State of New Mexico

Form C-101 Permit 27989

Energy, Minerals and Natural Resources

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

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

	The control of the co						
1.	Operator Name and Address	2. OGRID Number					
MUR	15363						
0.03	00 MIRA VISTA BLVD LANO , TX 750934698	3. API Number					
1	FLANO, 1A /30934090						
4. Property Code	5. Property Name	6. Well No.					
35615	HACKBERRY STATE	001					

7. Surface Location

3	UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
	0	17	18S	23E	0	660	S	1980	E	EDDY

8. Pool Information

WILDCAT: WOLFCAMP GAS	97489

Additional Well Information

9. Work Type	10. Well Type		11. Cable/Rotary	12. Lease Type	13. Ground Level Elevation
New Well	GAS			State	3996
14. Multiple	15. Proposed Depth		16. Formation	17. Contractor	18. Spud Date
N	8300		Wolfcamp		7/1/2006
Depth to Ground water 400		Distance from nearest fresh water well > 1000		Distance to nearest surface water > 1000	
Pit: Liner: Synthetic 12 mils thick Clay Pit Volume: 15000 bbls Drilling Method: Closed Loop System Fresh Water □ Brine □ Diesel/Oil-based □ Gas/Air □					

19. Proposed Casing and Cement Program

Туре	Hole Size	Casing Type	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	48	300	600	0
Int1	12.25	9.625	36	1300	1100	0
Prod	8.75	5.5	17	8300	1000	0

Casing/Cement Program: Additional Comments

Depth No. Sacks Slurries: 300' 400 Lead: Class "C"+2%CaCl2+3%Econolite+1/4ppsFlocele 200 Tail: Class "C"+2%CaCl+1/4ppsFlocele 1800' 900 Lead: Class "C"+2%CaCl+3%Econolite+1/4ppsFlocele 200 Tail: Class "C"+2%CaCl+1/4ppsFlocele 8300' 500 Lead: Class "C"+2%CaCl+Econolite 500 Tail: Class "C"+2%CaCl

Proposed Blowout Prevention Program

Туре	Type Working Pressure		Manufacturer
DoubleRam	3000	3000	
Hydril	3000	3000	

I hereby certify that the information gives of my knowledge and belief. I further certify that the drilling pit	en above is true and complete to the best will be constructed according to	OIL CONSERVATION DIVISION		
NMOCD guidelines 🔀 a general pe OCD-approved plan 🗀	rmit , or an (attached) alternative	Approved By: Bryan Arrant		
Printed Name: Electronically file	ed by Michael Daugherty	Title: Geologist		
Title: Vice President Operations	U.	Approved Date: 4/21/2006	Expiration Date: 4/21/2007	
Email Address: mdaugherty@jd	mii.com	5 5 2 4 5 5 St	8.3 0.6	
Date: 4/19/2006	Phone: 972-931-0700	Conditions of Approval Attac	hed	

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

1220 S. St. Francis Dr., Santa Fe, NM 87505

District IV

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION

1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-102

Revised June 10, 2003 Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	² Pool Code	ACREAGE DEDICATION PLAT 3 Pool Name			
		WILDCAT WOLFCAMP	, ,		
⁴ Property Code	HACK	⁶ Well Number			
70GRID No. 015363		Operator Name MURCHISON OIL & GAS, INC.			

¹⁰ Surface Location UL or lot no. Section Township Range Lot Idn North/South line Feet from the East/West line County 0 17 18-S 23-E 660 SOUTH 1980 EAST **EDDY** 11 Bottom Hole Location If Different From Surface Section UL or lot no. Feet from the North/South line Feet from the East/West line County В 17 18-S 23E 760 NORTH 1880 EAST EDDY 12 Dedicated Acre ¹³ Joint or Infill 14 Consolidation Code ¹⁵ Order 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.

arvision.						
16		777	7777			
		////	1111	11111	1111	17 OPERATOR CERTIFICATION
		1		PROJEC	T . "	There and dealers and a second
	TERMINUS	7	60	PROJEC	A	I hereby certify that the information contained herein is true and complete
					4	to the best of my knowledge and belief, and that this organization either
			7K777	7717	. 7	owns a working interest in the land including the proposed bottom hole
			> -<	1880'-	-	location or has a right to drill this well at this location pursuant to a
		_ `	1 1	1000	<	contract with an owner of such a working interest, or to a voluntary
		\	1			pooling agreement or a compulsory pooling of der heretofore entered by
<u>-</u>	<u> </u>			'		the different
						Make I March
ŀ) ;	1 1 .	İ	- ~	1/VV/VV/JV/W/W/ 4/18/2006
		\ \	P	RODUCING	(Signature Date
	:	1		t .	()	
		,	1 20	AREA	L .)	MICHAEL S. DAUGHERTY
		Ι, ,	3860	7	. >	Printed Name
		()	1 10	رے		·
		\			<u> </u>	
					- \	
	•	,	1			18CLIDAEAOD CEDERACATION
	! .]			18SURVEYOR CERTIFICATION
		` `	1 1		_ \	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
		\	į			same is true and correct to the best of my belief.
		\ \ \	į i		- \	MARCH 21, 2006
]		.74247		-	Date of Survey
·		LON W	04.71104		- \	Signature and Stat of Professional Sinveyor
	SURFACE		/		- 3	
	ł _		1/		\	
	LOCATION	-	1/	1980		7
	·		111	Thin	()	7 图 5412
	•	,		, , ,	,	
		\ 0			1	Jan John Mother Start
		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			\sim	Certificate Number
	,	\ \	l			DAN R. REDDY NAM PLETISCHO 5412
	L		7777	777	111	

Permit Comments

Operator: MURCHISON OIL & GAS INC , 15363
Well: HACKBERRY STATE #001

API: 30-015-34803

Created By	Comment	Comment Date
	Mud Program: Depth Weight Viscosity Filtrate 0-1000' 8.8-8.8 28-34 No Contr 1000-4400' 8.8-9.2 28-34 No Contr 4400-5100' 8.8-9.2 28-34 10-15WL 4200-8981' 9.0-9.4 40-45 10- 20WL	

Permit Conditions of Approval

Operator: MURCHISON OIL & GAS INC , 15363 Well: HACKBERRY STATE #001

API: 30-015-34803

OCD Reviewer	Condition
BArrant	Pit construction and closure must satisfy all requirements of your approved plan, O.C.D. Rule 19.15.2.50, and the Pit and Below-Grade Tank Guidelines
BArrant	Will require a directional survey with the C-104
BArrant	Operator to drill surface and intermediate hole with clean fresh water mud.
BArrant	Please notify OCD time of spud and time to witness the cementing to surface of all casing strings.