# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

APPROVED BY:
LICH IN CREAT FOR STATES Change 1-947

# **ROW/APD**

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

	ON FOR PERM	IIT TO DRILL OR	DEEP	ÆΝ	5. Lease Designation a SF-080384-E	
Type of Work DRILL	⊠ DE	EPEN			6. If Indian, Allottee o	r Tribe Name
Type of Well		5-7			7. If Unit or CA, Agre	ement Designation
Oil Well Gas Well Oth	her	Single Well	Multiple	Zone		780
	il & Gas Corpora	tion			8. Well Name and No. Hickman	A No. 3R
Address and Telephone No. 610 Reilly A	ve Farmington NM	87401		···	9. API Well No.	
ph: (505) 32					30-045	-3089
Location of Well (Footages)  At Surface 7567	8. <del>936</del> fwl. <del>(577 50</del> ) 1 446.				10. Field and Pool, or Basin Fruitla	Exploratory Area
At proposed prod. zone	Same				11. Sec., T., R., M., or	
					Section 10, 7	
Distance in Miles and Directions fro	om Nearest Town or Post Office				12. County or Parish	13. Stete
18 miles south c	of Farmington NM, n	ear Chaco Plant			San Juan	NM
Distance from Proposed (Also to ne Location to Nearest	earest drig. unit line, if any) 16.N	o. of Acres in Lease		17.No. of Acres Ass	gned to This Well	
	823'	958 acres		320	acres 5/2	
Distance from Proposed Location to Nearest Well Drilling, Completed,		roposed Depth		20.Rotary or Cable	Tools	
	~100'	-1515'		Rota		
Elevations (Show whether DF, RT, GI	68, etc) <del>6074' GR, 6</del> 079' RKE 0906 L	3		22. Approximate D	ate Work will Start oon as permitted	
SIZE OF HOLE	PROPOS SIZE & GRADE OF CASING	ED CASING AND CEMENTING WEIGHT PER FOOT		M ING DEPTH	QUANTITY O	E CEMENT
3-3/4" 7'	" J55	23 ppf	~120' k		~30 sx (35 cuft)	F CEMENT
5-1/4" 4	-1/2" J55	10.5 ppf	~1515'	KB	~118 sx (179 cu	ıft)
Merrion propose	es to drill 8-3/4" hole w	ith native mud to approx 120'	and set	7" 23# J55 su	rface casing . ce	ment to
surface with ~30 sx 'B' warnud system. Will set 4-1 followed by ±74 sx 'B' (87 volumes based upon caling A water spacer with treach surface, a tempowill test Fruitlan operations below surface Additional drilling technic Additional drillog are the documents of t	of 2% CaCl2 (35 cuft).  1/2" 10.5 ppf J55 prodution of the fill from the fill fill fill fill fill fill fill fil	ith native mud to approx 120' Will drill 6-1/4" hole to TD @ action casing from TD to surfact to to a surface. Top of the lead slurry to prevent in the bond log will be run to determated casing. Will fracture stimpted with a Bag type BOP in pretails and locator maps are or gical clearance, T&E and EA. ance outside the existing local	approx 1 ce. Will of Ceme nud conta nine top nulate and lace, min n file in th	515' KB with cement with a nt should circle amination of to cement. If put on for p imum working the original Hickers	low solids non-di 245 sx 'B' (92 cuff culate to surface ( the cement. If ce roduction test. D g pressure 1000 p	spersed c) lead slurry will adjust ment does rilling osig. package.
surface with ~30 sx 'B' warnud system. Will set 4-1 followed by ±74 sx 'B' (87 volumes based upon caling the color of the	of 2% CaCl2 (35 cuft).  1/2" 10.5 ppf J55 product  7 cuft) cement to fill from  iper log).  will be pumped ahead  perature log or cement  and Coal through perform  e casing will be conduct  cal details attached.  coments for Archaeolo-  ill be no further disturbed.	Will drill 6-1/4" hole to TD @ action casing from TD to surface. Top of the lead slurry to prevent not be been as to be surface. Top of the lead slurry to prevent not be surfaced casing. Will fracture stimpted with a Bag type BOP in pretails and locator maps are or gical clearance, T&E and EA.	approx 1 ce. Will of Ceme nud conta nine top o nulate and lace, min n file in th The origition.	515' KB with cement with a nt should circle amination of to cement. If put on for p imum working the original Hickers	low solids non-di 245 sx 'B' (92 cuff culate to surface ( the cement. If ce roduction test. D g pressure 1000 p	spersed c) lead slurry will adjust ment does rilling osig. package.
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3142/1558

Form 3160-5 (August 1999)

#### **UNITED STATES** DEPARTMENT OF THE INTERIOR

#### FORM APPROVED OMB NO. 1004-0135 Expires: November 30, 2000 **BUREAU OF LAND MANAGEMENT** 5. Lease Serial No.

SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to re-enter an

6.	If Indian,	Allottee	or Tribe	Name

NMSF080384B

abandoned wei					
SUBMIT IN TRII	7. If Unit or CA/Agree 30-045	ment, Name and/or No.			
Type of Well     ☐ Oil Well ☐ Gas Well ☑ Oth	er: COAL BED METHAN	E		8. Well Name and No. HICKMAN A 3R	
Name of Operator     MERRION OIL & GAS CORP	Contact:	CONNIE DINMING E-Mail: merrion@cyberport.com		9. API Well No. 30-045-30897-0	D-X1
3a. Address 610 REILLY AVE FARMINGTON, NM 87401-26	10. Field and Pool, or Exploratory BASIN				
4. Location of Well (Footage, Sec., T	., R., M., or Survey Description	n)		11. County or Parish, a	nd State
Sec 10 T26N R12W SWSW 8	SAN JUAN COUNTY, NM				
12. CHECK APPF	ROPRIATE BOX(ES) TO	O INDICATE NATURE OF N	IOTICE, RI	EPORT, OR OTHER	R DATA
TYPE OF SUBMISSION		TYPE OF	ACTION		
Tale: Classes	☐ Acidize	☐ Deepen	☐ Product	ion (Start/Resume)	☐ Water Shut-Off
☑ Notice of Intent	☐ Alter Casing	☐ Fracture Treat	☐ Reclam	ation	■ Well Integrity
☐ Subsequent Report	☐ Casing Repair	■ New Construction	☐ Recomp	olete	☑ Other
☐ Final Abandonment Notice	☐ Change Plans	☐ Tempor	arily Abandon	Change to Original A PD	
e de la companya de l	☐ Convert to Injection	☐ Plug Back	☐ Water I	Disposal	en Till om grundlige stadt sterne i der sterne
13. Describe Proposed or Completed Ope If the proposal is to deepen directions Attach the Bond under which the wo following completion of the involved testing has been completed. Final Al determined that the site is ready for f	ally or recomplete horizontally, rk will be performed or provide operations. If the operation re- pandonment Notices shall be fi	give subsurface locations and measure the Bond No. on file with BLM/BIA esults in a multiple completion or reco	red and true vo Required submpletion in a	ertical depths of all pertin bsequent reports shall be new interval, a Form 316	ent markers and zones. filed within 30 days 0-4 shall be filed once

Merrion Oil & Gas proposes to change the location for the subject well. It was originally staked at 823' fsl & 838' fwl. A new topo locator map, cut/fill diagram and C-102 are attached. The new well will be on the existing Hickman A No. 1R location so there will be no additional surface disturbance. The gas will be sold through the existing Hickman A No. 1R pipeline and no additional access will be required.

14. I hereby certify	For MERRION	#9539 verified by the BLM Well Information System OIL & GAS CORP, sent to the Farmington processing by Lucy Bee on 05/17/2002 (02LXB07685	
Name (Printed/I	yped) CONNIE DINNING	Title ENGINEER	
Signature	(Electronic Submission)	Date 12/04/2001 OR FEDERAL OR STATE OFFICE USE	
Approved By	/s/ Jim Lovato	Title	Date AUG - 9 202
certify that the applica	al, if any, are attached. Approval of this notice doe ant holds legal or equitable title to those rights in the applicant to conduct operations thereon.	es not warrant or he subject lease Office	
Title 18 U.S.C. Section States any false, fict	on 1001 and Title 43 U.S.C. Section 1212, make it titious or fraudulent statements or representations a	a crime for any person knowingly and willfully to make to an as to any matter within its jurisdiction.	ny department or agency of the United

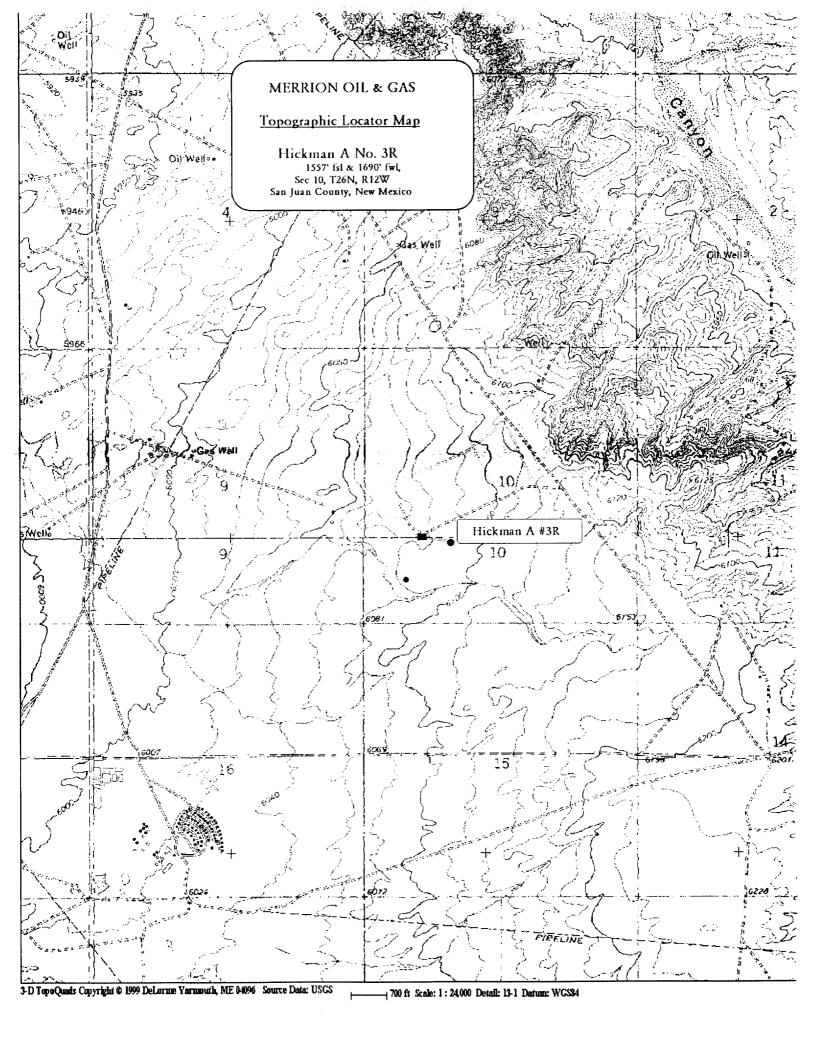
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# State of New Mexico Energy, Minerals & Mining Resources Department OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

MENDED REPORT

		·	#1 CL		ICIN AND A	Chence (	<u>JEDICK NOT</u>	Pool Name	
30-09	PA Numi		ר'	Pool Cod	id.		Basin	Fruitland	Coal
Property (	Coope	Property Name					Well Number		
780					HICKMAN				3 R
QCRD N		1			Operator No				Bevation
1463				ME	RRION OIL				6090
		1	·			• Lacation			
UL or Lol	Sec.	Tup.	Rge.	Loi kin	Feet from>	North/South	Feet from>	Eart/West	County
K	10	26 N.	12 W		1557	SOUTH	1690	WEST	SAN JUAN
	<u> </u>		<del></del>	Batto	u Hole Location				
UL or Lot	Sec.	Tep.	Rge.	Lot lan.	Feet from>	North/South	Feet from>	Eart/West	County
Dedication	الله ا	int?	Consolido	tion			, Ord	ler No.	
<b>N</b>	***************************************							I herel contain to the belief. Signatu  Printec  Title  Date	RATOR CERTIFICATION by certify that the information and herein is true and completed best of my knowledge and  The Connie S. Dinning  Production Engineer  November 30, 2001  RVEYOR CERTIFICATION
	90'		K		-080384	-В		on thi nates or une same of my Date	by certify that the well locate plat was platted from field of actual surveys made by modern my supervision, and that this true and correct to the belief.  of Survey  NGV HUBD  Treed Survey
				- 1				∴ In ∀ 6	



### **MERRION OIL & GAS CORPORATION**

## **DRILLING TECHNICAL PROGRAM**

(Attachment to Form 3160-3)

#### HICKMAN A NO. 3

823' fsl & 838' fwl (sw sw) Section 10, T26N, R12W, NMPM San Juan County, New Mexico

#### 1. ESTIMATED FORMATION TOPS:

<b>FORMATION</b>	DEPTH KB	EST PSI
Kirtland Shale	328'	
Fruitland	713'	
Main Coal	1290'	335 psi
Pictured Cliffs	1312'	341 psi
Total Depth	1515'	•

#### 2. WELL CONTROL SYSTEM

- A. Proposed blowout preventer system (schematic drawings attached) is a BAG type preventer, and will be used in 1000 psi service. Merrion requests a waiver from O&G Order No. 2 requirements for 2M service.
- B. Minimum required working pressure rating for BOP stack is 1000 psi. Anticipated bottomhole pressure = 394 psi. Well Control Anticipated Surface Pressure (ASP) = 390 psi (0.22 \* 1515') = 61 psi, assuming a partially gas cut column.
- C. BOP pressure testing will be conducted at time of installation and prior to drillout of surface casing shoe. BAG type preventer will be tested to 250 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 schematic drawing). Working pressure for choke manifold is greater than 1000 psi. In addition, a kill line from the mud pump will be hooked to the bradenhead as depicted in the schematic.
- D. Stabbing valves for drill pipe and drill collars will be available on the rig floor. No kelly cock valve will be installed.

#### 3. DRILLING MUD PROGRAM

- A. A 9-3/4" surface hole will be drilled with fresh water system, lime and gel added to provide viscosity as needed.
- B. A 6-1/4" hole will be drilled to total depth utilizing a native 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.

Lost circulation materials will not be stored on location.

Mud weighting materials will not be stored on location.

<u>INTERVAL</u>	MUD SYSTEM	WEIGHT #/GAL	VISCOSITY <u>SEC/QT</u>	WATER LOSS CC
0 - 120'	Native	< 9.0	35-55	NA
120' - 1515'±	Native	8.6-9.0	28-45	NA

Maximum anticipated mud weight is 9.0 lb./gal (0.47 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 major problem in this area.
- C. No H<sub>2</sub>S is expected. However, should H<sub>2</sub>S 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 on the vertical well.

#### 5. LOGGING AND TESTING

- A. An Induction, Density Log will be run from TD to surface.
- B. Drill stem tests will not be run.
- C. No coring is anticipated.
- D. No mud logging unit will be used during drilling.

#### 6. CASING PROGRAM

A.

		Description	Тор	Bottom
	1	7" 23# J55	Surface	120' ft ±
2	2	4-1/2" 10.5# J55	Surface	1515' ft ±

B. A wellbore schematic is attached.