133938192

NSL 12/23/01

J.D. MURCHISON INTERESTS. . NC

November 30, 2001

MURCHISON OIL & GAR MET MURCHISON PROPERTIES AC.

El Fa

Mr. Michael Stogner State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 2040 South Pacheco Santa Fe, NM. 87505

DEC - 3 2001

RE: UNORTHODOX LOCATION EXCEPTION NASH UNIT #52 SURFACE: 1628' FSL & 2150' FWL, SEC. 12, T23S, R29E BHL @ TD: 838' FNL & 1958' FWL, UNIT C, SEC. 12, T23S, R29E BHL @ ATOKA: 12956' 1045' FNL & 2015' FWL EDDY CO., NM.

Dear Mr. Stogner:

The referenced well was directionally drilled to the Morrow formation. The bottom hole location at Morrow depth was orthodox. However the Morrow completion was unsuccessful and the well has been completed in the Atoka formation as shown on the attached BLM Form 3160-4 completion report, but bottom hole location at the Atoka depths is unorthodox by virtue of Order R-11231. The BHL is more than 660' from all the outer boundaries of the Proration Unit so a list of offset operators has not been submitted.

For your convenience a copy of the survey plat, NM-Form C-102, the Sundry Notice Form 3160-5 for completion, and a plat of the Nash Unit have also been attached. This letter serves to request that an exception to the wells BHL location requirements of Rule 104 C (2) (b) be granted in view of these circumstances. Please contact me if you should have questions.

Sincerely,

MURCHISON OIL & GAS, INC.

Michael S. Daugherty

Vice President Operations

MSD/ct/Nash#52-UnorthLocExc.

Encl.

cc: Mr. Bryan Arrant-St. of New Mexico Oil Conservation Division – District || 811 S. 1<sup>st</sup> Street Artesia, NM. 88210-2834 LUISTRICT I P.O. Box 1980, Hobbs, NM 56241-1960

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

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

DISTRICT IV P.O. BOX 2088, SANTA FX, N.M. 87504-2088 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

#### OIL CONSERVATION DIVISION P.O. Box 2088 Santa Fe, New Mexico 87504-2088

□ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Code Pool Name		
		NASH DRAW MORROW		
Property Code	F	Property Name NASH	Well Number 52	
OGRID No. 015363		operator Name N OIL & GAS, INC.	Elevation 2985	

#### Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
к	12	23 S	29 E		1628	SOUTH	2150	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
с	12	23 S	29 E		660	NORTH	1980	WEST	EDDY
Dedicated Acre	Joint o	r Infill Co	nsolidation	Code Or	der No.	•·			

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 UNIT	OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my hamiledge and belief.
	вн <b></b>	2997' DISPLACEMENT	Muchaul Augusty Signature MICHAEL S. DAUGHERTY Printed Name VICE PRESIDENT OPERATIONS Title 7/21/00 Date
		2980.3'  	SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of ectual surveys made by me or under my supervisen, and that the same is true and correct to the best of my belof.
2150' 2150'	*	2982.5' - 2979.7' DETAIL SURFACE LOCATION	JUNE 26, 2000 Date Surveyor Bignaturo & Boar of Proteinional Surveyor METO Date Market METO G/22/2000
			Certificate No. RONALD CEIDSON 3239 Certificate No. RONALD CEIDSON 12641 DOF MICON MEDONALD 12185

itorm 3160-4 (July 1992)			NTED S			SUBME	//TCf	ATOP	i <b>č.CO</b> I	OMI	B NO.	PROVED 1004-0137 uary 28, 1995
	DEPART	'ME	N. JF	THE	: INT	ERIOR		stru. Levela	in -	-		UN AND BERIAL . NO.
	BUF	REAU	OF LAND	MANA	GEMEN	Т					5568	359-A
					<u></u>							TEE OR TRIBE NAME
WELL CON	APLETION	OR	RECOM	PLEII	UN RE		ANL	LOG	, <b>T</b>			
1. TYPE OF WELL	: 011. WEL	1. 🗌	CAN WELL	DR	v 🗌 o	ther				7. I'NIT AGRE	EMENT	NAM <b>B</b>
L TYPE OF COMP										NASH U	NIT	8131
	WORK DEE	" 🗆	PLUA BACK	р1 <b>гр.</b> Цену	л. 🔲 о	)ther			<sup>•</sup>	and the second se		SE NAME, WELL NO
2. NAME OF OPERATO	π									NASH U	NIT	<i>#</i> 52
MURCHISON	OIL & GAS	s. I	NC.						· · ·	9. API WELL		
3. ADDRESS AND T										30-015	-31	510 <i>005</i>
1100 MIRA	VISTA BL	VD.	PLANO, 7	rx.	75093-	4698				10. FIELD AN	D POOI	L, OR WILDCAT
4. LOCATION OF WELL	. (Report locatio	on clca	rly and in acc	ordance	with any	State regulr	cmenti	•)•		NASH D		
At surface 16	28' FSL &	215	O'FWL S	SEC 1	2 T23	IS R29E			ľ	11. BEC., T., I OR AREA	к., м., (	ON BLOCK AND BURVET
At top prod. Inte	rval reported be	low										
At total depth	OKA @ 129.	56'	1045' 1	FNL &	2015'	FWL				SEC 12	2 T	23S R29E
838' FNI	. & 1958	• FW	т. Г	14. PER	MIT NO.		DATE I	SSC.ED		12. COUNTY C	) N	13. STATE
							12	2/5/00		EDDY		NM NM
5. DATE SPUDDED	16. DATE T.D. R	EACHE	D IT. DATE C	OMPL. (	Ready to	prod.) 18.				F. OR, ETC.)*	19. 1	ELEY, CABINGHEAD
5/29/01	7/27/0	1	9/0	6/01	(WOPI	-		2985 (				2985'
20. TOTAL DEPTH, MD A	TVD 21. PLU	0, 340	CT.D., MD & TVI	D 22.	IF MULT HOW MA	ITIE COMPL.,		23, INTE DRIL	RVALS LED BY	ROTARY TOO	L.B.	CABLE TOOLS
3737 TVD 1443	2 MD	142				N/A			▶	14432		
24. PRODUCING INTERV						D AND TVD)*					2:	5. WAS DIRECTIONAL BURYRY MADE
MD 13045-6		BANK		1236	-							
MD 12956-6	9 ATOKA		TVD	1228	7'							YES
26. TYPE ELECTRIC A										1	27. ₩	AR WELL CORBD
NEUTRON DE	NSITY C	R I	LATEROLOG	;								NO
2.9.			CASING	G RECO	RD (Repo	rt all string	set in	wrll)				
CASING SIZE/GRADE	WEIGHT, LB.	' <b>У</b> Т.	DEPTH AET	(ND)	1101.	R. 8128		TOP OF CEN	IFNT, CEM	ENTING RECORD		AMOUNT PULLED
13-3/8 N-80	72 #/	FT	390	1	17-	-1/2"	355	SXS C	IRC CI	EMENT TO	SUR	F N/A
10-3/4 N-80J-	55K55 44.	22#/	FT 3120	1		-1/4"				CEMENT TO		
7-5/8 N-80P1			·	1	9-	-7/8"		) SXS '				N/A
29.		LINE	R RECORD					30.	т	UBING REC	URD	
SITE	TOP (ND)	BOTT	ом (мр) з	ACKE CE	MENT*	SCREEN (M	D)	5128		DEPTH BET (N	(9)	PACKER BBT (MD)
5-1/2"	10486'	14	437'	416	SXS			2 7/	8''	12837' MI	)	12797'
			<b> </b> _									
31. PERFORATION REC	ORD (Interval, s	ise and	I number)			32.	٨C	ID. SHOT	FRACT	URE, CEMEN	T SQL	JEEZE, ETC.
13045-61	16'	32 E	IOLES			DEPTH IN	TERVAL	L (MD)	A 31	OUNT AND KIN	10 07	MATERIAL USED
·						12956-	130	61	ACID	IZE W/ 40	000	GAL 7.5%
12956-69	13'	78 H	IOLES						& 30	Z METHAN	DL	
			·			1						
33.*						NOTION						
DATE FIRST PRODUCTI			METHOD (FI	owing, p	as (ijt, pu	mpingsize	and t	урсо[рин	n (p.)		ATATU (n)	in (Producing or
9/6/01	- The second	FLOW		1		00 ====						SI
	HOURS TESTED		CHOKE BILL		FERIOD	01L		(LAN		WATER	L.	UAB-OIL RATIO
9/6/01	18 HRS		20/64		>	0		150		0		0
FLOW. TUBING PLANS.	CABING PRESS		CALCULATED	011		GA8-		1	WATER-	-NBL,	011	GRAVITY-API (CORR.)
800 PSI	0		<b>&gt;</b>		0	2	000		····· (	0		N/A
34. DISPOSITION OF G		r juel,	vented, etc.)	Δ	CCEP	TED FOR	RE	CORD		TEAT WITNE		
FLARE						<u>_/n</u>	-0	11	<b></b>	TOMMY	FOLS	OM
35. LINT OF ATTACH	MENTE				Tnn	vd.H	14	INN	r -			
			$\alpha - \mu$				2001	up -	\ <u>.</u>			
36. 1 hereby certify	TOUL the forego	ne .n	a attached int	ormation	n is comb	wite and bor	rect a	• determin	rd from	all available	record	•
BIGNED	uchers!	[ ]/ /	alghante	T	TUE	<u>V P OI</u>	ERA	TIONS		DAT	Э <b>С</b>	11/1/01
		1/	_/		D	AVID R. GI		1.9				
	*(S	ee Ins	troctions and	d Spac	. PETR	dditional-	Data	on Rev	ense Sid	le)		

Fitle 18 U.S.C. Section 1001, makes 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.

37. SUMMARY OF POR drill-stem, tests, in recoveries):	OUS ZONES: (Sh cluding depth int	ow all important serval tested, cus	SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):	38. GEOL	GEOLOGIC MARKERS	
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	зили	TOP	10110
					MEAS. DEPTH	VERT. DEPTH
ATOKA SAND	13956	13969	SAND & SHALE			
ATOKA SAND	13045	13061	LIMESTONE	DELAWARE	3153	3152
MIDDLE MORROW	13905	13930	SAND SHALE	BONE SPRING	6883	6882
LOW MORROW	14286	14310	SAND SHALE	WOLFCAMP	10532	10146
				STRAWN	12626	12002
				TTOKA	12762	12116
				MORROW	13594	12904

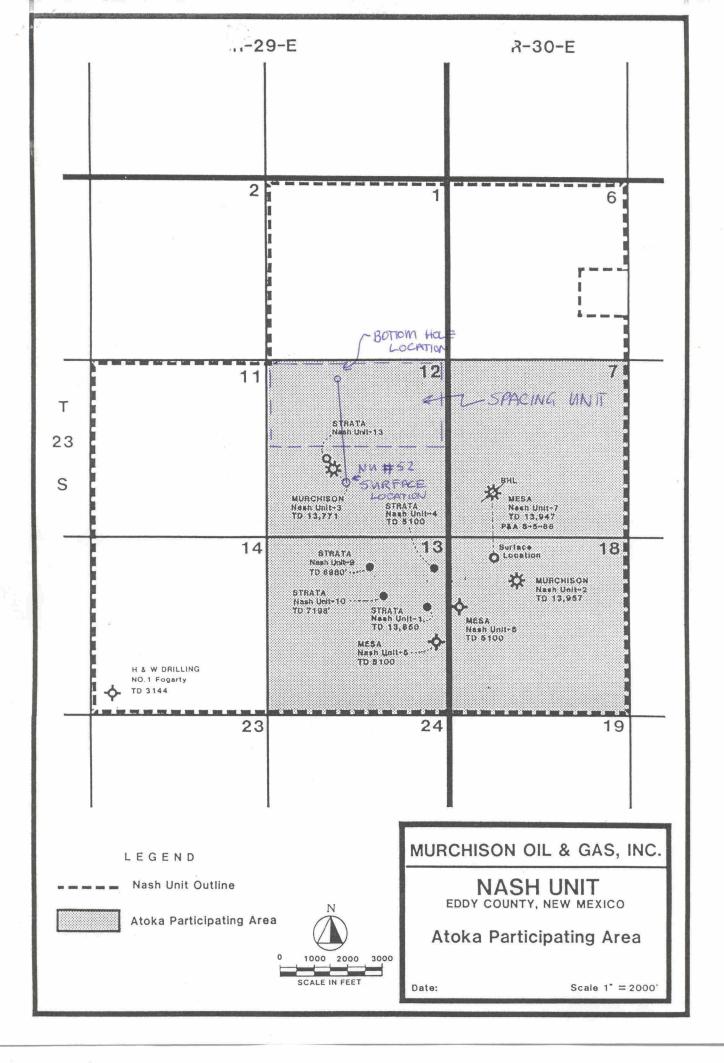
74.572

	UNITE STATES DEPARTMENT OF THE IN BUREAU OF LAND MANAG		ERATOR'S CO	C E	ORM APPROVED DMB No. 1004-0135 Expires July 31, 1996 I No.
SUNDRY	Y NOTICES AND REPOR	RTS ON WELLS		NM 05	56859-A
Do not use thi abandoned we	ls form for proposals to d II. Uso Form 3160-3 (APD)	frill or to re-enter ar ) for such proposals.	2	6. If Indian, A	llottee or Tribe Name
SUBMIT IN TRI	PLICATE - Other Instruc	ctions on reverse :	sido	7. If Unit or C	WAgreement, Name and/or No.
. Type of Well	· · · · · · · · · · · · · · · · · · ·			NASH	UNIT 8131
Oil Well & Gas Well	Other			8. Well Name	
2. Name of Operator				}	UNIT #52
MURCHISON OIL &				9. API Well 1	№.~ .5-31510
)a. Address 1100 MIRA VI PLANO, TX.	5TA BLVD. 75093-4698	36. Phone No. (include (972) 931-0			Pool, or Exploratory Area
4. Location of Well (Footuge, Sec.					DRAW MORROW
SURFACE: 1628 F	SL & 2150 FWL UNIT	К SEC 12 T23S	R29E	11. County or	Parish, State
BHL: 660 FNL &	1980 FWL UNIT C S	EC 12 T23S R2	9E	EDDY	COUNTY, NM.
12. CHECK AP	PROPRIATE BOX(ES) TO	INDICATE NATUR	LE OF NOTICE, R	EPORT, OR	OTHER DATA
TYPE OF SUBMISSION		TYI	PE OF ACTION		
	X Acidize	Deepen	D Production (Star	VResume) (	Water Shut-Off
	C Alter Casing	G Fracture Treat	C Reclamation	(	Well Integrity
X Subsequent Report	Casing Repair	New Construction	C Recomplete	(	Dulier PERFORATE
Final Abandonment Notice	Change Plans	D Plug and Abandon	D Temporarily Al	bandon	······································
	Convert to Injection	D Plug Back	<b>Water Disposal</b>		

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 recompletion in a new interval, a Form 31604 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

PBTD @ 14215'. Run in hole with casing gun and perforate 13045-061' w/ 32 holes. TIH w/ 414 Jts. 2 7/8" 6.5 P110 Hydrill tubing and Arrow packer to 12797'. Set packer @ 12797' w/ bottom tubing @ 12837'. Flow well. Acidize w/ 2500 15% HCL and 2000 SCF N2. Flow well back. 18 HR SITP 1600 PSI. Kill well and perforate with a through tubing gun 12969-56' w/ 6 shot/ft. 78 holes. Acidize both intervals w/ 4000 gas 7.5% Morrow Acid and 14900 SCF. Flow well back and clean up. Flow over night. Flow after 18 HRS. 2000 MCFD on 20/64 CK @ 800 PSI. Shut well in and wait on BLM approval for pipeline to connect to sales. Well shut in on 9/6/01.

14. Thereby certify that the foregoing is true and Name (Printed/Typed)	l correct Title
MICHAEL, S. / DAUGHERTY /	VICE PRESIDENT OPERATIONS
Signature Michael Maufur	Date 10/31/01
	THIS SPACE FOR FEDERAL OR STATE AFFEE FOR RECORD
Approved by	Title Harrid & Allass
Conditions of approval, if any, are attached. certify that the applicant holds legal or equita which would entitle the applicant to conduct op-	
7 11.S.C. Section 1001, makes it a crim datements or representations as to a	e for any person knowingly and willfully to make to any depart DAV barenol of She United States any false, fictitious o by matter within its jurisdiction. PETROLEUM ENGINEER



_	COUNTY Eddy	POOL Nash Draw-Atoka Gas	
	•	RANGE 29 East NMPM	
	6 5		
	7 8	9 10 11 11	
,		16 - 15 - 14 - 18 - 18	· ·
		21 22 23 24	
		28 27 26 25	
		33 - 34 - 35 - 36 -	
	$\overline{\Gamma}$ $\underline{L}$ $\underline{S}$ $\underline{S}$ $\underline{S}$ $\underline{S}$ $\underline{S}$		
	Ext: All Sec. 24 (R-954	<u>13(R-5361, 3-1-77)</u> 45,7-1-91)	
•		······································	
	······································		
	·····		

•	COUNTY Eddy	POOL Nash Draw - Atoka Gas
	TOWNSHIP 23 South	RANGE 30 East NMPM
	6 5	
	7 8	9 10
		21 22 23 24
		28 27 26 25
		33 34 35 36
	Description: 1/2 Se	ec 18 (R-5252, 9-1-76)
		· · · · · · · · · · · · · · · · · · ·

CMD :	ONGARD	BY SECTION	01/03/02 08:58:
OG5SECT	INQUIRE LAND		OGOMES -TP
Sec : 12 Twp : 23S	Rng : 29E Section		PAGE NO:
D	C	B	A
40.00	40.00	40.00	40.00
Federal owned U R A	Federal owned U R A	Federal owned U R	Federal owned   U R
E	F	G	H
40.00	40.00	40.00	40.00
Federal owned U R A	Federal owned U R	Federal owned U R	Federal owned U R
PF01 HELP PF02 PF07 BKWD PF08 FW			PF06 PF12

CMD : OG5SECT	ONGARD	BY SECTION	01/03/02 08:58: OGOMES -TP PAGE NO:
Sec : 12 Twp : 23S	Rng: 29E Section	Type : NORMAL	
L	K	J	I
40.00	40.00	40.00	40.00
Federal owned	Federal owned	Federal owned	Federal owned
UR	UR	UR	UR
	AAA	A	
M	N	0	P
40.00	40.00	40.00	40.00
	·   		CS
			K06600 0001
Federal owned	Federal owned	Federal owned	MCELVAIN OIL &
UR	UR	UR	U R 12/20/7
	A	A	A
	·		_
PF01 HELP PF02	PF03 EXIT P	F04 GoTo PF05	PF06
PF07 BKWD PF08 FW	D PF09 PRINT P	F10 SDIV PF11	PF12

CMD : ONGARD 01/03/02 08:58: OG6IWCM INQUIRE WELL COMPLETIONS OGOMES -TP API Well No : 30 15 21781 Eff Date : 12-01-1976 WC Status : A Pool Idn : 81560 NASH DRAW; ATOKA (GAS) OGRID Idn : 15363 MURCHISON OIL & GAS INC Prop Idn : 8131 NASH UNIT Well No : 003 GL Elevation: 99999 U/L Sec Township Range North/South East/West Prop/Act(P/ \_\_\_\_\_ \_\_\_ \_\_\_ :K 12 29E FTG 1980 F S FTG 1980 F W B.H. Locn 23S Ρ 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 HELPPF02PF03 EXITPF04 GoToPF05PF06PF07PF08PF09PF10 NEXT-WCPF11 HISTORYPF12 NXTREC

CMD : OG6ACRE		ONGA C102-DEDIC	RD ATE ACREAGE	01	1/03/02 08:58: OGOMES -TP Page No :
API Well No Pool Idn Prop Idn Spacing Unit Sect/Twp/Rng Dedicated Land	: 81560 NAS : 8131 NA : 26969 OC :	GH DRAW;ATOKA ASH UNIT DD Order :	(GAS)	Simultaneous	
	S Base	U/L Sec Twp	Rng Acreage	L/W Owners	nip Lot Idn
		J 12 23S K 12 23S L 12 23S M 12 23S N 12 23S O 12 23S	29E       40.00         29E       40.00	N FD N FD N FD N FD N FD N FD	
PF01 HELP P	F02	to modify or PF03 EXIT PF09	PF keys to : PF04 GoTo PF10 LAND	PF05	PF06 CONFIRM PF12 RECONF

01/03/02 08:59: CMD : ONGARD INQUIRE WELL COMPLETIONS OGGIWCM OGOMES -TP API Well No : 30 15 31510 Eff Date : 09-06-2001 WC Status : S Pool Idn : 81560 NASH DRAW; ATOKA (GAS) OGRID Idn : 15363 MURCHISON OIL & GAS INC Prop Idn : 8131 NASH UNIT Well No : 052 GL Elevation: 2985 U/L Sec Township Range North/South East/West Prop/Act(P/ \_ \_ \_ \_ \_ \_ \_ \_ \_\_\_\_\_ 23S 29E FTG 1628 F S FTG 2150 F W B.H. Locn : C 12 Ρ Lot Identifier: Dedicated Acre: 320.00 Lease Type : F Type of consolidation (Comm, Unit, Forced Pooling - C/U/F/O) : E6317: No more recs. for this api well no.

PF01 HELPPF02PF03 EXITPF04 GoToPF05PF06PF07PF08PF09PF10 NEXT-WCPF11 HISTORYPF12 NXTREC

CMD : OG6ACRE		ONGA C102-DEDIC	RD ATE ACREAGE	0	1/03/02 09:00: OGOMES -TP Page No :
Pool Idn Prop Idn Spacing Unit	: 81560 NA : 8131 N : 55377 O :	1510 Eff Da SH DRAW;ATOKA ASH UNIT CD Order : Acreage	(GAS)	Simultaneous	
	S Base	U/L Sec Twp	Rng Acreage	L/W Owners	hip Lot Idn
		B 12 23S C 12 23S	29E40.0029E40.0029E40.0029E40.00	N FD N FD	
		E 12 23S F 12 23S G 12 23S	29E       40.00         29E       40.00         29E       40.00         29E       40.00         29E       40.00	N FD N FD N FD	
PF01 HELP	PF02	to modify or PF03 EXIT PF09	PF04 GoTo	PF05	

### NASH UNIT AREA

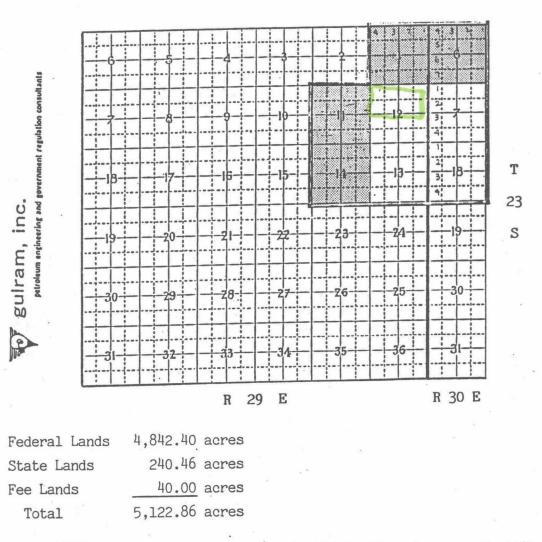
## No. 14-08-0001-14168

APPROVED: July 25, 1974

EFFECTIVE: July 25, 1974

### EXPLORATORY

Eddy County, New Mexico



- Lands subject to Automatic Elimination January 25, 1985 (not officially approved)

Remaining	Unit	Land	-	Federal	2,320.86	acres
*				State	240.46	acres
				Total	2,561.32	acres

87-1

Unit Name: Nash

Contract Number: 14-08-0001-14168 Automatic Elimination Date: January 25, 1985 (not approved officially) Operator: Mesa Petroleum Company

### PARTICIPATING AREAS (PA)

gulram, inc.

petroleum engineering and government regulation consultants

Name: Initial Delaware (Cherry Canyon) Well Name: Nash Unit No. 4 Location: NEłNEł Sec. 13, T. 23 S., R. 29 E. Legal PA Description: NEł Sec. 13, T. 23 S., R. 29 E. Effective Date: June 22, 1976 PA Total Acres: 160.00

#### Unit Name: Nash

Contract Number: 14-08-0001-14168 Automatic Elimination Date: January 25, 1985 (not approved officially) Operator: Mesa Petroleum Company

#### PARTICIPATING AREAS (PA)

Name: Initial Atoka

Well Name: Nash Unit No. 2

Location: SEłNWŁ Sec. 18, T. 23 S., R. 30 E. Legal PA Description: Lots 1,2,3,4,E½W½, E½ Sec. 18, T. 23 S., R. 30 E. Effective Date: April 21, 1976 PA Total Acres: 640.84

Name: 1st Revision Atoka

Well Name: Nash Unit No. 3

Location: NELSWL Sec. 12, T. 23 S., R. 29 E.

Legal PA Description: All Sec. 12, All Sec. 13, T. 23 S., R. 29 E., Lots 1,2,3,4, E½W½, E½ Sec. 7, T. 23 S., R. 30 E. - 1920.48 acres Effective Date: October 1, 1976 PA Total Acres: 2,561.32

87 -1

#### Unit Name: Nash

Contract Number: 14-08-0001-14168 Automatic Elimination Date: January 25, 1985 (not approved officially) Operator: Mesa Petroleum Company

#### PARTICIPATING AREAS (PA)

Name: Initial Morrow

Well Name: Nash Unit No. 1

Location: SELNEL Sec. 13, T. 23 S., R. 29 E.

Legal PA Description: All Sec. 13, T. 23 S., R. 29 E., Lots 1,2,3,4, E<sup>1</sup><sub>2</sub>W<sup>1</sup><sub>2</sub>, E<sup>1</sup><sub>2</sub> Sec. 18, T. 23 S., R. 30 E.

Effective Date: January 22, 1975

PA Total Acres: 1,280.84

Name: 1st Revision Morrow

Well Name: Nash Unit No. 7

Location: SWISWI Sec. 7, T. 23 S., R. 30 E.

Legal PA Description: Lots 1,2,3,4, E<sup>1</sup><sub>2</sub>W<sup>1</sup><sub>2</sub>, E<sup>1</sup><sub>2</sub> Sec. 7, T. 23 S., R. 30 E. -

gulram, inc.

petroleum engineering and government regulation consultants

640.48 acres

Effective Date: July 1, 1980

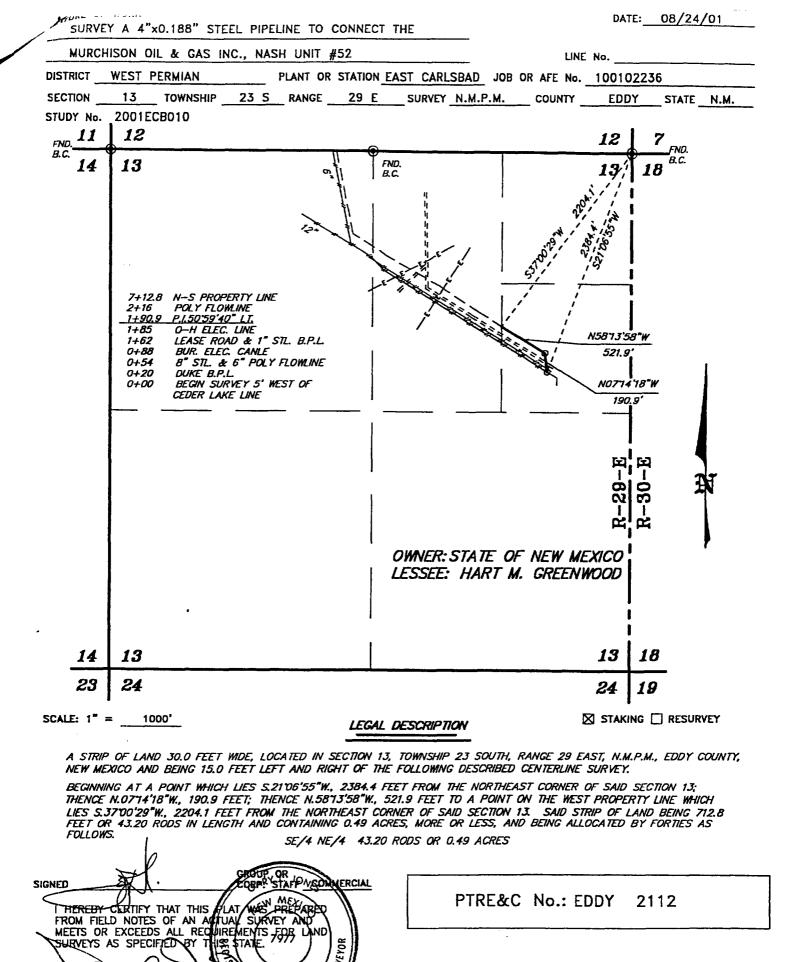
PA Total Acres: 1,921.32

SUNDF Do not u <del>se</del> ti	UNITED STATES DEPARTMENT OF THE INTER BUREAU OF LAND MANAGEMENT RY NOTICES AND REPORTS ON W his form for proposals to drill or to re rell. Use Form 3160-3 (APD) for such p	e-enter an -	Diet O APPROVED
	RIPLICATE - Other instructions on		7. If Unit or CA/Agreement, Name and/or No.
I. Type of Well			NASH UNIT 8131
Oil Well S Gas Well	] Other		8. Well Name and No.
L Name of Operator MIRCHTSON	OIL & GAS, INC. /		NASH UNIT #52 9. API Well No.
la. Address 1100 MIRA	VISTA BLVD. 3b. Phone I	No. (include area code)	30-015-31510
PLANO, TX.	التكريك سيجلب ويستبين فيتعصب والمتحاد	931-0700	10. Field and Pool, or Exploratory Area NASH DRAW MORROW
•	c., T., R., M., or Survey Description) 'SL & 2150 FWL UNIT K SEC 1	0 500 500 500 5	11. County or Parish, State
BHL: 660 FNL &		2 T23S R29E 23S R29E	RDDV COLDURY ND
	PPROPRIATE BOX(ES) TO INDICATI		EDDY COUNTY, NM.
TYPE OF SUBMISSION		TYPE OF ACTION	
~	Acidize Deepen	Production (Sta	rt/Resume) Q Water Shut-Off
V Notice of Intent	Alter Casing C Fracture 1	<b>—</b>	Well Integrity
C Subsequent Report	Casing Repair New Con		Ca Other PIPELINE TAP
G Final Abandonment Notice	Change Plans Plug and Convert to Injection Plug Back	<b>~</b>	
Murchison 011 & 0 lay 4,287 feet of meter at the well	Final Abandonment Notices shall be filed only aff y for final inspection.) Gas proposes to allow Duke E f 4 inch steel extension lin	er all requirements, including rec nergy Field Service e to the Nash Draw inside the Unit bou uried 4" low pressu	ndaries and along an existing
			1234
Accached are prat	ts of the well location, met	Priocations and pi	peline.
	APPROVED	R escin	c/- must pe 1
	SEP 2 5 2001	apprend	peline. c) - must fel <b>A</b> in CFCR, OCD-ARTESIA
	GARY GOURLEY		ALC AN
14. I hereby certify that the forego	PETROLEUM ENGINEER		
Name (Printed/Typed)	S., DAUGHERTY	Title	
Signature 1		VICE PRESIDEN Date	I OFERALLONS
IVUENAL	1.11/auglecty		2/01
	/ / THIS SPACE FOR FEDER	AL OR STATE OFFICE US	E
Approved by	,	Title	Date
certify that the applicant holds le	e attached. Approval of this notice does not was gal or equitable title to those rights in the subject		

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or

SUNDR Do not use ti	UNITED STATI DEPARTMENT OF THE BUREAU OF LAND MAN IN NOTICES AND REP In form for proposals to rell. Use Form 3160-3 (Af	INTERIOR AGEMENT ORTS ON WELLS	Artesia; NIVI	15. Dist. 2 d'Avenue	
SUBMIT IN TR	RIPLICATE - Other Inst	ructions on reverse	side	7. If Unit or CA	VAgreement, Name and/or Nu.
1. Type of Well Oil Well 🖾 Gas Well	Conter			NASH 8. Well Name :	UNIT 8131
2. Name of Operator MURCHTSON	OIL & GAS, INC. /			NASH 9. API Well No	UNIT #52
	VISTA BLVD.	3b. Phone No. (include (972) 931-(	•	30-01	.5-31510
4. Location of Well (Footage, Sec			,, , , , , , , , , , , , , , , , , , ,		DRAW MORROW
SURFACE: 1628 F	SL & 2150 FWL UNI	T K SEC 12 T23	S R29E	11. County or Pa	arish, State
BHL: 660 FNL &	1980 FWL UNIT C	SEC 12 T23S R2	29E	EDDY	COUNTY, NM.
12. CHECK AI	PPROPRIATE BOX(ES)	TO INDICATE NATU	RE OF NOTICE, R		Construction of the local distance of the lo
TYPE OF SUBMISSION		TY	PE OF ACTION		
Notice of Intent	Acidize	Deepen Fracture Treat	Production (Start     Reclamation	t/Resume)	
Subsequent Report	Casing Repair	New Construction	Recomplete	C3	
G Final Abandonment Notice	Change Plans Convert to Injection	<ul> <li>Plug and Abandon</li> <li>Plug Back</li> </ul>	Temporarily Ab Water Disposal	vandon	
following completion of the in- testing has been completed. F determined that the site is ready Murchison Oil & G lay 4,287 feet of meter at the well	volved operations. If the operations of the operation of	ion results in a multiple com I be filed only after all requ Low Duke Energy ension line to t Lation is inside	pletion or recompletion irements, including reck Field Services he Nash Draw I the Unit bour	in a new interval, amation, have been s to insta: Unit #52 an ndaries and	ports shall be filed within 30 ar/f a Form 3160-4 shall be filed: and a completed, and the operators with 11 one gas line the nd set one sales d along an existing of
Attached are plat	s of the well loca	ation, meter loc	ations and pip	peline.	
		APPR SEP 2	5 2001	1819202123	RECEIVED OCD - ARTESIA
14. I hereby certify that the forego Name (Printed/Typed)	ing is true and correct	PETROLEUM	URLEY INGINEER	(;*	
MICHAEL	S. DAUGHERTY		VICE PRESIDENT		
Signature Muchtel	Maugherty	Date	9/12	2/01	
	/ THIS SPACE	FOR FEDERAL OR S	TATE OFFICE US	E	
Approved by	``````````````````````````````````````		itle	Date	
Conditions of approval, if any, are certify that the applicant holds leg which would entitle the applicant to	gal or equitable title to those rip		Office		

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



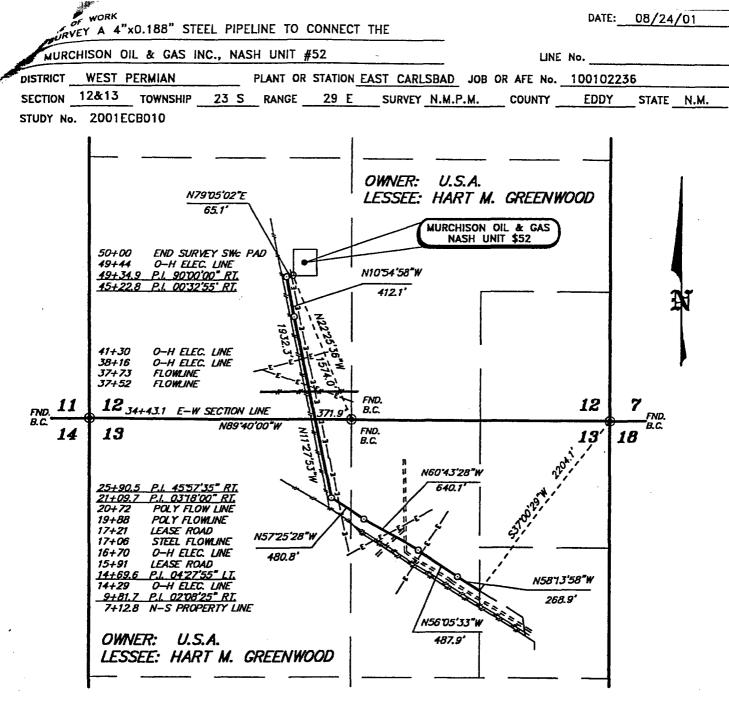
BASIN SURVEYS W.O. Number: 1757 JLP #1- DUK1757 SEP 1 0 2001

S

PAN93578772

GARY L. JONES N.M. P.S.

TEXAS P.L.S.



SCALE: 1" = 1000'

STAKING 🗌 RESURVEY

#### LEGAL DESCRIPTION

A STRIP OF LAND 50.0 FEET MDE, LOCATED IN SECTION 12&13, TOWNSHIP 23 SOUTH, RANGE 29 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO AND BEING 25.0 FEET LEFT AND RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY.

4287.2 FEET = 259.83 RODS = 0.81 MILES CROU DASCAFT SIGNED COMMERCIAL HEREBY CERTIFY THAT THE FROM FIELD NOTES OF AN MEETS OR EXCEEDS ALL RI SURVEYS AS SPECIFIED BE THIS ACTUAL SURV ND REQUIREM PROFESSION GARY L JONES N.M. P. TEXAS P.I 174

PTRE&C No.: EDDY 2112

BASIN SURVEYS P.O. BOX 1786 - HOBBS, NEW MEXICO W.O. Number: 1757 JLP #1- DUK1757

SEP 1 0 2001

SUNDR Do not use th	UNITED STATES DEPARTMENT OF THE IN BUREAU OF LAND MANAG Y NOTICES AND REPOR Is form for proposals to co full. Uso Form 3160-3 (APD	ITERIOR DEMENT RTS ON WELLS drill or to ro-ontor	ลก 🚺	Dist. 2 OMB No. 1004-0133
SUBMIT IN TR	IPLICATE - Other Instru	ctions on reverse	o sido	7. If Unit or CA/Agreement, Name and/or No.
1. Type of Well Oil Well Cas Well	D Other	,9 <sup>(3)</sup>	1:2:3757576	NASH UNIT 8131 8. Well Name and No.
2. Name of Operator MURCHISON OIL 8	CAS INC	୍ରୀ -		NASH UNIT #52 9. API Well No.
Da. Address 1100 MIRA V		3b. Phone No. (includ	de argatedies 5	30-015-31510
PLANO, TX.	75093-4698		KUY URICO INT	10. Field and Pool, or Exploratory Area
	., T., R., M., or Survey Description, FSL & 2150 FWL UNIT	<u> </u>		NASH DRAW MORROW
SURFACE: 1628 BHL: 660 FNL &		5. 25 L	R29E 20	EDDY COUNTY, NM.
				· · · · · · · · · · · · · · · · · · ·
12. CHECK AI	PROPRIATE BOX(ES) TO		· · · · · · · · · · · · · · · · · · ·	EPORT, OR OTHER DATA
TYPE OF SUBMISSION		T	YPE OF ACTION	
Notice of Intent     Subsequent Report	<ul> <li>Acidize</li> <li>Alter Casing</li> <li>Casing Repair</li> </ul>	<ul> <li>Deepen</li> <li>Fracture Treat</li> <li>New Construction</li> </ul>	<ul> <li>Production (Start/</li> <li>Reclamation</li> <li>Recomplete</li> </ul>	(Resume) Q Water Shut-Off Q Well Integrity Q OtherRUN CASING
Final Abandonment Notice	Change Plans Convert to Injection	<ul> <li>Plug and Abandon</li> <li>Plug Back</li> </ul>	_	
If the proposal is to deepen din Attach the Bond under which following completion of the in testing has been completed. I determined that the site is read	rectionally or recomplete horizontal the work will be performed or pro volved operations. If the operation final Abandonment Notices shall by y for final inspection.)	lly, give subsurface locat vide the Bond No, on fi a results in a multiple co be filed only after all ree	tions and measured and tru le with BLM/BIA. Requir mpletion or recompletion i juirements, including recla	by proposed work and approximate duration thereous the vertical depths of all pertinent markers and zone red subsequent reports shall be filed within 30 day in a new interval, a Form 3160-4 shall be filed one imation, have been completed, and the operator has be and run 281 jts. of 7 5/8" casing
BOTT	OM: 104 JTS. 21 JTS. DV TOOL 50 JTS. 106 JTS.	7 5/8" 33 @ 6181' 3 7 5/8" 33	0 #/FT N-80 9.7 #/FT N-80 FROM SURFACE 9.7 #/FT N-80 9.7 #/FT P-110	LT&C LT&C LT&C LT&C
D167 + .1% D1 5% D4 + 6% D2 temperature sur 6250 psi. Nipp PSI. WOC 36 I	of 35:65 Class II + 5% D4 + 6% 3. Drop DV Tool opening devic 0 + .3% D167 + .2% D65 + .2% vey and determined TOC @ 3172 le up BOP, choke manifold, and	6 D20 + .3% D167 + .2 c and circulate between D46 followed by 100 S 2'. Nipple down stacks change out BOP rams collar. Test casing to	2% D65 + .2% D46 follo n stages. Cement 2 <sup>nd</sup> sta SXS Class H Neat. Lost s set slips, cut off casing, Test BOP, choke mani	by 200 SXS Class H + .3% ge w/ 1270 SXS 35:65 Class H + circulation on second stage. Run nipple up tubing head and test to ifold and safety valves to 10,000 c. Trip out with bit and pick up
14. I hereby certify that the forege Name (Printed/Typed)	P	Title		
MICHAEL S. DAUG		Date	VICE PRESIDEN	T OPERATIONS
Illicher I	1/achulu		7/30/0	
ACCEPTED	FOR RECORDS SPACE	FOR FEDERAL OR		
Approved by Dalla	F. Ellais		Title	Date
<ul> <li>certify that the applicant holds le which would entitle the applicant.</li> </ul>	re attached. Approval of this noti egal or equitable title to those right to conduct operations thereon.	ce does not warrant or its in the subject lease	Office	

Title 18 U.S.C. See RETROLEUM ENGINEER 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.

Do not use	DEPARTMENT C	ID MANAGEMENT D REPORTS ON osals to drill or t	l WELLS o ro-ontor an		-Dist. 2 ind Avenue V 882 195	RM APPROVED 18 No. 1004-0135 sires July 31, 1996 6859-A bullee or Tribe Name
SUBMIT IN T	RIPLICATE - Oth				7. If Unit or CA	JAgreement, Name and/or No.
<ol> <li>Type of Well         <ul> <li>Oil Welt OX Gas Well</li> </ul> </li> <li>Name of Operator             MURCHISON OIL         <ul> <li>Address 1100 MIRA V             PLANO, TX.</li> </ul> </li> </ol>	& GAS, INC. /ISTA BLVD. 75093-4698	3b. Eff.	one No. included	1475767 18192021 192021	<ul> <li>B. Well Name a NASH U</li> <li>9. API Well No 30-015</li> <li>10. Field and Post</li> </ul>	NIT #52 
BHL: 660 FNL 8	FSL & 2150 FW	L UNIT K SI IT C SEC 12	0CD 5C 12 T23S T23S -R2 ATE NATUR	9E	11. County or Pa EDDY C	OUNTY, NM.
TYPE OF SUBMISSION				E OF ACTION		
Attach the Bond under which following completion of the testing has been completed, determined that the site is rea Drill 6 ½" hole POH with drill st BOT	irectionally or recomplete a the work will be performed operations. If Final Abandonment No dy for final inspection.) to a measured depth of 1 ring and run 5 1/2" liner as TOM: 1 JT Float co 1 JT 1 101 JT 1	ir I New s I Plug njection I Plug state all pertinent detail the horizontally, give su ponted or provide the B the operation results in otices shall be filed on 14,432' (TVD of 13,737 follows: Float shoe 23 #/FT Landing collar 23 #/FT Liner hanger	P-110 P-110 P-110 P-110	is and measured and in with BLM/BIA. Requi lettion or recompletion ements, including recli location is 838' FNL an FL4S FL4S FL4S	andon ny proposed work ie vertical depths of red subsequent rep- in a new interval, annation, have been d 1958' FWL, Second Me: Length D 1 3' 1 38' 1 1' 1 39' 1 1' 1 3843' 1 26' 1	Well Integrity Other <u>RUN LINER</u> <u>AND CEMENT</u> and approximate duration thereco for all pertinent markers and zone ports shall be filed within 30 day a Form 3160-4 shall be filed one a completed, and the operator ha . 12, T23S, R29E. asured <u>enth</u> 4,437 4,434 4,396 4,395 4,356 4,355 0,512 0,486
w/ fresh water a	5 SX of Cemerete Blend 4 nd mud. Liner hanger at d cement at liner top. Rig	nd packer set had full re down and release rig @	turns during come	nting. Did not bump pl	17 + .4% D65 + .19 ug, float held. WC	% D800. Displaced DC 13 Hrs. Trip in
Name (Printed/Typed) MICHAEL S. DAU Signature		4	Date	VICE PRESIDEN 7/3	NT OPERATIO	DNS
ACCEF	TED FOR REAL	RDACE FOR FE	DERAL OR S	TATE OFFICE US	E	
	SGD.) DAVID R.			iile	Date	
certify that the applicant holds which would entitle the applicant	He attached. Approval legal or equitable title it to conduct operations to JAVID R. GLASS	to those rights in the	subject lease	(fice		

orm 3160-5 November 1994)

## UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

## N.M. Oil Cons. Division ROVED 811 S 1st Street Expires July 31, 19% 811 S. 1st Street National Managerial Manageria Arte

SUNDRY NOTICES AND REPORTS ON WE	
	LLS

Do not use this form for proposals to drill or to re-enter an

esia, n	IM 882	<b>39528334</b> A

Do not use th abandoned we	6. If Indian, Allottee or Tribe Name S.	
SUBMIT IN TR	IPLICATE - Other Instructions on reverse .	sldo 7. If Unit or CAJAgreement, Name and/or No.
1. Type of Well Oil Well S Gas Well	) Other	NASH UNIT 8131 8. Well Name and No.
		0700 10. Field and Pool, or Exploratory Area NASH DRAW MORROW
BHL: 660 FNL &		EDDY COUNTY, NM.
12. CHECK AP	PROPRIATE BOX(ES) TO INDICATE NATUR	RE OF NOTICE, REPORT, OR OTHER DATA
TYPE OF SUBMISSION	TY1	PEOFACTION
<ul> <li>Notice of Intent</li> <li>Subsequent Report</li> <li>Final Abandonment Notice</li> </ul>	Acidize       Deepen         Alter Casing       Fracture Treat         Casing Repair       New Construction         Change Plans       Plug and Abandon         Convert to Injection       Plug Dack	<ul> <li>Production (Start/Resume)</li> <li>Reclamation</li> <li>Recomplete</li> <li>Temporarily Abandon</li> <li>Water Disposal</li> <li>Water Disposal</li> <li>Water Disposal</li> </ul>
If the proposal is to deepen dire Attach the Eond under which to following completion of the invi- testing has been completed. If determined that the site is ready Drill 12-1/4" Cement with Class "C" N cement head off 13-3/8" wellhead. T	<ul> <li>retionally or recomplete horizontally, give subsurface location he work will be performed or provide the flond No. on file rolved operations. If the operation results in a multiple complete hole to 3120'. Run casing as follows:</li> <li>39 Jts 10-3/4" 44.22 #/ft J-5 11 Jts 10-3/4" 44.22 #/ft K-55 ST 12 Jts 10-3/4" 44.22 #/ft L-80 ST 13 Jts 10-3/4" 44.22 #/ft N-80 ST</li> </ul>	TL TL TL TL Top 6% D20 + .2% D46 followed by 130 SXS and circulated 285 SX to surface. Shut-in Nipple down BOP. Could not set slips. Cut remove surface head. Weld on 10-3/4" ad choke manifold. Test BOP to 5000 psi
14. Thereby certify that the forego Name (Printed/Typed)		
MICHAEL S. DAUGH		VICE PRESIDENT OPERATIONS
Signature Muchault	Date Date	6/8/01
	ED FOR MEHIS SPACE FOR FEDERAL OR S	STATE OFFICE USE

Approved by (QRIG. SGD.) DAVID PL GLASS Title Date \_\_\_\_\_\_\_3\_2001 \_ \_ \_ \_ \_ \_ ... \_ .. . \_ . Conditions of approval, if any, are attached. Approval of this notice does not warrant or Office 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

Title 18 U.S.C. Section 1051 Ricker H'a entire WESS person knowingly and willfully to make to any department or agency of the United States any false, fictitious of fraidulent statements of representations as to any matter within its jurisdiction.

Do not use this	UNITED STATES PARTMENT OF THE IN UREAU OF LAND MANAG NOTICES AND REPOF form for proposals to c Use Form 3160-3 (APD)	irill or to re-enternal ) for such proposals	Artesia,	st Streetal NM 8821	No. 982834 Jottee or Tribe Name
	LICATE - Other Instru	· _	হাতিত 🕺		VAgreement, Name and/or No.
1. Type of Well Oil Well CA Gas Well CO 2. Name of Operator	Other		CLCCV	8. Well Name a	NIT 8131 Ind No. NIT #52
MURCHISON OIL & GA Ja. Address 1100 MIRA VISTA		3b. Phone No. (include	area code)	9. API Well No. 30-015-	).
	093-4698	(972) 931-0	700	-1	ol, or Exploratory Area RAW MORROW
SURFACE: 1628 FSI BHL: 660 FNL & 19	L & 2150 FWL UNIT 980 FWL UNIT C S	ГК SEC 12 T23 SEC 12 T23S R2		11. County or Pr EDDY C(	urish, State DUNTY, NM.
12. CHECK APPR	ROPRIATE BOX(ES) TO	INDICATE NATUR	RE OF NOTICE, R	EPORT, OR O	THER DATA
TYPE OF SUBMISSION		TYI	PE OF ACTION		
<ul> <li>Notice of Intent</li> <li>Subsequent Report</li> <li>Final Abandonment Notice</li> </ul>	<ul> <li>Alter Casing</li> <li>Casing Repair</li> <li>Change Plans</li> </ul>	<ul> <li>Deepen</li> <li>Fracture Treat</li> <li>New Construction</li> <li>Plug and Abandon</li> <li>Plug Back</li> </ul>	<ul> <li>Production (Star</li> <li>Reclamation</li> <li>Recomplete</li> <li>Temporarily At</li> <li>Water Disposal</li> </ul>		Water Shut-Off Well Integrity Other <u>SPUD WELL</u> <u>RUN SURFACE CASIN</u> & CEMENT

- 4-1

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. Describe rioposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposed 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/BLA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

> Spud well 5/29/01 and drill 17-1/2" hole to 390'. Run 11 joints of 13-3/8" 72 #/FT N-80 BTC casing to 390'. Cement with 155 SXS of 35:65 POZ Class "C" + 6% D20 + 2% S1 + .25 #/SX D29 followed by 200 SX of Class "C" + 2% S1 + .25 #/SX D29. Full returns during cement job, bumped plug, float held, and circulated 62 SXS to surface. Cut off conductor pipe and casing and weld on casinghead. Test head to 1000 psi nipple up BOP and choke manifold. Test casing, blind rams and choke manifold to 1000 psi. Trip in hole with 12-1/4 bit. WOC a total of 34 hrs. Drill cement and shoe and resume drilling open hole.

14. I hereby certify that the foregoing is true and correct	[ m	
Name (Printed/Typed) MICHAEL S. DAUGHERTY	Title VICE PRES	IDENT OPERATIONS
Signature Michael / aujkely	Date	5/8/01
ACCEPTED FOR RECORD	AL OR STATE OFFICE	USE
Approved by (ORIG. SGD.) DAVID FI GLASS	Title	Date
Conditions of approval, if approve all the approval of this notice does not wa certify that the applicant holds legal or equivable title to those rights in the subje which would entitle the applicant to conduct operations thereon.	rrant or Office ct lease	
Title 18 U.S.C. Section 1001 Aunscritt ecrupo for any person knowingly and will fraudulent statements or representations at 10 any matter within its jurisdiction.	fully to make to any departm	ent or agency of the United States any false, fictitious o

		420				N. P.
Form 3160-3 (July 1992)	UNI	FD STATES	N.M. OIL GOISTI	Division	FORM APPRO OMB NO. 1004 Expires: February 2	-0136 TIV
Received	""DEPARTMENT	GOF THE INT	BRIOS. 1st Stree	t do oo F	5. LEASE DESIGNATION AND	
			Antesia, NM 882			
JULAPPL		ERMIT TO DR	ILL OR DEEPEN		G. IF INDIAN, ALLOTTER OR	TRIBE NAME
1a. TTCadslandsField ( Carlsbad, Th			1891011127374	15	7. UNIT AGEBEMENT NAME	
b. TIPE OF WELL			SINGLE RULTIP	·0'	NASH UNIT 8. FARM OR LEASE NAME, WELL NO	813
2. NAME OF OFERATOR	VELL X OTHER		ZONE PARZONE		NASH UNIT	52
MURCHISON	OIL & GAS, INC.	14361	RECEIVED	920	9. API WELL NO.	2~
3. ADDRESS AND TELEPHONE NO.			ARTESIA	27	X 30-015	-31510
4. LOCATION OF WELL (R	AVE., STE. 5300 Report location clearly and	In accordance with an	AS AX. 75202-28 y State (requirements.*)	383.37	10. HELD AND POOL, OR W	ILDCAT
At surince 1628	FSL & 2150' FWI	unitk	252728 <del>3</del> 9.	w T	1. SPC., T., R., M., OR BLK. AND SURVEY OR AREA	
At proposed prod. zo:		80 FWI	C Hash	Draw	SEC. 12, T23S	DODE
14. DIRTANCE IN MILES	AND DIRECTION FROM NEAR				2. COUNTY OR PARISH   13	
	OUTHEAST OF CARI	LSBAD			EDDY	NM
15. DIBTANCE FROM PROP LOCATION TO NEARES PROPERTY OR LEASE 1	T	ļ	NO. OF ACRES IN LEASE	17. NO. OF TO THU		
(Also to nearest dri 18. DISTANCE FROM FROM	g. unit line, if any)	560' BHL 19.	320	20. ROTART	320 N/2	
TO NEAREST WELL, D or Applied For, on th	RILLING, COMPLETED, 26		14000 TVD		ROTARY	
21. ELEVATIONS (Show wh	ether DF, RT, GR, etc.)		· · · · · · · · · · · · · · · · · · ·	.	22. APPROX. DATE WORK	
2985 GL					9/15/00	)
			ND CEMENTING PROGRAM	A		
17 1/2"	GRADIL SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	/ 20 . 07	QUANTITY OF CEMENT	
12 1/4"	<u>13 3/8" н-55</u> 9 5/8" J-55	<u> </u>	3100'	I	XS - CIRCULATE XS - CIRCULATE	<u> </u>
8 3/4"	7 5/8" N-80,	33.7	10330' TVD	1500 S		
6 1 (01)	S-95		10600' MD	1		
6 1/2"	5 1/2" N-80	20 #/F	10000 - 14000 T 10300 - 14600 M	IVD D		
IT IS PROP	OSED TO DRILL TH	IS WELL TO A	TD OF 14,000 TVD	AND 14.6	500' MD AND TEST	r THE
			N PROGRAM IS AS F			
1)	ONE SET OF DRI	LL PIPE RAMS	(5M)			
2)	ONE SET OF BLI		(5M)			
3)	ONE SET OF HYD	RIL	(3M)			
	<b>D</b>					
	R-11		$\sim$	7		
				spud & time		
			cementing of	of ALL CASIN	NG STRINGS	
			lata on present productive zone a rtical depths. Give blowout preven			al is to drill or
24.	1111-4	-			1	
SIGNED _//UCAL	W// Kerkerker		VICE PRESIDENT OP	ERATIONS	DATE 7/2//00	<u>ð</u>
(This space for Fede	ral or State solice use)			<u></u>		
	/					
PERMIT NO.	not warrant or certify that the ann	licant holds legal or equitable	APPROVAL DATE	ease which woul	d entitle the applicant to conduct	operations thereon.
CONDITIONS OF APPROVA	L, IF ANY:					
119		11 1		$\mathbf{D}$		
APPROVED BY 5/51	chitad of le	1. TUT ITTE 14	SSOC STATE	VIr	DATE - 5-	- 0 0
		*See Instruction	ns On Reverse Side		A Providencia	

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States are false. flatitious or fraudulant statements or approximations as to any matter within its invisition.

DISTRICT I P.O. Box 1960, Hobbs, NM 66841-1960

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

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

DISTRICT IV P.O. BOX 2006, SANTA FE, N.M. 87504-2068 State of New Mexico

Energy, Minerals and Natural Resources Department

# OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

□ AMENDED REPORT

#### **API** Number Pool Code Pool Name NASH DRAW MORROW **Property** Code **Property** Name Well Number 52 NASH **Operator** Name Elevation OGRID No. MURCHISON OIL & GAS, INC. 2985 015363 Surface Location UL or lot No. Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line County 23 S 29 E SOUTH 2150 WEST EDDY Κ 12 1628 Bottom Hole Location If Different From Surface UL or lot No. Lot Idn Feet from the North/South line Section Township Feet from the East/West line Range County 12 С 23 S 29 E 660 NORTH 1980 WEST EDDY Dedicated Acres Joint or Infill **Consolidation** Code Order No. 20 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 Ŷ OPERATOR CERTIFICATION 660' I hereby certify the the information SPACING UNIT ed herein is true and complete to the and belief. ⇒ŏ 1980 BHL Signature 2997' DISPLACEMENT MICHAEL S. DAUGHERTY Printed Name VICE PRESIDENT OPERATIONS Title 00 Date SURVEYOR CERTIFICATION I hereby certify that the well location shown 2980.3 2975.9 on this plat was plotted from field notes of actual surveys made by me or under my supervisor, and that the some is true and 0 correct to the best of my belief. SEE DETAI 2982.5 2979.7 Date Surveyed JUNE 26, 2000 - 2150' DETAIL € LMP Signatuiro & Seaf of Protessional Surveyor SURFACE, LOCATION 0 628 6/29/2000 nan h zi -0775 00 - 11Cartificate No. RONALD CEIDSON CARY EIDSON 3239 Manager Port March 12641 12185

MURCHISON OIL & GAS, INC. MURCHISON OIL COMPANY MURCHISON PROPERTIES, INC. MURCHISON REALTY, INC. JDM INTERESTS, INC.

July 21, 2000

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 #52 Eddy County, New Mexico Lease No. NM-0556859-A

## Gentlemen:

Murchison Oil & Gas, Inc. "MOGI" respectfully requests permission to drill our Nash Unit #52 with a surface location at 1628' FSL and 2150' FWL, and a bottom hole location at 660' FNL and 1980' FWL of Section 34, T24S, R26E, 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.
  - 2. Form C-102 Location and Acreage Dedication Plat certified by Gary Eidson Registered Land Surveyor No. 12641 in the State of New Mexico, dated 6/26/2000.
  - 3. The elevation of the unprepared ground is 2985 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.

APD-Nash Unit #52 Page 2

7. Estimated tops of important geologic markers.

Lamar	3070' TVD
Delaware	3140' TVD
Cherry Canyon	4170' TVD
Bone Springs	6865' TVD
3 <sup>rd</sup> 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 Atoka	12025' TVD 12147' TVD

9. The proposed casing program is as follows:

Surface: 13-3/8"	OD 68#/FT K-55 BUTT T&C casing set at 350' TVD
1 <sup>st</sup> Intermediate: 9	-5/8" OD 36#/FT J-55 ST&C casing set at 3100' TVD
2 <sup>nd</sup> Intermediate:	7-5/8" 33.7 #/FT N-80 and S-95 FL4S casing set @ 10330' TVD
Production Liner:	5 ½" 20#/FT N-80 FL4S Liner set @ 10000-14000' TVD

- 10. Casing setting depth and cementing program:
  - A. 13-3/8" surface casing set at 350', or in 17-1/2" hole. Circulate cement with 420sx 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.

B. 9-5/8" 1<sup>st</sup> intermediate casing set at 3100' in 12-1/4" hole. Circulate cement with 800sx 35:65 POZ/Class C and 200sx Class C cement with additives.

- C. 7-5/8" 2<sup>nd</sup> intermediate casing set at 10330' TVD in 8-3/4" hole. Cement with 1500sxs 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' 350' None
  - 350' 3100' 13-3/8" 5000# ram type preventers with one set blind rams and one set pipe rams and a 3000# annular preventer.
  - 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-openclose sequence of the blind and pipe rams of the hydraulic preventers.

# 12. Mud Program:

- 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.
- 350' 3100' 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<u>+</u> bbls viscous mud with 6-8 lbs/bbl LCM before coming out of the hole to run casing.
- 3100' 10330' TVD 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 #52 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 October 15, 2000 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#52-BLM-APTD

Attachments

 Job Number: Proposal
 State/Country: New Mexico / USA

 Company: MURCHISON/RK FORD & ASSOC.
 Declination: N/A

 Lease/Well: NASH #52 DIRECTIONAL
 Grid: N/A

 Location: Eddy County
 File name: C:\WINSERVE\NASH.SVY

 Rig Name: N/A
 Date/Time: 20-Jul-00 / 08:05

 RKB: N/A
 Curve Name: Nash #52

 G.L. or M.S.L.: 2985
 G.L. or M.S.L.: 2985

#### WINSERVE SURVEY CALCULATIONS Minimum Curvature Method Vertical Section Plane 356.75 Vertical Section Referenced to Wellhead Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	inci Angie Deg	Drift Direction Deg	True Vertical Depth	Subsea TVD FT	N-S FT	E-W FT	Vertical Section FT	Dogleg Severity Deg/100
KOP w/3°	DLS	<del></del>			<u></u>		<u> </u>	]
6900.00	.00	356.75	6900.00	-3915.00	.00	.00	.00	.00
7000.00 7100.00	3.00 6.00	356.75 356.75	6999.95 7099.63	-4014.95 -4114.63	2.61 10.45	15 59	2.62 10.46	3.00 3.00
7200.00 7300.00	9.00 12.00	356.75 356.75	7198.77 7297.08	-4213.77 -4312.08	23.48 41.67	-1.33 -2.37	23.51 41.74	3.00 3.00
7400.00 7500.00 7600.00	15.00 18.00 21.00	356.75 356.75 356.75	7394.31 7490.18 7584.43	-4409.31 -4505.18 -4599.43	64.97 93.32 126.65	-3.69 -5.30 -7.20	65.08 93.48 126.85	3.00 3.00 3.00
7700.00 EOB Secti	24.00 on @ 7704.	356.75 .1' MD/7680.6'		4691.81	164.85	-9.37	165.12	3.00
7704.14	24.12	356.75	7680.59	-4695.59	166.54	-9.46	166.81	3.00
Hold Inc. 8	Az. to TD					· · · · · · · · · · · · · · · · · · ·		
7804.14	24.12	356.75	7771.86	-4786.86	207.34	-11.78	207.68	.00
7904.14 8004.14 8104.14 8204.14	24.12 24.12 24.12 24.12 24.12	356.75 356.75 356.75 356.75 356.75	7863.12 7954.39 8045.66 8136.92	-4878.12 -4969.39 -5060.66 -5151.92	248.15 288.95 329.76 370.57	-14.10 -16.42 -18.73 -21.05	248.55 289.42 330.29 371.16	.00 .00 .00 .00
8304.14 8404.14 8504.14 8604.14	24.12 24.12 24.12 24.12 24.12	356.75 356.75 356.75 356.75	8228.19 8319.45 8410.72 8501.99	-5243.19 -5334.45 -5425.72 -5516.99	411.37 452.18 492.98 533.79	-23.37 -25.69 -28.01 -30.33	412.04 452.91 493.78 534.65	.00 .00 .00 .00

Measured Depth FT	inci Angle Deg	Drift Direction Deg	True Vertical Depth	Subsea TVD FT	N-S FT	E-W FT	Vertical Section FT	Dogleg Severity Deg/100
<sup>11</sup>								
8704.14	24.12	356.75	8593.25	-5608.25	574.60	-32.64	575.52	.00
8804.14	24.12	356.75	8684.52	-5699.52	615.40	-34.96	616.39	.00
8904.14	24.12	356.75	8775.79	-5790.79	656.21	-37.28	657.27	.00
9004.14	24.12	356.75	8867.05	-5882.05	697.01	-39.60	698.14	.00
9104.14	24.12	356.75	8958.32	-5973.32	737.82	-41.92	739.01	.00
9204.14	24.12	356.75	9049.58	-6064.58	778.62	-44.24	779.88	.00
9304.14	24.12	356.75	9140.85	-6155.85	819.43	-46.56	820.75	.00
9404.14	24.12	356.75	9232.12	-6247.12	860.24	-48.87	861.62	.00
9504.14	24.12	356.75	9323.38	-6338.38	901.04	-51.19	902.50	.00
9604.14	24.12	356.75	9414.65	-6429.65	941.85	-53.51	943.37	.00
9704.14	24.12	<b>356</b> .75	9505.91	-6520.91	982.65	-55.83	984.24	.00
9804.14	24.12	356.75	9597.18	-6612.18	1023.46	-58.15	1025.11	.00
9904.14	24.12	356.75	9688.45	-6703.45	1064.27	-60.47	1065.98	.00
10004.14	24.12	356.75	9779.71	-6794.71	1105.07	-62.79	1106.85	.00
10104.14	24.12	356.75	9870.98	-6885.98	1145.88	-65.10	1147.73	.00
10204.14	24.12	356.75	9962.24	-6977.24	1186.68	-67.42	1188.60	.00
10304.14	24.12	356.75	10053.51	-7068.51	1227.49	-69.74	1229.47	.00
10404.14	24.12	356.75	10144.78	-7159.78	1268.30	-72.06	1270.34	.00
10504.14	24.12	356.75	10236.04	-7251.04	1309.10	-74.38	1311.21	.00
10604.14	24.12	356.75	10327.31	-7342.31	1349.91	-76.70	1352.08	.00
10704.14	24.12	356.75	10418.58	-7433.58	1390.71	-79.02	1392.96	.00
10804.14	24.12	356.75	10509.84	-7524.84	1431.52	-81.33	1433.83	.00
10904.14	24.12	356.75	10601.11	-7616.11	1472.33	-83.65	1474.70	.00
11004.14	24.12	356.75	10692.37	-7707.37	1513.13	-85.97	1515.57	.00
11104.14	24.12	356.75	10783.64	-7798.64	1553.94	-88.29	1556.44	.00
11204.14	24.12	356.75	10874.91	-7889.91	1594.74	-90.61	1597.31	.00
11304.14	24.12	356.75	10966.17	-7981.17	1635.55	-92.93	1638.19	.00
11404.14	24.12	356.75	11057.44	-8072.44	1676.35	-95.24	1679.06	.00
11504.14	24.12	356.75	11148.70	-8163.70	1717.16	-97.56	1719.93	.00
11604.14	24.12	356.75	11239.97	-8254.97	1757.97	-97.50	1760.80	.00
11004.14	24.12	550.75	11239.97	-0234.31	1151.51	-99.00	1700.00	.00
11704.14	24.12	356.75	11331.24	-8346.24	1798.77	-102.20	1801.67	.00
11804.14	24.12	356.75	11422.50	-8437.50	1839.58	-104.52	1842.55	.00
11904.14	24.12	356.75	11513.77	-8528.77	1880.38	-106.84	1883.42	.00
12004.14	24.12	356.75	11605.03	-8620.03	<b>19</b> 21.19	-109.16	1924.29	.00
12104.14	24.12	356.75	11696.30	-8711.30	1962.00	-111.47	1965.16	.00
12204.14	24.12	356.75	11787.57	-8802.57	2002.80	-113.79	2006.03	.00
12304.14	24.12	356.75	11878.83	-8893.83	2043.61	-116.11	2046.90	.00
12404.14	24.12	356.75	11970.10	-8985.10	2084.41	-118.43	2087.78	.00
12504.14	24.12	356.75	12061.37	-9076.37	2125.22	-120.75	2128.65	.00
12604.14	24.12	356.75	12152.63	-9167.63	2166.03	-123.07	2169.52	.00
12704.14	24.12	356.75	12243.90	-9258.90	2206.83	-125.39	2210.39	.00
						. 20.00		

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	Subsea TVD FT	N-S FT	E-W FT	Vertical Section FT	Dogleg Severity Deg/100
12804.14	24.12	356.75	12335.16	-9350.16	2247.64	-127.70	2251.26	.00
12904.14	24.12	356.75	12426.43	-9441.43	2288.44	-130.02	2292.13	.00
13004.14	24.12	356.75	12517.70	-9532.70	2329.25	-132.34	2333.01	.00
13104.14	24.12	356.75	12608.96	-9623.96	2370.05	-134.66	2373.88	.00
13204.14	24.12	356.75	12700.23	-9715.23	2410.86	-136.98	2414.75	.00
13304.14	24.12	356.75	12791.49	-9806.49	2451.67	-139.30	2455.62	.00
13404.14	24.12	356.75	12882.76	-9897.76	2492.47	-141.61	2496.49	.00
13504.14	24.12	356.75	12974.03	-9989.03	2533.28	-143.93	2537.36	.00
13604.14	24.12	356.75	13065.29	-10080.29	2574.08	-146.25	2578.24	.00
13704.14	24.12	356.75	13156.56	-10171.56	2614.89	-148.57	2619.11	.00
13804.14	24.12	356.75	13247.83	-10262.83	2655.70	-150.89	2659.98	.00
13904.14	24.12	356.75	13339.09	-10354.09	2696.50	-153.21	2700.85	.00
14004.14	24.12	356.75	13430.36	-10445.36	2737.31	-155.53	2741.72	.00
14104.14	24.12	356.75	13521.62	-10536.62	2778.11	-157.84	2782.59	.00
14204.14	24.12	356.75	13612.89	-10627.89	2818.92	-160.16	2823.47	.00
14304.14	24.12	356,75	13704.16	-10719.16	2859.73	-162.48	2864.34	.00
14404.14	24.12	356.75	13795.42	-10810.42	2900.53	-164.80	2905.21	.00
14504.14	24.12	356.75	13886.69	-10901.69	2941.34	-167.12	2946.08	.00
14604.14	24.12	356.75	13977.95	-10992.95	2982.14	-169.44	2986.95	.00
PBHL@1		/14000' TVD						
14628.30	24.12	356.75	14000.00	-11015.00	2992.00	-170.00	2996.83	.00

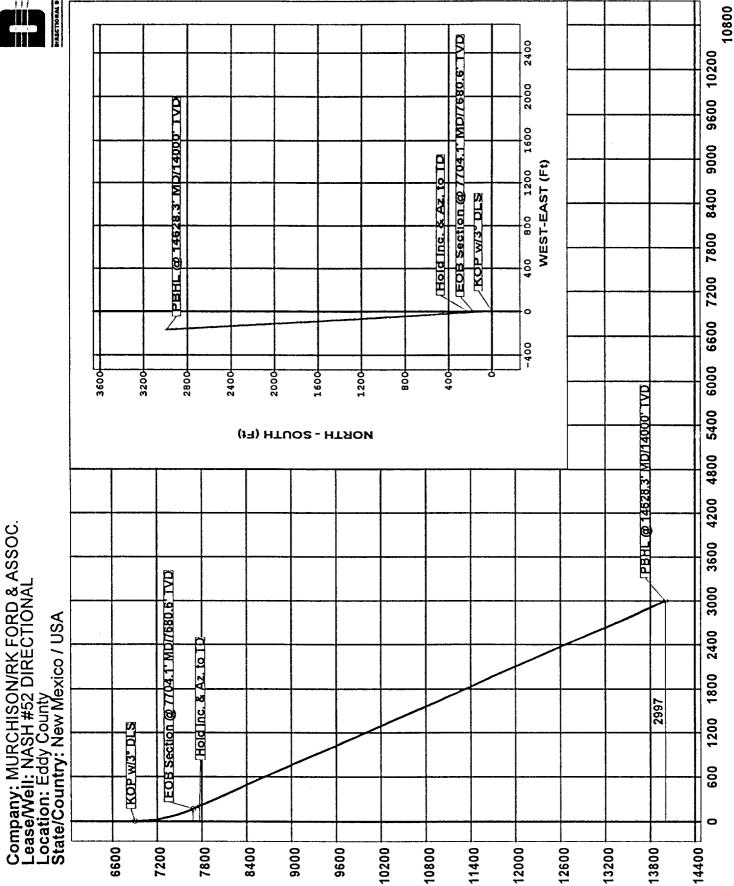
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# VERTICAL SECTION (Ft) @ 356.75°

°-- Nash #52

(<del>1</del>1) HT930 LASITAAV 3UAT





# RIg #10

# DRAWWORKS

Drewster N-46 Dreke: V80 Double Parmac Twin Dlsc Torque Converter

ENGINES Two Catorpillar 3400 Diosels, 475 HP oa

DERRICK Pyramid 136', 000,000// Rated Capacity

SUBSTRUCTURE Pyramid 18', 800,000// Solback Capacily KD = 19', Rolary Cloarancu = 15'

MUD PUMPS Pump II1: Idaco 700 w/Cat 379 Pump II2: Browstor B-750 w/Cat 379

DRILL STRING 4-1/2" Grado E, Now, 20// Drill Pipe 6-1/2" Now Drill Collars Other sizes of drill pipe and drill collars are available

# 14,500'

BLOWOUT PREVENTERS<sup>11</sup> 13 5/0" 5,000// Ram/Ram/Annular Shaller SL

### MUD SYSTEM

Shalo pil, 560 bbls, suction pil, 560 bbls, 5 sub puns, 2 oloctric mud stirrors, 2 mud mixing pumps (6x8 contrifugal), two 70 HP oloctric molors, doublo scroon high-spood vibrating shalo shakor

# MUD HOUSE

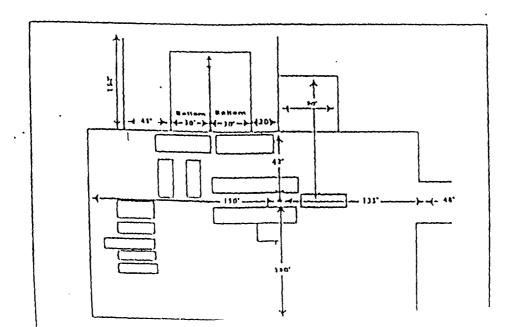
## COMMUNICATIONS

24 hour direct collular tolophone

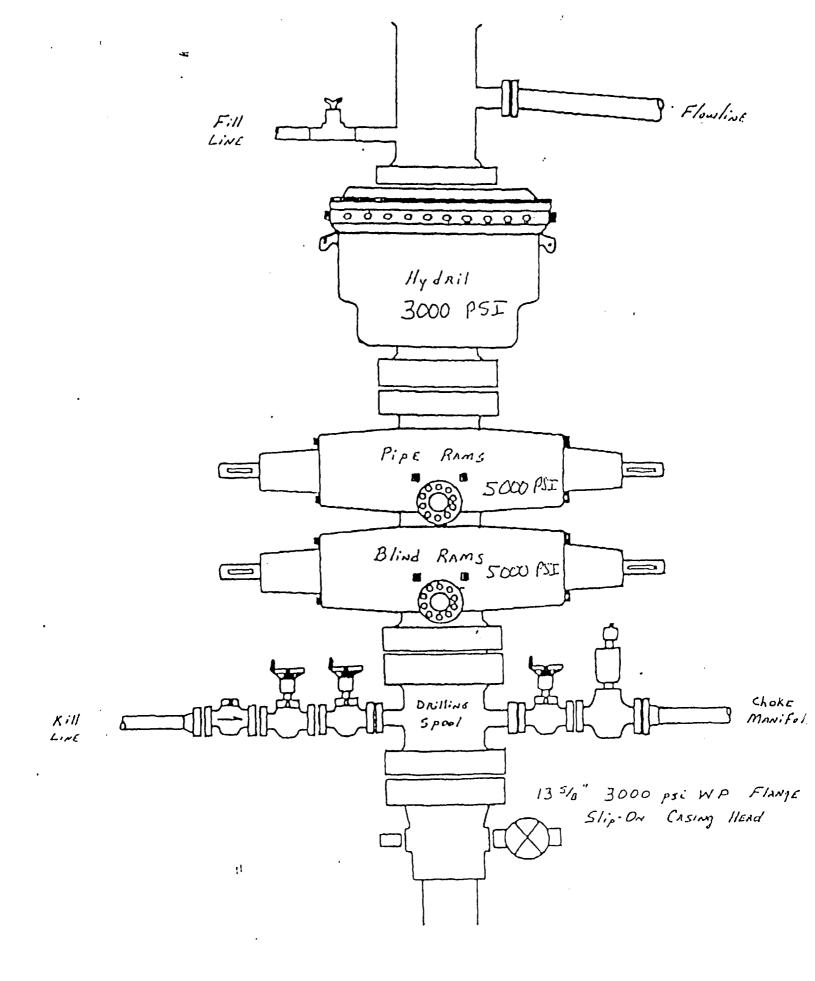
### OTHER EQUIPMENT

Blocks. Gardnor Donvor 300 Ton Hook. Gardnor Donvor 300 Ton Swivel. 7 SX Browsler 300 Ton Retary Table. Gardnor Donvor 27 ½ Electrical Power. Two 275 kW Generators w/3408 Cat Fresh Water Storage. 1000 bbls Housing.

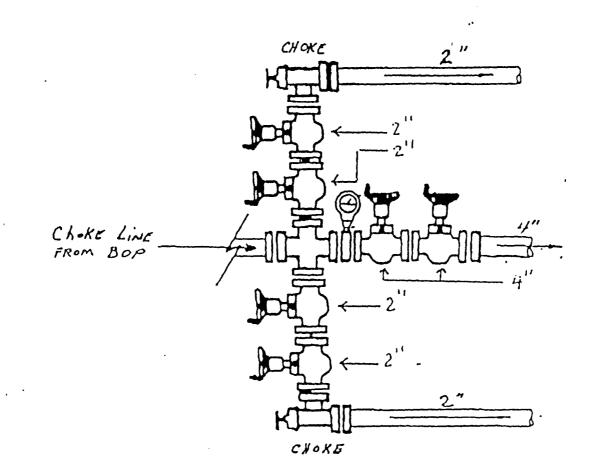
"Holo Requirements will dictate actual Reserve Pit size (TOOLPUSHER SHOULD DE CONSULTED)"



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# MULTI-POINT SURFACE USE AND OPERATIONS PLAN

# MURCHISON OIL & GAS, INC. NASH UNIT #52 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. Desert West Archaeological Services have been engaged to make an archaeological reconnaissance of the work area. Their findings concerning cultural resources will be reported to the Bureau of Land Management.

1. Existing Roads

A copy of a USGS "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 100' North of the location will be used to gain access. About 100' feet of new lease road will have to be constructed.
  - B. Surfacing material: Six inches of caliche and water, compacted and graded.
  - C. Maximum Grade: Less than 3%
  - D. Turnouts: None needed.
  - E. Drainage Design: N/A.
  - F. Culverts: None needed.

- G. Cuts and Fills: Leveling the location will require minimal cuts or fills.
- H. Gates or Cattleguards: None required.
- 3. Existing wells within a one mile radius of the proposed development well are shown on the attached map.
- 4. Location of Existing and/or Proposed Facilities
  - A. If the well is productive, production facilities will be constructed on the well pad. The facility will consist of a stack pack, one 300 bbl oil tank and one 300 bbl fiberglass water tank. All permanent above ground facilities will be painted in accordance with the BLM's painting guidelines simulating the color of sandstone brown.
  - B. All site security guidelines identified in 43 CFR 3162.7 regulations will be adhered to and a site security plan will be submitted for the Nash Unit #52 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. Drill Cuttings will be disposed of in drilling pits.
  - B. Drilling fluids will be allowed to evaporate in the drilling pits until pits are dry.
  - C. Water produced during tests will be disposed of in the drilling pits. Oil produced during tests will be stored in test tanks until sold.

Multi-Point Surface Use and Operations Plan Nash Unit #52 Page 3

- D. Current laws and regulations pertaining to the disposal of human waste will be complied with.
- E. Trash, waste paper, garbage and junk will be collected in steel trash bins and removed after drilling and completion operations are completed. All waste material will be contained to prevent scattering by the wind.
- F. All trash and debris will be removed from the wellsite within 30 days after finishing drilling and/or completion operations.
- 8. Ancillary Facilities
  - A. None needed.
- 9. Wellsite Layout
  - A. The location and dimensions of the well pad, mud pits, reserve pit and location of major rig components are shown on the attached well site layout sketch. If Patterson Drilling Company Rig #18 is not utilized a comparable rig will be substituted. The V-door will be to the North and the pits to the West.
  - B. Leveling of the wellsite will be required with minimal cuts or fills anticipated.
  - C. The reserve pit will be plastic lined.
  - D. The pad and pit area have been staked and flagged.
- 10. Plans for Restoration of the Surface
  - A. After completion of drilling and/or completion operations, all equipment and other materials not needed for operations will be removed. Pits will be filled and location cleaned of all trash and junk to leave the well site in as aesthetically pleasing condition as possible.
  - B. Any unguarded pits containing fluids will be fenced until they are filled.
  - C. After abandonment of the well, surface restoration will be in accordance with the land owner. This will be accomplished as expeditiously as possible. Barring unforeseen problems, all pits will be filled and leveled within 90 days after abandonment.

- 11. Other Information
  - A. Topography: The location is a flat plain. GL elevation is 2987'.
  - 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. Desert West Archaeological Services have been engaged to make an archaeological reconnaissance of the work area.
  - G. Land Use: Cattle ranching.
  - H. Surface Ownership: The surface is public land leased by 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. 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 1445 Ross Ave., Ste. 5300, LB 152 Dallas, TX. 75202-2883 Office Phone: (214) 953-1414 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.

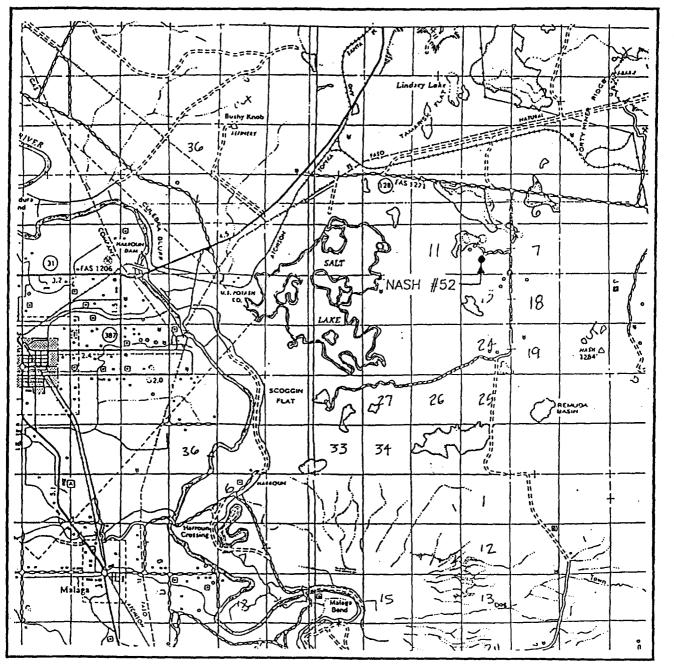
Michael S. Daugherty /

Vice President, Operations Murchison Oil & Gas, Inc.

121/00

Date

VICINITY MAP

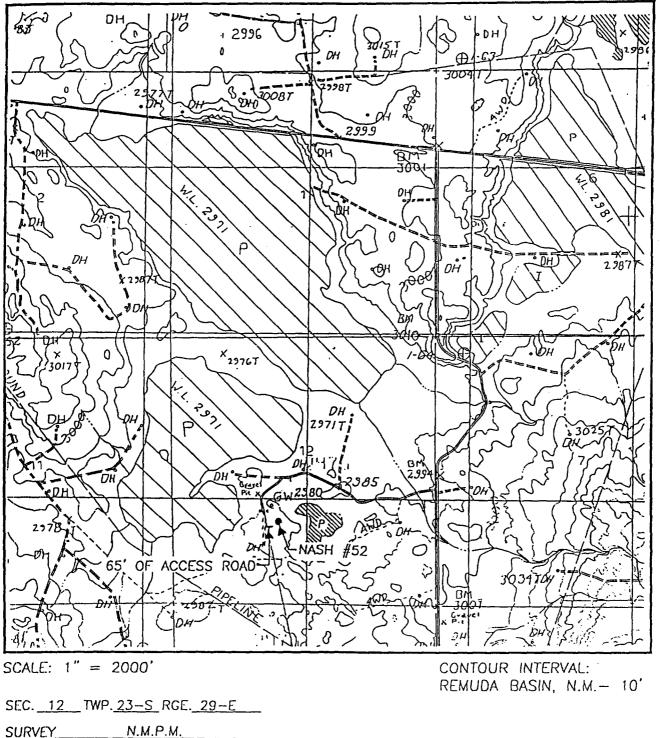


SCALE: 1'' = 2 MILES

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SEC. 12_T	VP. <u>23-S_</u> RGE. <u>29-E</u>
SURVEY	N.M.P.M.
COUNTY	EDDY
DESCRIPTION	1628' FSL & 2150' FWL
	2985
OPERATOR	MURCHISON OIL & GAS, INC.
LEASE	NASH

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



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

SURVEY N.M.P.M. COUNTY EDDY DESCRIPTION 1628' FSL & 2150' FWL ELEVATION 2985 MURCHISON OPERATOR OIL & GAS, INC. LEASE NASH U.S.G.S. TOPOGRAPHIC MAP

REMUDA BASIN, N.M.

