FORM APPROVED OMB No. 1004-0136

UNITED 5		Expires 140 tells	~ 50, 2000
DEPARTMENT OF A BUREAU OF LAND		5. Lease Serial No. NM-43442	
APPLICATION FOR PERMIT	TO DRILL OR REENTER	6. If Indian, Allottee or Trib	e Name
1a. Type of Work: ☑ DRILL ☐ REENTER	RECEIVED	7. If Unit or CA Agreement,	
070  1b. Type of Well: □ Oil Well 図 Gas Well □ Ot	OFARMINGTON 1014 ocr ⊠ Single Zone ☐ Multiple Zone	8. Lease Name and Well No. Zoe #91-S	
2. Name of Operator Contact: DUGAN PRODUCTION CORP.	KURT FAGRELIUS E-Mail: kfagrelius@duganproduction.com	9. API Well No. 30-045- 3	3453
3a, Address 709 EAST MURRAY DRIVE FARMINGTON, NM 87401	3b. Phone No. (include area code) Ph: 505.325.1821 Fx: 505.327.4613	10. Field and Pool, or Explor	ratory itland Coal
4. Location of Well (Report location clearly and in accorda	nce with any State requirements.*)	11. Sec., T., R., M., or Blk. a	nd Survey or Area
At surface 1350' FSE and 990' FEL At proposed prod. zone Same as above	·	✓ Sec. 19, T24	₽N, R1OW
14. Distance in miles and direction from nearest town or post Approx. 8-miles SW of I	office* Blanco Trading Post, NM	12. County or Parish San Juan	13. State NM
<ol> <li>Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any)</li> </ol>	16. No. of Acres in Lease	17. Spacing Unit dedicated to	this well
990 Feet	1271.56 Acres	E/2-320.0 Ad	res
<ol> <li>Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.</li> </ol>	19. Proposed Depth	20. BLM/BIA Bond No. on i	ile
Approx. 2500 Feet	1260 Feet	On File	
21. Elevations (Show whether DF, KB, RT, GL, etc. GL - 6550	22. Approximate date work will start ASAP	23. Estimated duration 5-Days	
	24. Attachments		
The following, completed in accordance with the requirements o	f Onshore Oil and Gas Order No. 1, shall be attached to the	nis form:	,
<ol> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan.</li> <li>A Surface Use Plan (if the location is on National Forest Systs SUPO shall be filed with the appropriate Forest Service Office.)</li> </ol>	Item 20 above).  S. Operator certification	ns unless covered by an existing	
25. Signature Kurt Fognlin	Name (Printed/Typed) KURT FAGRELIUS		Date 11/22/05
Title GEOLOGIST			_
Approved by Signatures (Maller les	Name (Printed/Typed)		Date/ \$/3/36
Title AFM	Office FFO		
Application approval does not warrant or certify the applicant ho operations thereon.  Conditions of approval, if any, are attached.	lds legal or equitable title to those rights in the subject lea	se which would entitle the appl	icant to conduct

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. 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.

A water based gel-mud will be used to drill surface and production casing hole. Standard 2,000 psi BOP will be used to drill production hole. The Fruitland Coal will be completed from approximately 1055' - 1080'. The interval will be fracture The <u>interval</u> will be fractured.

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED \*GENERAL REQUIREMENTS\*.

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4



District I PO Box 1980. Hobbs. NM 88241-1980

District II PO Drawer DD, Artesia, NM 88211-0719

District III 1000 Rio Brazos Rd., Aztec, NM 87410

1255.32

1311.42

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-122
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

	ict IV x 2088.	Santa Fe,	NM 87504-	-2088							AMENDI	ED REPORT
•	V	»	e te	WELL	LOCAT	ION AND	ACREAGE [	DEDICA	TION PL	_AT		
3		API Numbe	3453	3	*Pool Coo 71629			BASIN	POOL NAM	7	DAL	
1	Property 54°						oty Name OE				We	11 Number 91S
	'0GRID 0065:				DUGAN		or Name ION CORPOR	RATION			*E	levation 6550
							. Location					
u	or lot no.	19	Township 24N	10W	Lat Idn	Feet from the	North/South SOUTH		eet from the		est line AST	SAN JUAN
				ottom	Hole L	_ocation	If Differ		om Surf			
u	or lotino.	Section	Township	Range	Lot Idn	Feet from the	North/South	line F	eet from the	East/W	est line	County
12 Ded:	icated Acres		0.0 ACR	ES - E	:/2	<sup>13</sup> Jaint or Infill	<sup>14</sup> Consolidation (	Code <sup>15</sup> Ord	ter No.	<u> </u>	·	
NC	) ALLOV	NABLE W					ION UNTIL BEEN APPROV				EEN CON	SOLIDATED
16	1252 J		133	7.16		D	74.32 UGAN -43442		I hereby contained to the Survey Signature	e K	that the is is true any knowledge	FICATION information d complete e and belief grelius
3.12	LOT	2			10 -			. 58 .	I hereby shawn an notes of	11/ EYOR certify tr this plat actual sur	nat the we was plotte veys made	FICATION  11 location ed from field by me or under
5268	LOT	3							my supervand correct Survey Signature	Date:	of Profess	same is true y belief. R 12, 2005 sional Surveyor
	LOT	4							REGYS	15	5269)	ADU LINE

2622.18

Certificate Number

Submit 3 Copies To Appropriate District Office	State of New N			Form C-103
District I 1625 N. French Dr., Hobbs, NM 88240	Energy, Minerals and Na	tural Resources	WELL API NO.	May 27, 2004
District II 1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVATIO	N DIVISION		30-045-00-05
District III	1220 South St. Fr		5. Indicate Type STATE	of Lease Federal FEE
1000 Rio Brazos Rd., Aztec, NM 87410 District IV	Santa Fe, NM	87505	6. State Oil & G	
1220 S. St. Francis Dr., Santa Fe, NM 87505			Federal	NM-43442
SUNDRY NOTI (DO NOT USE THIS FORM FOR PROPO DIFFERENT RESERVOIR. USE "APPLIC PROPOSALS.)		LUG BACK TO A	7. Lease Name of Zoe	or Unit Agreement Name
	Gas Well 🛛 Other		8. Well Number	91-S
2. Name of Operator Dugan	Production Corp.		9. OGRID Num	<sup>ber</sup> 006515
3. Address of Operator 709 Ea	ast Murray Drive, Far	nington, NM	10. Pool name o Basin F	r Wildcat ruitland Coal
4. Well Location	1350 feet from the SOU	-h 0	20	oast
Om Letter				om the east line
Section 19	Township 24N 11. Elevation (Show whether D	Range 10W	NMPM	County San Juan
	GL-6550'			
Pit or Below-grade Tank Application Woo Pit type Drilling Depth to Groundw	r Closure ater_+100 Distance from nearest fresl	water well_+1000 Dist	ance from nearest sur	face water +200 '
Pit Liner Thickness: 12 mil	Below-Grade Tank: Volume		nstruction Material	
12. Check A	Appropriate Box to Indicate	Nature of Notice,	Report or Other	Data
NOTICE OF IN	TENTION TO:	SUB	SEQUENT RE	PORT OF:
PERFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WOR	k 🔲	ALTERING CASING
TEMPORARILY ABANDON DULL OR ALTER CASING	CHANGE PLANS  MULTIPLE COMPL	CASING/CEMENT		P AND A
OTHER: Reserve pit for o	drilling (lined) 💍	OTHER:		
<ol> <li>Describe proposed or comp of starting any proposed we or recompletion.</li> </ol>	leted operations. (Clearly state a ork). SEE RULE 1103. For Mult	l pertinent details, and iple Completions: At	l give pertinent dat tach wellbore diag	es, including estimated date ram of proposed completion
A water based ge Standard 2,000 p	el-mud will be used to osi BOP will be used in opleted from approxima	o drill produc	ction hole.	The Fruitland
I have been said about the information		1	11 1: 6	
I hereby certify that the information grade tank has been/will be constructed or	closed according to NMOCD guideline	best of my knowledge of the second of the se	e and bellet. I furth or an (attached) altern	er certify that any pit or below- native OCD-approved plan .
SIGNATURE KUNT FZG		Geology		DATE 11/7/2005
Type or print name Kurt Fagre	3 1 1 1 1 C	relius@duganpro address:	duction.com T	elephone No.325-1821
For State Use Only	A)		1.	325-1821
APPROVED BY:	VI TITI E	FPUTY OIL & GAS IN	SPECTOR, DIST. 🏟	S DATE MAR 1 3 2006
Conditions of Approval (if any)!	The state of the s		· · · · · · · · · · · · · · · · · · ·	DAIL
·				

Note: Contractor should call One-Call for location of any marked or unmarked buried pipelines

(2) working days prior to construction

or cables on well pad and/or access road at least two

Form 3160-5 (June 1990)

# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED

Budget Bureau No. 1004-0135

Expires: March 31,1993

5. Lease Designation and Serial No.

	SUNDRY	NOTICES AND	REPORTS ON WE	LLS		NM 43442	
	Do not use this form for	6. If Indian, Allotted or Tribe Name					
	Use "APPI		RMIT -" for such prop	oosals			
		SUBMIT IN TR	IPLICATE				
. Type of Well	Oil Well	Gas Well	Other	2131415167718		7. If Unit or CA, Agreement Designation	
. Name of Ope	erator			- ANS	<b>2</b>	8. Well Name and No.	
Dugan Pro	oduction Corp.		(0)	MAR 2008	<u>`````</u>	Zoe #91S	
	Telephone No. 420, Farmington, NM	1 87499 (505)	325 - 1821 👸 🧟	AE DW	7374	9. API WOII NO. 30 045 33453	
ocation of Wel	li (Footage, Sec., T., R., M., or Sui	rvey Description)	1.50	DIS1.		10. Field and Pool, or Exploratory Area	
1350' FSL	. & 990' FEL (NE/4 SE	E/ <b>4</b> )	de	LE LAIGNE RZ BL	<i>y</i>	Basin Fruitland Coal	
Jnit I, Sec	c. 19, T24N, R10W, N	MPM		16 Calle Dear		11. County or Parish, State	
10 CUEC	K ADDDODDIATE BO	V(a) TO INDICAT	E NATURE OF NO	OTICE DEPON	- OD OT	San Juan, NM	
12. CHEC	K APPROPRIATE BO	DX(S) TO INDICAT	IE NATURE OF NO	TYPE OF AC		HER DATA	
K.	Notice of Intent		Abandonment	TIPE OF AC	N E	Change of Plans	
			Recompletion			New Construction	
	Subsequent Report	.   [	Plugging Back			Non-Routine Fracturing	
		[	_			Water Shut-Off	
Ш	Final Abandonment Notice	e   [			님	Conversion to Injection	
		-			⊔	Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	
	annual or Completed Operations (Cl.	andu atata all andiana datail	a and sive postinent dates, incl	luding actionated data of sta		osed work If well is directionally drilled,	
	subsurface locations and measured  Casing program will	and true vertical depths for a	all markers and zones pertinent		arung any prop		
	subsurface locations and measured	and true vertical depths for a	all markers and zones pertinent			g Depth 🤗 Grade	
	subsurface locations and measured	and true vertical depths for a	all markers and zones pertinent	to this work.)*		g Depth O Grade	
	subsurface locations and measured  Casing program will	be changed as fo	all markers and zones pertinent  llows:  Casing Size	to this work.)*  Wt./ft.	Setting	g Depth 070 FARMI	
	Casing program will i Surface casing Production casing	be changed as fo Hole Size	Illows:  Casing Size  8-5/8"  5-1/2"	Wt./ft. 24# 14#	Settino	g Depth 070 FARMI	
	Casing program will i	be changed as fo Hole Size	Illows:  Casing Size  8-5/8"  5-1/2"	Wt./ft. 24# 14#	Settino	Grade DEC 14 60 9 Grade DEC 14 60 9 OTO FARMINGTON	
	Casing program will i Surface casing Production casing	be changed as fo Hole Size	Illows:  Casing Size  8-5/8"  5-1/2"	Wt./ft. 24# 14#	Settino	Grade DEC 14 RM 9 O70 FARHINGTON	
	Casing program will i Surface casing Production casing	be changed as fo Hole Size	Illows:  Casing Size  8-5/8"  5-1/2"	Wt./ft. 24# 14#	Settino	g Depth 070 FARMI	
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## EXHIBIT B OPERATIONS PLAN

Zoe #91-S

#### APPROXIMATE FORMATION TOPS:

Total Depth	1260′
Pictured Cliffs	1080′
Fruitland	740′
Kirtland	330′
Ojo Alamo	230′

Catch samples every 10 feet from 1100 feet to total depth.

#### LOGGING PROGRAM:

Run cased hole GR-CCL-CNL from total depth to surface.

#### CASING PROGRAM:

Hole	Casing		Setting	Grade and
Size	Size	Wt./ft.	Depth	Condition
9-7/8"	7"	20#	120'	J-55
6-1/4"	4-1/2"	10.5#	1260′	J-55

Plan to drill a 9-7/8" hole and set 120' of 7" OD, 20#, J-55 surface casing. Then plan to drill a 6-1/4" hole to total depth with gel-water mud program to test the Fruitland Coal. 4-1/2", 10.5#, J-55 production casing will be run and cemented. Cased hole GR-CCL-CNL log will be run. Productive zone will be perforated and fractured. After frac, the well will be cleaned out and production equipment will be installed.

#### CEMENTING PROGRAM:

Surface: Cement to surface with 70 cf Class B + 2% CaCl<sub>2</sub>. Circulate to surface.

Production Stage-Cement with 130 cf 2%lodense with

%# celloflake/sx followed by 70 cf Class "B" with

%# celloflake/sx.

Total cement slurry for production stage is 200 cf

Circulate cement to surface.

An adequate spacer will be pumped ahead of the cement slurry to help prevent mud contamination of the cement. An adequate number of casing centralizers will be run through usable water zones to ensure that casing is centralized through these zones. The adequate number of centralizers will be determined based on

API standards. Centralizers to impart a swirling action around the casing will be used just below and into the base of the lowest usable water zone. These devices will assist mud displacement, increase cement bonding potential and create an effective hydraulic seal. A chronological log will be kept which records the pump rate, pump pressure, slurry density, and slurry volume for the cement job. The log will be sent to the BLM after completion of the job.

#### WELLHEAD EQUIPMENT:

Huber 7"x4-1/2" casing head, 1000# WP, tested to 2000#. Huber 4-1/2"x2-7/8" tubing head, 1000# WP, tested to 2000#.

BOP and Related Equipment will include for a 2000 psi system: (Exhibit D)

Annular preventer, double ram, or 2 rams with one being blind and one being a pipe ram.

Kill line (2" minimum)

- 1 kill line valve (2" minimum)
- 1 choke line valve
- 2 chokes

Upper kelly cock valve with handle available Safety valve and subs to fit all drill string connections in use.

Pressure gauge on choke manifold.

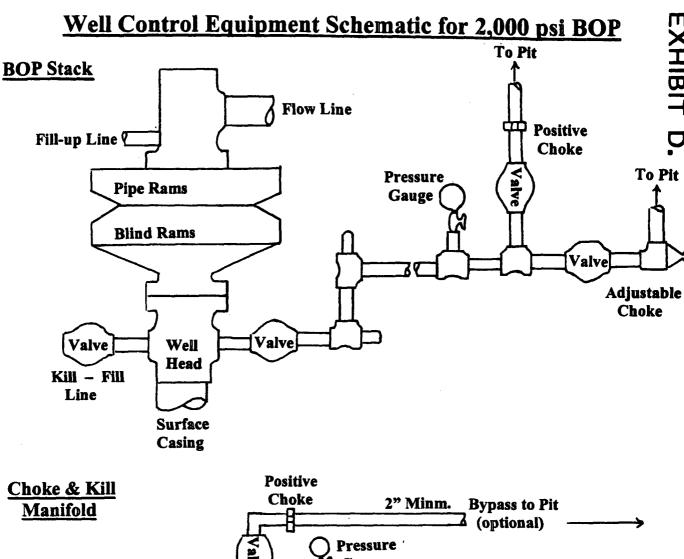
2" minimum choke line.

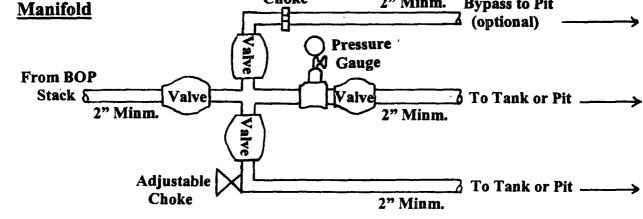
Fill-up line.

### Contacts:

Dugan Prod.Corp. Office & Radio Dispatch: 325-1821

Mark	Brown	327-3632 320-8247	
Kurt	Fagrelius	325-4327 320-8248	
John	Alexander	325-6927 320-1935	, ,





Working Pressure for all equipment is 2,000 psi or greater

DUGAN PRODUCTION CORP. Zoe #91-S