Form 3160-5 (Avigust 1999) UNITED ST DEPARTMENT OF T	FORM APPROVED OMB No. 1004-0136 Expires November 30, 2000 5. Lease Serial No. NM-628		
BUREAU OF LAND			
APPLICATION FOR PERMIT	TO DRILL OR REENTER	6. If Indian, Allottee or Tribe	Name
la. Type of Work: 🛛 DRILL 🔲 REENTER		7. If Unit or CA Agreement, 1	Name and No.
lb. Type of Well: ☐ Oil Well ☐ Gas Well 🔯 Oth	ner: CBM 🔯 Single Zone 🔲 Multiple Zone	8. Lease Name and Well No. MOLLY PITCHER 90-S	······································
	KURT FAGRELIUS E-Mail: kfagrelius@duganproduction.com	9. API Well No. 30045	32199
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 Explora BASIN FRUITLAND C	atory
4. Location of Well (Report location clearly and in accorda	nce with any State requirements.*)	11. Sec., T., R., M., or Blk. ar	nd Survey or Area
At surface SESE 915FSL 660FEL 36. At proposed prod. zone	P Sec 14 T30N R14W N SME: BLM	Mer NMP	
14. Distance in miles and direction from nearest town or post APPROX. 5-MILES NORTH OF FARMINGTON	, NM	12 County or Parish	13. State
 Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 660 	16. No. of Acres in Lease APR 2004 320.00	17. Spacing Unit dedicated to 320.00	this well
 Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. APPROX. 1,550' 	19. Proposed Depth 1800 MD	20. BLM/BIA Bond No. on fi	ile
21. Elevations (Show whether DF, KB, RT, GL, etc. 5938 GL	22. Approximate date work will start 200 03/01/2004	23. Estimated duration 6-DAYS	
	24. Attachments	·	
 The following, completed in accordance with the requirements of Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest Syst SUPO shall be filed with the appropriate Forest Service Office of the Control o	4. Bond to cover the operatio ltem 20 above). em Lands, the 5. Operator certification	his form: ns unless covered by an existing ormation and/or plans as may be	•
25. Signature Kurt Fagrelius	Name (Printed/Typed) KURT FAGRELIUS		Date 02/11/2004
Title GEOLOGIST			
Approved by (Signature)	Name (Printed/Typed)		Date 33004
Title	Office		
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 le	ase which would entitle the appli	icant to conduct

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 1,540' -1,640'. The interval will be fractured.

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.

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

District II' PO Drawer DD, Artesia, 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 52 PO Box 2088 5 M 52 Santa Fe. NM 87504-2088

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

070 Farmington, NM

AMENDED REPORT

Form C-102

WELL LOCATION AND ACREAGE DEDICATION PLAT

'A	'API Number 'Pool Cod			le	³Pool Name					
30.01	(5-7	32 <i>199</i> 71629				BASIN FRUITLAND COAL				
Property	Code	T :			*Property Name			W	Well Number	
37	71	MOLLY PITCHER 90S					905			
'OGRID N	NO.	*Operator Name *Elevat					Elevation			
00651	5	DUGAN PRODUCTION CORPORATION 5938					5938 '			
¹⁰ Surface Location										
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/Nest line	County	
Р	14	30N	14W		915	SOUTH	660	EAST	SAN JUAN	
¹¹ Bottom Hole Location If Different From Surface										
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
12 Dedicated Acres		.0 Acres	- (E/	/2)	¹³ Joint or Infill	¹⁴ Consolidation Code	²⁵ Order No.			
NO ALLOW		TI BE A	COTONE) TO TU	IS COMPLETE	ON LINTTI ALI	INTERESTS L	JAVE BEEN CO	NICOL TOATED	

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

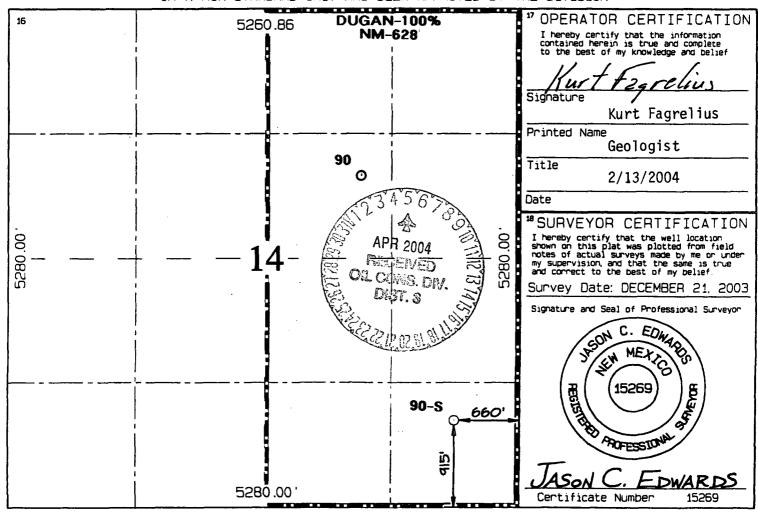


EXHIBIT B OPERATIONS PLAN

Molly Pitcher #90-S

APPROXIMATE FORMATION TOPS:

Ojo Alamo	Surface	Pictured Cliffs	1650′
Kirtland	190′	Total Depth	1800'
Fruitland	1305′		

Catch samples every 10 feet from 1500 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#	220'	J-55
7"	5-1/2"	14#	1800′	J-55

Plan to drill a 12-1/4" hole and set 220' 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 140 cf Class B + 2% CaCl₂. Circulate to surface.

Production Stage-Cement with 180 cf 2%Lodense with

%# celloflake/sx followed by 95 cf Class "B" with

%# celloflake/sx.

Total cement slurry for production stage is 275 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	