 Date New	Oil		Delive 11/21/0	ry Date		Test Da 1/5/03			t Lengt HR.	h		g. Pres 0 PSIG		Csg.	Pressure 0
41 Choke S 3/4"	ize		⁴² Oil 0		43	Water 56		4	Gas 579		1	S AOF		46 Test	Method
⁴⁷ I hereby cer	tify that	the rule	es of th	e Oil Con	servation	Divisio	n F	121	—	OIL C	ONSERV	ATION	DIVISI	ON	1
have been com						above	is true	1)8	V	~_					
and complete t Signature: //	to the be	of of me	y egy ovy	neage and	peligt.			Approved by	/: 🚅	leon	, led.	L.	نسرو	•	
	wh	24/1	11/a	WHL	U/			••			o led	-4	. A	لممن	
Printed name: MICHAEL S. DAUGHERTY						ľ	litle:		R.s.	vini	750	yarv	-40		
Title: VICE PRESIDENT OPERATIONS						Approval Da	ite:				Ĭ.	EC 0 4	2003		
E-mail Addres	s:				-0.10							_			
mdaugherty@jdmii.com Date: Phone:															1
11/20/03 (972) 931-0700															h



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON

Governor
Joanna Prukop
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

Murchison Oil & Gas, Inc.
Nash Unit # 53
Section 12, T-23-S R-29E
Unit K, 1663' FSL & 2185' FWL (Surface Hole Location)
Unit H, 20456' FNL & 692' FEL (Bottom Hole Location)
G.L. 2986' K.B. 3013'

Eddy County, N.M. API # 30-015-32548

Geological Tops/per Bryan G. Arrant-OCD (Measured Depths)

Calada	(50)
Salado	650 '
Base of Salt	2914'
Lamar	3140'
Delaware Sands	3180'
Bone Spring	6940'
3 rd Bone Spring Sand	9950'
Wolfcamp	10473'
Strawn	12230'
Atoka(NC)	12453'
Morrow Limestone	13433'

J.D. MURCHISON INTERESTS, INC.

VIA FAX - 505-476-3462

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

December 4, 2003

Mr. Michael Stogner Chief Hearing Examiner State of New Mexico Oil Conservation Division 1220 S. Saint Francis Santa Fe, NM. 87505

30-015-32548

DEC 1 0 2003

OCD-ARTESIA

RE: REQUEST FOR ADMINISTRATIVE APPROVAL OF A NON-STANDARD LOCATION

Dear Mr. Stogner:

The Nash Unit #53 is located in the Nash Unit which is a Federal and State approved unit consisting of 8 sections. A map of the unit is attached. The Nash Unit #53 was drilled directionally from a drilling pad to avoid active potash mines, playa lakes, and archeological sites. The down hole location was proposed to be 1980' FNL & 660' FEL of Sec. 12 (Form C-102 is attached). The actual bottom hole location of the well based on directional surveys is 2056' FNL & 692' FEL. The well is perforated from 13,690' to 13,977' (measured depth). The bottom hole location of the top perforation is 2100' FNL & 812' FEL and the bottom perforation is 2073' FNL & 736' FEL.

The well missed the proposed bottom hole location by approximately 82' and it is not within the spacing requirement of NMOCD Rule 104. The well is producing 600 MCFD and 34 BBL of water per day. It appears that the water production is declining, but slowly and we are concerned that shutting-in the well may cause irreparable damage. We are seeking administrative approval of a non-standard location for this well.

We believe the following circumstances offer support for our request. The bottom hole location of the well and perforations are over a mile from the nearest unit boundary. The bottom hole location of this well is within the tolerance of a bottom hole location of a straight hole drilled at a surface location of 1980' FNL & 660' FEL under normal operations.

This well required a complicated drilling procedure and the deviation in bottom hole and perforation location was unintentional on our part. If you need more data or wish to meet with me to discuss any technical issues, please let us know as soon as possible.

Very truly yours,

MURCHISON OIL & GAS/INC.

Michael S. Daugherty

Vice President Operations

MSD/ct/NashUnit#53-Non-StndLoc

Encl.

cc: Mr. Bryan Arrant - Artesia Mr. Tim Gum - Artesia



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON
Governor
Joanna Prukop
Cabinet Secretary

Lori Wrotenbery

Director

Oil Conservation Division

December 2, 2003

RECEIVED

DEC 1 0 2003

Murchison Oil & Gas, Inc. 1100 Mira Vista Blvd. Plano, TX 75093-4698

OCD-ARTESIA

Attn: Mr. Michael S. Daugherty

RE:

Murchison Oil & Gas, Inc.'s gas well completion of the

Nash Unit #53, located in Section 12 of Township 23 South,

Range 29 East, Eddy County, New Mexico. Bottom Hole Location: 2056' FNL & 692' FEL

API#30-015-32548

Dear Mr. Daugherty,

In reference to the above directionally well, the top and bottom producing intervals of the Morrow formation as well as the bottom hole location is non-standard according to New Mexico Oil Conservation Division's Rule 104 for deep gas wells in southeast New Mexico. I cannot find a non-standard location approval for this well allowing for Morrow gas production. Until such an approval is issued, this well will need to be shut-in. Please refer to NMOCD's Rule 104 C. (2) for further clarification or please give me a call to discuss this matter further.

Yours truly,

Bryan G. Arrant PES

Cc:

Michael Stogner, Chief Hearing Examiner-Santa Fe Tim Gum, District Supervisor-Artesia

OPERATOR'S COPY

Form 3160-3 (September 2001)

> UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

RECEIVED

FORM APPROVED OMB No. 1004-0136 Expires January 31, 2004

G. If Indian, Allottee or Tribe Name

DEC 1 0 2003

NM 14140 BAL 5. Lease Serial No. NM 0556859-A SHL

APPLICATION FOR PERMIT TO	DRILL OR REENTELCD	ARTESIA
APPLICATION FOR PERMIT TO	DIVIET ON VEENING	, ,, , , , , , , , , , , , , ,

la. Type of Work: DRILL REENTER	7. If Unit or CA Agreement, Name and No. NASH UNIT				
	Single Zone Mult	iple Zone	8. Lease Name and Well No	·	
1b. Type of Well: Oil Well Gas Well Other	NASH UNIT #53	- 			
2. Name of Operator			9. API Well No.		
MURCHISON OIL & GAS, INC	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
3a, Address	3b. Phone No. (include area code)		10. Field and Pool, or Exploratory		
1100 MIRAVISTABLVD., PLANO, TX. 75093-4698	(972) 931-0700		NASH DRAW		
4. Location of Well (Report location clearly and in accordance with a	any State requirements. *)		11. Sec., T., R., M., or Blk.	and Survey or Area	
At surface 1663' FSL & 2185' FWL					
At proposed prod. zone 1980' FNL & GGO' FEL UNIT H	R-111-P Potes	A	SEC. 12, T235, R29E		
14. Distance in miles and direction from nearest town or post office.			12. County or Parish	13. State	
17 MILES SOUTHEAST OF CARLSBAD			EDDY	NM.	
15. Distance from proposed* location to nearest property or lease line, ft.	16. No. of Acres in lease	17. Spacin	Spacing Unit dedicated to this well		
(Also to nearest drig, unit line, if any) 660' BHL	320	-	320 N/2		
18. Distance from proposed location* to nearest well, drilling, completed,	19. Proposed Depth	20. BLM/	3IA Bond No. on file		
' applied for, on this lease, st. 2965' BHL	14000 TVD		ROTARY		
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will	start*	23. Estimated duration		
2986' GL	9/1/02		70 DAYS		
	24. Attachments	Carlsbad	Controlled Water Bas	in	
The following, completed in accordance with the requirements of Onsho	ore Oil and Gas Order No.1, shall be s	ttached to thi	s form:		
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office). 	Lands, the S. Operator certifi	cation. specific inf	s unless covered by an exist		
25. Signature	Name (Printed/Typed)		Date	; , / /	
- MARKY / / /allakuri	GHERTY		6/21/02		
Title VICE PRESIDENT OPERATIONS			·		
Approved by Signature)	Name (Printed Typed)	AL	Date Date	1/29/12	
Title	Office NM S	TATE O	7.	1/ 1/1/1/	

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. APPROVAL FOR 1 YEAR Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*(|nstructions on reverse)

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED.

___ 1980, Nabba, NM 88261-1980

State of New Mexico

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

RECEIVED

DISTRICT II P.O. Drawer DD. Artesis, NM 86211-0719

DISTRICT III 1000 Rio Brazes Rd., Azlec, NM 87410

DISTRICT IV P.G. BOX 2086, SANTA TZ. N.M. 87504-2088 OIL CONSERVATION DIVISION

P.O. Box 2088 Santa Fe, New Mexico 87504-2088

OCD-ARTESIA AMENDED REPORT

DEC 1 0 2003

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Poel Name		
Property Code	•	Property Name NASH UNIT		
OGRID No. 015363		Operator Name MURCHISON OIL & GAS INC.		

Surface Location

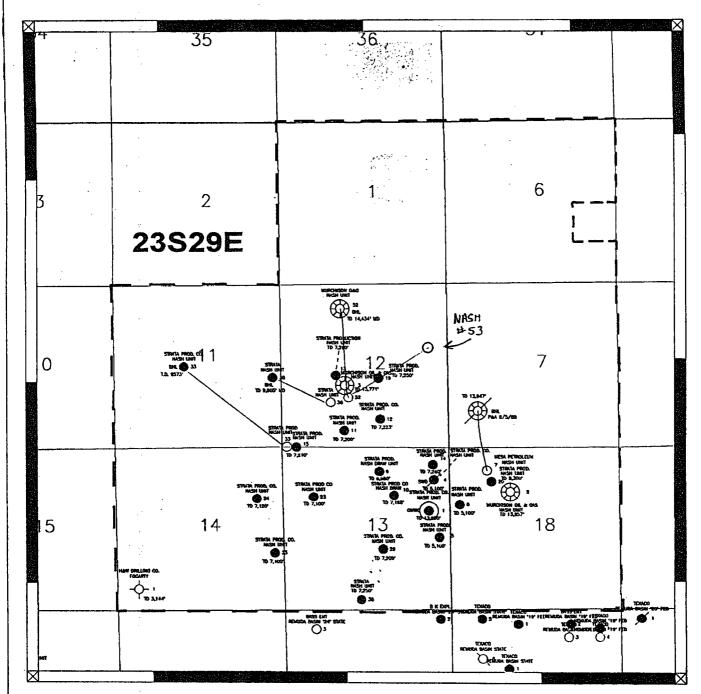
UL or lot No.	Section	Township	Range	iot idn	Feet from the	North/South line	Feet from the	East/West line	County
K	12	23-S	29-E		1663'	SOUTH	2185'	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Townshi	p Range	Lot Idn	Fact from the	North/South line	Fact from the	East/West line	County
н	12	23-5	5 29-E	·	1980'	NORTH	6601	EAST	EDDY
Dedicated Acres	a Joint o	r Infill	Consolidation	Code Ore	der No.				
320									

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

SPACING MUIT	1980' BHL	OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belts. MICHAEL S. DAUGHERTY Printed Name VICE PRESIDENT OPERATIONS Title 6/21/07 Date
SURFACE LOCATION 2	DISPLACEMENT	SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my expervison and that the same to true and correct to the best of my belief. MAY 28, 2002 Data Survexishmining LA Signature & Shaffilling Proteinfinial Surveyor 100



32.30

NASH UNIT OUTLINE



PARTICIPATING AREA



Scale 1:36000.

1000. 0. 1000. 2000. 3000. 4000. 5000. feet

0.1 D.	0.1 0.2 0.3	0.4 0.5	miles
m	N. 183		

MURC	HISON OIL & GA	IS, INC.
	NASH UNIT EDDY CO., NM UNIT OUTLINE	
DAPA HUNTINGTON 3/19/2009		
	State 1:30000	