Form 3160-3 (September 2001)

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

FORM APPROVED OMB No. 1004-0136 Expires March 31, 2007

5. Lease Serial No.

9000	1111	20	em	ប្រ Jicatilla Contract 102
/!:IIA	1111.	7 1 1	1 1 1 1	

APPLICATION FOR PERMIT TO	DRILL OR E	(NUD JUL ZU	131,1 4	6. If Indian, Allotted	e or Tribe Name
AT LIGATION TO THE PARTY OF THE			IVED.	Jicarilla Apache	
la. Type of Work: DRILL REEN	ΓER	070 FARM	INGTON	7. If Unit or CA Agr	reement, Name and No.
1b. Type of Well: Oil Well Gas Well Other	Π.		1. 7	8. Lease Name and W	0 1
	S	ingle Zone 🗹 Multip	ple Zone	Jicarilla 102 #7N	Upache
2. Name of Operator CDX RIO, LLC				9. API Well No. 30-039- <b>2-000</b>	<del>~</del> 30068
3a. Address	3b. Phone No	o. (include area code)		10. Field and Pool, or	Exploratory
2010 Afton Place, Farmington, New Mexico 87401	(505) 326-3	3003		Blanco Mesavrede	/Basin Dakota
4. Location of Well (Report location clearly and in accordance wi	th any State requ	irements. *)		11. Sec., T., R., M., o	r Blk. and Survey or Area
At surface 845' FNL, 1980'FWL, Lat. 36 31' 13.1 At proposed prod. zone	", Long. 107 1	4'26.6"	+ z	Spetion 2 TOS N I	D.4.W
14. Distance in miles and direction from nearest town or post office*	<del></del>		12	Section 3, T-26-N, I 12. County or Parish	13. State
30 miles east of Lindrith, New Mexico				Rio Arriba	- NM
15. Distance from proposed*	16 N6	Acres in lease	17 Specip	g Unit dedicated to this	
location to nearest	16. No. of A	Acres in lease	•		Well (5563)
property or lease line, ft. (Also to nearest drig. unit line, if any) 845'			MV-321.6 DK-322.8		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
18. Distance from proposed location*	19. Propose	ed Denth		BIA Bond No. on file	214 7
to nearest well, drilling, completed.	, , , , , opes	o zopu.	20. 22.02		SEP 200
applied for, on this lease, ft. 500'	7650'		National I	oond on file 🔯	- W
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approx	imate date work will st	art*	23. Estimated duration	on . To
7203' GR					L. Hay My
	24. Atta	chments			
The following, completed in accordance with the requirements of Ons	hore Oil and Gas	Order No.1, shall be att	ached to this	s form:	TO DO TO THE PARTY OF THE PARTY
<ol> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan.</li> </ol>		4. Bond to cover the ltem 20 above).	e operations	s unless covered by an	existing bond on file (see
3. A Surface Use Plan (if the location is on National Forest Syste SUPO shall be filed with the appropriate Forest Service Office).	m Lands, the	5. Operator certifica 6. Such other site's authorized office	pecific info	rmation and/or plans a	as may be required by the
25. Signature	Name	(Printed/Typed)			Date
Lichard (occoran)	t t	ard Corcoran			7-18-06
Title	1110110	ind corcorain	<del></del>		70 00
Land Manager					
Approved by (Signature)	Name	(Printed/Typed)			Date 9/5/06
Title AFM	Office	Ho			
Application approval does not warrant or certify that the applicant holooperations thereon.  Conditions of approval, if any, are attached.	ds legal or equita	ble title to those rights in	the subject	lease which would entit	le the applicant to conduct
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, mak States any false, fictitious or fraudulent statements or representations			d willfully t	o make to any departme	ent or agency of the United
*(Instructions on reverse)	\				;
	· ·	$\bigvee$			ı



DISTRICT I 1625 N. French Dr., Hobbs, N.M. 88240

### State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised June 10, 2003

DISTRICT II 1301 W. Grand Ave., Artesia, N.M. 88210

DISTRICT III

ALC'D COR.

1000 Rio Brazos Rd., Aztec, N.M. 87410

OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT IV 1220 South St. Francis Dr., Santa Fe, NM 87505

☐ AMENDED REPORT

MV - W/321.68 DK - N/322.82  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  D. 2 1/2* D. 3 17 OPERATOR CERTIFICATION INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION  17 OPERATOR CERTIFICATION INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION  17 OPERATOR CERTIFICATION INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION  18 Sep-49-01 E	30-039-2						CATION PL		
*Property Code 33455		am a				51			
33455  **JICARILLA_102 **JOACHEL**  **Operator Name	4 D	ill of	/2	2319//15	<del></del>		Mesaverde/Bo		Number
*Operator Name CDX RIO, LLC  *Surface Location  UL or lot no. Section Township Range Lot Idn Feet from the Rorth/South line Feet from the Bast/West line County RIO ARRIBA  *Deficience Acres MV - W/321.68 DK - N/322.82  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  *Signature  *Interest of the best of my Insulators contained here is true and complete to the best of my Insulators contained here is true and complete to the best of my Insulators contained here is true and complete to the best of my Insulators contained here is true and complete to the best of my Insulators contained here is true and complete to the best of my Insulators contained here is true and complete to the best of my Insulators contained here is true and complete to the best of my Insulators contained here is true and complete to the best of my Insulators contained here is true and complete to the best of my Insulators contained here is true and complete to the best of my Insulators contained here is true and complete to the best of my Insulators contained here is true and complete to the best of my Insulators contained here is true and complete to the best of my Insulators contained here is true and complete to the best of my Insulators contained here is true and complete to the best of my Insulators contained here is true and complete to the best of my Insulators contained here is true and complete to the best of my Insulators contained here is true and complete to the best of my Insulators contained here is true and complete to the best of my Insulators contained here is true and complete to the best of my Insulators contained here is true and complete to the best of my Insulators contained here is true and complete to the best of my Insulators contained here is true and complete to the best of my Insulators contained here is true and complete to the best of my Insulators contained here is true and complete to the contained here is true		I							
222374  CDX RIO, LLC  To Surface Location  UL or lot no. Section Township Range Lot Idn Feet from the County South line Feet from the Location If Different From Surface  UL or lot no. Section Township Range Lot Idn Feet from the North/South line Feet from the Rest/West line County Mest Rio Arriba Range Lot Idn Feet from the North/South line Feet from the Rest/West line County Mest Rio Arriba Range Lot Idn Feet from the North/South line Feet from the Rest/West line County Mest Rio Arriba Range Lot Idn Feet from the North/South line Feet from the Rest/West line County Mest Rio Arriba Range Lot Idn Feet from the North/South line Feet from the Rest/West line County Mest Rio Range Lot Idn Feet from the North/South line Feet from the Rest/West line County Mest Rio Range Lot Idn Feet from the Rest/West line County Mest Rio Range Range Lot Idn Feet from the Rest/West line County Mest Rio Range R						· Com	the	• •	
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"Dedicated Acres  MV - W/321.68 DK - N/322.82  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  D. 2 1/2* Signature  LAT. 36'31'13.1" N. (NAD 83) LOT 4  LOT 2  LOT 2  LOT 1  "Order No.  "Order	III. or lot no Section	Township						Rest /West line	Country
MV - W/321.68 DK - N/322.82  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  D. 2 1/2" JS.G.LO. 916 B.C.  N 89-49-01 E 5239.48' (C)  N 89-49-01 E 5239.48' (C)  N 89-49-01 E 5239.48' (C)  SGL PROP.  17 OPERATOR CERTIFICATION I hereby certify that the information contained hereif is true and complete to the best of my knowledge as behigt.  LOT 4  LOT 2  LOT 1  Signature  Richard Corcoran  Printed Name Land Manager rich.corcoran@cdxgas.com Title  7-/B-06	on or lot no. Section	lowisinp	vanke	Tot 1dii	rect from the	Notaly boath into	reet nom the	Motor west into	County
DK - N/322.82  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  D. 2 1/2" 15.6.L.O. 916 B.C.  N 89-49-01 E 5239.48' (C)  SGL. PROP.  LOT 4  LOT 3  LOT 2  LOT 1  Printed Name  Lond Manager rich.corcoran@cdxgas.com  Title  7-18-06	<sup>12</sup> Dedicated Acres		18 Joint or	infill	<sup>14</sup> Consolidation	Code	<sup>15</sup> Order No.		<u></u>
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  D. 2 1/2* S. G.L. O. 916 B.C.  N 89-49-01 E 5239.48' (C)  N 89-49-01 E 5239.48' (C)  N 89-49-01 E 5239.48' (C)  So CALC'D COR BY SGL. PROP.  17 OPERATOR CERTIFICATION I hereby certify that the information contained hereif is true and complete to the best of my knowledge as being.  LOT 4  LOT 5  LOT 2  LOT 1  Righard Corcorant Printed Name Lond Manager rich.corcorant Codagos.com Title  7-18-06			Y						
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5239.48' (C)  BY SGL. PROP.  I hereby certify that the information contained hereis is true and complete to the best of my knowledge as belief.  LAT. 36'31'13.1" N. (NAD 83)  LOT 4  LOT 3  LOT 2  LOT 1  Printed Name  Land Manager rich.corcoran@cdxgos.com  Title  7-/8-06	6 <del>1881 - 1881 - 1881 - 1881 - 1881 - 1</del> 881 - 1881 - 1881 - 1881 - 1881 - 1881 - 1881 - 1881 - 1881 - 1881 - 1881		ON DIA	. الأوري وي					
1 hereby certify that the information contained hereing is true and complete to the best of my knowledge as belief.  LAT. 36°31'13.1" N. (NAD 83)  LOT 4 LOT 3 LOT 2 LOT 1  Signature  Richard Corcorange Printed Name  Land Manager rich.corcoranged agas.com  Title  7-18-06	FD. 2 1/2" U.S.G.L.O.		•	N 89	9–49–01 E 59.48' (C)	CALC'D C	OR. I 17 OF	PERATOR CER	TIFICATION
LAT. 36°31'13.1" N. (NAD 83)  LOT 4  LOT 3  LOT 2  LOT 1  Signature  Richard Corcoran  Printed Name  Land Manager rich.corcoran@cdxgas.com  Title  7-18-06	1916 B.C.		က်						
LAT. 36'31'13.1" N. (NAD 83) LONG. 107'14'26.6" W. (NAD 83)  LOT 4  LOT 2  LOT 1  Signature  Richard Corcoran  Printed Name  Land Manager rich.corcoran@cdxgas.com  Title  7-18-06	ľ	1	4	1		ì			
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Richard Corcoran  Printed Name  Land Manager rich.corcoran@cdxgas.com  Title  7-18-06	1080'		L	AT. 36°31 ONG. 107	'13.1" N. (N. "14'26.6" W.	 AD 83) (NAD 83)	belief.	100	\
Printed Name  Land Manager rich.corcoran@cdxgas.com  Title  7-18-06			. L	ONG. 107	"14'26.6" W.	(NAD 83)	belief.	hard Con	\
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SOW BION OBIGINION	LOT 4		. L	ONG. 107	"14'26.6" W.	(NAD 83)	Signature Richard Printed Mor Title  Date	Corcoran	Ocdxgas.com
I hereby certify that the well location shown on this p was plotted from field notes of actual surveys made by	LOT 4		. L	ONG. 107	"14'26.6" W.	(NAD 83)	Signature Richard Printed N Land Mor Title Date	Corcoran  Name  nager rich.corcoran  RVEYOR CER	Ocdxgos.com
me or under my supervision, and that the same is tru	LOT 4		. L	ONG. 107	"14'26.6" W.	(NAD 83)	Signature Richard Printed M Land Mor Title Date  18 SU I hereby certig	Corcoran, Name  Inager rich.corcorant  IS - 06  RVEYOR CER  That the well location	Ocdagos.com
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12/36	LOT 4		. L	ONG. 107	"14'26.6" W.	(NAD 83)	Signature Richard Printed N Land Mar Title  Date  18 SU I hereby certif was plotted fr me or under s and correct to SEPTEM Date	Corcoran Name Inager rich.corcorant RVEYOR CER by that the well location own field notes of actua my supervision, and the the best of my belief.	Ocdxgos.com  TIFICATION In shown on this plus surveys made by at the same is true
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Submit 3 Copies To Appropriate District	State of New Mexic	co	Form C-103
Office District I	Energy, Minerals and Natural	Resources	May 27, 2004
1625 N. French Dr., Hobbs, NM 88240		ĺ	WELL API NO. 3068
<u>District II</u> 1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVATION D	[	5. Indicate Type of Lease
<u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410	1220 South St. Franci	1	STATE   FEE
District IV	Santa Fe, NM 8750	05	6. State Oil & Gas Lease No.
1220 S. St. Francis Dr., Santa Fe, NM 87505			Jicarilla 102
	CES AND REPORTS ON WELLS		7. Lease Name or Unit Agreement Name
	SALS TO DRILL OR TO DEEPEN OR PLUG		
PROPOSALS.)	CATION FOR PERMIT" (FORM C-101) FOR	50Сп	Jicarilla 102 8. Well Number 7N
	Gas Well X Other		
2. Name of Operator			9. OGRID Number 222374
CDX RIO, LLC  3. Address of Operator			10. Pool name or Wildcat
2010 Afton Place, Farmington, New	w Mexico 87401		Blanco Mesaverde/Basin Dakota
4. Well Location			
1	845'feet from theNorth1	line and 1980'	feet from theWestline
Section 3		Range 4W	NMPM Rio Arriba County
PARTICIPATION OF THE PROPERTY OF THE PARTY O	11. Elevation (Show whether DR, R		
	7203' GR		
Pit or Below-grade Tank Application o	· · · · · · · · · · · · · · · · · · ·		>200'
· · ·			'_ Distance from nearest surface water_<1000'
Pit Liner Thickness: 12 m			onstruction Material
12. Check A	Appropriate Box to Indicate Nati	ure of Notice, F	Report or Other Data
NOTICE OF IN	TENTION TO:	SUBS	SEQUENT REPORT OF:
PERFORM REMEDIAL WORK	PLUG AND ABANDON 🔲 F	REMEDIAL WORK	
TEMPORARILY ABANDON	<del>_</del>	COMMENCE DRIL	
PULL OR ALTER CASING	MULTIPLE COMPL	CASING/CEMENT	JOB
OTHER: New Drill Pit Sundr	v xn lo	OTHER:	. 🗖
13. Describe proposed or comp	leted operations. (Clearly state all per	tinent details, and	give pertinent dates, including estimated date
	ork). SEE RULE 1103. For Multiple (	Completions: Atta	ach wellbore diagram of proposed completion
or recompletion.			
CDX RIO, LLC requests ap	proval to construct a drilling pit in acc	cordance with CD	X RIO, LLC General Construction Plan
submitted August, 2004. Th	ne pit will be a lined as per the general	plan. The pit will	be closed within 180 days from completion
of project as per General C	losure Plan submitted August, 2004.		
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Thomas consider that the information		-6 l lodge	and haliof V6. 41
			and belief. I further certify that any pit or below- r an (attached) alternative OCD-approved plan .
SIGNATURE Mancy Ols	trada TITI E Regul	elatory Consultant	DATE12/22/05
Type or print name Nancy Oltm	eanns E-mail address: nancy.olt	manns@cdxgas.co	om Telephone No. (505) 326-3003
For State Use Only	/ la		1
APPROVED BY:	TITLEMENT	y on & gas insp	ECTOR, DIST. 83 DATE SEP 0 7 2006
Conditions of Approval (if any):	-/	,	· · · · · · · · · · · · · · · · · · ·
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CDX RIO, LLC JICARILLA 102 No. 7N, 845 FNL 1980 FWL SECTION 3, T26N, R4W, N.M.P.M., RIO ARRIBA COUNTY, N. M. GROUND ELEVATION: 7203', LAT. = 36°31'13.1" | LONG. = 107°14'26.6" DATE: SEPTEMBER 14, 2005 NAD 83 REAR 125' C 6.6 3 (5) 125' F 0.4 C 11.4 RESERVE PIT 155'L x 75'W 10' DEEP 125 25 25' S C 0.0 125' B' F 6.0 В 125' S 5.55' Wellhead to C 4.9 LAYDOWN 25 25 Front 100 2 SCALE: 1'=100' 6 125 125 1 F 7.9 C 11.2 C 1.5 WES P/L TIE DAGGETT ENTERPRISES, INC. IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES. NEW MEXICO ONE CALL TO BE NOTIFIED 48 HOURS PRIOR TO EXCAVATION OR CONSTRUCTION. NOTE: ELEV. A-A' 7210 7200 7190 7180 ELEV. B-B' 7210 C/L 7200 7190 7180 Surveying and Oil Fleid Services
P. O. Box 15088 · Famington, NM 87401
Plone (505) 326–1772 · Fox (505) 326–6019
NEW MEXICO L.S. No. 14831
COPALE COXCASO81, CFB Daggett Enterprises, Inc. ELEV. C-C' 7210 C/L 7200 7190 7180 CONTRACTOR SHOULD CALL ONE—CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPELINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

# Jicarilla 102 7N General Drilling Plan CDX Rio, LLC Rio Arriba County, New Mexico

#### 1. LOCATION:

845' FNL & 1980' FWL, Section 3, T26N, R4W Rio Arriba County, New Mexico UGL: 7203' Estimated KB: 7215

Field: Blanco Mesaverde and Basin Dakota

Surface: Jicarilla Contract #102 Minerals: Jicarilla Contract #102

## 2. SURFACE FORMATION – SAN JOSE, ESTIMATED TOPS AND WATER, OIL, GAS OR MINERAL BEARING FORMATIONS (TVD):

Formation Tops	Top MD (KB)	Top Subsea (KB)	Rock Type	Comments
Ojo Alamo Sandstone	3649	3566	Sandstone	Possible Differential Sticking, Gas, Water
Kirtland Formation	3813	3402	Shale	
Fruitland Formation	3918	3297	Coal, Shale, Sandstone	Possible Lost Circulation Zone, Gas, Water
Pictured Cliffs Sandstone	3969	3246	Sandstone	Possible Lost Circulation Zone, Gas, Water
Lewis Shale	4082	3133	Shale	Sloughing Shale
Huerfanito Bentonite Bed	4476	2739	Shale	Bentonite Shale
Chacra Interval	4927	2288	Siltstone	Gas, Water
Mesaverde Formation (MVRD)	5670	1545	Coal, Sandstone, Shale	Possible Lost Circulation, Gas, Water
Cliff House Sandstone (MVRD)	5670	1545	Sandstone	Possible Lost Circulation, Gas, Water
Menefee Member (MVRD)	5777	1438	Coal, Sandstone, Shale	Possible Lost Circulation, Gas, Water
Point Lookout Sandstone(MVRD)	6160	1056	Sandstone	Possible Lost Circulation, Gas, Water
Mancos Shale	6248	967	Shale	Sloughing Shale
Gallup Formation (GLLP)	7351	-136	Siltstone, Shale	Gas, Oil
Greenhorn Limestone	8104	-889	Limestone	Gas, Oil
Graneros Shale	8160	-945	Shale	Gas, Oil, Water
Dakota Formation (DKOT)	8185	-970	Sandstone, Shale, Coal	Gas, Oil, Water
Two Wells Sandstone (DKOT)	8185	-970	Sandstone	Gas, Oil, Water
Paguate Sandstone (DKOT)	8278	-1063	Sandstone	Gas, Oil, Water
Upper Cubero Sandstone(DKOT)	8327	-1112	Sandstone	Gas, Oil, Water
Main Body (DKOT)	8364	-1149	Shale, Sandstone	Gas, Oil, Water
Lower Cubero (DKOT)	8408	-1193	Shale, Sandstone	Gas, Oil, Water
Burro Canyon (DKOT	8437	-1222	Sandstone	Gas, Water - TD immediately below L. Cubero.
Morrison Formation			Shale, Sandstone	On-site pick when black/brown cuttings start.
Proposed TD	8428	-1213		Avoid wet Burro Canyon.

187-18-06

All fresh water and prospectively valuable minerals encountered during drilling will be recorded by depth and adequately protected.

#### 3. PRESSURE CONTROL EQUIPMENT:

BOP equipment will be tested to its rated working pressure or 70-percent of the internal yield of the surface casing, but not to exceed 1,000 psi. See attachments for BOP and choke manifold diagrams.

#### Production Hole BOP Requirements and Test Plan

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11" – 2,000 psi single ram (blind) 11" – 2,000 psi single ram (pipe)
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#### Test as follows:

a)	Pipe rams:	1,000 psi (High)	250 psi (low)
b)	Choke manifold and lines:	1,000 psi (High)	250 psi (low)

All ram type preventers and related equipment will be hydraulically tested at nipple-up. They will also be retested in either of the following events:

- A pressure seal is broken.
- 30 days have elapsed since the last successful test of the equipment.

Furthermore, BOP's will be checked daily as to mechanical operating condition. All ram type preventers will have hand wheels, which will be operative and accessible at the time the preventers are installed. See attached Exhibit for details on the BOP equipment.

#### **AUXILIARY EQUIPMENT:**

- a) Manually operated kelly cock (upper and lower)
- b) Full opening manually operated safety valves in the full open position, capable of fitting all drill stem connections.

#### 4. CASING AND CEMENTING DESIGN:

**Casing Program:** 

 Hole Size
 Depth
 Casing Size

 12 ½"
 250'
 9 5/8"

 8 ¾"
 4376' +/- Lewis seat
 7"

 6 ¼"
 8428'
 4 1/2"

Csg Size	Casing Type	Top (MD)	Bottom (MD)	Wt. (lb./ ft)	Grade	Thread	Condition
9-5/8"	Surface	0'	250'	36.0	J55	STC	New
7"	Intermediate	0'	4376' +/-	23.0	N80	LTC	New
4 ½"	Prod Liner	4256'	8428'	11.6	N80	LTC	New

	Casi	ng Data	Collapse	Burst	Min. Tensile	
OD	Wt/Ft	Grade	Thread	(psi)	(psi)	(Lbs.)
9-5/8"	36.0 lbs.	J55	STC	2,020	3,520	394,000
7"	23.0 lbs.	N80	LTC	3,830	6,340	442,000
4 1/2"	11.6 lbs.	N80	LTC	7,010	7,780	223,000
<del></del>	***			10350		<u> </u>

#### MINIMUM CASING DESIGN FACTORS:

COLLAPSE: 1.125 BURST: 1.00 TENSION: 1.80

Area Fracture Gradient Range:

0.7 - 0.8 psi/foot

Maximum anticipated reservoir pressure:

2,500 psi

Maximum anticipated mud weight:

9.0 ppg

Maximum surface treating pressure:

3,500 - 3,750 psi

3 W

#### Float Equipment:

<u>Surface Casing</u>: Guide shoe on bottom and 3 centralizers on the bottom 3 joints.

Intermediate Casing: Float shoe on bottom joint and a float collar one joint up from float shoe. One centralizer 10 ft above float shoe and nine centralizers spaced every joint above the float collar. Stage tool above the Kirtland formation. One centralizer below stage tool and one centralizer above stage tool.

<u>Production Casing:</u> 4 1/2" cement nosed guide shoe and a float collar on top of bottom joint with centralizers over potential hydrocarbon bearing zones.

#### Cementing Program:

#### 9-5/8" Surface casing: 250'

165 sxs Type III cement with 2% CaCl<sub>2</sub>, ¼#/sx celloflake. 100% excess to circulate cement to surface. WOC 12 hrs.

Slurry weight: 15.2 ppg Slurry yield: 1.27 ft<sup>3</sup>/sack

Volume basis:

 40' of 9-5/8" shoe joint
 17.4 cu ft

 250' of 12-1/4" x 9-5/8" annulus
 96.1 cu ft

 100% excess (annulus)
 96.1 cu ft

 Total
 209.6 cu ft

#### Note:

- 1. Design top of cement is the surface.
- 2. Have available 100 sx Type III cement with 2% CaCL<sub>2</sub> for top out purposes.

#### 7" Intermediate Casing: '

1st Stage: <u>107</u> sacks of Type III cement: <u>4376' – 3713' (663')</u>

Slurry weight: 14.5 ppg Annular Vol =  $\underline{99.7} \text{ cf} + \underline{49.9} \text{ cf} (50\% \text{ Access})$ 

Slurry yield:  $1.4 \text{ ft}^3/\text{sack} = 149.6\text{cf}$ 

2<sup>nd</sup> Stage: (Stage tool at <u>3713</u>' +/-): <u>433</u> sacks of Premium Lite FM

Slurry weight: 12.4 ppg Volume = 831.4 cf

Slurry yield: 1.92 ft<sup>3</sup>/sack

4 8

Volume Basis:	40' of 7" shoe joint	8.8 cu ft
	4126' of 7" x 8 3/4" annulus	620.3 cu ft
	250' of 7" x 9 5/8" csg	41.7 cu ft
	50% excess (open hole annulus)	310.2 cu ft
	Total	981.0 cu ft

#### Note:

- 1. Design top of cement is surface.
- 2. Actual cement volumes to be based on caliper log plus 30%.

#### 4 1/2" Production casing: Air Drilled Hole 4376' - 8428' (4052')

Stage 1: 262 sacks of Premium Lite High Strength FM out guide shoe.

Slurry weight: 12.3 ppg Slurry yield: 2.13 ft<sup>3</sup>/sack

Volume basis:	40' of 4 1/2" shoe joint	3.5 cu ft
	4052' of 4 1/2 " x 6 1/4" hole	415.8 cu ft
	120' of 4 ½" x 7" casing	13.3 cu ft
	30% excess (annulus)	124.7 cu ft
	Total	557.3 cu ft

#### Note:

- 1. Design top of cement is 4256' +/- ft. or 120 ft. into 7" intermediate casing.
- 2. Actual cement volumes to be based on caliper log plus 30%.

#### 5. MUD PROGRAM:

The surface hole will be drilled with spud mud. Gel and polymer sweeps will be used from surface to 250 feet as necessary to keep hole clean.

The intermediate hole will be drilled with water till mud up at about 2300 ft. From 2300' to  $\underline{4376}$ ', intermediate casing depth, will be drilled with LSND mud. Anticipated mud weight ranges from 8.5-9.0 ppg. Mud weight will be increased as required to maintain hole stability and control gas influx.

The production hole will be drilled with air or air/mist.

Sufficient mud materials to maintain stable wellbore conditions (for either well control or lost circulation scenarios) will be maintained at the well site.

No chrome-based additives will be used in the mud system.



#### 6. EVALUATION PROGRAM:

Mud logger:

None Planned

Testing:

No DST is planned

Coring:

None Planned

Electric logs:

Intermediate Hole: Non Planned

Production Hole: TMD-L or Open Hole Platform Express

#### 7. ABNORMAL PRESSURE AND TEMPERATURE:

H <sub>2</sub> S	None
Coal	Fruitland
Minerals	None
Water	None
Static BHT	175° F
Lost Circulation	Possible
Hole Deviation	None
Abnormal Pressures	None
Unusual Drilling Problems	None

8. ANTICIPATED STARTING DATE: December 1, 2006

Anticipated duration: 16 days

6 8V

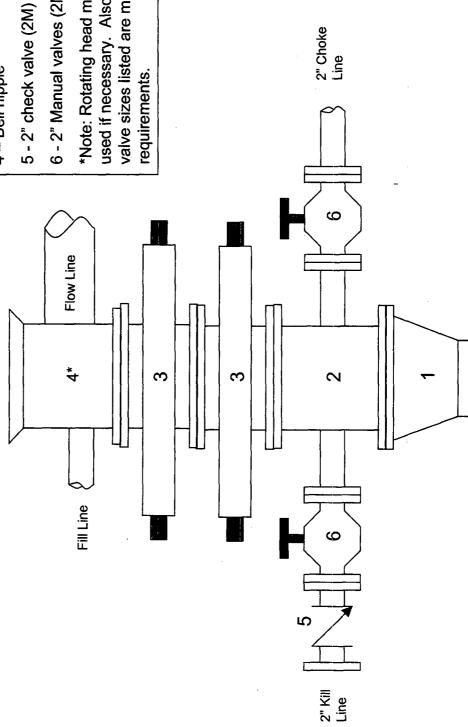
# Jicarilla 102 No. 7N

Minimum requirements 2000 psi BOP stack

# Components

- 1 Wellhead 9-5/8" (2M)
- 2 Drilling spool 11" (2M)
- 3 A double or two single rams with blinds on bottom 11" (2M)
- 4 Bell nipple\*
- 6 2" Manual valves (2M)

used if necessary. Also, all line and \*Note: Rotating head may also be valve sizes listed are minimum



2" Choke Line

## 3 - Mud cross with gauge (2M) flanged Note: All line and valve sizes listed are Jicarilla 102 No. 7N 2000 psi Choke Manifold 4 - Replaceable beam choke (2M) 5 – Adjustable needle choke (2M) Minimum requirements Components minimum requirements. 1 - 2" Valve (2M) 2 - 2" Valve (2M) below the gauge. 2" line to pit or mud/gas separator 2" bypass line 2" line to pit or mud/gas separator (see BOP diagram) 2" line from BOP