District I
1625 N French Dr., Hobbs, NM 88240
Phone (575) 393-6161 Fax (575) 393-0720
District II
811.5 First St. Artesia NM 88210

811 S First St., Artesia, NM 88210 Phone (575) 748-1283 Fax (575) 748-9720 <u>District III</u> 1000 Rio Brazos Road, Aztec, NM 87410 Phone (505) 334-6178 Fax (505) 334-6170

1220 S St Francis Dr , Santa Fe, NM 87505 Phone (505) 476-3460 Fax (505) 476-3462

#### State of New Mexico

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Form C-101 Revised August 1, 2011

## **Energy Minerals and Natural Resources**

Oil Conservation Division

1220 South St. Francis Dr.

Santa Fe, NM 87505

Permit

	-	oduction Murray	-	and Address			006515 30-045-	OGRID Number  006515  30-045-35348		
Proper		Feder	Property				1035	<sup>6</sup> Well No		
	-			7 Surfac	ce Location	n		<u> </u>		
UL - Lot Section Town			Range	Lot Idn Feet f	fiom N/S Line		Feet From	E/W Line	County	
М	12 29N 14W 1		1065	335 West			San Juan			
				<sup>8</sup> Pool I	nformatio	n		<u> </u>		
Harper H	ill Fru	itland	Sand Pictur	red Cliffs and Ba			1			
				Additional V	Vell Inforn	nation				
9 Work Type 11 Well Type 11 C				11 Cable/I R	/Rotary 12 Lease Type		13 Ground Level Elevation			
N  14 Multiple			G  15 Proposed Depth	16 Form	ation	r FEE		5454 - ĠL  18 Spud Date		
Y∈			1260	Pictured	Not Available			ASAP		
epth to Ground	l water 260	)-Feet	Dista	nce from nearest fresh water 3,350-Feet	well		Distance	nce to nearest surface water 2,000-Feet		
			19	<b>Proposed Casing</b>	and Cem	ent Prog	ram			
Туре	Hole	Size	Casing Size	Casing Weight/ft		Setting Depth Sacks of C		Cement Estimated TC		
Surface	12-1	./4"	8-5/8"	24#	120-Feet		70-cf		Surface	
roductio	oduction 7" 5-		5-1/2"	-1/2" 14#		1260-Feet 2		ef	Surface	
	1	_					1			
•			Casii	ng/Cement Progra	ım: Additi	onal Cor	nments			
			]	Proposed Blowou	t Preventic	n Progra	am			
	Туре			Working Pressure	Test Pressure		Manufacturer			
· 9"-Double Ram 2				000-psi		2,200-psi		Townsend		
									<u> </u>	
f my knowle	dge and bel	lief		and complete to the best		OIL CC	NSERVAT	TION DIV	/ISION	
	delines 🗓	a general p		(attached) alternative	Approved By	Che	ult/	2-	-3-/2	
Printed name	Kurt :	Faghreli	ius		Title SUPE	RVISOR E	DISTRICT #	§ .		
itle VP-	Land an	d Explo	ration		Approved Date EB 0 7 2012 Expirate FEB 0 7 2014					
E-mail Addre	s kfag	relius@	duganproduc	tion.com		•	Antik A.S., I		1101	
Date 1-16			Dhama 505	-325-1821	Conditions of Approval Attached HOLD CTOS FOR NO.					

Ostrict I 1625 N. French Drive, Hobbs, NM 88240 Phone (575) 393–6161 Fax.(575) 393–0720 District II

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District III 1000 Rio Brazos Road, Aztec, NM 87410 Phone.(505) 334-6178 Fax.(505) 334-6170 District IV

District IV 1220 S. St. Francis Drive, Santa Fe, NM 87505 Phone (505) 476–3460 Fax: (505) 476–3462

### State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION 1220 South St. Francis Drive Santa Fe. NM 87505 Form C-102/ Revised August 1, 2011

Submit one copy to Appropriate District Office

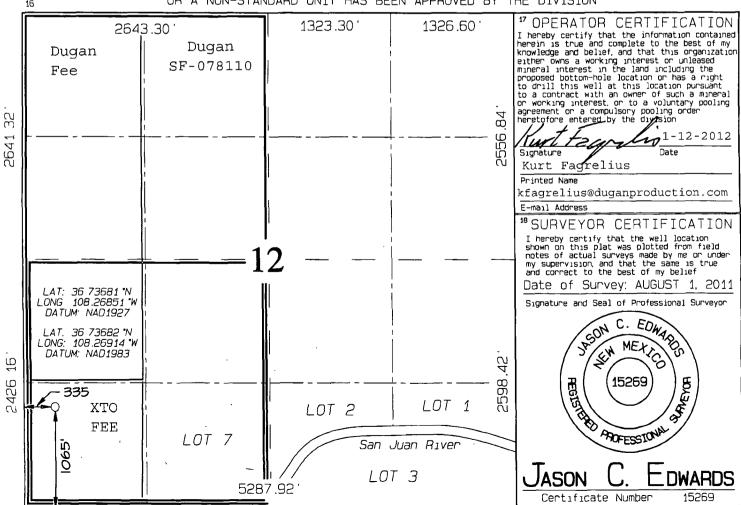
AMENDED REPORT
RCVD JAN 24'12
OIL CONS. DIV.
DIST. 3

WELL LOCATION AND ACREAGE DEDICATION PLAT

'API Number	²Pool Code	³Pool Name					
30-045 <i>-353</i> 48	78160 / 71629	HARPER HILL FRUITLAND SAND PICTURED CLIFFS /	BASIN FRUITLAND COAL				
Property Code 34306		*Property Name FEDERAL I COM	°Well Number 1035				
'OGRID No 006515		°Elevation 5454'					

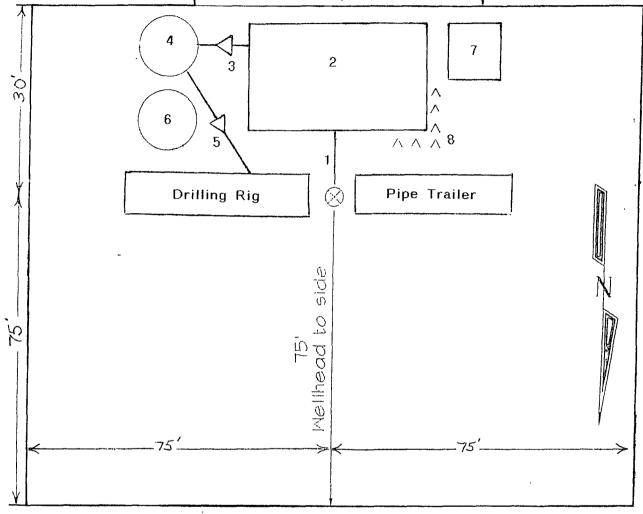
			<del>.</del>	•	<sup>10</sup> Surface	Location			
UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
М	12	29N	14W		1065	SOUTH	335	WEST	SAN JUAN
		1	<sup>1</sup> Botto	m Hole	Location I	f Different	rom Surfac	е	
UL or lot no.	Sect <sub>10</sub> 0	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
12 Dedicated Acres	157.67	7 Acres	(SW/4)	- PC	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No		
		7 Acres							

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



# Dugan Production Corp. Closed Loop Drilling Mud System Federal I Com #103S

Sec. 12, T29N, R14W, NMPM 1065' FSL & 335' FWL San Juan County, New Mexico



#### Closed Loop Drilling System

- 1. Flow line from well head to open-top steel tank
- Open-top steel tank with internal baffles (approx. 40-ft. long by 10-ft. wide and 4-ft deep, 285-bbls.) set in an un-lined depression (approx. 45-ft. long by 12-ft wide and 3-ft deep).
- Transfer pump to move drilling fluid from open-top steel tank to circulation / storage tank.
- 4 400-bbls circulation / storage tank
- 5. Transfer pump to move drilling fluid from circulation / storage tank to drilling rig circulation system
- 6 400-bbls fresh water storage tank
- 7 200—400-bbls, steel flow-back tank for collection of circulated cement returns and flow-back after frac
- 8 1-foot tall berm around perimeter of depression to prevent surface run-off water from entering depression