Form 3160-3 (April 2004)

UNITED STATES OF APR 4 AM 9 51 DEPARTMENT OF THE INTERIOR RECEIVED

5. Lease Serial No.

BUREAU OF LAND MA	(NM-)	NM-904//			
APPLICATION FOR PERMIT TO	6. If Indian, Allotee or Trit	6. If Indian, Allotee or Tribe Name			
a. Type of work: DRILL REEN	TER	7 If Unit or CA Agreement,	Name and No.		
b. Type of Well: Oil Well Gas Well Other	Single Zone Multiple Zone	8. Lease Name and Well No Morrison			
Name of Operator  Dugan Production Corp.		9. API Well No. 30-045- 3	3684		
a. Address 709 East Murray Drive, Farmington, NM 87401	3b. Phone No. (include area code) 505-325-1821	10. Field and Pool, or Explora Entrada SI	•		
Location of Well Report Irration clearly and in accordance with a		11. Sec., T. R. M. or Bik and	11. Sec., T. R. M. or Bik and Survey or Area		
At surface 1100 FNL & 200 FEL, Lat At proposed prod. zone Same as above 6	t. 36.14404, Long. cc;//" 107.73410	Sec. 13, NMPm	Sec. 13, T22N, R9W NMPm		
Distance in miles and direction from nearest town or post office.  Approx. 12-miles SW of Nageez	i Trading Post, NM	12. County or Parish San Juan	13. State NM		
Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any)	16. No. of acres in lease 480.0 Acres	N.A.	•		
to nearest well, drilling, completed, applied for, on this lease, ft.  Approx. 500	cskip!	M/BIA Bond No. on file  NMO(40			
Elevations (Show whether DF, KDB, RT, GL, etc.)  GL - 6623 ( 598	22. Approximate date work will start* ASAP	23. Estimated duration 7-Days			
	24. Attachments				
e following, completed in accordance with the requirements of Onsh	ore Oil and Gas Order No.1, shall be attached a	o this form:			
Well plat certified by a registered surveyor.  A Drilling Plan.	Item 20 above).	ations unless covered by an existing	g bond on file (see		
A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office).		information and/or plans as may be	required by the		
5. Signature Kurt Fagrelin	Name (Printed/Typed) Kurt	Fagrelius Date	April 1, 20		
Geology					
pproved by (Signature) Manches (24	Name (Printed/Typed)	Date	hylos		
itle AFM	Office FEO				
pplication approval does not warrant or certify that the applicant hol nduct operations thereon. oriditions of approval, if any, are attached.	lds legal or equitable title to those rights in the	subject lease which would entitle th	e applicant to		
tle 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a ates any false, fictitious or fraudulent statements or representations as	crime for any person knowingly and willfully to so any matter within its jurisdiction.	o make to any department or agenc	y of the United		
			**************************************		

\*(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 Entrada Sandstone will be completed from approximately 6245' - 6445'. The interval SWD order will be acidized.



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

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

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

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
State Lease - 4 Copies
Fee Lease - 3 Copies

000 H10 Braz	105 Mu., A.	ztet, NM 674	410	Sar	nta Fe, I	MM	8/504-2088	3			– –	
istrict IV D Box 2088.	Santa Fe,	NM 87504-2	2088								AMEND	ED REPOR
			WELL	LOCAT	ΤΟΝ ΔΝΟ	Δί	CREAGE DEDI	ΤΛΔΤ	TON PI	ΔΤ		
1	API Numbe	<u> </u>	71	*Pool Cod					Pool Nam			
	5-33			964	- 1		541,	D, EN	NTRADA 4	-		
Property 359	,				*Prop		Name N SWD	<del>-,</del> -			■ We	ell Number 2
'0GRID 0065	No		•	DUGAN	*Opera		Name IN CORPORATI		<u>, , , , , , , , , , , , , , , , , , , </u>		*E	levation 6598
					<sup>10</sup> Sunfac							
UL or lat no.	Section	Township	Range	Lot Idn	Feet from t	_	LOCATION  North/South line	Fee	t from the	East/Wa	st line	County
Н	13	22N	9W		1350		NORTH		365	EA	.ST	SAN JUAN
		11 B	ottom	Hole L	ocation	Ī.	f Different	Fro	om Surf	ace		<u></u>
UL or lot no.	Section	Township	Range	Lot Idn	Feet from t	Ne	North/South line	Fee	it from the	East/We	est line	County
Dedicated Acres	1	<u> </u>		<u> </u>	13 Joint or Infi	11	<sup>14</sup> Consolidation Code	<sup>25</sup> Orde	r No.	l		<u> </u>
16		UR A		ANDARD 264.82	UNIT HAS	BE	EN APPROVED	365'	17 OPER I hereby	ATOR / certify d herein best of my	that the is true as knowledg	IFICATION information and complete e and belief
							LAT: 36.14335 LONG: 107.7329 DATUM: NAD19	) N 97 W	Title  Date	G J		y 7, 2006 FICATION
5281.32				13-		_		 5289.24°	I hereby shown on notes of my supervand corre	centify the this plat actual sur ision, and ct to the and Seal	was plot was plot veys made that the best of ey: JUN	ell location ted from field by me or under same is true my belief UE 5, 2006

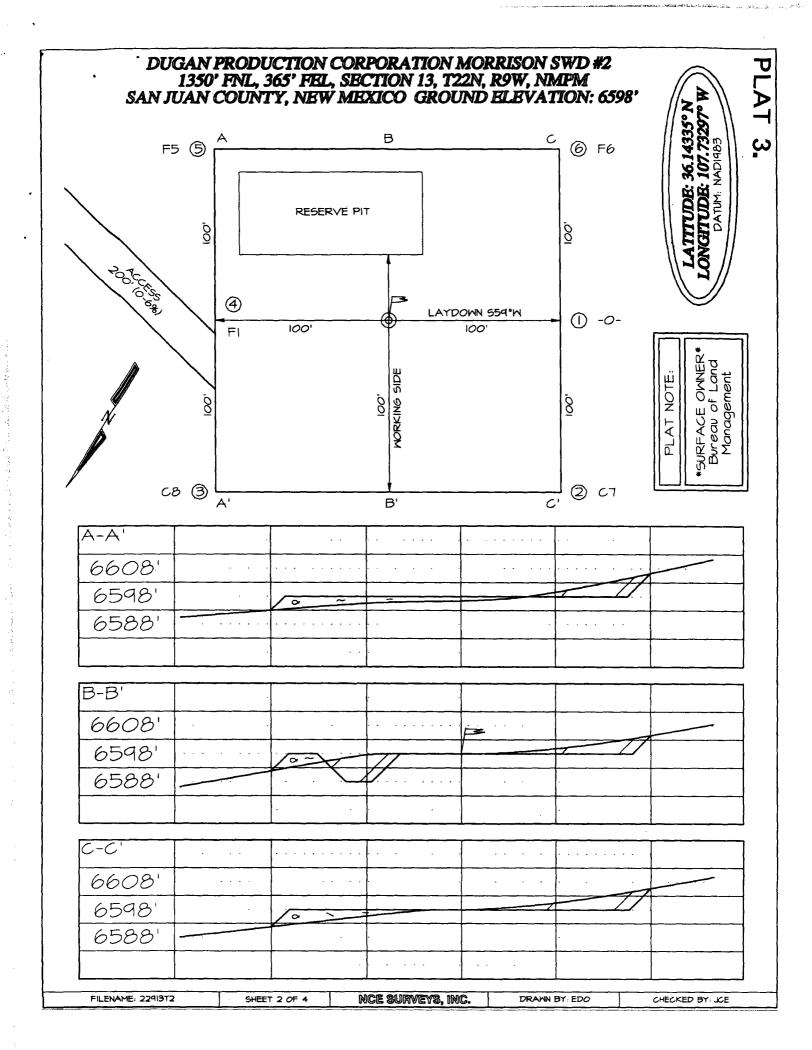
5295.181

POFESSION AND ESSION

ASON Certificate Number 15269



Submit 3 Copies-To Appropriate District State o	f New Mexico	Form C-103
Office District I Energy, Mineral	s and Natural Resources	May 27, 2004
1625 N. French Dr., Hobbs, NM 88240 District II		WELL API NO. 30-045-
1301 W. Grand Ave., Artesia, NM 88210 OIL CONSER	EVATION DIVISION	5. Indicate Type of Lease Federal XX
1000 Pio Brazos Rd. Aztec. NM 87410	th St. Francis Dr.	STATE FEE
<u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM	Fe, NM 87505	6. State Oil & Gas Lease No.
87505		Federal NM-90477
SUNDRY NOTICES AND REPORTS ( (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DE		7. Lease Name or Unit Agreement Name
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FO		Morrison SWD
PROPOSALS.)  1. Type of Well: Oil Well Gas Well Other	SWD Water Disposal	8. Well Number #2
2. Name of Operator Dugan Production Corp.		9. OGRID Number 006515
3. Address of Operator 700 Fact Marcon Dai		10. Pool name or Wildcat
709 East Murray Drive	, Farmington, NM	Entrada SWD
4. Well Location  Unit Letter A . 1100 feet from the	e north line and	feet from the east line
onit botter tott from the		icci noni die
	ZZN Range 9W whether DR, RKB, RT, GR, etc.)	NMPM County San Juan
GL- 6623'		
Pit or Below-grade Tank Application (Vor Closure Decilling +100)	+1000 <sup>t</sup>	+300,
Pit type Drilling epth to Groundwater +100 Distance from n		
Pit Liner Thickness: mil Below-Grade Tank: V		nstruction Material Synthetic
12. Check Appropriate Box to I	indicate Nature of Notice,	Report or Other Data
NOTICE OF INTENTION TO:	SUB	SEQUENT REPORT OF:
PERFORM REMEDIAL WORK PLUG AND ABANDO		
TEMPORARILY ABANDON ☐ CHANGE PLANS PULL OR ALTER CASING ☐ MULTIPLE COMPL	☐ COMMENCE DRI ☐ CASING/CEMENT	
OTHER: Reserve pit for drilling (lined)		
<ol> <li>Describe proposed or completed operations. (Clear of starting any proposed work). SEE RULE 1103.</li> </ol>	For Multiple Completions: Att	give pertinent dates, including estimated date tach wellbore diagram of proposed completion
or recompletion.		The state of the s
A water based gel-mud will be us	sed to drill surface	and production casing hole.
Standard 2,000 psi BOP will be a		
Sandstone will be completed for		from approximately
6245' - 6445'. The interval wil	ll be acidized.	
	,•	v
A STATE OF THE STA	<u> 18 marin 1988 - 1988 - 1988 - 1988 - 1988 - 1988 - 1988 - 1988 - 1988 - 1988 - 1988 - 1988 - 1988 - 1988 - 1</u>	
I hereby certify that the information above is true and compl grade tank has been/will be constructed or closed according to NMOCI	ete to the best of my knowledge D guidelines 📉 a general permit 🔲 o	e and belief. I further certify that any pit or below- or an (attached) alternative OCD-approved plan
SIGNATURE Kurt Fegrelin	TITLE Geology	DATE April 3, 2006
Kurt Fagrelius	kfagrelius@duganprod	duction.com 325-1821
Type or print name For State Use Only	E-mail address:	Telephone No.
TOT STATE USE OUTY		AUG 2 8 2006
APPROVED BY:	TITLE FUTT OIL & GAS INS	PECTOR, DIST. DATE AND 20 2000
Conditions of Approval (fany):		



# EXHIBIT B OPERATIONS PLAN

Morrison SWD #2

### APPROXIMATE FORMATION TOPS:

Kirtland	Surface		
Fruitland	275 <i>'</i>	Greenhorn	4820′
Pictured Cliffs	630′	Graneros	4870 <i>'</i>
Lewis	755 <i>'</i>	Dakota	4895′
Cliff House	1330′	Morrison	5195′
Menefee	1425′	Bluff	5700 <b>′</b>
Point Lookout	2910 <i>′</i>	Todilto	6160′
Mancos	3080′	Entrada	6220 <b>'</b>
Gallup	3860′	Total Depth	6540′
Skellv	3920 <i>′</i>	-	

#### LOGGING PROGRAM:

Run IES from total depth to surface and CDL over selected intervals.

### CASING PROGRAM:

Hole	Casing		Setting	Grade and
Size	Size	Wt./ft.	Depth	Condition
12-1/4"	<del>8-5/</del> 8"	24#	360′	J-55
7-7/8"	5-1/2"	15.5#	6275 <i>'</i>	K-55
7-7/8"	5-1/2"	17#	6540 <b>′</b>	K-55

Plan to drill a 12-1/4" hole and set 360' of 8-5/8" OD, 24#, J-55 surface casing. Then plan to drill a 7-7/8" hole to total depth with gel-water mud program. Open hole IES and CDL logs will be run. 5-1/2", 15.5# (surface to 6275') and 5-1/2", 17# (6275' to 6540') K-55 production casing will be run and cemented in two stages with DV tool set at 3125'. Injection zone will be perforated and acidized. After completion, the well will be cleaned out and injection equipment will be installed.

#### CEMENTING PROGRAM:

Surface: Cement to surface with 250 cf Class B + 2% CaCl<sub>2</sub>. Circulate to surface.

1st Stage Cement with 300 sks Premium Lite High Strength BJ cement with additives. Total cement slurry for 1st stage is 630 cf. Projected top for 1st stage is 3125'. Circulate to surface.

2<sup>nd</sup> Stage Cement with 315 sks Premium Lite cement with

additives followed with 75 sks Neat type 3 BJ cement with additives. Total cement slurry for  $2^{nd}$  stage is 800 cf. Projected top for  $2^{nd}$  stage is surface. Circulate to surface.

Total cement for both stages is 1430 cf.

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, 2000# WP, tested to 4000#. Huber 5-1/2"x2-7/8" tubing head, 2000# WP, tested to 4000#.

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.

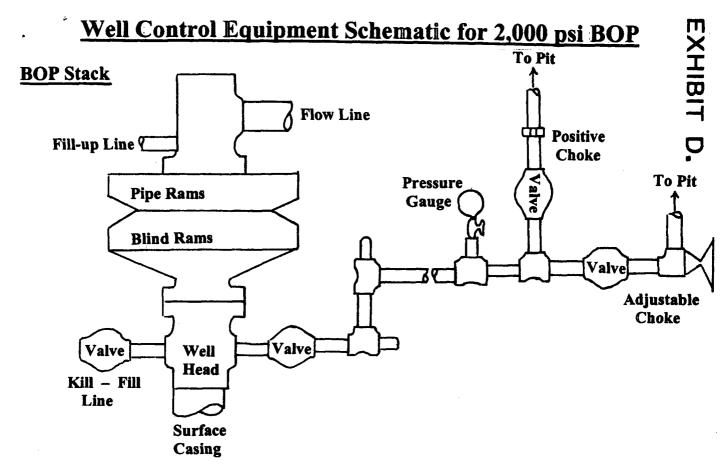
2" minimum choke line.

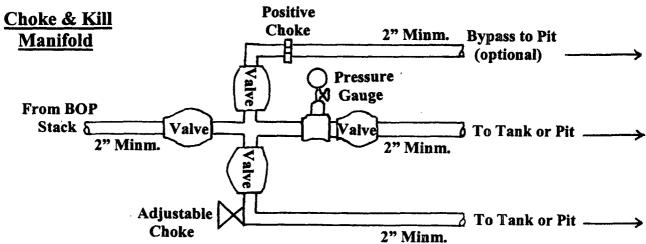
Fill-up line.

#### 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	





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

DUGAN PRODUCTION CORP.
MORRISON SWD #2

Form 3160-5 (June 1990)	UNITED ST DEPARTMENT OF TH BUREAU OF LAND M	FORM APPROVED  Budget Bureau No. 1004-0135  Expires: March 31,1993	
	Do not use this form for proposals to Use "APPLICATION FOR	ND REPORTS ON WELLS  drill or to deepen on reentry to a different reservoir.  RERMIT - for such proposals  TRIPLICATE  RECEIVED	NM-90477  6. If Indian, Allotted or Tribe Name  ©008
	SUBMITIN	OTO FARMINGTON HM	The same of the sa
1. Type of Welf	Oli Gas Well Well	XX Other Salt Water Disposal Well	7. If Unit or CA, Agreement Designation
2. Name of Ope	Dugan Production Corp.		8. Well Name and No. Morrison SWD #2
3. Address and	Telephorue No. 709 East Murray Di	rive, Farmington, New Mexico	9. API Well No. 30-045- 33684
Location of Well	(Footage, Sec., T., R., M., or Survey Description)		10. Field and Pool, or Exploratory Area
	1100' FNL & 700' FEL		Entrada SWD
	Sec. 13, T22N, R9W		11. County or Parish, State San Juan
12. CHEC	K APPROPRIATE BOX(s) TO IND TYPE OF SUBMISSION	CATE NATURE OF NOTICE, REPORT, OR OTYPE OF ACTION	THER DATA
XXX	Notice of intent	Abandonment	Change of Plans
	Subsequent Report	Recompletion Plugging Back	New Construction Non-Routine Fracturing
	Final Abandonment Notice	Casing Repair Altering Casing Other Move location.	Water Shut-Off Conversion to injection Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)
13. Describe Proj give :	subsurfaces locations and measured and true vertical dapt	t details, and give pertinent dates, including estimated date of starting any proper for all markers and zones pertinent to this work.)*  ed on APD dated April 1, 2006 was moved	cosed work if well is directionally drilled,
		1100' FNL & 700' FEL, Sec. 13, T22N, R 350' FNL & 365' FEL, Sec. 13, T22N, R9V	
:	(pipeline survey), Plat 3	(developmental plan), Exhibit B (operations cut and fill diagram), Exhibit E (topographi luded to reflect the new location. These exhal APD.	c map) and NM
14. I hereby cert	tify that the foregoing is true and correct  Kurt 129 Mins	Tide <u>Geology</u> Date	July 27, 2006
This space for Fe Approved by Conditions of app	orderal or State office use)  Andrew  Orderal, if a ny	TitleAF_MDate	8/24/06
ile 18 U.S.C. Sec	ction 1001, makes it a crime for any person knowingly and	willfully to make to any department or agency of the United States any false, fire	clitious or fraudulent statements

r representations as to any matter within its jurisdiction.