DIST.3

Form 3160-3 (April 2004)		om 41 01		OMB No.	PPROVED 1004-0137 arch 31, 2007
UNITED STATES DEPARTMENT OF THE BUREAU OF LAND MAN	INTERIOR	AM 11 31		5. Lease Serial No. NM-3302	
APPLICATION FOR PERMIT TO	DRILL, OF	REENTERM		6. If Indian, Allotee	or Tribe Name
la. Type of work: DRILL REENTS				7 If Unit or CA Agree	ment, Name and No.
lb. Type of Well: Oil Well Gas Well Other	Sir	igle Zone Multi	ple Zone	8. Lease Name and W Hugh La	
2. Name of Operator Dugan Production Corp.				9. API Well No. 30-045-	33834
3a. Address 709 East Murray Drive, Farmington, NM 87401	3b. Phone No. 505-32	(include area code) 5-1821		10. Field and Pool, or Exploratory Basin Fruitland Coal	
4. Location of Well (Report Invation clearly and in accordance with an At surface FSL & FSL & LO At proposed prod. zone Same as above Lo	t. 36.5	•		11. Sec., T. R. M. or BI Sec. 33 NMPM	k and Survey or Area , T27N, R12W
14. Distance in miles and direction from nearest town or post office* Approx. 25-miles SE of Farming	14. Distance in miles and direction from nearest town or post office* Approx. 25-miles SE of Farmington, New Mexico				13. State NM
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No. of a 640	cres in lease 0.0 Acres	17. Spacin	g Unit dedicated to this w 2/2-320.0 AC	ell res
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 700'	19. Proposed	Depth 0 Feet	20. BLM/I	BIA Bond No. on file	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) GL-5971'	22 Approxim	nate date work will sta \P	rt*	23. Estimated duration 6-Days	
	24. Attac				
 The following, completed in accordance with the requirements of Onshorm. Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office). 		4. Bond to cover the ltem 20 above). 5. Operator certification.	he operation cation specific info		existing bond on file (see
25. Signature / Lurt Fagneling Title Geology	Name	(Printed/Typed) Ku	ırt Faç	grelius	Date July 4, 2006
Approved by (Signature) Manchae Cercal	Name	(Printed/Typed)			Date 8/29/8 7
Title AFM	Office	PPO			
Application approval does not warrant or certify that the applicant hold conduct operations thereon. Conditions of approval, if any, are attached.	ls legal or equi	able title to those righ	its in the sub	ject lease which would en	title the applicant to
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a ci States any false, fictitious or fraudulent statements or representations as	nime for any po to any matter w	erson knowingly and vithin its jurisdiction.	villfully to m	ake to any department or	agency of the United
*/!	N.L.	OTICV A	776/	20000	1100

*(Instructions on page 2)

NOTIFY AZTEC OCD 24 HRS. PRIOR TO CASING & CEMENT

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 $1280' - 1295^{\circ}$. The interval will be fracture stimulated.

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



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

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

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

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

'API Number

1.045.33835

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102
Revised February 21, 1994
. Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

OIL CONSERVATION DIVISION PO Box 2088

Santa Fe. NM, 87504-2088 7 2 46

RCVD AUG 30 '07
AMENDED REPORT
OIL CONS. DIV.

DIST. 3

RECEIVED

Pool Name.

BASIN FRUITLAND COAL

WELL LOCATION AND ACREAGEADEDICATION PLAT

*Pool Code

71629

Property 242			<u> </u>		*Propert HUGH					Well Number 91
70GRID 1	VO		*Operator Name *Elevation DUGAN PRODUCTION CORPORATION : 5964			*Elevation				
					¹⁰ Surface	Location			<u> </u>	
UL or lot no	Section 33	Township 27N	Range 12W	Lot Idn	Feet from the 2300	North/South line SOUTH	Į.	et from the 1720	East/West line EAST	SAN JUAN
		11 🖯	Bottom	Hole L	ocation I	f Different	Fr	om Surf	ace	
UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Fe	et from the	East/West line	County
12 Dedicated Acres).O Acre	s - (E	[/2)	33 Joint or Infill	¹⁴ Consolidation Code	¹⁵ Orde	r No.	<u> </u>	<u> </u>
NO ALLOW	ABLE W					ION UNTIL ALL EEN APPROVED				CONSOLIDATED
15			5	280.00	DU	GAN		" OPER	ATOR CER	TIFICATION
. 5280.00				33		-33025 	1 2640.00	Containe to the 1 Signature Signature Printed Title Date 18 SURVI I hereby shown on notes of my supervand correspond to the correspond to the corresponding supervand superva	Name Geologic Color S, EYOR CERT certify that the this plat was plactual surveys me isson, and that tot to the best o	and complete edge and belief Fagrelius JFICATION Well location obtted from field add by me or under he same is true
				 	LONG	T: 36.53076 N G: 108 11383 W TUM: NAD1983	l 2640.00'	Signature JAS		fessional Surveyor WARDS

Submit 3 Copies To Appropriate District Office	State of New Me	exico	Form C-103
District I	Energy, Minerals and Natu	ral Resources	May 27, 2004
1625 N French Dr , Hobbs, NM 88240 District II			WELL API NO. 30-045-3383
1301 W Grand Ave, Artesia, NM 88210	OIL CONSERVATION		5. Indicate Type of Lease Federal X
<u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410	1220 South St. Fran		STATE FEE
<u>District IV</u> 1220 S St Francis Dr., Santa Fe, NM	Santa Fe, NM 87	/505	6. State Oil & Gas Lease No.
87505			Federal NM-33025
	ES AND REPORTS ON WELLS		7. Lease Name or Unit Agreement Name
(DO NOT USE THIS FORM FOR PROPOSA DIFFERENT RESERVOIR USE "APPLICA PROPOSALS)			Hugh Lake
1. Type of Well: Oil Well G	as Well 🚻 Other		8. Well Number 91
2. Name of Operator Dugan Pr	oduction Corp.		9. OGRID Number 006515
3. Address of Operator	st Murray Drive, Farm	ington NM	10. Pool name or Wildcat
4. Well Location	st ruffay Diffe, faim	ington, wi	Basin Fruitland Coal
1	1540 feet from the South	line and 14	feet from the east line
Section 33	Township 27N Ra		NMPM County San Juan
	11. Elevation (Show whether DR,		
Pit or Below-grade Tank Application V or C	GL-5971¹ Closure □		
Pit type Drillin thepth to Groundwate	er <u>+100</u> bistance from nearest fresh w	ater well +1000 Dista	ance from nearest surface water +200 '
Pit Liner Thickness: 12 mil	Below-Grade Tank: Volume	bbls; Cor	nstruction Material Synthetic
12. Check Ap	propriate Box to Indicate N		
TEMPORARILY ABANDON	ENTION TO: PLUG AND ABANDON CHANGE PLANS MULTIPLE COMPL	SUBS REMEDIAL WORK COMMENCE DRIL CASING/CEMENT	LING OPNS. P AND A
OTHER: Reserve pit for d 13. Describe proposed or comple of starting any proposed work or recompletion.	ted operations. (Clearly state all r	OTHER: pertinent details, and e Completions: Atta	give pertinent dates, including estimated date ach wellbore diagram of proposed completion
hole. Standard 2 Fruitland Coal wi		used to drill	e and production casing production hole. The 1280' - 1295'. The RCVD AUG 30'07 OIL CONS. DIV. DIST. 3
I hereby certify that the information abgrade tank has been/will be constructed or ck SIGNATURE Kurt Fagreli Type or print name For State Use Only	TITLE us kfagrelius E-mail ad	X a general permit □ o Geology s@duganproduc	Telephone No.
APPROVED BY:	TITLE_		DATE SEP 0 4 2007

A COLOR OF THE PROPERTY OF THE

APPROVED BY: Conditions of Approval (il any):

Form 3160-5 (June 1990)	UNITED ST DEPARTMENT OF TH BUREAU OF LAND M	IE INTERIOR ANAGEMENT	om o 11	FORM APPROVED Budget Bureau No. 1004-0135 Expires: March 31,1993
		ND REPORTS ON WELI	LS	NM-33025
•		drill or to deepen or reentry R PERMIT -" for such propo I <i>TRIPLICATE</i>		
1. Type of Well	Oil XX Gas Well Well	Other		7. If Unit or CA, Agreement Designation
2. Name of Ope	Dugan Production Corp	•		8. Well Name and No. Hugh Lake #91
3. Address and	Telephone No. 709 East Murray D	rive, Farmington, N	New Mexico 8740	1 9. API Well No. 30-045-33834
Location of Well	(Footage, Sec., T., R., M., or Survey Description)			10. Field and Pool, or Exploratory Area
Sec.	. 33, T27N, R12W, 1540' FS	L & 1435' FEL NMPM		Basin Fruitland Coal
				11. County or Parish, State
12. CHEC	K APPROPRIATE BOX(s) TO IND TYPE OF SUBMISSION	ICATE NATURE OF NO	TICE, REPORT, OR	OTHER DATA
	Notice of Intent Subsequent Report Final Abandonment Notice	Abandonment Recompletion Plugging Back Casing Repair Altering Casing	XX 	New Construction Non-Routine Fracturing Water Shut-Off
		. = •	ve Well Pad	•
	posed or Completed Operations (Clearly state all pertiner subsurface locations and measured and true vertical dept			proposed work. If well is directionally drilled,
	nge well pad location from ation is necessary to avoi			
	New Locati		, R12W, 2300' FS N., Long. 108.1	SL and 1720' FEL NMPM 1383 W.
Cut	ew Developmental Plan (Exh and Fill Diagram (Plat 3) pective exhibits submitted	and Topographic M	ap (Exhibit E) ā	B), Pipeline Survey (Plat 2 are attached and replace the RCVD AUG 30'07
A n	ew NM State Form C-102 is	included.		OIL CONS. DIV. DIST. 3
4, I hereby cer	rtify that the foregoing is true and correct			
Signed	Kurt Fegrelin	Tide Geology	Date	October 5, 2006
his space for Fe	ederal or State office usely	ha		

ie 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 representations as to any matter within its junisdiction.

onditions of approval, if any:

EXHIBIT B OPERATIONS PLAN

Hugh Lake #91

APPROXIMATE FORMATION TOPS:

Ojo Alamo	155,		
Kirtland	230′	Pictured Cliffs	1295′
Fruitland	930′	Total Depth	1450′

Catch samples every 10 feet from 1200 feet to 1450 feet.

LOGGING PROGRAM:

-«'i

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#	1450′	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 70 cf Class B + 2% CaCl₂. Circulate to surface.

Production Stage-Cement with 120 cf 2%Lodense with %# celloflake/sx followed by 100 cf Class "B" with %# celloflake/sx.

Total cement slurry for production stage is 220 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.

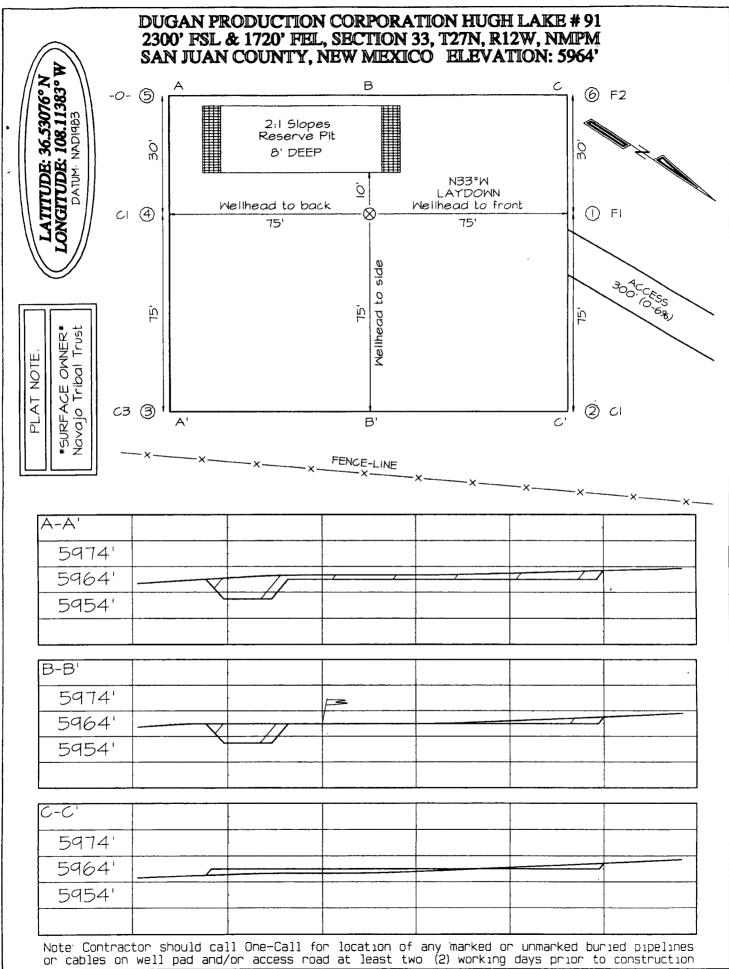
2" minimum choke line.

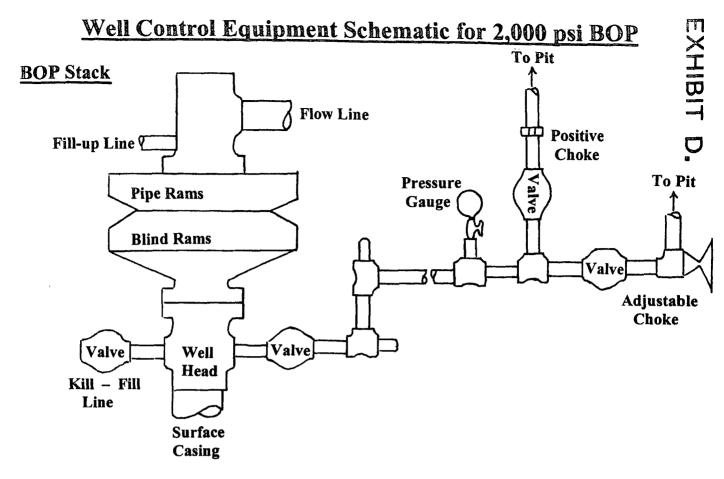
Fill-up line.

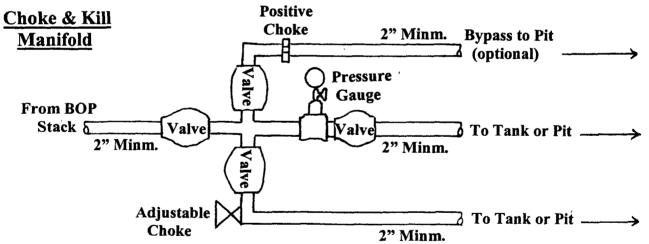
Contacts:

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

Mark Brov	vn	327-3632 320-8247	
Kurt Fagr	celius	325-4327 320-8248	
John Alex	kander	325-6927 320-1935	







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

DUGAN PRODUCTION CORP. HUGH LAKE #91