APPROVED BY:

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

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

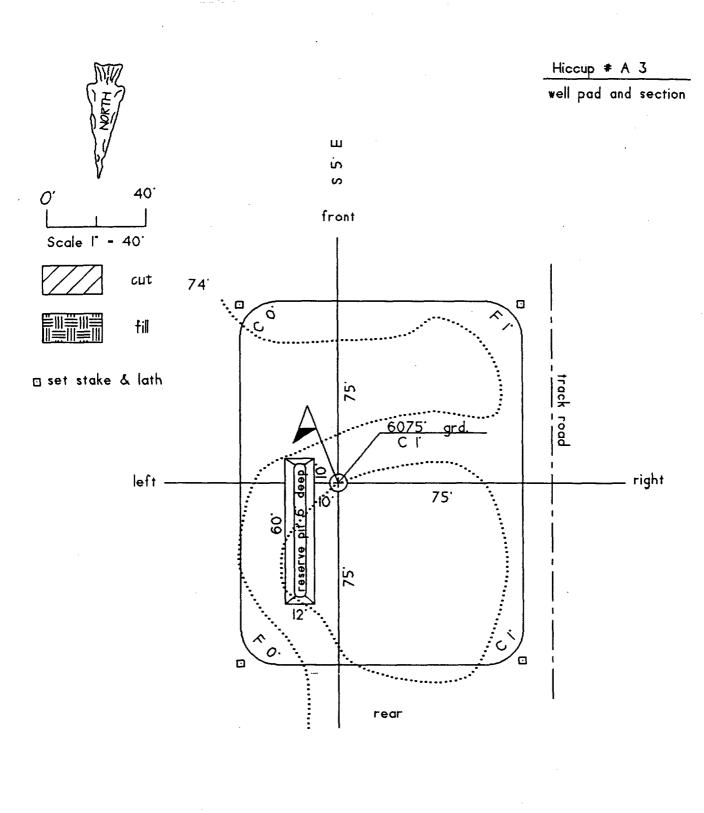
	CHOIL OK! E	KMII	TO DRILL OR	DEEP	EN	5. Lease Designation and SF-080384-B	
			200 A	5 13	M II: 00	6. If Indian, Allottee or T	Tribe Name
Type of Work	ILL 🛛	DEEPEN	<b>і</b> П				
Type of Well			0/0 +	aming	ton, NM	7. If Unit or CA, Agreen	nent Designatio
Oil Well Gas Well	Other		Single Well	Multiple	Zone		
Name of Operator	- Oil 9 Con Corn					8. Well Name and No.	N - 2
IVIETTIC  Address and Telephone No.	on Oil & Gas Corp	oration				Hiccup A	NO. 3
	illy Ave Farmington   5) 327-9801	NM 8740	01 (1829 30 3)	73	and the same of th	9. API Well No.	 5318
Location of Well (Footages) At Surface 259	95' fnl & 1951' fwl (se	nw)	10 m 101 20			10. Field and Pool, or Ex Basin Fruitland	ploratory Area
	Same		190 mg	<b>3</b> 0		11. Sec., T., R., M., or Bl	LK.
At proposed prod. zone	Jame				4	F Section 3, T26	N, R12W
			8/	11/2	<u></u>	12. County or Parish	13. Stete
	etions from Nearest Town or Post Of buth of Farmington NI		haco Plank SIN SI			San Juan	NM
5 Distance from Proposed (A	Also to nearest drig. unit line, if any)				17.No. of Acres Assi	gned to This Well	
Location to Nearest Property or Lease Line, Ft	689'		318.9 acres		318.	3.9 acres W/2	
B Distance from Proposed Loca		19. Proposed	Depth	<del></del>	20.Rotary or Cable	Tools	
to Nearest Well Drilling, Com or Applied for, on this Lease,	4.4001		~1530' Rota		Rota	ıry	
1. Elevations (Show whether Di		DKB			22. Approximate D	ate Work will Start	
	6075' GR, 6080'	KKB	-		As s	oon as permitted	
SIZE OF HOLE	PRO SIZE & GRADE OF CAS		SING AND CEMENTING WEIGHT PER FOOT		M ING DEPTH	QUANTITY OF	CEMENT
8-3/4"	7" J55		ppf or greater	~120' 1		~30 sx (35 cuft)	CEMENT
6-1/4"	4-1/2" J55	40					
			).5 ppf or greater	~1530'		~116 sx (187 cuf	
Merrion procement to surface with dispersed mud system (117 cuft) lead so circulate to surface. A water spont reach surface, a Will test Froperations below surfaces Additional drilling temporation of the access locator map, and the Surface.	oposes to drill 8-3/4" howith ~30 sx 'B' w/ 2% Catem. Will set 4-1/2" 10.8 lurry followed by ±59 sx (will adjust volumes base a temperature log or ceruitland Coal through peurface casing will be contacted and pipeline are see pipeline runs along the BILLING OPERATIONS AUTHORIZET TO COMPLIANCE WI	ole with nate aCl2 (35 of 5 ppf or gree '5' (70 cut) sed upon of the ment bond erforated conducted with adjacent the access of t	tive mud to approx 120' cuft). Will drill 6-1/4" hole eater J55 production careft) cement to fill from to caliper log). It leads surry to prevent relog will be run to determ asing. Will fracture sting ith a Bag type BOP in part to the well pad. The accordance of the well pad will the saction is subject to the saction is subject to the saction is subject to the well pad will the saction is subject to the saction is subject to the well pad will the saction is subject to the saction i	and set le to TD ( sing from tal depth mud cont mine top nulate an lace, min cess road be the or	7" 20# or grea ② approx 153 n TD to surface to surface. To amination of to of cement. d put on for point working d is shown on hly surface dis	ater J55 surface ca 0' KB with low soli e. Will cement with op of Cement shou the cement. If cement roduction test. Dri g pressure 1000 pot the attached topo	asing , ids non- h ±57 sx uld nent does Iling sig.
Merrion procement to surface via dispersed mud system (117 cuft) lead socirculate to surface. A water spont reach surface, a Will test Froperations below standitional drilling temperations and the SU Control of S	coposes to drill 8-3/4" howith ~30 sx 'B' w/ 2% Catem. Will set 4-1/2" 10.8 lurry followed by ±59 sx (will adjust volumes based at the end of t	ole with nate aCI2 (35 control of the second of the ment bond erforated conducted with adjacent the access of the ATTACHE	tive mud to approx 120' cuft). Will drill 6-1/4" hole eater J55 production case of the cent to fill from to caliper log). I lead slurry to prevent relating. Will fracture stim with a Bag type BOP in part to the well pad. The act road. The well pad will be reached and appeal pursuate present productive zone and propose	and set le to TD (sing from tal depth mud continue top nulate an lace, min cess road be the or ct to technique and to 43 CF	7" 20# or grea ② approx 153 n TD to surface to surface. To amination of to of cement. d put on for p himum working d is shown on hily surface dis 143 CFR 3165.3 R 3165.4	ater J55 surface ca 0' KB with low soli e. Will cement with op of Cement shou the cement. If ceme roduction test. Dri g pressure 1000 posturbance.	asing , ids non- h ±57 sx uld nent does lling sig. graphic
Merrion procement to surface with dispersed mud system (117 cuft) lead sourculate to surface. A water spont reach surface, a Will test Froperations below surface and ditional drilling temperations below surfaces and the surfaces for map, and the surfaces for map, and the surfaces for map.	oposes to drill 8-3/4" howith ~30 sx 'B' w/ 2% Catem. Will set 4-1/2" 10.9 lurry followed by ±59 sx (will adjust volumes based a temperature log or ceruitland Coal through peurface casing will be controlled details attached is road and pipeline are expipeline runs along the BILLING OPERATIONS AUTHORIZED TO COMPLIANCE WISTENERAL REQUIREMENTS".	ole with nate aCI2 (35 control of the second of the ment bond erforated conducted with adjacent the access of the ATTACHE	tive mud to approx 120' cuft). Will drill 6-1/4" hole eater J55 production careft) cement to fill from to caliper log). It lead slurry to prevent relog will be run to determ asing. Will fracture stim it a Bag type BOP in protection to the well pad. The action of the well pad will be run to determ asing. This action is subjected to the well pad will be recedural review procedural review pand appeal pursua	and set le to TD (sing from tal depth mud continue top nulate an lace, min cess road be the or ct to technique and to 43 CF	7" 20# or grea ② approx 153 n TD to surface to surface. To amination of to of cement. d put on for p himum working d is shown on hily surface dis 143 CFR 3165.3 R 3165.4	ater J55 surface ca 60' KB with low soli e. Will cement with op of Cement shouth the cement. If cement roduction test. Dri g pressure 1000 posturbance.	asing , ids non- h ±57 sx uld nent does lling sig. graphic

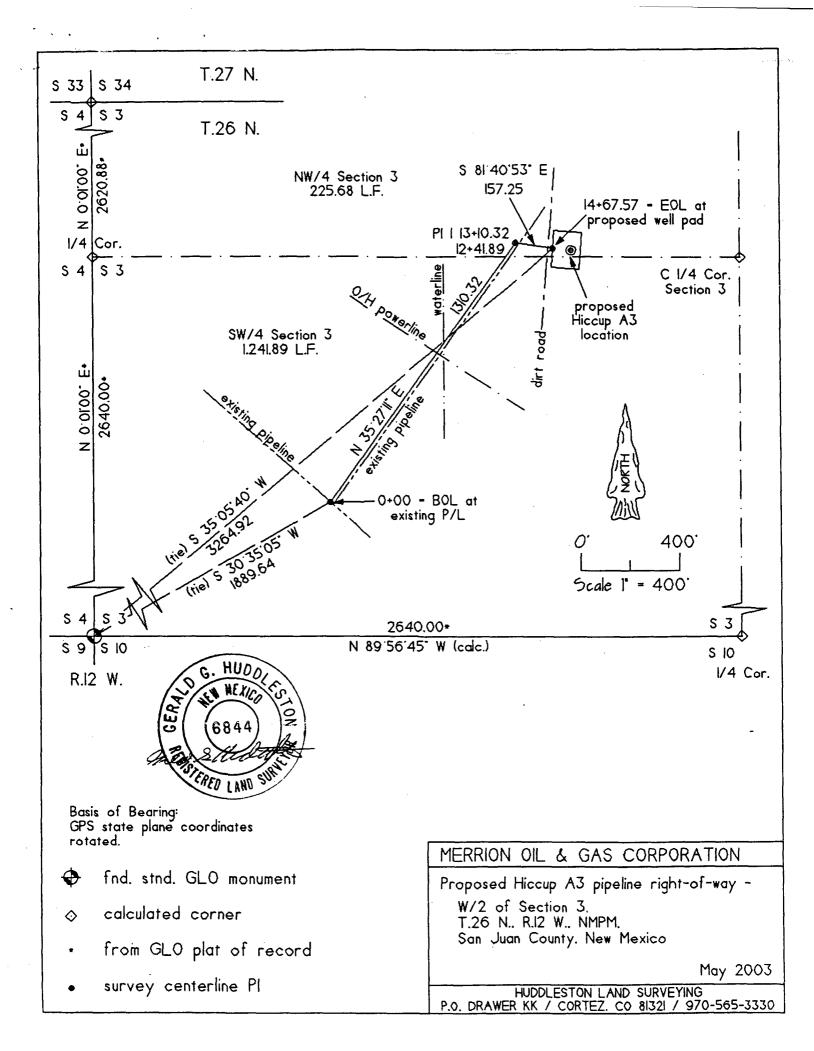
# State of New Mexico Energy, Minerals & Mining Resources Department OIL CONSERVATION DIVISION 2040 South Pacheco

Santa Fe. NM 87505

MENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT Pool Name 840 71629 **Basin Fruitland Coal** Property Name Wal Number HICCUP OCRD No. Operator Name **Eevation** 014634 MERRION OIL & GAS 6075 Surface Location Feet from North/South UL or Lot Sec TVD Rge. Lot lon Feet from> East/West County 3 26 N. **SENW** 2595 1951 12 W NORTH WEST SAN JUAN Bottom Hole Location If Different From Surface Lot lan UL or Lat Sec Twp Rge. Feet from> North/South Feet from> East/West County Dedication Joint ? Consolidation Order No. 318.9 NO ALLOWABLE WILL ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION 5280 N 0 OF E 2621 2621 2640 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Signature Printed Name Connie S. Dinning Title **Production Engineer** Date June 11, 2003 Hiccup & No. 3 SURVEYOR CERTIFICATION 1951 I hereby certify that the well location on this plat was plotted from field notes of actual surveys made by me or under my supervisión, and that the same is true and correct to the best of my belief. Date of Survey SF-080384-B Signatur ⊕ Hiccup A No. 2R MN ,nolgnimms1 070 89 57" E (calc.) 5280 • W II: 00 E 1 5/17 CUIZ







# Well Control Equipment Schematic for 1M Service

Attachment to APD Form 3160-3

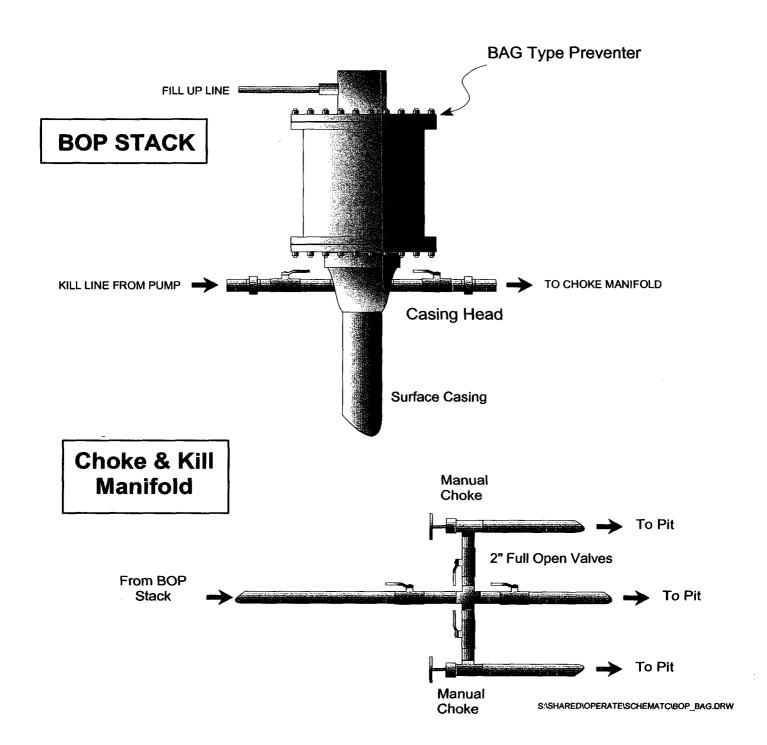
## Hiccup A No. 3

Location: 2595' fnl & 1951' fwl (se nw)

Sec 3, T26N, R12W

San Juan County, New Mexico

Date: September 18, 2003 Drawn By: Connie S. Dinning



# **MERRION OIL & GAS CORPORATION**

# **DRILLING TECHNICAL PROGRAM**

(Attachment to Form 3160-3)

#### HICCUP A NO. 3

2595' fnl & 1951' fwl (se nw) Section 3, T26N, R12W, NMPM San Juan County, New Mexico

#### 1. ESTIMATED FORMATION TOPS:

<u>FORMATION</u>	DEPTH KB	EST PSI
Undif Tertiary	Suface	
Ojo Alamo	198'	
Kirtland Shale	306'	
Fruitland	1086'	
Main Coal	1363'	354 psi
Pictured Cliffs	1376'	358 psi
Total Depth	1530'	•

#### 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 = 398 psi. Well Control Anticipated Surface Pressure (ASP) = 398 psi (0.22 \* 1530') = 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 <u>#/GAL</u>	VISCOSITY <u>SEC/QT</u>	WATER LOSS CC
0 - 120'	Native	< 9.0	35-55	NA
120' - 1530'±	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" 20# J55 or >	Surface	120' ft ±
2	4-1/2" 10.5# J55 or >	Surface	1530' ft ±

B. A wellbore schematic is attached.