Form 3160-3 (April 2004)			FORM AP OMB No. 1	004-0137	
UNITED STATES		2	1140 Expires Mar	ch 11, 2007 5 7	
DEPARTMENT OF THE I		5. Lease Serial No.			
BUREAU OF LAND MANA	NM-32124				
APPLICATION FOR PERMIT TO I		6. If Indian, Allotes of	Tribe Name		
APPLICATION FOR PERMIT TO	PRILE ON HELINIEN		PIGES "FOR	K7	
Ia. Type of work: XDRILL REENTE	R		7 If Unit or CA Agreen	nent, Name and No.	
		F	8. Lease Name and We	ili No.	
lb. Type of Well: Oil Well X Gas Well Other	X Single Zone Multip	ple Zone	Calgar	y #90-s	
2 Name of Operator Dugan Production Corp.			9. API Well No.	-045- <i>34215</i>	
3a. Address 709 East Murray Drive	3b. Phone No. (include area code)		10. Field and Pool, or Ex	ploratory	
Farmington, NM 87401	505-325-1821		Basin Fruitland Coal		
4. Location of Well (Report invation clearly and in accordance with any	State requirements.*)		1. Sec., T. R. M. or Blk.	and Survey or Area	
At surface 1200' FSL & 1000' FEL, Lat. 36.25156 N			P Sec. 6, T23N, R10W		
At proposed prod. zone Same as above Long.	107.93173 W		NMPM		
14. Distance in miles and direction from nearest town or post office*		1	12. County or Parish San Juan	13. State NM	
Approx. 35-miles SE of Bloomfield,			· · · · · · · · · · · · · · · · · · ·		
15. Distance from proposed* location to nearest	16. No. of acres in lease	17, Spacing	Unit dedicated to this we	1	
property or lease line, ft. (Also to nearest drig, unit line, if any)	636.72 Acres	E/2	- 319.52 Acı	ces	
18. Distance from proposed location*	19. Proposed Depth	20. BLM/BI	/BIA Bond No.		
to nearest well, drilling, completed, Approx. 700' applied for, on this lease, ft.	1065 Feet	On	File		
21. Elevations (Show whether DF, KDB, RT, GL, etc.) GL-6568'	22. Approximate date work will star ASAP	rt*	23. Estimated duration 5-Days		
GH-0308	24. Attachments	:			
The following, completed in accordance with the requirements of Oushor	e Oil and Gas Order No.1. shall be a	ttached to this	form:		
		_		to a man	
Well plat certified by a registered surveyor.	4. Bond to cover to ltem 20 above).	se operations	unless covered by an ex	isting bond on thie (see	
 A Drilling Plan. A Surface Use Plan (if the location is on National Forest System) 	1	ation			
SUPO shall be filed with the appropriate Forest Service Office).		specific inform	nation and/or plans as m	ay be required by the	
25. Signature	Name (Printed/Typed)			ale	
Kust trans	\ Kurt Fagrel	ius	M	larch 12, 2007	
Title Geologist					
Approved by (Signature)	Name (Printed/Typed)		D	ste 5/4/0 7	
Title AFM	Office FF				
Application approval does not warrant or certify that the applicant holds conduct operations thereon. Conditions of approval, if any, are attached.	s legalor equitable title to those righ	ts in the subje	ct lease which would enti	tle the applicant to	
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a cristates any false, fictitious or fraudulent statements or representations as to		vilifully to mal	te to any department or a	gency of the United	
*(Instructions on page 2)					
A water based gel-mud will be used	to drill surface a	nd prod	uction casing	hole.	

Standard 2,000 psi BOP will be used to drill production hole. The Fruitland Coal will be completed from approximately 890' - 914'. The interval will be fracture

NOTIFY AZTEC OCD 24 HRS. PRIOR TO CASING & CEMENT

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

stimulated.

NMOCD

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

District I 1625 N. French Dr., Hobbs, NM 88240

District II 1301 W. Grand Avenue, Artesia, NM 88210

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

District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy, Minerals & Natural Resources Department

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

Form C-102 Revised October 12, 2005 Instructions on back Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies 207 MAR 12 AM 8: 57

PARTZ AN 8:57
AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

30-045-34215	*Pool Code 71629	Pool Name BASIN FRUITLAND COAL		
'Property Code	Propert CALG	•		
OGRID No. 006515	Operato DUGAN PRODUCTI			

10 Surface Location Section Feet from the North/South line East/West line UL or lot no. Township Range Feet from the Р 6 23N 10W 1200 SOUTH 1000 **EAST** SAN JUAN ¹¹Bottom Hole Location If Different From Surface Range Feet from the North/South line Feet from the County Ut or lot no. Section East/West line RCUD MAYAYA7 Joint or Infill ³⁴ Consolidation Code 12 Dedicated Acres Order No. OIL CONS. DIV. 319.52 Acres - (E/2) DIST. 3

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

16	1271.82	1311.42	1311.42	1311.42	"OPERATOR CERTIFICATION
1316.70	LOT 4	LOT 3	LOT 2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
1316.04	L0T 5		DUC NM-3		Ruit ragielius
13		<u> </u>	5 — — - 1		Increase to the best of my belief. Survey Date: JANUARY 10, 2007
.40	LOT 6			1314 72	SECON C. EDWARDS
2633	LOT 7		LAT: 36.25156 N LONG: 107.93173 W DATUM: NAD1983	000,	ARTESSION
	1298.22	1318.02	. 2636	<u> </u>	JASON C. EDWARDS Certificate Number 15269

Submit 3 Copies To Appropriate District Office	State of New Me				C-103
District I	Energy, Minerals and Nati	ıral Resources	WELL API NO.	May	27, 2004
1625 N. French Dr., Hobbs, NM 88240 District II	ON CONCERNAL MON	DIMOTON	WELL AFINO.	30-045-3 4 6	2/5
1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVATION	5. Indicate Type of	of Lease Feder	ral XX	
<u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410	1220 South St. Francis Dr.		STATE FEE		
District IV 1220 S. St. Francis Dr., Santa Fe, NM	Santa Fe, NM 8	/505	6. State Oit & Gas Lease No. Federal NM-32124		
87505					
SUNDRY NOTION (DO NOT USE THIS FORM FOR PROPOSE	CES AND REPORTS ON WELLS		7. Lease Name or	Unit Agreement	Name
DIFFERENT RESERVOIR, USÉ "APPLIO			Calgary		
PROPOSALS.) 1. Type of Well: Oil Well	Gas Well X Other	•	8. Well Number	90-S	
2. Name of Operator	das weir [1] Other		9. OGRID Numbe		
Dugan	Production Corp.			006515	
3. Address of Operator 709 Ea	st Murray Drive, Farmingt	on. NM 87401	10. Pool name or		
			Basin F	ruitland Coa	.1
4. Well Location	1000 C (6	1' 1	1000 6 .6		
	1200 feet from the south			n the east_	line
Section 6	Township 23N Ri 11. Elevation (Show whether DR	ange 10W	NMPM	County San J	uan
	GL-6568'	, 10(D, 1(1, OI), elc.)			
Pit or Below-grade Tank Application [X] or	Closure				
Pit type <u>Drilling</u> Depth to Groundwa	ter <u>+100 '</u> Distance from nearest fresh v	vater well <u>+1000</u> 'Dist	ance from nearest surfa	ce water_+200 '	
Pit Liner Thickness: 12 mil	Below-Grade Tank: Volume	bbls; Co	nstruction Material S	ynthetic	
12. Check A	ppropriate Box to Indicate N	ature of Notice,	Report or Other 1	Data	
NOTICE OF IN	TENTION TO:	יםוופ	SEQUENT REF	OPT OF	
PERFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WOR		ALTERING CASI	NG []
TEMPORARILY ABANDON	CHANGE PLANS	COMMENCE DRI	-		
PULL OR ALTER CASING	MULTIPLE COMPL	CASING/CEMENT	JOB 🔲		
OTHER: Reserve pit for dr:	illing (lined) 🗓	OTHER:			
13. Describe proposed or compl	eted operations. (Clearly state all		give pertinent dates	s, including estim	ated date
of starting any proposed wo	rk). SEE RULE 1103. For Multip				
or recompletion.					
A water baced cal m	nd will be used to drill	surface and nr	oduction casin	a hole	
_		_		=	
•	30P will be used to drill	-			
will be completed fr	com approximately 890' -	914'. The int	erval will be	fracture	
stimulated.					
					-
I hereby certify that the information a grade tank has been/will be constructed or	bove is true and complete to the be closed according to NMOCD guidelines	est of my knowledge I, a general permit 🔲	and belief. I further or an (attached) alternal	certify that any pit of tive OCD-approved p	or below- plan .
SIGNATURE POT FERM	2 TITLE C	eologist		DATE 3/12/20	107
Kurt Fagrelius		@duganproducti	on.com 505	-325-1821	· • · ·
Type or print name	E-mail ad	dress:	Tele	ephone No.	
For State Use Only	<u></u>			'111	0 9 200
APPROVED BY: Conditions of Approvar (if any):	TITLE	MIT OIL & GAS IN	ISPECTOR, DIST.		

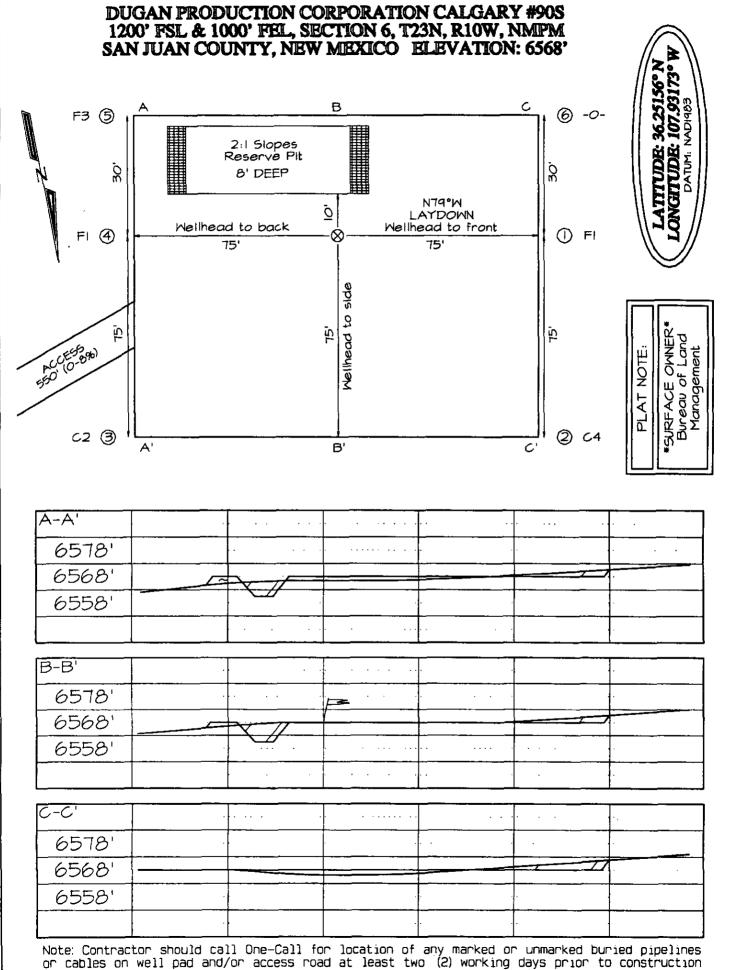


EXHIBIT B OPERATIONS PLAN

Calgary #90-S

APPROXIMATE FORMATION TOPS:

Pictured Cliffs Total Depth	915 <i>'</i> 1065'
Fruitland	550 ′
Kirtland	10'
Ojo Alamo	Surface

Catch samples every 10 feet from 850 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
12-1/4"	8-5/ 8"	24#	120′	J-55
7"	5-1/2"	14#	1065′	J-55

Plan to drill a 12-1/4" hole and set 120' of 8-5/8" OD, 24#, J-55 surface casing. Then plan to drill a 7" hole to total depth with gel-water mud program to test the Fruitland Coal. 5-1/2", 14#, 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:

<u>Surface</u>: Cement to surface with 70 cf Class B + 2% CaCl₂. Circulate to surface.

Production Stage-Cement with 105 cf 2%lodense with

%# celloflake/sx followed by 65 cf Class "B" with

%# celloflake/sx.

Total cement slurry for production stage is 170 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 8-5/8"x5-1/2" casing head, 1000# WP, tested to 2000#. Huber 5-1/2"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.

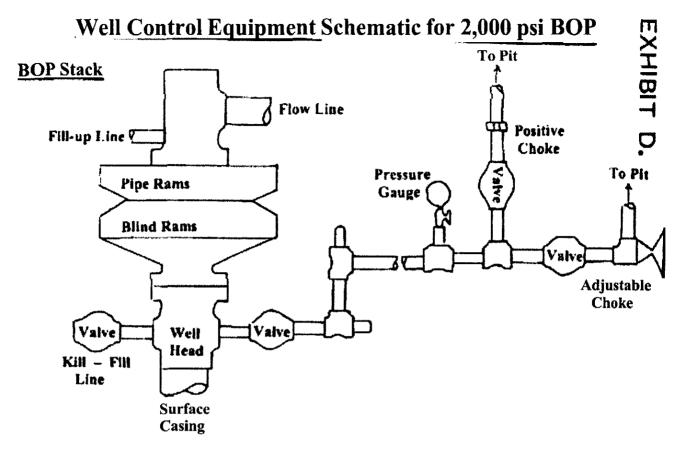
2" minimum choke line.

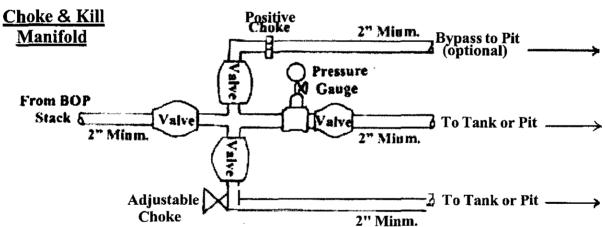
Fill-up line.

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.

CALGARY #90-S