UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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

	I ION I OK I E	KMIII	ro drill or i	DEEP	EN	SF-078899A	
. Type of Work			5005	6. If Indian, Allottee or Tribe Name			
DRII	LL 🛛	DEEPEN	The state of the same of the s	aalaa	NIAA		
. Type of Well				-	_	7. If Unit or CA, Agreem	ent Designation
Oil Well Gas Well Name of Operator	Other		Single Well	Multiple	Zone	8. Well Name and No.	
	n Oil & Gas Corpo	ration	501	8 9 m		Jaz Com N	lo. 1
610 Reil	ly Ave Farmington N) 327-9801	NM 8740	JUL 2	3000		3. API Well No.	32//
Location of Well (Footages) At Surface 105	5' fnl & 1545' fwl (ne	nw))[27 3	N 1517	10. Field and Pool, or Exp Basin Fruitland	latory Area
At proposed prod. zone	Same		1900 p. 1900 p	27222		11. Sec., T., R., M., or BL and Survey or Area Section 21, T2	
	ons from Nearest Town or Post Off uth of Farmington NN		haco Plant			12. County or Parish San Juan	13. Stete NM
5. Distance from Proposed (Als Location to Nearest	to nearest drig, unit line, if any)	16.No. of Acre			17.No. of Acres Ass	-	
Property or Lease Line, Ft	1055'	10 8	320 acres			acres	
 Distance from Proposed Location Nearest Well Drilling, Comport Applied for, on this Lease, F 	leted,	19. Proposed C	1580'		20. Rotary or Cable Rota		
1. Elevations (Show whether DF,		1			22. Approximate D	ate Work will Start	
	6214' GR, 6219' I	KKB			As s	soon as permitted	
2007 00 1101 7			SING AND CEMENTING				
SIZE OF HOLE	SIZE & GRADE OF CASE 7" J55				ING DEPTH	QUANTITY OF C	CEMENT
o-3/4	1 1 000	20 ppf or greater ~120' KB		l ~120′ ł	KB I	~30 sx (35 cuft)	
8-3/4" 6-1/4"	4-1/2" J55		.5 ppf or greater	~120' H ~1580'		~30 sx (35 cuft) ~127 sx (205 cuft))
6-1/4" Merrion pro	4-1/2" J55 poses to drill 8-3/4" hol	10 le with nat	.5 ppf or greater ive mud to approx. 120	~1580' and set	KB 7" 20# J55 (c	~127 sx (205 cuft or greater) surface (casing,
Merrion proceeding technical details	4-1/2" J55 poses to drill 8-3/4" hold th ~30 sx 'B' w/ 2% Cam. Run open hole surex 'B' w/ 2% SMS (128 yy will be recorded and olumes based upon called the spacer will be pumpled, a temperature log control of the conducted with ched. AUTHORIZED ARE HIGE WITH ATTACHED	le with nat Ide with nat Ide (Ide (Ide) (Ide) Ide (Ide) (Ide) Ide (Ide) (Ide) Ide) (Ide) Ide) Ide) (Ide) Ide) (Ide) Ide) Ide) Ide) (Ide) I	ive mud to approx. 120' ift). Will drill 6-1/4" hole set 4-1/2" 10.5 ppf J55 fail in with 65 sx 'B' (77 to the BLM after comp available). of the lead slurry to pro bond log will be run to o Will fracture stimulate be BOP in place, minim s part of this APD as pe	~1580' and set to TD @ producti cuft) cer letion of event mu determin and put um work er the end	7" 20# J55 (c) approx 158 ion casing (or nent to fill from the job. Top coud contaminate top of cemes on for producing pressure closed topogr	~127 sx (205 cuft) or greater) surface of or KB with low solid greater) from TD to m total depth to sur of Cement should cution of the cement. ent. cition test. Drilling of 1000 psig. Addition	casing, s non- o surface. face. A irculate to If cement perations
Merrion proceeding to surface widespersed mud syste Will cement with 62 scementing chronolog surface (will adjust with 4 ~5 bbl was does not reach surface Will test Fruit below surface casing technical details attack A pipeline results of the process of the pro	poses to drill 8-3/4" hold th ~30 sx 'B' w/ 2% Cam. Run open hole sunsx 'B' w/ 2% SMS (128 by will be recorded and olumes based upon caller spacer will be pumpice, a temperature log chitland through perforate will be conducted with ched. Dute approval is also provided the spacer will be conducted with ched. Authorized ARE SIGE WITH ATTACHED NTS".	le with nat CI2 (35 cuveys. Will cuft) and submitted liper log if ped ahead or cement ed casing. n a Bag typ	ive mud to approx. 120' ift). Will drill 6-1/4" hole set 4-1/2" 10.5 ppf J55 fail in with 65 sx 'B' (77 to the BLM after comp available). I of the lead slurry to pre bond log will be run to c Will fracture stimulate be BOP in place, minim s part of this APD as pe	and set to TD (control of the end	7" 20# J55 (c) approx 158 ion casing (or nent to fill from the job. Top could contaminate top of cemes on for producing pressure closed topogr	~127 sx (205 cuft) or greater) surface of or KB with low solid greater) from TD to m total depth to sur of Cement should cution of the cement. ent. cition test. Drilling of 1000 psig. Addition	casing, s non- o surface. face. A irculate to If cement perations nal drilling
Merrion proceeding to surface widespersed mud syste Will cement with 62 scementing chronolog surface (will adjust with 4 ~5 bbl was does not reach surface Will test Fruit below surface casing technical details attack A pipeline results of the complete with the com	poses to drill 8-3/4" hol th ~30 sx 'B' w/ 2% Cam. Run open hole surex 'B' w/ 2% SMS (128 yy will be recorded and olumes based upon calleter spacer will be pumped, a temperature log contitional through perforate will be conducted with ched. AUTHORIZED ARE INCE WITH ATTACHED NTS".	le with nat icCl2 (35 cuveys. Will cuft) and submitted liper log if ped ahead or cement ed casing. n a Bag typ roposed a	ive mud to approx. 120' ift). Will drill 6-1/4" hole set 4-1/2" 10.5 ppf J55 tail in with 65 sx 'B' (77 to the BLM after compavailable). I of the lead slurry to probond log will be run to compave with the BOP in place, minimum as part of this APD as per list action is subject to technocedural review pursuant to dappeal pursuant to 43 CF	and set to TD (producticuft) cer letion of event mudetermin and put um work er the endical and 143 CFR 3 R 3165.4	KB 7" 20# J55 (c) approx 158 (on casing (or ment to fill from the job. Top could contaminate top of cemes on for producing pressure closed topograms.	~127 sx (205 cuft) or greater) surface of or KB with low solid or greater) from TD to m total depth to sur of Cement should cution of the cement. Settion test. Drilling of 1000 psig. Additionaphic map.	casing, s non- o surface. face. A irculate to If cement perations nal drilling
Merrion proceeding to surface widespersed mud syste Will cement with 62 scementing chronolog surface (will adjust we A ~5 bbl wadoes not reach surface Will test Frubelow surface casing technical details attack A pipeline results of the complete of the co	poses to drill 8-3/4" hold th ~30 sx 'B' w/ 2% Cam. Run open hole suresx 'B' w/ 2% SMS (128 by will be recorded and olumes based upon caller spacer will be pumpice, a temperature log colitand through perforate will be conducted with ched. Authorized ARE SIGE WITH ATTACHED NTS". PROPOSED PROGRAM: If proposed Regoling is true and correct	le with nat icCl2 (35 cuveys. Will cuft) and submitted liper log if ped ahead or cement ed casing. n a Bag typ roposed a	ive mud to approx. 120' ift). Will drill 6-1/4" hole set 4-1/2" 10.5 ppf J55 tail in with 65 sx 'B' (77 to the BLM after comp available). I of the lead slurry to probond log will be run to o Will fracture stimulate be BOP in place, minim s part of this APD as pe	and set to TD (producticuft) cer letion of event mudetermin and put um work er the endical and 143 CFR 3 R 3165.4	KB 7" 20# J55 (c) approx 158 (on casing (or ment to fill from the job. Top could contaminate top of cemes on for producing pressure closed topograms.	~127 sx (205 cuft) or greater) surface of the with low solid or greater) from TD to me total depth to sure of Cement should contion of the cement. Settion test. Drilling of 1000 psig. Additionally aphic map.	casing, s non- o surface. face. A irculate to If cement perations nal drilling

State of New Mexico Energy, Minerals & Mining Resources Department OL CONSERVATION DIMISION 2040 South Pacheco

Santa Fe. NM 87505

MENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

APA Number	Pool Code	Pool Name
30-045-32116	71629	Basin Fruitland Coal
Property Code	Property Name	Well Number
35741 35829	Jazz Com	1
OGRID No.	Operator Name	Bovation
014634	MERRION OIL &	GAS 6214

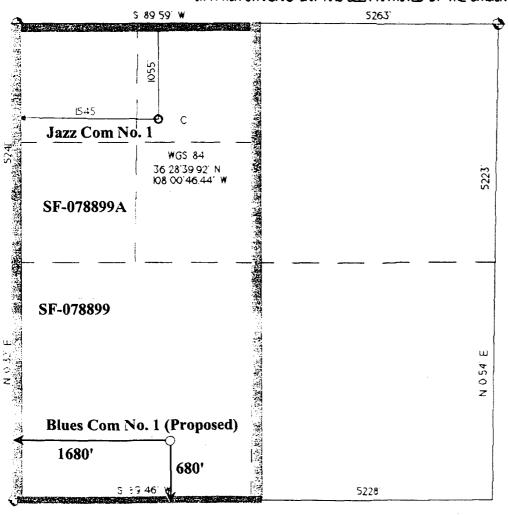
Surface Location

UL or Lot	Sec	ĬΨp.	Rge.	Lot lan	Feet from>	North/South	Feet from>	East/West	County
С	21	26 N.	II W.	NENW	Ю55	NORTH	1545	WEST	SAN JUAN

Bottom Hole Location II Different From Surface

						•			
UL or Lot	Sec.	Twp.	Rge.	Lot kin.	. Feet from>	North/South	Feet from>	East/West	County
				<u> </u>			<u> </u>		
Dedication	J	oint?	Consolida	tion			Orde	r No.	
320 Ac	1	1		ì					•

NO ALLOWABLE WILL ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



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

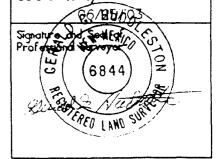
Title Production Engineer

December 19, 2003

SURVEYOR CERTIFICATION

I hereby cartify that the well location on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date of Survey





MERRION OIL & GAS CORPORATION

DRILLING TECHNICAL PROGRAM

(Attachment to Form 3160-3)

Jazz Com No. 1

1055' fnl & 1545' fwl (ne nw) Section 21, T26N, R11W, NMPM San Juan County, New Mexico

1. ESTIMATED FORMATION TOPS:

<u>FORMATION</u>	DEPTH KB	EST PSI
Undif Tertiary	Surface	
Ojo Alamo	383'	
Kirtland Shale	515'	
Fruitland	1023'	
Main Fruitland Coal	1411'	367 psi
Pictured Cliffs	1430'	372 psi
Total Depth	~1580'	

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 because the well is shallow and low pressure, with the surface pressure not expected to exceed ~411 psig at the wellhead. Such moderate conditions lower any chance of uncontrolled gas flow.
- B. Minimum required working pressure rating for BOP stack is 1000 psi. Maximum anticipated bottomhole pressure = 411 psi. Well Control Anticipated Surface Pressure (ASP) = 411 psi (0.22 * 1580') = 63 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. 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 minimum 1000 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. Merrion requests an exception to the requirement for an upper kelly cock valve to be utilized during drilling; pull-down type rig to be used will not allow use of kelly cock valve.
- E. Anticipated formation pressures average 0.26 psi/ft gradient and formation fracture pressures are anticipated to exceed the maximum mud weight of 9.1 ppg.

3. DRILLING MUD PROGRAM

- A. A 8-3/4" 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 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.
 Lost circulation materials will not be stored on location.
 Mud weighting materials will not be stored on location.

		WEIGHT	VISCOSITY	WATER
<u>INTERVAL</u>	<u>MUD SYSTEM</u>	#/GAL	SEC/QT	LOSS CC
0 - 120'	Native	< 9.0	35-55	NA
120' - 1580' ±	LSND	8.6-9.1	28-45	NA

Maximum anticipated mud weight is 9.1 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 problem in this area.
- 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, Density Log will be run from TD across zones of interest.
- 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	7" 20# J55 or greater	Surface	120 ft ±	
2	4-1/2" 10.5# J55 or greater	Surface	1580 ft ±	

Merrion requests that a variance be granted to allow us to set surface casing at the proposed depth of \pm 120' because this setting depth has been shown to be adequate as demonstrated by the innumerable 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 ~0.26 psi/ft.

B. A proposed wellbore schematic is attached.

Merrion Oil & Gas Corporation

Well Control Equipment Schematic for 1M Service

Attachment to APD Form 3160-3

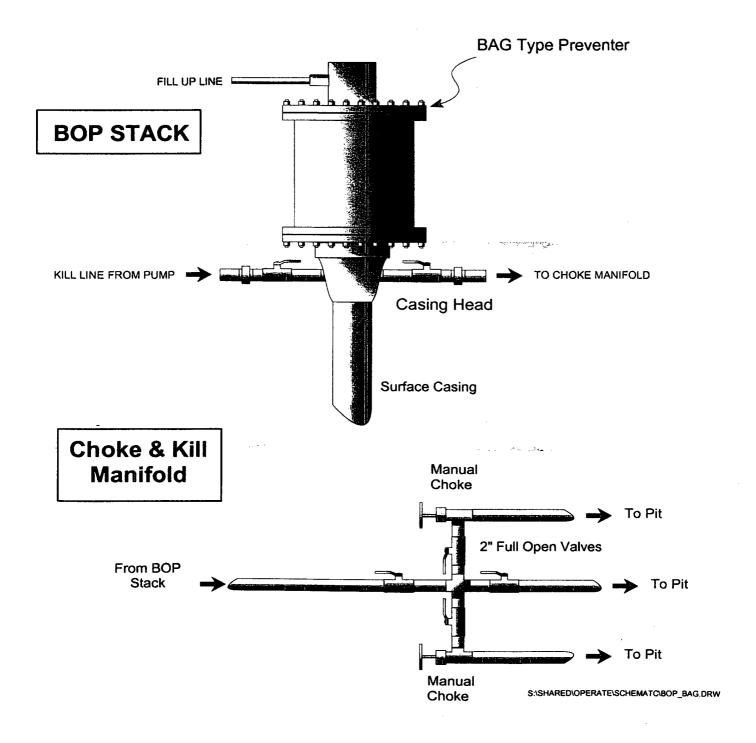
Jazz Com No. 1

Location: 1055' fnl & 1545' fwl (ne nw)

Sec 21, T26N, R11W

San Juan County, New Mexico

Date: January 6, 2004 Drawn By: Connie S. Dinning



Merrion Oil & Gas Corporation Wellbore Schematic

Jazz Com No. 1

Proposed Wellbore Configuration

