

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

2005 DEC 14

FORM APPROVED
OMB No. 1004-0137
Expires March 31, 2007

RECEIVED

5. Lease Serial No. NM-78060

6. If Indian, Allottee or Tribe Name

1a. Type of work: ☒ DRILL ☐ REENTER

7. If Unit or CA Agreement, Name and No.

1b. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone

8. Lease Name and Well No. Frazzle Com #90

2. Name of Operator Dugan Production Corp.

9. API Well No. 30-045-33483

3a. Address 709 East Murray Drive, Farmington, NM 87401

3b. Phone No. (include area code) 505-325-1821

10. Field and Pool, or Exploratory Basin Fruitland Coal

4. Location of Well (Report location clearly and in accordance with any State requirements.)
At surface 1995' FSL & 1815' FWL, Lat. 36.1657; Long. 107.5620
At proposed prod. zone Same as above Same as above

11. Sec., T. R. M. or Blk. and Survey or Area
K Sec. 30, T24N, R10W NMPM

14. Distance in miles and direction from nearest town or post office*
Approx. 10-miles SW of Blanco Trading Post, NM

12. County or Parish San Juan

13. State NM

15. Distance from proposed* location to nearest property or lease line, ft. 1815 Feet
(Also to nearest drig. unit line, if any)

16. No. of acres in lease 760.00 Acres

17. Spacing Unit dedicated to this well W/2-313.44 Acres

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 2500'

19. Proposed Depth 1100 Feet

20. BLM/BIA Bond No. on file On File

21. Elevations (Show whether DF, KDB, RT, GL, etc.) GL-6482

22. Approximate date work will start* ASAP

23. Estimated duration 6-Days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see item 20 above).
5. Operator certification
6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature Kurt Fagrelus

Name (Printed/Typed) Kurt Fagrelus

Date 12/12/2005

Title Geology

Approved by (Signature) [Signature]

Name (Printed/Typed)

Date 3/15/06

Title AFM

Office FFO

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

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.

*(Instructions on page 2)

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 910' - 940'. The interval 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

NMOC

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

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised February 21, 1994

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

OIL CONSERVATION DIVISION

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

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

PO Box 2088

Santa Fe, NM 87504-2088

DEC 14 6 10 04

District IV
PO Box 2088, Santa Fe, NM 87504-2088

RECEIVED

070 FARMINGTON NM

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-045-33483	Pool Code 71629	Pool Name BASIN FRUITLAND COAL
Property Code 35525	Property Name FRAZZLE COM	Well Number 90
GRID No. 006515	Operator Name DUGAN PRODUCTION CORPORATION	Elevation 6482'

¹⁰ Surface Location


UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	30	24N	10W		1995	SOUTH	1815	WEST	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 313.44 Acres - (W/2)	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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 1255.32' 1311.42' LOT 1 DUGAN NM-15654	2622.18'	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief <i>Kurt Fagrelus</i> Signature Kurt Fagrelus Printed Name Geology Title 12/12/2005 Date ¹⁸ 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. Survey Date: NOVEMBER 3, 2005 Signature and Seal of Professional Surveyor  <i>JASON C. EDWARDS</i> Certificate Number 15269
5268.12' LOT 2 DUGAN NM-78060	5251.62'	
1815' LOT 3 DUGAN NO-G-0502-1716		
1259.28' LOT 4 1310.76'	2621.52'	

Submit 3 Copies To Appropriate District Office
District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Ave., 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 and Natural Resources

Form C-103
May 27, 2004

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

WELL API NO.	30-045-33483
5. Indicate Type of Lease	Federal XX STATE <input type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.	Federal NM-78060
7. Lease Name or Unit Agreement Name	Frazzle Com
8. Well Number	90
9. OGRID Number	006515
10. Pool name or Wildcat	Basin Fruitland Coal

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
GL-6482'

Pit or Below-grade Tank Application ☒ or Closure ☐

Pit type Drilling Depth to Groundwater 70' Distance from nearest fresh water well +1000' Distance from nearest surface water +200'

Pit Liner Thickness: 12 mil Below-Grade Tank: Volume bbls; Construction Material Synthetic

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well ☐ Gas Well ☒ Other ☐

2. Name of Operator Dugan Production Corp.

3. Address of Operator 709 East Murray Drive, Farmington, NM

4. Well Location
Unit Letter K : 1995 feet from the south line and 1815 feet from the west line
Section 30 Township 24N Range 10W NMPM County San Juan

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
OTHER: Reserve pit for drilling (lined) <input checked="" type="checkbox"/>		OTHER: <input type="checkbox"/>	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

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 910' - 940'. The interval will be fractured.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOC guidelines ☒, a general permit ☐ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE Kurt Fagrelus TITLE Geology DATE 12/12/2005

Type or print name Kurt Fagrelus E-mail address: kfagrelus@duganproduction.com
For State Use Only Telephone No. 325-1821

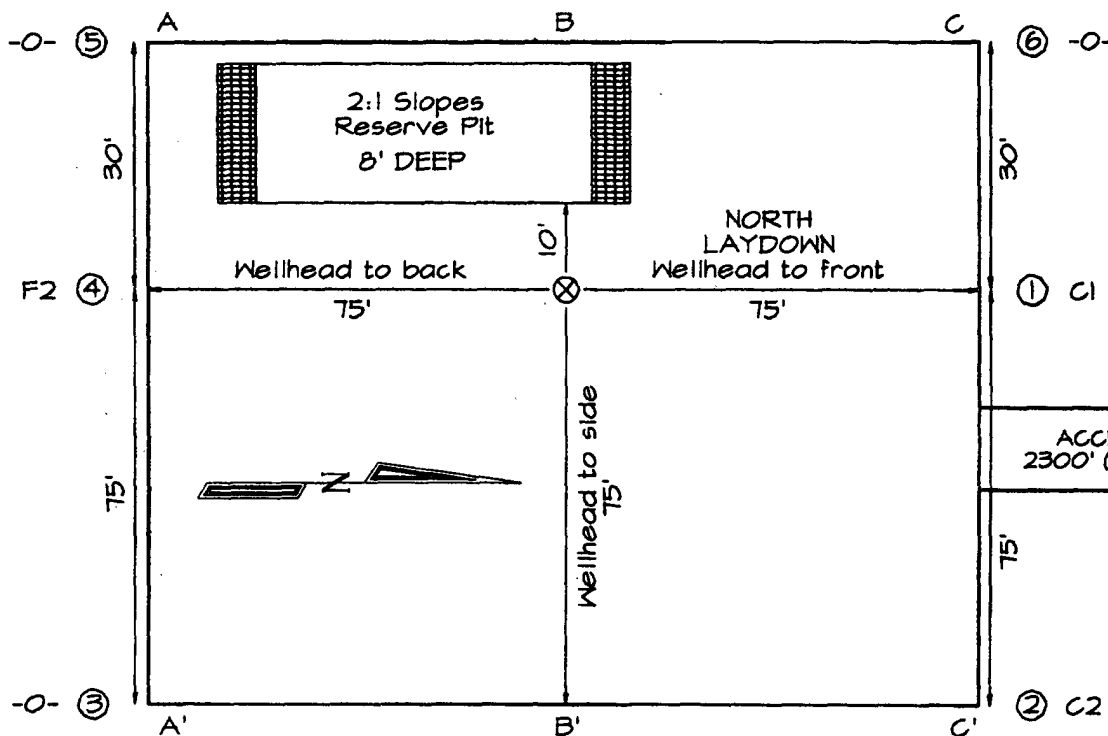
APPROVED BY: [Signature] TITLE DEPUTY OIL & GAS INSPECTOR, DIST. III DATE MAR 17 2006
Conditions of Approval (if any):

DUGAN PRODUCTION CORPORATION FRAZZLE #90
 1995' FSL & 1815' FWL, SECTION 30, T24N, R10W, NMPM
 SAN JUAN COUNTY, NEW MEXICO ELEVATION: 6482'

LATITUDE: 36°16'57"
 LONGITUDE: 107°56'20"
 DATUM: NAD1927

PLAT NOTE:

SURFACE OWNER
 Bureau of Land
 Management



A-A'						
6492'						
6482'						
6472'						

B-B'						
6492'						
6482'						
6472'						

C-C'						
6492'						
6482'						
6472'						

Note: Contractor should call One-Call for location of any marked or unmarked buried pipelines or cables on well pad and/or access road at least two (2) working days prior to construction

EXHIBIT B
OPERATIONS PLAN
Frazzle Com #90

APPROXIMATE FORMATION TOPS:

Ojo Alamo	70'
Kirtland	165'
Fruitland	590'
Pictured Cliffs	940'
Total Depth	1100'

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:

<u>Hole</u> <u>Size</u>	<u>Casing</u> <u>Size</u>	<u>Wt./ft.</u>	<u>Setting</u> <u>Depth</u>	<u>Grade and</u> <u>Condition</u>
11"	8-5/8"	24 20#	120'	J-55
7"	5-1/2"	14#	1100'	J-55

Plan to drill a 11" hole and set 120' of 8-5/8" OD, 20#, 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 70 cf Class B + 2% CaCl₂.
Circulate to surface.

Production Stage-Cement with 120 cf 2% lodense with
¼# celloflake/sx followed by 60 cf Class "B" with
¼# celloflake/sx.
Total cement slurry for production stage is 180 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 (H)
	320-8247 (M)

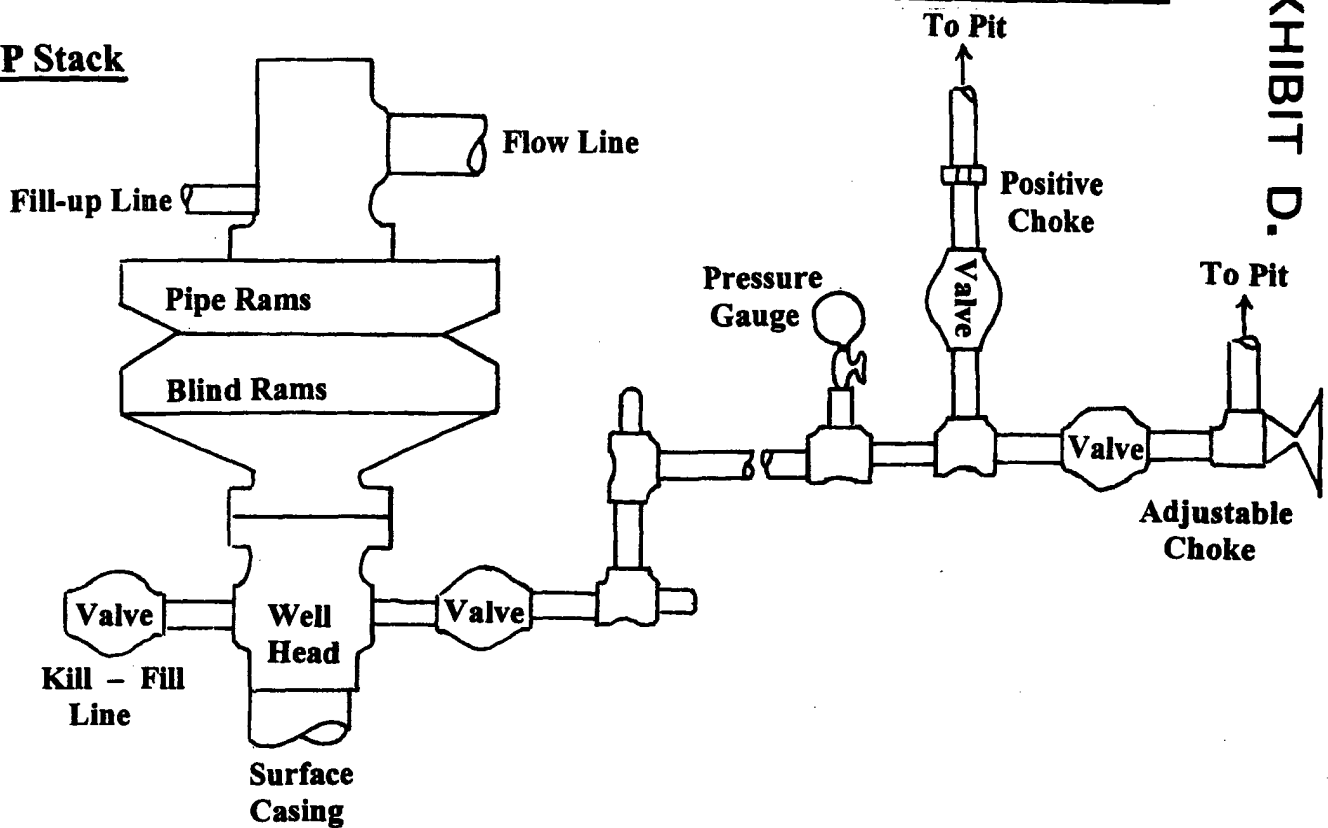
Kurt Fagrelus	325-4327 (H)
	320-8248 (M)

John Alexander	325-6927 (H)
	320-1935 (M)

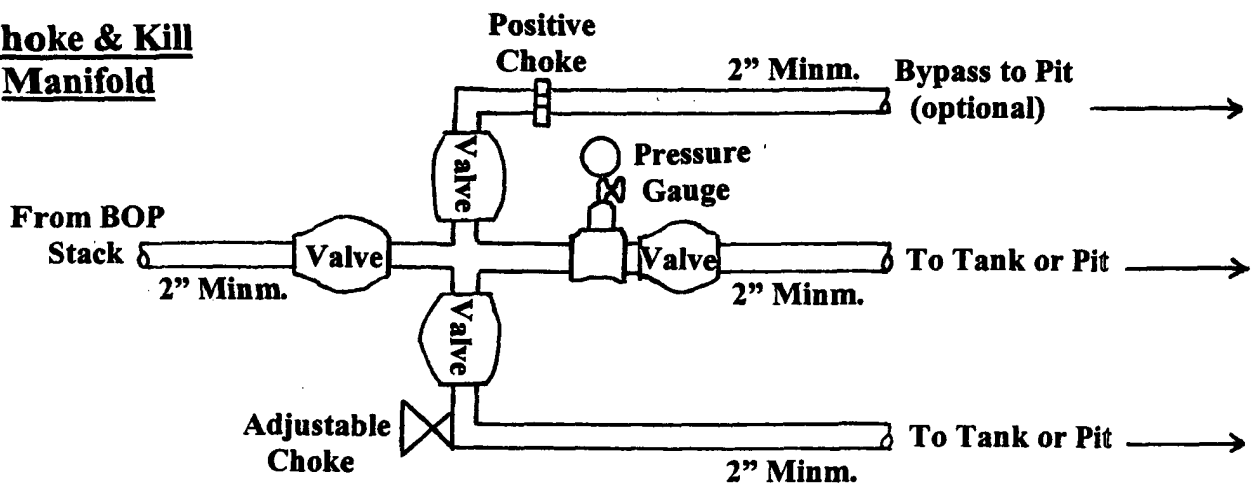
Well Control Equipment Schematic for 2,000 psi BOP

EXHIBIT D.

BOP Stack



Choke & Kill Manifold



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

DUGAN PRODUCTION CORP.
FRAZZLE COM #90