Form 3150-3 (August (999) FORM APPROVED OMB No. 1004-0136 Expires November 30, 200

(August ()) >)	_	UNITED S				•	Expires Nove	mber 30, 20	100
		DEPARTMENT OF BUREAU OF LAND				5. Lease Se			
.*	ADDI ICAT	ION EOD DEDMI	TO DRILL OR RE	23,75	m 11 03	NM-10	Allottee or Tr	ihe Name	
·	APPLICAT	ION FOR PERMIT				0. II IIIdian	, Another of Ti	noc manne	
1a. Type of Work:	☑ DRILL	☐ REENTER		SMIN	CTON NM	7. If Unit o	r CA Agreeme	nt, Name	and No.
1b. Type of Well:	☐ Oil Well	☐ Gas Well 🔯 (gle Zone	Multiple Zone		ame and Well I	No.	
2. Name of Operat DUGAN PRO	or	Contac	ct: KURT FAGRELIUS E-Mail: kfagrelius@duga	3	_=	9. API Wel	1 No. 15	324	183
3a. Address 709 EAST MU FARMINGTON	RRAY DRIVE I, NM 87401		3b. Phone No. (included Ph: 505.325.182) Fx: 505.327.4613	1	de)		nd Pool, or Exp FRUITLANI		
4. Location of Wel	l (Report loca	ition clearly and in accor	dance with any State requi	irements. *	')	11. Sec., T	, R., M., or Bli	c. and Sur	vey or Area
At surface At proposed p		IW 2025FNL 830FW	/L 36.49490 N Lat, 10	8.18070	W Lon 3 14 15 16 77	Sec 10	T30N R14V	V Mer N	MP
14. Distance in mi	les and direction	n from nearest town or po TH OF KIRTLAND, N			NOV 2004	SAN J	or Parish JAN		13. State
15. Distance from lease line, ft. (830'	proposed locatio Also to nearest d	on to nearest property or drig. unit line, if any)	16. No. of Acres in L 1397.16	T~	PACKEVED PL COMB. DIV	1 5 31	Unit dedicate	d to this w	rell
	plied for, on this	on to nearest well, drilling s lease, ft.	g, 19. Proposed Depth 1430 MD	A.C.	E/21000 67 966	20 BLM/E	BIA Bond No. o	on file	
21. Elevations (Sh 5687 GL	ow whether DF,	KB, RT, GL, etc.	22. Approximate date 08/23/2004	e work wi	ll start	23. Estima 5-DAY	ted duration S	**************************************	
			24. Att	achmen	ts				
he following, comp	leted in accordar	nce with the requirement	s of Onshore Oil and Gas (Order No.	1, shall be attached to	this form:	· .		
. Well plat certified 2. A Drilling Plan. 3. A Surface Use Pla SUPO shall be	an (if the location	surveyor. n is on National Forest Spropriate Forest Service	ystem Lands, the Office).	5. Ope	nd to cover the operat in 20 above). erator certification th other site specific in thorized officer.		·	•	
25. Signature	rt Fag	relius	Name (Printed/Typed KURT FAGRE					Date 07/	23/2004
Title GEOLOGIST	-								,
Approved by Sign	Maule	ie G	Name (Printed/Typed)				Date	/00
Title	AFM		Office	70					
Application approval operations thereon. Conditions of approv			holds legal or equitable tit	le to those	rights in the subject	ease which wo	uld entitle the a	pplicant to	o conduct
Title 18 U.S.C. Section	on 1001 and Titl	le 43 U.S.C. Section 121	2, make it a crime for any p	erson kno	wingly and willfully	to make to any	department or	agency of	the United

Additional Operator Remarks:

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 1100' - 1275'. The interval will be fractured.

OF LING OPERATIONS AUTHORIZED ARE COMPLIANCE WITH ATTACHED COMPLIANCE WITH ATTACHED COMPLETE.

NMOCO

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; Antesia, NM 88211-0719

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

District IV PO Boy 2088, Santa Fe. NM 87504-2088

State of New Mexico Energy, Minerals & Natural Resources Department

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

Form C-10 Revised February 21, 199 Instructions on bac

Submit to Appropriate District Office State Lease - 4 Copie: Fee Lease - 3 Copie:

AMENDED REPORT

PO Box 2088, S	Santa Fe.	NM 87504-	2088								
			WELL	LOCAT	A DNA NOI	CREAGE DEDI	ICAT	TION PL	_AT		•
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Property 359	1		Property Name "Well Number BIG FIELD 91S							91S	
'OGRID N 00651				DUGAN	•					levation 5687	
, , , , , , , , , , , , , , , , , , , ,				:	¹⁰ Surface	Location			L		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Fee	et from the	East/We	st line	County
Ε	10	30N	14W	l!	2025	NORTH	_	830	WE:	ST	SAN JUAN
					ocation I			om Surf	ace		
UL or lat no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Fee	it from the	East/Wes	st line	County
² Dedicated Acres	31	9.11 Acr	res (W/	/2)	²³ Joint or Infill	³⁴ Consolidation Code	S Order	No.	L		
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9301	5 j	1		Î		İ	o l	Date		*	

830 91-S 0 91 NOV 200 8 2640. **DUGAN** 5304.42 NM-10561

*SURVEYOR CERTIFICATION

I hereby certify that the well location shown 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: JULY 12, 2004

Signature and Seal of Professional Surveyor



Certificate Number 15269

Submit 3 Copies To Appropriate District Office		of New Mexico Is and Natural Resources	Form C-103 March 4, 2004
District I 1625 N. French Dr., Hobbs, NM 88240			WELL API NO.
<u>District II</u> 1301 W. Grand Ave., Artesia, NM 882	••	RVATION DIVISION	5. Indicate Type of Lease
District III 1000 Rio Brazos Rd., Aztec, NM 87410	n .	ith St. Francis Dr.	STATE FEE FED.XX
District IV 1220 S. St. Francis Dr., Santa Fe, NM	Santa	Fe, NM 87505	6. State Oil & Gas Lease No.
87505			Federal NM-10651
SUNDRY NO (DO NOT USE THIS FORM FOR PRO	OTICES AND REPORTS OPPOSALS TO DRILL OR TO DE		7. Lease Name or Unit Agreement Name
DIFFERENT RESERVOIR. USE "AP PROPOSALS.)			Big Field
1. Type of Well:			8. Well Number
Oil Well Gas Well	Other		91-S
2. Name of Operator			9. OGRID Number 006515
3. Address of Operator	n Production Corp.		10. Pool name or Wildcat
709	East Murray Drive,	, Farmington, NM 8740	Basin Fruitland Coal
4. Well Location			
Unit Letter E	· 2025 feet from th	ne North line and	330' feet from the West line
		•	
Section 10	Township		NMPM County San Juan
	11. Elevation (Show 5687	whether DR, RKB, RT, GR, etc G.L.	
it or Below-grade Tank Application	(For pit or below-grade tank cl	osures, a form C-144 must be attach	1275 Distance from nearest fresh water well
Distance from nearest surface water	edfeet from the	line	
Distance from nearest surface water feet from theline an 12. Chec NOTICE OF	ck Appropriate Box to 1 INTENTION TO:	time Indicate Nature of Notice, SUE	Report or Other Data
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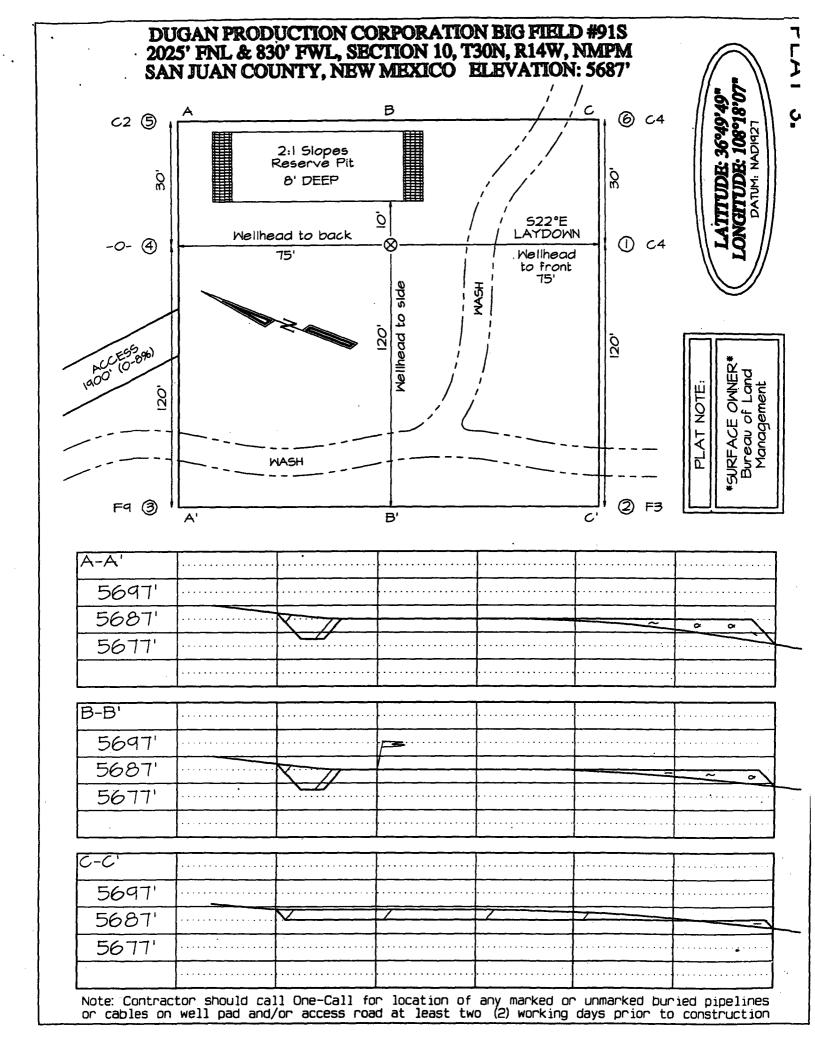


EXHIBIT B OPERATIONS PLAN Big Field #91-S

APPROXIMATE FORMATION TOPS:

Kirtland	Surface	Pictured Cliffs	1275′
Fruitland	885′	Total Depth	1430′

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
$\overline{12-1}/4"$	8-5/ 8"	24#	120'	J-55
7 "	5-1/2"	14#	1430′	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:

Surface: Cement to surface with 80 cf Class B + 2% CaCl₂. Circulate to surface.

Production Stage-Cement with 150 cf 2%Lodense with

¼# celloflake/sx followed by 75 cf Class "B" with

¼# celloflake/sx.

Total cement slurry for production stage is 225 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.

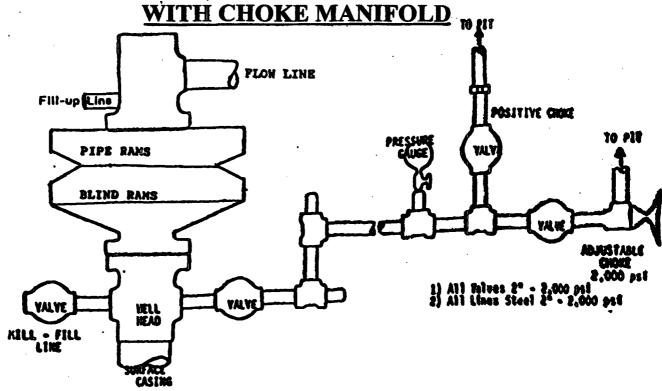
Fill-up line.

Contacts:

Dugan Prod.Corp. Office & Radio Dispatch: 32	325-1821
--	----------

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

BOP DIAGRAM EXHIBIT D.



BOP and Related Equipment will include for a 2000 poi system:

2000 PSI DOUBLE BAN BLOWOUT PREVENTER

Kill line (2" misimum) 1 kill line valve (2" minimum)

1 choke line valve

2 chokes

Upper kelly cock valve with handle available

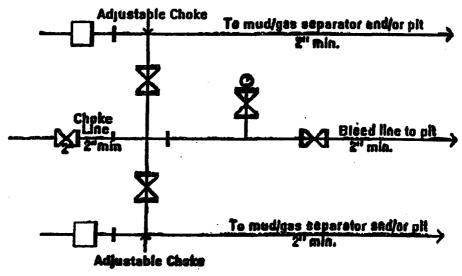
Safety valve and subs to fit all drill string connections in use

Pressure gauge on choke manifold

2" minimum choke line

Fill-up lime above the uppermost preventer

BOP equipment will be tested as required in Section III A.1 of Onshore Order 2, plus a 30% safety factor.



2M Choke Manifold Equipment - Configuration May Very

DUGAN PRODUCTION CORP. BIG FIELD #91-S