SUBMIT IN TRIPLICATE*

(Other instructions on

FORM APPROVED

UNITED STATES	
EPARTMENT OF THE INTERIOR	

OMB NO. 1004-0136

	UNITE	D STATES		reverse side)		Expires: February	28, 1995
	DEPARTME	NT OF THE INTERIO	₹			5. LEASE DESIGNATION AND SERIA	L NO.
		LAND MANAGEMEN				SF-081231-B	
	APPLICATION FOR PE	RMIT TO DRILL OR	DEEPE	N .		6. IF INDIAN, ALLOTTED OR TRIBE	NAME
1.a. TYPE OF WORK	DRILL X	DEEPEN				7. UNIT AGREEMENT NAME	- C/A
b. TYPE OF WELL							380/
Oil Well	Gas X Other	SING ZO:		MULTIPLI ZONI	1 1	8. FARM OR LEASE NAME, WELL NO	
2. Name of Operator						Pan American Fed	deral #2
Dugan Productio	n Corp.			· · · · · · · · · · · · · · · · · · ·	,. <u></u>	9. API Well No.	1
3. Address and Telephone No.			7.4	0000	_	30-045-30918	*****
	Farmington, NM 87499	(505) 325 - 1821	<u> </u>	(JE160 (0))	-	10. FIELD AND POOL, OR WILDCAT Harper Hill FR Sal	
	tion clearly and in accordance with any State requ			ক্টিকি, ►	,		ilu FC
At surface 450 F	FNL & 1626 ' FWL (NW/4 N '	NVV/4)	i A	IPR 2002	1.3	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA	
At proposed prod. zone	same					Unit D	
		\\\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.		er ,		Sec. 24, T30N, R	14W
	ECTION FROM NEAREST TOWN OR POST OFFICE*			· · · · · · · · · · · · · · · · · · ·		12. COUNTY OR PARISH	13. STATE
5 miles north of F		Les vo or some municipal	·	17. NO. OF ACRES A	CCICNED	San Juan	NM
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST		16. NO. OF ACRES IN LEASE		TO THIS WELL	POSIGNED		
PROPERTY OR LEASE LINE, FT		32	n	1		160 (NW/4)	
(Also to nearest drig, unit line 18. DISTANCE FROM PROPOSED I	· · · · · · · · · · · · · · · · · · ·	19. PROPOSED DEPTH	<u> </u>	20. ROTARY OR CAI	BLE TOOLS	100 (1444)	
TO NEAREST WELL, DRILLING							
OR APPLIED FOR, ON THIS LE	ASE, FT. 300'	1765'		1		Rotary	
21. ELEVATIONS (Show whether t	DF, RT, GR, etc.)					22. APPROX. DATE WORK WILL STA ASAP	kt =
5999' GL		PROPOSED GLERNE AND CENT	NETNIC DDO	CDAM		1 ASAF	
23.	GRADES, SIZES OF CASING	PROPOSED CASING AND CEME		TTING DEPTH	T	QUANTITY OF CEMENT	
8-3/4"	7"	20#	120'		70 cu.	ft. circ. to surf.	
61/4"	41/2"	10.5#	1765'		270 ct	.ft. circ. to surf.	
will be used to dr 1641'-1651'. The This action is procedural rev and appeal pu	el-mud will be used to drill rill production hole. The Pe interval will be fractured. subject to technical and lew pursuant to 43 CFR 3165.4. PROPOSED PROGRAM: If proposal is to design the pursuant to 43 CFR 3165.4.	OMILLING OPE SUBJECT TO C	ne will b RATIONS OMPLIAN QUIREME	e complete AUTHORIZE ICE WITH A'	d from a	ipproximately	
	ertinent data on subsurface locations and r						
	/ Kurt Fagrelius				_		
(This space for Federal or S	itate office use)			//	122	102	
PERMIT NO.		APPROVAL DA			<i></i>		
CONDITIONS OF APPROVAL	rrant or certify that the applicant holds legal or equ ., IF ANY: BVID J. MANKIEWICZ Titl	ATM	ase which would	a entrue th e applicant	to conduct ope	AFA TO	grad Lauk

*See Instructions on Reverse Side Title 18 U.S.C. Section 1001, makes 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.

WALL THE THE NEL

Nation.

5 BLM 1 File

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. SF-081231-B

	SUNDRY	NOTICES	AND	KEPU	RIS	ON	WELLS
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• •	OR PERMIT -" for such proposals	6. If Indian, Allotted of Tribe Name
	IN TRIPLICATE	
rpe of Well Gas		7. If Unit or CA, Agreement Designation
Well X Well	Other Other	
lame of Operator		8. Well Name and No.
gan Production Corp.	* PD 2002	Pan American Federal #2
ddress and Telephone No. O. Box 420, Farmington, NM 87499	APR 2002 (505) 325 - 1821	9. API Well No. 30 045 30 9/8
ation of Well (Footage, Sec., T., R., M., or Survey Description)		10. Field and Pool, or Exploratory Area
0' FNL & 1020' FWL (NW/4 NW/4)		Harper Hill FR Sand PC
nit D, Sec. 24, T30N, R14W, NMPM		11. County or Parish, State
III B, 3ec. 24, 13014, 171444, 141011 101		San Juan, NM
. CHECK APPROPRIATE BOX(s) TO IN	DICATE NATURE OF NOTICE, REPOR	
TYPE OF SUBMISSION	TYPE OF AC	
Notice of Intent	Abandonment	Change of Plans
	Recompletion	New Construction
Subsequent Report	☐ Plugging Back	Non-Routine Fracturing
	Casing Repair	☐ Water Shut-Off
Final Abandonment Notice	☐ Altering Casing	Conversion to Injection
_	◯ Other Re-staked	Dispose Water
give subsurface locations and measured and true vertical d	depths for all markers and zones pertinent to this work.)*	
give subsurface locations and measured and true vertical d	ras restaked. New footages for the location, R14W, San Juan County, New Mexico)	Completion or Recompletion Report and Log form.) larting any proposed work. If well is directionally drilled, on are 545' FNL & 1215' FWL. a. An amended C-102, cut & fill
Location to the proposed well we (Unit Letter D, Section 24, T30N diagram and topographical map	ras restaked. New footages for the location, R14W, San Juan County, New Mexico) are attached.	Completion or Recompletion Report and Log form.) larting any proposed work. If well is directionally drilled, on are 545' FNL & 1215' FWL. a. An amended C-102, cut & fill
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Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any person person knowingly and willfully to make to any person person knowingly and willfully to make to any person person knowingly and willfully to make to any person person knowingly and willfully to make to any person knowingly and willfully any person knowingly and willfully any person knowingly and will any person knowingly an or representations as to any matter within its jurisdiction.

District I PO Box 1980, Hobbs. 58 88241-1980

District II PO Drawer DD, Antesia. NM 88211-0719

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

District IV PO Box 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-102 Revised February 21, 1994 Instructions on back Submit to Appropriate District Office

obmit to Appropriate District Office State Lease — 4 Copies Fee Lease — 3 Copies

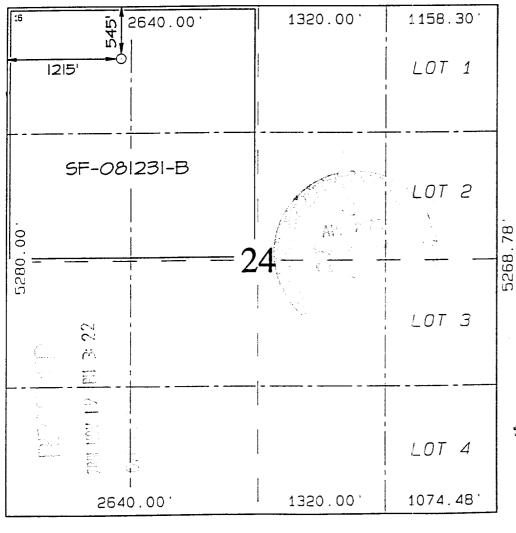
AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

'API Number	Pool Code Pool Name				
30 045 30918	3098 78160 HARPER HILL FRUITLAND SAND PIC				
'Property Code	³Property Name				
3801	PAN AMERICAN FEDERAL				
'OGAID No.	* Op	erator Name	*Elevation		
006515	DUGAN PRODUCTION CORPORATION				
<u> </u>	40 -				

¹⁰ Surface Location North/South line UL or lot no. Section Township Range Lot Ion Feet from the Feet from the East/West line County WEST NORTH 1215 545 SAN JUAN 24 30N 14W Ω ¹¹Bottom Hole Location If From Surface Different Range Feet from the North/South line Feet from the East/West line County Township UL or lot no Section 13 Joint or Infill 14 Consolidation Code 15 Order No 12 Dedicated Acres 160 Acres (NW/4)

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



	"OPERATOR CERTIFICATION
	I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief
	Kurt Fagrelles Signature
	Kurt Fagrelius Printed Name
-	Geologist Title
_	November 19, 2001 Date
	I hereby centify that the well location shown on this plat was plotted from field notes of actual surveys made by me or uncermy supervision, and that the same is true and correct to the best of my belief. Survey Date: NOVEMBER 10, 2001
	Signature and Seal of Professional Surveyor
	PEGISITAR ADDS HOLEN AND STATE OF THE STATE
	JASON C. EDWARDS Certificate Number 15269

DUGAN PRODUCTION CORPORATION PAN AMERICAN FEDERAL #2 545' FNL & 1215' FWL, SECTION 24, T30N, R14W, N.M.P.M. SAN JUAN COUNTY, NEW MEXICO PIPELINE

EXHIBIT B OPERATIONS PLAN

Pan American Federal #2

APPROXIMATE FORMATION TOPS:

Ojo Alamo/McDermott - surface Kirtland - 180' Fruitland - 1343' Pictured Cliffs - 1623'

Total Depth - 1765'

LOGGING PROGRAM: Run cased hole CNL-CDL

Catch samples every 10 feet from 1350 feet to total depth.

CASING PROGRAM:

Hole Casing		Setting		Grade and	
<u>Size</u>	<u>Size</u>	<pre>Wt./ft.</pre>	<u>Depth</u>	<u>Condition</u>	
8-3/4"	7"	20#	±120'	J-55	
6-1/4"	4-1/2"	10.5# ±	±1765'	J-55	

Plan to drill a 8-3/4" 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 Fruitland Sand/PC Formation. 4½", 10.5# J-55 casing will be run and cemented. Cased hole CNL-CDL 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: All volumes are contingent upon Caliper logs.

Surface: Cement with 70 cu.ft. Class "B" neat. Circulate 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" x 4-1/2" casing head, 1000#WP, tested to 2000# Huber 4-1/2" x 2-7/8" tubing head, 1000# WP, tested to 2000#

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

Annual 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

Dugan Prod.Corp. Office & Radio Dispatch: 325-1821 Kurt Fagrelius 325-4327 Mark Brown 327-3632 John Alexander 325-6927 John Roe 326-1034