District I. State of New Mexico Form C-101 1625 N. French Dr., Hobbs, NM 88240 **Energy Minerals and Natural Resources** Revised June 10, 2003 District II 1301 W. Grand Avenue, Artesia, NM 88210 Submit to appropriate District Office District III Oil Conservation Division State Lease - 6 Copies 1000 Rio Brazos Road, Aztec, NM 8/9410 1220 South St. Francis Dr. District IV 1220 S. St. Francis Dr., Santa Fe, NM 87509 PESU Fee Lease - 5 Copies Santa Fe, NM 87505 ☐ AMENDED REPORT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE Operator Name and Address ² OGRID Number Nadel and Gussman Permian, L.L.C. 155615 ³API Number 601 N. Marienfeld, Suite 508 30 -Midland, TX 79701 ³ Property Code ⁵ Property Name Dulce Amor ⁷ Surface Location East/West line UL or lot no. Section Townshi Range Lot Idn Feet from the North/South line Feet from the County 2 900 1980 Eddy 4 26E North East **18S** ⁸ Proposed Bottom Hole Location If D UL or lot no. Section Township Lot Idn Feet from the County NOTIFY OCD SPUD & TIME TO WITNESS 8 5/8" CASING 9 Proposed Pool 1 **Undesignated Morrow** ennodu Well Type Code 11 Work Type Code 3 Cable/Rotary 15 Ground Level Elevation 4 Lease Type Code 3291' N G Rotary 19 Contractor 20 Spud Date 17 Proposed Depth Multiple 18 Formation NO 9500' Morrow Patterson 7/20/03 **Proposed Casing and Cement Program** Casing Size Hole Size Casing weight/foot Setting Depth Sacks of Cement **Estimated TOC** 48# Circ. To Surface 17-1/2" 13-3/8" 400' 345sx 11" 8-5/8" 24# or 32# 1300' 450sx Circ. To Surface 7-7/8" 17# 9500' 3000° 5-1/2" 520sx ²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary. Drill and complete well in the morrow w/ a projected TD of 9500'. The morrow will be completed using tubing or Casing guns. A tree or BOP/ lubricator assembly will be nippled up prior to perforating. ²³ I hereby certify that the information given above is true and complete to the OIL CONSERVATION DIVISION best of my knowledge and belief. Approved by: Signature: Printed name:

Conditions of Approval:

9156824429

E-mail Address:

Date:

DISTRICT I 1625 N. French Dr., Hobbs, NM 68240 DISTRICT II 811 South First, Artesia, NM 88210

DISTRICT IV

State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102 Revised March 17, 1999

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

Pool Name

Undesignated Morrow

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

2040 South Pacheco, Santa Fe. NM 87505

API Number

OIL CONSERVATION DIVISION

Pool Code

2040 South Pacheco Santa Fe, New Mexico 87504-2088

D AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

Property Code		Property Name					Well Nu	Well Number		
		}	DULCE AMOR					1	1	
OGRID N	0.				Operator Nam	ne		Elevat	Elevation	
			NADEL AND GUSSMAN PERMIAN, L.L.C.					335	8'	
	<u> </u>				Surface Loca	ation				
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
Lot 2	4	18 S	26 E		900	NORTH	1980	EAST	EDDY	
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	
Dedicated Acres 320 Joint or Infill Consolidation Code Order No.										
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED										

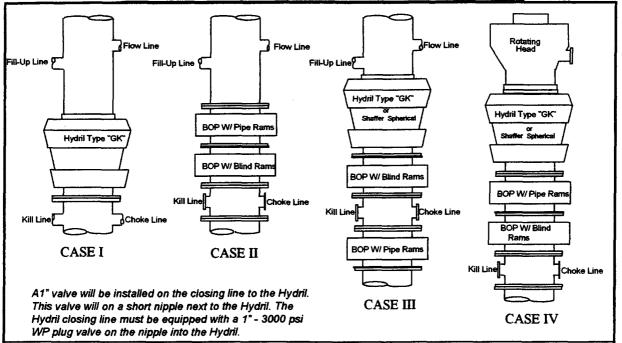
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

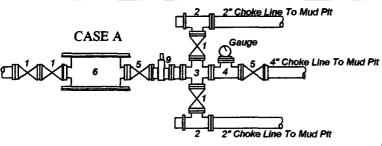
		OR A NON-STAN	DARD UNIT HAS BEE	N APPROVED BY TH	E DIVISION
	Lot 4 - 40.04 Ac	Lot 3 - 40.12 Ac	.006-	Lot 1 - 40.28 Ac	OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and beitef.
			Lot 2 - 40.20 Ac	1980° -	
	76. (8)	JUL 2003 RECEIVED ARTESIA	Lat — N32°46'54.8" Lon — W104°23'04.7"		Printed Name Toel Martin
	00	RECEIVED 12346			Title 7/25/03 Date SURVEYOR CERTIFICATION
		- 80 mm W			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 supervison, and that the same is true and correct to the best of my belief.
	 		 		MAY 22 2003 Date Surveyed L. JONES Signature & Seel of Professional Surveyor
]		Certificate No. Gory Livings 7977
L					BASIN SURVEYS

Nadel and Gussman Permian

Dulce Amor #1

MINIMUM BLOWOUT PREVENTER REQUIREMENTS

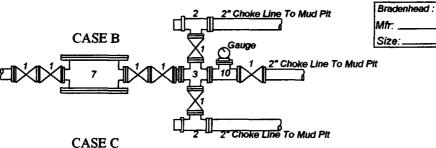




BOP SIZE	BOP CASE	WORKING PRESSURE	CHOKE CASE
11"	Ш	5000	В

*Rotating head required

Туре:



7 1 2° Choke Line To Mud Pit

Legend

- 2" flanged all steel valve must be either Cameron "F", Halliburton Low Torque or Shaffer Flo-Seal.
- 2. 2" flanged adjustable chokes, min. 1" full opening & equiped with hard trim.
- 3. 4" x 2" flanged steel cross.
- 4. 4" flanged steel tee.
- 5. 4" flanged all steel valve (Type as in no. 1).
- 6. Drilling Spool with 2" x 4" flanged outlet.
- 7. Drilling Spool with 2" x 2" flanged outlet.
- 8. 2" x 2" flanged steel cross.
- 9. 4" pressure operated gate valve.
- 10. 2" flanged steel tee.

Notes

Choke manifold may be located in any convenient position. Use all steel fittings throughout. Make 90° turns with bull plugged tees only. No field welding will be permitted on any of the components of the choke manifold and related equipment upstream of the chokes. The choke spool and all lines and fittings must be at least equivalent to the test pressure of the preventers required. Independent closing control unit with clearly marked controls to be located on derrick floor near driller's position.

(10-31-96) WTXBOPS PPT

NADEL AND GUSSMAN PERMIAN, L.L.C. 601. N. Marienfeld, Suite 508 Midland, TX 79701 (915) 682-4429 (P) (915) 682-4325 (Fax)

7/25/03

Mr. Bryan Arrant
District 2 Geologist
New Mexico Oil and Gas Division
1301 West Grand
Artesia, NM 88210

Re: Dulce Amor #1 900' FNL, 1980' FEL Sec. 4-18s-26e Eddy, NM Rule 118 H2S Exposure

Dear Mr. Arrant,

Nadel and Gussman Permian has evaluated this well and we don not expect to encounter hydrogen sulfide. However, we will employ a third party monitoring system. We will begin monitoring prior to drilling out the intermediate casing and will continue through monitoring through the remainder of the well.

Please contact me if you have any additional questions.

Sincerely.

loel Martin

Engineering Manager

JUL 2003

NOTE TO THE PROPERTY OF THE PROPERTY





DRILLING FLUIDS PROGRAM

PREPARED FOR:

Duice Amor No.1

Section 4, T-18-S, R-26-E Eddy County, New Mexico

SUBMITTED TO:

Mr. Joel Martin

Nadel & Gussman Permian, LLC 601 N Marienfeld Suite 508 Midland, Texas 79701

PREPARED BY:

Ken Anthony



Newpark Drilling Fluids, LLC Dulce Amor No.1 Section 4, T-18-S, R-26-E

Eddy County, New Mexico



Anticipated Formation Tops

San Andres	960'
Glorietta	2,402'
Abo	4,328'
Wolfcamp	5,480
Wolfcamp Marker	5,946'
1 st Sister	6,286'
Strawn	7,982
Atoka	8,390'
Morrow (lime)	8,536'
Morrow (clastics)	8,578'
Mississipplan	8,828'



Duke Amor No.1 Section 4, T-18-S, R-26-E Eddy County, New Mexico



Mud Program Summary

<u>Depth</u>	Hole Size	Mud Wt.	<u>Viscosity</u>	Fluid Loss	Hg
0' - 400'	17-1/2°	8.6-8.7	34-36	N/C	N/C
400' - 1,450'	12-1 /4"	8.4-8.5	28-29	N/C	9-10
1,450' - 7, 900'	7-7/8*	8.4 -9 .0	28-29	N/C	9-10
7,900' - 9, 500'	7-7/8"	8.8-9.0	36-40	15-8	9-10

Potential Problems

Surface Interval 0 - 400'

- Moderate/severe lost circulation.
- Poorly consolidated formations, may require higher than normal viscosity.

Intermediate Interval 400' - 1,450'

Moderate/severe seepage in San Andres.

Open Hole Interval 1,450' - 7,900'

- Moderate/severe seepage in Glorieta and Abo.
- Sloughing shale in the in the Abo.
- Abnormal pressure in the Wolfcamp.

Open Hole interval 7,900' - 9,500'

- Moderate/severe seepage.
- Abnormal pressure possible in Atoka and Morrow.



Dulce Arnor No.1 Section 4, T-18-S, R-26-E Eddy County, New Mexico



Surface Interval

Interval:

0 - 400'

Hole Size:

17-1/2"

Casing Size:

13-3/8"

Total Days:

4

Mud Type:

New Gel/Lime

Properties:

Weight:

8.6 - 8.7 ppg

Viscosity:

34 - 36 sec/1000cc

Filtrate:

N/C

pH:

N/C

Interval Discussion:

Spud with a conventional New Gel/Lime "spud mud". Use NewGel and native solids to maintain a sufficient viscosity to keep the hole clean. Compound pumps to provide adequate volume to produce required annular velocity to clean hole. Mix Paper as needed to control seepage loss. Run fresh water at flowline for dilution and volume.

At total depth of interval, mix in pre-mix pit, 200 barrels of fresh water, NewGel for a viscosity of 100 sec/1000cc, add 0.50 ppb of Super Sweep. Pump this pill prior to trip to run surface casing.

Materials Consumption & Cost:

30 sx	NewGel	\$ 702.00
5 sx	Lime	99.20
5 sx	Paper	<u> 262.50</u>

Total

\$ 362.70



Dulce Amor No.1 Section 4, T-18-S, R-26-E Eddy County, New Mexico



Open Hole Interval

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Interval:

400' - 1,450'

Hole Size:

12-1/4"

Casing Size:

8-5/8" 3

Total Days: Mud Type:

Fresh Water

Properties:

Weight:

8.6 - 8.8 ppg

Viscosity:

28 - 29 sec/1000cc

Filtrate:

N/C

pH:

9 - 10

interval Discussion:

Drill out below Surface Casing with Fresh water. Circulate through a controlled portion of the reserve plt for maximum gravitational solids removal. Mix Paper to control seepage losses. Mix Lime to maintain pH at 9-10. Mix one gallon of New-55 at flowline to promote solids settling. Sweep hole with high viscosity NewGel pills to clean hole.

If severe losses are encountered, fill pre-mix pit with fresh water, mix NewGel for a 40-50 sec/1000cc viscosity, Maxi-Seal (15-20 ppb) and Mica (5-10 ppb). Pull 5 stands above the loss zone and pump the LCM pill at a reduced rate until returns are gained.

At total depth sweep the hole using 100-barrels of system fluid, NewGel for a 100 sec/1000cc viscosity and 0.50 pounds per barrel of Super Sweep.

Materials Consumption & Cost:

40 sx	NewGel	\$345.20
20 sx	Lime	165.20
1 sx	New-55	226.37
25 sx	Paper	<u>312.50</u>

Total

\$ 1,049.27



Dulce Amor No.1 Section 4, T-18-S, R-26-B Eddy County, New Mexico



Open Hole Interval

1300

interval:

4,450' - 7,900'

Hole Size:

7-7/8

Casing Size:

Total Days:

9

Mud Type:

Fresh Water to Cut Brine

Properties:

Weight:

8.3 - 9.0 ppg

Viscosity:

28 - 29 sec/1000cc

Filtrate:

N/C

pH:

9 – 10

Interval Discussion:

Drill out below Intermediate Casing with fresh water. Circulate through the remaining portion of the reserve pit for gravitational solids removal. Use sweeps of Paper to control seepage loss. Use Lime for pH control. Mix one gallon of New-55 at flowline to promote solids settling. Sweep hole with high viscosity NewGel pills to clean hole.

At 4,300' add 3% Potassium Chloride for inhibition of the shale in the Abo formation. At 5,400' add brine water to increase mud weight to 8.8-9.0 ppg for expected pressure in the Wolfcamp.

Materials Consumption & Cost:

300 sx	Potassium Chloride	\$4,542.00
60 sx	NewGel	517.80
50 sx	Paper	625.00
45 sx	Lime	371.70
5 cn	New-55	<u>1,131,85</u>

Total

\$7,188.35



Dulce Amor No 1 Section 4, T-18-S, R-26-E Eddy County, New Mexico



Open Hole Interval

Interval:

7.900' - 9.500'

Hole Size:

7-7/8°

Casing Size:

5-1/2"

Total Days:

3

Mud Type:

Brine-Polymer

Properties:

Weight:

8.8 - 9.0 ppg

Viscosity:

36 - 40 sec/1000cc

Filtrate:

15 - 8 cc/30min

pH:

9 - 10

Interval Discussion:

At 7,900' confine circulation to steel pits. Adjust and maintain pH with Caustic Soda. Treat the system with Newcide to prevent bacterial degradation of organic materials. Mix White Starch to control API filtrate at <15cc. At 8,500' (Morrow) reduce API filtrate to 8-10cc with Starch (white). Increase the viscosity with Dyna Zan for hole cleaning and a firm-thin wall cake.

At total depth fill pre-mix pit with 80 barrels of system fluid. Mix Saltgel for a 80 sec/1000cc viscosity. Sweep with 40-barrels and spot the additional 40-barrels on bottom for logging and casing operations.

*Newpark recommends installation of a Linear Motion shale shaker with 100-120 mesh screens for initial mud up. An attempt to screen down to a fine mesh should be ongoing during the course of the well.

Materials Consumption & Cost:

60 sx	Dynazan	\$22,329.60
75 sx	Starch (white)	1,854.75
20 sx	Caustic Soda	779.80
45 sx	Saltgel	395.55
5 cn	Newcide	<u>1,216.90</u>

Total

\$26,576.60