

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

FORM APPROVED Budget Bureau No. 1004-0136 Expires: February 28, 1995

	ON FOR PERM	IIT TO DRILL OR I	DEEPE	EN	5. Lease Designation and S SF-078899	Serial No.
n. Type of Work DRILL D. Type of Well Oil Well Gas Well	DE ther	EPEN Single Well	Multiple Zc	one T	6. If Indian, Allottee or Tr 7. If Unit or CA, Agreeme	
2. Name of Operator	oil & Gas Corpora		Williple 20)iic []	8. Well Name and No. Blackrock D	No. 1R
. Address and Telephone No.	Ave Farmington NM		773		9. API Well No.	 }
Location of Well (Footages) At Surface 835' fnl	& 1235' fwl (nw nw)	MAY 20	ns of	<u> </u>	10. Field and Pool, or Exp Gallegos Glp/B	
At proposed prod. zone	Same		ad e	36757	D Sec., T., R., M., or BLE D and Survey or Area Section 20, T26	
Distance in Miles and Directions fr 22 miles South	om Nearest Town or Post Office Of Farmington, NM	() () () () () () () () () () () () () (. 1859	/	12. County or Parish San Juan	13. State
5.Distance from Proposed (Also to n Location to Nearest	nearest drig. unit line, if any) 16.N	io. of Acres in Lease	1	7.No. of Acres Assig	ned to This Well	
Property or Lease Line, Ft	835'	~2561 acres		320 a	icres WZJK	80 WAN
B. Distance from Proposed Location To Nearest Well Drilling, Completed	19.1	Proposed Depth	2	O.Rotary or Cable T	ools	
Or Applied for, on this Lease, FT	835'	~6100'		Rotar	У	
1 Elevations (Show whether DF, RT, C			2	2. Approximate Da	e Date Work will Start	
	6158' GR, 6171' RKE	•		July,	2004	
		ED CASING AND CEMENTING			· · · · · · · · · · · · · · · · · · ·	
SIZE OF HOLE 12 1/4" 9	SIZE & GRADE OF CASING 5/8" J55	32.3 ppf	~240' KE	IG DEPTH	QUANTITY OF C ~150 cuft (100% e	
	7" J55	23 ppf	~4100' K		~974 cuft (60% ex	
	1 ½" J55 Liner	10.5 ppf	~6100' K		~467 cuft (60% ex	
		to ~240' and set 9 %" 32.3# J55 surfacem. May run open-hole surveys.	ce casing, ce	ement to surface	with ~150 cuft (100% ex	cess). Will drill
		00' KB to surface and cement in one si 30% excess) Type III cement to fill from			s of mud cleaner, 5 bbls	of H₂O,
ollowed by ~928 cuft Premium Li Top of Cement should	te and tail in with ~159 cuft (6 I circulate to surface (will adju		total depth t	to surface. ement does not i	reach surface, a temper	
Top of Cement should ement bond log will be run to det Will wait on cement m Vill circulate hole clean and test f	te and tail in with ~159 cuft (6 d circulate to surface (will adjutermine top of cement. A cem dinimum of 12 hours. Will rig ut for natural inflows. Will run op	60% excess) Type III cement to fill from ust volumes based upon caliper log if a	vailable). If contained to total depth to total depth to total pf J55 product	to surface. ement does not a to the BLM after of I depth ~ 6100' k ction liner from ~	reach surface, a temper completion of the job. (B through Gallup and D 4000' KB to TD @ 6100	ature log or lakota intervals. ' KB. Will
Top of Cement should ement bond log will be run to det Will wait on cement m Vill circulate hole clean and test fement with 10 bbls conditioning	te and tail in with ~159 cuft (6 d circulate to surface (will adjutermine top of cement. A cem sinimum of 12 hours. Will rig ut for natural inflows. Will run op spacer, 5 bbl fresh water spa	50% excess) Type III cement to fill from ust volumes based upon caliper log if a nenting chronology will be recorded and up air equipment and air drill out with 6 nen-hole surveys. Will run a 4 ½" 10.5pp	vailable). If contained to total depth to total depth to total pf J55 product	to surface. ement does not a to the BLM after of I depth ~ 6100' k ction liner from ~	reach surface, a temper completion of the job. (B through Gallup and D 4000' KB to TD @ 6100	ature log or lakota intervals. ' KB. Will
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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

District IV

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

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

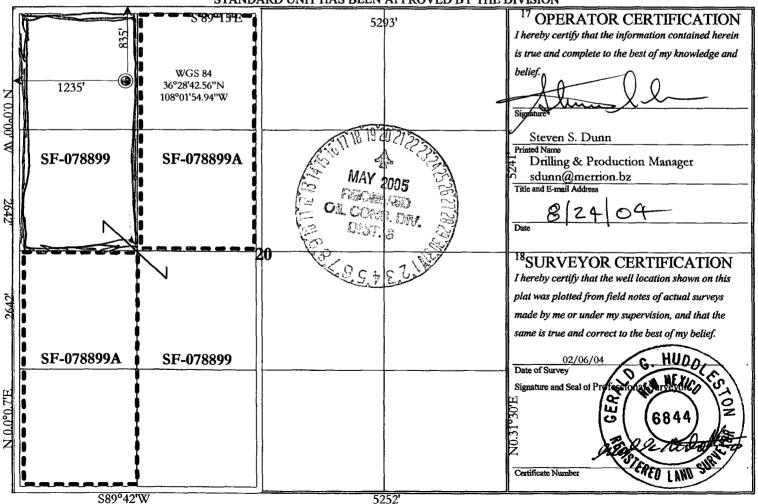
☐ AMENDED REPORT

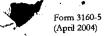
WELL LOCATION AND ACREAGE DEDICATION PLAT

30-045	-32	717	26	5980/7159	9	Gallegos Gallup/Basin Dakota				
- Property	Code	⁵ Property Name					6 We	6 Well Number		
15483			Blackrock D					1R		
OGRID '7	No.		8 Operator Name				91	Elevation		
01463	4 _		Merrion Oil & Gas Corporation					6158'		
					¹⁰ Surface L	ocation				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
D	20	26N	11W		835'	North	1235'	West	San Juan	
			¹¹ Bot	tom Hol	e Location If	Different From	Surface			

UL or lot no. Section Township East/West line Range Lot Idn Feet from the North/South line Feet from the County 12 Dedicated Acres ³ Joint or Infill 14 Consolidation Code Order No. 320.00 Y Communitization in progress \mathbf{C}

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





UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires March 31, 2007

SHMDDY	NOTICES	AND	REPORTS	ON WELLS
SUMING	MCHILLES.	ANII	REPURIS	UNIVERSE

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

5. Lease Serial No. SF-078899

abano	oned well. Use Form 3160	0-3 (APD) for such propo	sals:5 AA 10	75	Allottee or Tribe Name
SUBMIT	IN TRIPLICATE - Other	Instructions on revers	se side: IVED	7. If Unit or	CA/Agreement, Name and/or No.
	Gas Well Ot	070 F	FARMINGTON	8. Well Nam Black	e and No. rock D No. 1R
2. Name of Operator Merrion Oil & Gas Co	rporation		19 20 7 35 PM	9. API Well	No.
3a. Address 610 Reilly Avenue, Farmington		hone No. (include area code) (505.324.5300	40	1	
4b. Location of Well (Footage, Sec. T., R., 8 835' fnl & 1235' fwl (nw		17. 18. 21. 0°	MAY 2005	Gallego	Pool, or Exploratory Area os Gallup/Basin Dakota
Section, 20, T26n, R11V	/, NMPM		Der Dry.	San Jua	or Parish, State an County, New Mexico
12. CHE	CK APPROPRIATE BOX(E	S) TO INDICATE RATUR	E OF NOTICE, REP	Őrt, or oʻ	THER DATA
TYPE OF SUBMISSION		- T	GEOF ACTION		
√ Notice of Intent	Acidize Alter Casing	Deepen Fracture Treat	Production (State	rt/Resume)	☐ Water Shut-Off ☐ Well Integrity
Subsequent Report	Casing Repair	New Construction	Recomplete		√ Other Modify APD Form
Final Abandonment Report	Change Plans Convert to Injection	Plug & Abandon Plug Back	Temporarily Ab Water Disposal	andon	
13. Describe Proposed or Completed Opera recomplete horizontally, give subsurface locatio BLM/BIA. Required subsequent reports shall be be filed once testing has been completed. Final inspection.) I am submitting a new cover forms submitted with the origin	ns and measured and true vertical depth e filed within 30 days following comple Abandonment Notices shall be filed onl for the APD package for t	is of all pertinent markers and zones. A tion of the involved operations. If the ly after all requirements, including recl the Blackrock D1R along	Attach the Bond under which the operation results in a multiple of amation, have been completed, with a new Well Local control of the control	the work will be per completion or reconduction, and the operator ation and A	erformed or provide the Bond No. on file with completion in a new interval, a Form 3160-4 shall has determined that the site is ready for final creage Dedication Plat. Both
		. 0r			,

proposed was incorrect on the original submission.

Please substitute the attached pages for the same pages in the APD package. Sorry for the inconvenience.

14. I hereby certify that the foregoing is true and correct	
Name (Printed/Typed) Steven S. Dunn	Title Drilling & Production Manager
Signature	Date August 24, 2004
THIS SPACE FOR EEDED	AL OR STATE OFFICE USE
, I HIS SPACE FOR FEDERA	AL OR STATE OFFICE USE
Approved by Blankis was	Title AFM Date 5-18-05
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that applicant holds legal or equitable title to those rights in the subject lease which would entitle the approval to conduct operations thereon.	

Title 18 USC Section 1001 and Title 43 USC 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.

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED Budget Bureau No. 1004-0136 Expires: February 28, 1995

APPLICAT	ION FOR PE	RMIT TO DRIL	L OR DEEP	EN	5. Lease Designation and SF-078899	Serial No.
la. Type of Work DRIL b. Type of Well	L 🛛	DEEPEN []	970 (La			
Oil Well Gas Well	Other	Single	Well Multiple	Zone	8. Well Name and No.	
2. Name of Operator Merrion 3. Address and Telephone No.	Oil & Gas Corpo	oration		·	Blackrock D	No. 1R
610 Reilly	y Ave Farmington N 327-9801	NM 87401	**************************************		9. API Well No.	/5322
4 Location of Well (Footages) At Surface 1 620	' fnl & 1 085 ' fwl (nw ノンスら	nw)	17 10 19 30 37		10. Field and Pool, or Exp Gailegos Gallu	
At proposed prod. zone	Same		MAY 2005		11. Sec., T., R., M., or BL and Survey or Area Section 20, T2	
14. Distance in Miles and Direction 22 miles Sou	is from Nearest Town or Post Off th of Farmington, N	P.C			12. County or Parish San Juan	13. State NM
15.Distance from Proposed (Also Location to Nearest	to nearest drig, unit line, if any)	16.No. of Acres in Lense		17 No. of Acres Assig	ned to This Well	
Property or Lease Line, Ft	880'	~2561 asces	157 ME	320 a	acres	
18 Distance from Proposed Location To Nearest Well Drilling, Comple		19. Proposed Depth		20. Rotary or Cable T	ools	****
Or Applied for, on this Lease, FI	0001	-6100′		Rota	ry	
21 Elevations (Show whether DF. R		NCD		22. Approximate Da	te Work will Start	
	6158' GR, 6171' F	KKB		July,	2004	
****		POSED CASING AND C	EMENTING PROGRA	M		
SIZE OF HOLE	SIZE & GRADE OF CASI 9 %" J55		₹ FOOT SETT	ING DEPTH	QUANTITY OF	
12 ½" 8 ¾"	7" J55	32.3 ppf 23 ppf	~4100'		~150 cuft (100% e	
6 1/4"	4 1/2" J55 Liner	10.5 ppf	~6100		~174 cuft (60% ex	
8 3/4" hole to ~4100 KB with lov	v solids non-dispersed mud 55 intermediate casing from	~4100' KB to surface and c	surveys. ement in one stage. Will	cement with 10 bb	·	,
Top of Cement sho cement bond log will be run to	ould circulate to surface (will determine top of cement. A	adjust volumes based upon cementing chronology will b	caliper log if available). It e recorded and submitted	f cement does not it I to the BLM after o	reach surface, a temper completion of the job.	rature log or
Will wait on cemen Will circulate hole clean and te cement with 10 bbls conditioning	st for natural inflows. Will ru		n a 4 ½" 10.5ppf J55 proc	duction liner from ~	4000' KB to TD @ 610	0' KB. Will
The production line	er will be centralized through	the Dakota and Gallup inter	vals.			
Will test Gallup and casing will be conducted with a attached.		casing. Will fracture stimula ating head for air drilling in p				
Gas sales tie-in will	l be on lease by laying line t	to nearest existing sales poir	nt at the Blackrock D1 loc	ation. No off-lease	ROW is required for thi	is project.
IN ABOVE SPACE DESCRIBE PI		al to deepen, give present productive	zone and proposed new product	ive zone. C	OPIES: BLM#) WE	ELL FILE+1
24. I hereby certify that the fores	going is true and correct	Steven S. Dunn	Title Drilling & P	roduction Man	ager Date March	17, 2004
(This space for Federal or State	e office use)			r <u></u>		
Permit No. Application approval does not Conditions of approval, if any	warrant or certify that applicant hol	ds legal or equitable title to those rig	shts in the subject lease which w	Approval Date ould entitle the applican		n.
APPROVED BY:	Jun bya	ю т	ITLE DIVE IN	an head	© , ₹	8102

NMOCD

DRILLING OPER CIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".

MERRION OIL & GAS CORPORATION

DRILLING TECHNICAL PROGRAM

(Attachment to Form 3160-3)

Blackrock D No. 1R

835' fnl & 1235' fwl (nw nw) Section 20, T26N, R11W, NMPM San Juan County, New Mexico

1. ESTIMATED FORMATION TOPS:

Formation .	Depth-MD	Formation	Depth-MD
Undiff. Tertiary	Surface	Menefee	2730'
Ojo Alamo	300'	Point Lookout	3885'
Kirtland	450'	Mancos	4080'
Fruitland	1120'	Gallup	4910'
Pictured Cliffs	1370'	Graneros	5850'
Lewis	1520'	Dakota	5942'
La Ventana	2230'	Total Depth	6100'

2. WELL CONTROL SYSTEM

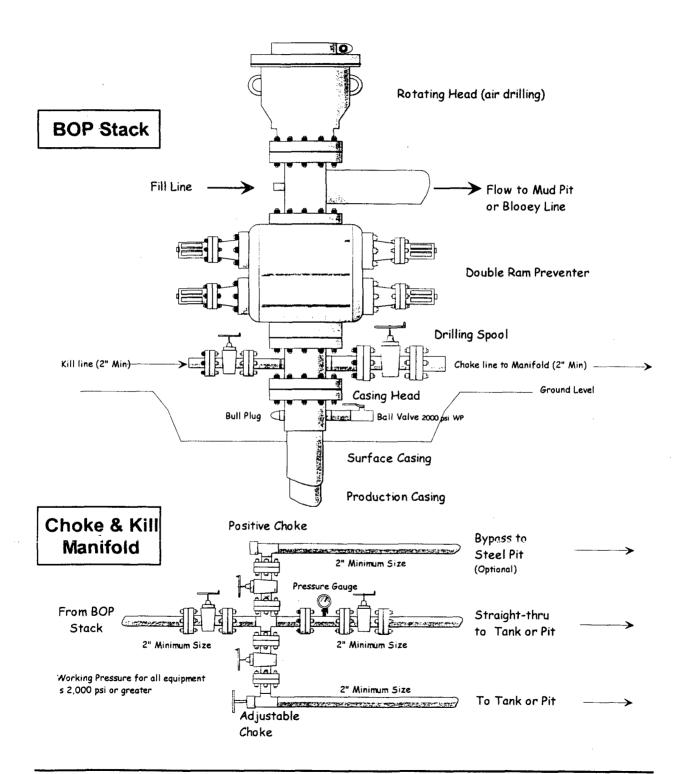
- A. Proposed blowout preventer system (schematic drawing follows) is a double-ram type preventer, and will be used in 2000 psi service.
- B. Minimum required working pressure rating for BOP stack is 2000 psi. Maximum anticipated bottomhole pressure = 1769-psi. Well Control Anticipated Surface Pressure (ASP) = 1769-psi (0.22 * 6100) = 427 psi, assuming a partially gas cut column per BLM guidelines.
- C. BOP pressure testing will be conducted at time of installation and prior to drillout of surface casing shoe. Ram type preventer will be tested to 1000 psi. The BOPs will be activated on each trip for a bit and recorded in the driller's log. A choke manifold will be installed (Refer to the enclosed schematic drawing). Working pressure for choke manifold is greater than 2000 psi. In addition, a kill line from the mud pump will be installed.
- D. Stabbing valves for drill pipe and drill collars will be available on the rig floor. A Kelly cock valve will be installed.
- E. Anticipated formation pressures average 0.29 psi/ft gradient and formation fracture initiation pressures are anticipated to exceed the maximum mud weight of 9.2 ppg except through the depleted Gallup and Dakota pay intervals where air drilling will be used.

3. DRILLING MUD PROGRAM

- A. A 12 1/4" surface hole will be drilled with fresh water system, lime and gel added to provide viscosity as needed.
- B. An 8 3/4" hole will be drilled to ~ 4100' utilizing a low solids non-dispersed mud system. Additives such as starch, cmc, and others will be used to control mud characteristics as necessary. No materials of a hazardous nature will be added to the drilling fluid in hazardous quantities.

Merrion Oil & Gas Corporation Well Control Equipment Schematic for 2M Service

Attachment to Drilling Technical Program



Lost circulation materials will be stored on location.

Mud weighting materials will be stored on location.

<u>INTERVAL</u>	<u>MUD SYSTEM</u>	WEIGHT #/GAL	VISCOSITY <u>SEC/Q</u> T	WATER LOSS CC
0 - 240'	Native	< 9.0	35-55	NA
240' - 4100'±	LSND	8.6-9.2	28-45	NA
4100' - 6100'±	Air	NA		

Maximum anticipated mud weight is 9.2 lb/gal (0.48 psi/ft).

C. Mud trip monitoring will be done visually.

4. HAZARDS

- A. Abnormal Pressure is not expected to be a problem in this area.
- B. Lost circulation is not expected to be a problem in this area. Lost circulation materials will be stored on location and mud weights will be controlled.
- C. No H₂S is expected. However, should H₂S be found during drilling, detection and warning equipment will be installed.
- D. Unintentional hole deviation is not expected to be a problem. Single shot surveys giving hole inclination will be run a minimum of every 500 feet.

5. LOGGING AND TESTING

- A. An induction, neutron-density log may be run in the intermediate casing hole across zones of interest. In addition, an induction-density log will be run from total depth back to intermediate casing.
- B. Drill stem tests will not be run.
- C. No coring is anticipated.
- D. A mud logging unit may be used during drilling.

6. CASING PROGRAM

A. Casing:

	Description	Тор	Bottom	
1	9 % " 32.3 ppf J55	Surface	240 ft ±	
2	7" 23 ppf J55	Surface	4100 ft ±	
3	4 ½" 10.5 ppf J55	4000 ft ±	6100 ft ±	

Merrion requests that a variance be granted to allow us to set surface casing at the proposed depth of \pm 240' because this setting depth has been shown to be adequate as demonstrated by the

inumberable wells that have been previously drilled in the area without incident. In addition, the potential for a gas kick is very low.

Estimated formation pore pressure gradient is ~0.29 psi/ft.

B. For a proposed wellbore schematic see the following page.

3/4/2004

Merrion Oil & Gas Corporation Wellbore Schematic

Blackrock D No. 1R

Proposed Wellbore Configuration

