District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210

State of New Mexico **Energy Minerals and Natural Resources**

Form C-101 May 27, 2004

Submit to appropriate District Office

1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505				122	1220 South St. Francis Dr. Santa Fe, NM 87505				RECEIVE		□ AM	MENDED REPORT			
	•		-					•				MAY 2 7 20	-	~~ . ~~	
APP	LICAT	ION	FO	R PERMIT	TO D	RILL	RE-EN	TE	R, DE	BEPEN	1, P	LUGBAC	X ,	OR ADI	DAZONE
			1	Operator Name Nadel and Gussman 601 N. Marjenfi	n Penmian, I	ic					-	155615			
	**********			Midland, T								30 – 015-	<u>3</u>	API Number	
3 Prope	rty Code 349	372				Dir	Property Nar nero "16" St	nne tate							ll No. 4
Che	les			Proposed Pool 1 blin Ranch Morrov	· WI	WCAT	542 GRANI					¹⁰ Prop	osed F	ool 2	<u>, , , , , , , , , , , , , , , , , , , </u>
						⁷ Su	rface L	ocatio	on						
UL or lot no.	Section		nship	Range	Lot I	dn	Feet from t	he	North/S	outh line	1	Feet from the	Ea	st/West line	County 🔾
N	16	22	25	28 E	1		1,310			uth	L	1,980		West	Eddy
				T			Location								
UL or lot no.	Section	Tow	nship	Range	Lot1	dn	Feet from t	the	North/S	outh line		eet from the	Ea	st/West line	County
						ddition	al Well		matio						
]	Type Code N	e Code 12 Well Type Code G				R				e Type Code S		15 Grou	and Level Elevation 3,083'		
	ultiple VO			¹⁷ Proposed Dep 12,800'	th		L L			Contractor rson - UTI			²⁰ Spud Date 06/04/05		
Depth to Groun	ndwater: Gr	eater th	at 100	,	Distance	rom nearest	fresh water w	ell: Grea	ter than	1,000°		Distance from no	earest s	urface water. Gr	eater than 1,000'
<u>Pit:</u> Liner:	Synthetic 2	<u> </u>	2_mils	thick Clay	Pit Volum	e:_15,000	bbls		Drilling	Method:					
Closed	-Loop System	m 🔲						<u>Fresh</u>	Water	Brine	X I	Diesel/Oil-based		Gas/Air	
				2	¹ Propo	sed Ca	sing and	d Cen	nent I	Prograi	m				
Hole S	ize		Cas	sing Size		g weight/f	I		tting D			Sacks of Ce	ment		Estimated TOC
17 1/2	"	<u> </u>	1	3 3/8"	4	8# H-40			300'		$oldsymbol{\perp}$	300sx		Circ. to Surf.	
12 1/4	"		9	9 5/8"	4	0# N- 8 0			4,500' 900sx		900sx		Circ. to Surf.		
83/4	8 34" 5 1/2" 17#, 20#		0# HCP-1	10		12,800	,	1	1,55083			TOC @ 4,000'			
	·	├									+				
²² Describe th	e proposed	proera	m. If	this application is	to DEEPE	N or PLU	G BACK.	give the	data on	the prese	nt pro	oductive zone a	nd pr	oposed new p	roductive zone.
	•			am, if any. Use a				.							*,
be installed on	the 9 5/8"	and te	sted. (_	ll water, oil	and gas p	producing z	ones. N	IGP wil			-		-	fcamp. A BOP will ses so the surface and
								h .	4						

²³ I hereby certify that the information given above is true and complete to the best OIL CONSERVATION DIVISION of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCD guidelines , a general permit , or an Approved by: (attached) alternative OCD-approved plan . TIM W. GUM Signature: DISTRICT IT SUPERVISOR Printed name: Josh Fernau Title: Title: Staff Engineer Expiration Date: Approval Date: E-mail Address: joshf@naguss.com Date: 05/25/05 Conditions of Approval Attached Phone: 432-682-4429

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 For drilling and production facilities, submit to appropriate NMOCD District Office.

For downstream facilities, submit to Santa Fe office

Form C-144

June 1, 2004

Pit or Below-Grade Tank Registration or Closure
Is pit or below-grade tank covered by a "general plan"? Yes \(\subseteq \) No \(\subseteq \)

Type of action: Registration of a pit o	r below-grade tank 🛛 Closure of a pit or below-grad	e tank 🔲						
0	m t at a second 400 and a second 410	inst 62						
Operator: Nadel and Gussman Permian, LLC	lelephone:432-682-4429e-mail addi	ess:josni@naguss.com						
Address:601 N. Marienfeld Suite 508 Midland TX 79701 Facility or well name:Dinero "16" State #4 API # 36	1-015-24/189 HI -0-10- N	Co. 16T 22 C B 29E						
County: Eddy Latitude N 32 de								
	g 23 20.6 Longhude w 104 deg 03 41.7	NAD. 1927 🖸 1963 🗖						
Surface Owner: Federal State Private Indian								
Pit	Below-grade tank							
Type: Drilling 🖾 Production 🗌 Disposal 🗌	Volume:bbl Type of fluid:							
Workover Emergency	Construction material:	and the advance						
Lined 🖸 Unlined 🗍	Double-walled, with leak detection? Yes If not, explain why not.							
Liner type: Synthetic Thickness_12mil Clay								
Pit Volume15,000bbl	1 - 4 - 50 C-4	[(20 maints)						
Depth to ground water (vertical distance from bottom of pit to seasonal	Less than 50 feet	(20 points)						
high water elevation of ground water.)	50 feet or more, but less than 100 feet	(10 points) RECEIVEL						
· · · · · · · · · · · · · · · · · · ·	100 feet or more	(U points) x						
Wellhead protection area: (Less than 200 feet from a private domestic	Yes	(20 points) MAY 2 7 2005						
water source, or less than 1000 feet from all other water sources.)	No	(0 points) x QQQ-ARTEON						
	Less than 200 feet	(20 points)						
Distance to surface water: (horizontal distance to all wetlands, playas,	200 feet or more, but less than 1000 feet	(10 points)						
irrigation canals, ditches, and perennial and ephemeral watercourses.)	1000 feet or more	(0 points) x						
	Ranking Score (Total Points)	0						
If this is a pit closure: (1) Attach a diagram of the facility showing the pit's	relationship to other equipment and tanks. (2) Indian	to dismosal location: (about the ancite hav if						
	• • •	· `						
your are burying in place) onsite 🔲 offsite 📋 If offsite, name of facility								
remediation start date and end date. (4) Groundwater encountered: No \(\subseteq \)		n. and anach sample results.						
(5) Attach soil sample results and a diagram of sample locations and excavat	10 n s.							
Additional Comments:								
		,						
		· · · · · · · · · · · · · · · · · · ·						
Threehor and C. shot sho in Counseling shows in the condition of the condi	C. I. J. J. J. J. J. J. C. Y. C. A. M. M. A. M.							
I hereby certify that the information above is true and complete to the best has been/will be constructed or closed according to NMOCD guideline								
_								
Date:05/25/05	gnature & Funa							
		Washington Company of the Company of						
Your certification and NMOCD approval of this application/closure does not otherwise endanger public health or the environment. Nor does it relieve the regulations.	ot relieve the operator of liability should the contents on the operator of its responsibility for compliance with an	of the pit or tank contaminate ground water or ny other federal, state, or local laws and/or						
July Had &	$\triangle 000$							
Approval:		77 77 7 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4						
Printed Name/Title	Signature // S	Date:						

DISTRICT I 1625 N. French Dr., Hobbs, NM 88240 DISTRICT II 811 South First, Artesia, NM 88210

State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102 Revised March 17, 1999

Submit to Appropriate District Office

Pool Name

State Lease — 4 Copies Fee Lease — 3 Copies

DISTRICT III 1000 Rio Braxos Rd., Axtec, NM 87410

DISTRICT IV 2040 South Pacheco, Santa Fe, NM 87505

API Number

Property Code

OGRID No.

OIL CONSERVATION DIVISION

2040 South Pacheco Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

Well Number

Elevation

4

WELL LOCATION AND ACREAGE DEDICATION PLAT

Property Name

Operator Name

DINERO "16" STATE

Pool Code

		NADEL AND GUSSMAN PERMIAN 3083'								
	,				Surface Loc	ation				
UL or lot No.	Section	Township	Range	Lot idn	Feet from the	North/South line	Feet from the	East/West line	County	
N	16	22 S	28 E		1310	SOUTH	1980	WEST	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	Joint o	n Institution	nsolidation (Cada I On	der No.				<u> </u>	
320	Joint		Machina Croft	Local Of	nei no.					
	WARLE W	TILL BE AS	SSIGNED '	ro This	COMPLETION I	JNTIL ALL INTER	PESTS HAVE BE	EEN CONSOLID	ATED	
NO ADDO	"ADID "					APPROVED BY		EN CONSOLIDA	A I E D	
f	1			<u> </u>	· ·		OPERATO	R CERTIFICAT	TION T	
	. !			İ	ļ					
]]	I I						contained herein	y certify the the in n is true and compl		
	i				i		best of my know	vledge and belief.	ŀ	
	i				i		$\parallel \mathcal{U} \mathcal{I}$			
i i					İ		Signature	<u>~~~</u>		
					+-		H bsh F	PCMA . I		
					ļ		Josh Fe	e e		
	1				ł		SHAFF	Engineer		
	i				i		05/25/0	5		
	1				į		Date			
/ _		.	_				SURVEYO	R CERTIFICAT	TION	
500							I hereby certify	that the well locat	ion shown	
IV.	i				<u> </u>		on this plat we	es plotted from field	i notes of	
	i				j		supervison an	made by me or d that the same is	true and	
()	1				į		correct to the	e best of my belie	f.	
l <i>Y</i>	l l	Lat.: N32°2	23'20.6"		ļ		1	¥ 17, J8005		
L	1	Long.: W10)4°05'41.7"	$L_{}$			Date Surveye	Seer or Co		
W	1980	Ì	,				Signstare & Professional	Surveyor 7037))	
N	i				i		A TIEN			
H	į		2		!		1 /80	~ U \$		
	į	<u> </u>	<u>-</u>		ļ			No. 5369		
{	1				1	(Certificate No	O. Cary L. Jones	7977	
							IP BA	SIN SURVEYS		

NADEL AND GUSSMAN PERMIAN, L.L.C. 601 N. Marienfeld, Suite 508 Midland, TX 79701 (432) 682-4429 (Office) (432) 682-4325 (Fax)

05/25/05

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

Re: Dinero "16" State #4
1,310' FSL & 1,980' FWL
Unit Letter N, Sec. 16-T22S-R28E
Eddy, NM
Rule 118 H2S Exposure

Dear Mr. Arrant,

Nadel and Gussman Permian have evaluated this well and we do 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 monitoring the remainder of the well.

Please contact me if you have any additional questions.

Sincerely,

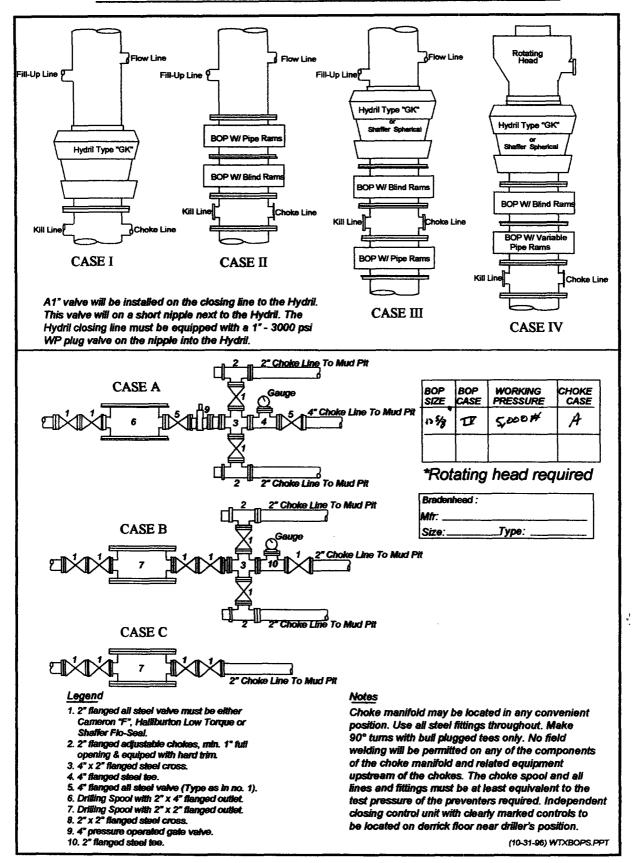
Josh Fernau Staff Engineer

Hydrogen Sulfide Drilling Operations Plan

- 1. Company and Contract personnel admitted on location should be trained by a qualified H₂S safety instructor to the following:
 - A. Characteristics of H₂S.
 - B. Physical Effects and Hazards.
 - C. Proper Use of Safety Equipment and Life Support Systems.
 - D. Principle and Operation of H₂S Detectors, Warning System and Briefing.
 - E. Evacuation Procedure, Routes and First Aid.
 - F. Proper Use of 30 minute Pressure Demand Air Pack.

2. H₂S Detection and Alarm Systems

- A. H₂S Detectors and Audio Alarm System to be Located at Bell Nipple, End of Blooie Line (mud pit) and on Derrick floor or doghouse.
- 3. Windsock and/or Wind Streamers
 - A. Windsock at Mud Pit Area Should be High Enough to be Visible.
 - B. Windsock at Briefing Area Should be High Enough to be Visible.
 - C. There Should be a Windsock at Entrance to Location.
- 4. Condition Flags and Signs
 - A. Warning Sign on Access Road to Location.
 - B. Flags to be Displayed on Sign at Entrance to Location.
 - 1. Green Flag, Normal Safe Condition.
 - 2. Yellow Flag, Indicates Potential Pressure and Danger.
 - 3. Red Flag, Danger H₂S Present in Dangerous Concentration Only Emergency Personnel Admitted to Location.
- 5. Well Control Equipment
 - A. See Attached Diagram.
- 6. Communication
 - A. While Working Under Masks Chalkboards Will be Used for Communication.
 - B. Hand Signals will be Used Where Chalk Board is Inappropriate.
 - C. Two Way Radio or Cell Phone will be Used to Communicate off Location in Case of Available at Most Drilling Foreman's Trailer or Living Quarters.
- 7. Drillstem Testing
 - A. Exhausts will be Watered.
 - B. Flare Line will be Equipped with an Electric Igniter or a propane pilot light in case gas reaches the surface.
 - C. If Location is near any Dwelling a Closed DST will be Performed.
- 8. Drilling Contractor Supervisor will be Required to be Familiar with the Effects H₂S has on tubular goods and other mechanical equipment.
- 9. If H₂S Encountered, Mud system will be Altered if Necessary to Maintain Control of Formation. A Mud Gas Separator will be Brought into Service Along with H₂S Scavengers if Necessary.



OBJECTIVES AND METHODS

- 1) Meet environmental standards.
 - The proposed mud system provides economical inhibition and excellent well bore stability.
- 2) Provide borehole stability.
 - The Baroid Engineer will control flow properties, gel strengths, and solids in the desired ranges. In addition, we must follow prudent operating procedures such as short trips and optimized penetration rates.
- 3) Prevent induced kicks and lost circulation. Minimize swab/surge pressures.
- 4) Optimize well bore cleaning in large diameter hole.
 - This is accomplished by coordinating flow rates, penetration rates, and mud properties. Short trips are essential.
- 5) Seal massive and/or depleted sands/limestone.
 - AQUAGEL®, HY-SEAL®, PLUG-GIT®, and BARO-SEAL™ will provide a good particle size distribution and a controlled fluid loss for plugging depleted or weak sands/limestone in the hole intervals.
- 6) Prevent differentially stuck pipe.
- 7) Safe and economical completion of the project.
 - Baroid personnel are dedicated to safety. The recommended fluid system is quite cost
 effective, when used to reduce total well cost, by reducing well bore related problems and
 the associated days.

Casing Program

Hole Size	Casing Size	Top MD/RKB	Set @ MD / RKB	Fluid Density	Drilling Fluid System
17 ½"	13 %"	300′	300,	8.4 – 9.0 ppg.	FW/Native
12 ¼"	9 %"	4,500'	4,500*	9.7-10.2 ppg.	Brine water
, 8 <i>%</i> "	5 ½"	12,800'	12,800'	8.4-11.0 ppg.	Brine/Polymer

^{*}Casing program provided by Nadel & Gussman

;

Formation Tops (Estimated Depths) MD

System	Formation	GL (ft)	KB (ft)	Sub Sea (ft)
Permian	Delaware	±2,600'	±00'	±00'
	Canyon	± 3,438'	±00'	±00'
	Bone Spring	± 6,050'	±00'	±00'
	Wolfcamp	± 9,550'	±00'	±00'
	Strawn	± 10,780'	±00'	±00'
	Lower Atoka	± 11,100'	±00'	±00'
Target	Morrow	± 12,270	±00'	±00'
Total Depth (TVD/MD)		± 12,800°	±00'	±00'

RECOMMENDED MUD PROPERTIES

MD(RKB) (R)	Micol Vot. (Presi)	Fumpel Vis	PY	¥Ρ		HTH: @ 200	pH	% Solids	.
0-300'	8.4-9.0	26-36	1-3	1-3	N/C	N/A	9.5-10.0	<5	<10K
300'- 4,500'	9.7-10.2	28-32	1-3	2-5	N/C	N/A	9.5-10.0	<3	180K
4,500' -10,400'	8.4-9.0	28-32	1-3	2-5	N/C	N/A	9.5-10.0	<2	8K-20K
10,400'-12,800'	10.0-11.0	35-45	6-9	9-18	<10	N/A	9.5-10.0	<5	100K-150K

DRILLING FLUID DISCUSSION BY INTERVAL

Interval: 0 - 300' MD: Spud Mud

Mud Properties:

Mo(RKB) (tt)	Mud Weight (ppg)	Firmel Vis	PV	YP	Fluir Loss	HTTHE @. 250	PH	% Solids	CF
0-300'	8.4-9.0	26-36	1-3	1-3	N/C	N/A	9.5-10.0	<5	<10K

Operation: Spud in and drill a 17 1/2" hole and drill to 300'. Run and cement 13 3/8" surface casing.

Mud System: A fresh water system is recommended for drilling this interval. Build spud mud with

AQUAGEL® for the desired funnel viscosity. Lime will be added to aid flocculation and to

adjust ph for corrosion control.

Solids Control: Fully utilize at least two linear motion shakers, rig desilter, and rig desander to control drill

solids. Run the finest mesh screens that will accommodate pump rates.

Issues: Lost returns/Seepage - Add HY-SEAL® for seepage. For excessive seepage or lost returns

mix in 100 bbls of fresh water the following: 1 sack of soda ash to reduce hardness to <200 ppm, AQUAGEL® for a 35+ viscosity, 8-10 ppb PLUG-GIT®, 8-10 ppb BARO-SEAL™, and 6-8 ppb cottonseed hulls. In the event of complete loss of returns, dry drill (minimum 7 bpm) using gel/paper sweeps to keep the hole clean. Be prepared for severe lost

circulation and the possibility of "dry drilling" to TD.

Hole Cleaning: Use EZ-MUD® in sweeps as needed or poured directly down the drill pipe on connections.

Corrosion Control Refer to Corrosion Control Program. Add DA-370 (corrosion inhibitor) and FA-200 (filming amine) for corrosion control. Run corrosion rings in the drill pipe. Rings should be in place for a minimum of 100 hours unless the drill pipe is observed to be corroding or as instructed by the Corrosion Engineer. Monitor effectiveness of corrosion treatments. Record results on morning reports. Monitor corrosion rates and assure a rate of less than 1.5 lbs/ft²/yr. Ensure that the mud engineer's corrosion formulae are followed precisely and ensure that corrosion rings are submitted in a timely manner.

*At TD, sweep the hole with 50 bbls of pre-mixed fresh water/ AQUAGEL®/Lime/ HY-SEAL® with a funnel viscosity of 45-50 sec/qt.

Interval: 300'- 6,100' MD: Brine Water

Mud*Properties:

Interval	MW	XS.	PV	æ	F.	PH	% Solids	d
300' 4,500'	9.7-10.2	28-32	1-3	2-5	N/C	9.5-10.0	<3	180,000

Operation:

Drill out of surface casing and obtain a successful shoe test. Drill a 12 1/2" hole to 6,100'. Run and cement 9 5/8" intermediate casing.

Mud System:

Brine water is recommended to drill this interval. Maintain a 10 pH with Caustic soda.

Solids Control:

Fully utilize at least two linear motion shakers, rig desilter, and rig desander to control drill

solids. Run the finest mesh screens that will accommodate pump rates.

Issues:

Deviation is possible in this interval.

Lost Returns/Seepage - Add BARO-SEAL™, PLUG-GIT®, or HY-SEAL® for seepage or lost returns. DIAMONDSEAL™ is a water-swellable but not water soluble, 100% crystalline synthetic polymer that absorbs hundreds of times its own weight in water. It has been used in the area in conjunction with "regular" LCM products with good success.

Hole Cleaning: Use EZ-MUD® in sweeps or poured directly down the drill pipe on connections.

Corrosion Control- Add DA-370 (corrosion inhibitor) and FA-200 (filming amine) for corrosion control. Keep the corrosion rates below 1.5 lbs/ft²/yr. Run corrosion rings in the drill pipe. Rings should be in place for a minimum of 100 hours unless the drill pipe is observed to be corroding or as instructed by the Corrosion Engineer. Monitor effectiveness of corrosion treatments. Record results on morning reports. Monitor corrosion rates and assure a rate of less than 1.5 lbs/ft²/yr. Ensure that the mud engineer's corrosion formulae are followed precisely and ensure that corrosion rings are submitted in a timely manner.

*At TD, sweep the hole with 50 bbls of pre-mixed fresh water/ AQUAGEL®/Lime/ HY-SEAL® with a funnel viscosity of 45-50 sec/qt.

Interval: 6,100'- 10,400' MD: Cut Brine Water

Mud Properties:

Operation:

Drill out of intermediate casing and obtain a successful shoe test. Drill an 8 3/4" hole to

10.400'.

Mud System:

Cut Brine water is recommended to drill this interval. Use caustic soda to maintain the pH

above 10. Sweep hole as needed for adequate hole cleaning.

Solids Control:

Fully utilize at least two linear motion shakers, rig desilter, and rig desander to control drill solids. Run the finest mesh screens that will accommodate pump rates. *To control solids, add 2.5 gals/2 hrs. of SS-105 at the flowline.*

Issues:

Lost Returns/Seepage - Add BARO-SEAL™, PLUG-GIT®, or HY-SEAL® for seepage or lost returns. Pump LCM (starting with 3-4 sx/hr of paper) as needed to control seepage and lost circulation. For excessive seepage mix 35-40 sx of starch to the system at 5 min/sk.

<u>Hole Cleaning</u>: Use **EZ-MUD®** in sweeps or poured directly down the drill pipe on connections. **HY-SEAL®** can also be used in sweeps for additional hole cleaning. **Sweep the hole every 200' or as needed for fill or drag with 1-2 gals.** of SS-105 (add at the pump suction).

Corrosion Control- Add DA-370 (corrosion inhibitor), DA-320 (H₂S scavenger), and FA-200 (filming amine) for corrosion control. Run corrosion rings in the drill pipe. Rings should be in place for a minimum of 100 hours unless the drill pipe is observed to be corroding or as instructed by the Corrosion Engineer. Monitor effectiveness of corrosion treatments. Record results on morning reports. Monitor corrosion rates and assure a rate of less than 1.5 lbs/ft²/yr. Ensure that the mud engineer's corrosion formulae are followed precisely and ensure that corrosion rings are submitted in a timely manner.

*Ensure corrosion chemicals are mixed exactly as recommended by the mud engineer. Ensure that corrosion rings are run in saver sub and top of drill collars. Rings should be submitted for analysis on each trip. Visually check pipe on trips and check for unusual wear or corrosion

Interval: 10,400'- 12,800' MD: Barazan D+/Dextrid

Mud Properties:

Interval	NO	Vis	PV ·	ΥP	FL	PFL	% Solids	5
10,400'-12,800'	10.0-11.0	34-45	6-9	9-18	<10	9.5-10.0	<5	100-150K

Operation:

At ~10,400' begin mud up with BARAZAN® D PLUS/DEXTRID® LT. Mix BAROID® for

desired mud weight as dictated by hole conditions.

Mud System:

A brine/polymer system is recommended to drill this interval. Use caustic soda to maintain

the pH above 10. Sweep hole as needed for adequate hole cleaning.

Solids Control: Fully utilize at least two linear motion shakers, rig desilter, and rig desander to control drill

solids. Run the finest mesh screens that will accommodate pump rates.

Issues:

Lost Returns/Seepage - Add BARO-SEAL™, PLUG-GIT®, or HY-SEAL® for seepage or lost returns. Pump LCM (starting with 3-4 sx/hr of paper) as needed to control seepage and lost circulation. For excessive seepage mix 35-40 sx of starch to the system at 5 min/sk.

Hole Cleaning: HY-SEAL® may be used in sweeps for additional hole cleaning.

*At TD, mud from system may be pulled into slug pit and viscosity raised to 60-70 sec/qt for added hole cleaning.

Corrosion Control- Add DA-370 (corrosion inhibitor), DA-320 (H₂S scavenger), and FA-200 (filming amine) for corrosion control. Run corrosion rings in the drill pipe. Rings should be in place for a minimum of 100 hours unless the drill pipe is observed to be corroding or as instructed by the Corrosion Engineer. Monitor effectiveness of corrosion treatments. Record results on morning reports. Monitor corrosion rates and assure a rate of less than 1.5 lbs/ft²/yr. Ensure that the mud engineer's corrosion formulae are followed precisely and ensure that corrosion rings are submitted in a timely manner.

*Ensure corrosion chemicals are mixed exactly as recommended by the mud engineer. Ensure that corrosion rings are run in saver sub and top of drill collars. Rings should be submitted for analysis on each trip. Visually check pipe on trips and check for unusual wear or corrosion

SECTION 16, TOWNSHIP 22 SOUTH, RANGE 28 EAST, N.M.P.M., NEW MEXICO. EDDY COUNTY.

150' NORTH □ OFF SET 3083.5

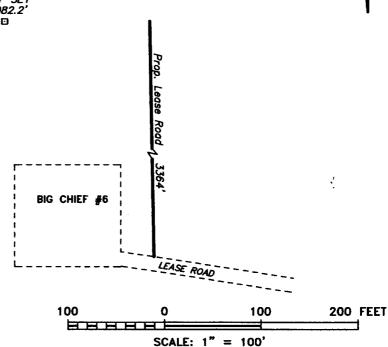
NADEL & GUSSMAN PERMIAN DINERO "16" STATE #4 ELEV. - 3083'

150' WEST D 3083.1'

LAT. N32°23'20.6" LONG. W104°05'41.7"

⊡ 150' EAST OFF SET 3083.4

150' SOUTH OFF SET 3082.2



Directions to Location:

FROM THE JUNCTION OF CO. RD. 605 AND CO. RD. 607, GO NORTHEAST ON 607 FOR 0.9 MILE TO LEASE ROAD; THENCE WEST ON LEASE ROAD FOR 0.5 MILE PAST BIG CHIEF #3 TO PROPOSED LEASE ROAD.

BASIN SURVEYS P.O. BOX 1786-HOBBS, NEW MEXICO

Drawn By: K. GOAD W.O. Number: 5399 Disk: KJG #9 - 5399A.DWG Date: 05-24-2005

- DINERO "16" STATE No. 4 LOCATED 1310' FROM THE SOUTH LINE AND 1980' FROM THE WEST LINE OF SECTION 16, TOWNSHIP 22 SOUTH, RANGE 28 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO.

NADEL AND GUSSMAN PERMIAN

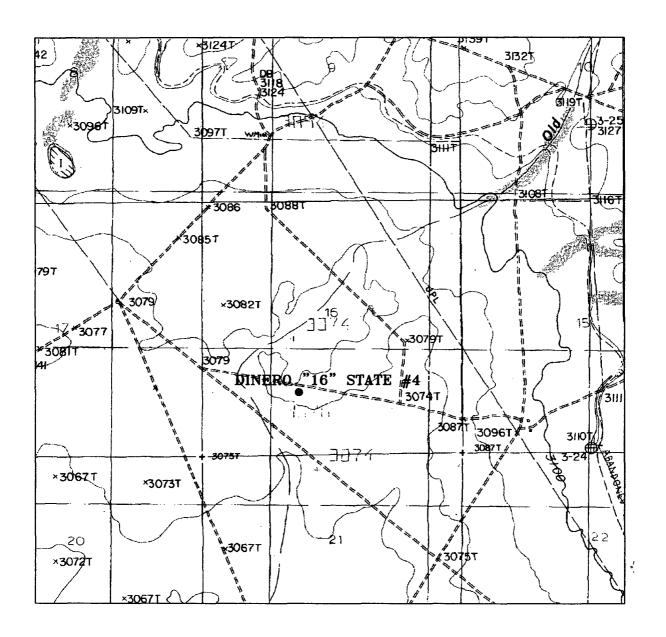
DINERO "16" STATE No. 4 / Well Pad Topo

of

Sheets

Survey Date: 05-17-2005

Sheet



DINERO "16" STATE #4
Located at 1310' FSL and 1980' FWL
Section 16, Township 22 South, Range 28 East,
N.M.P.M., Eddy County, New Mexico.

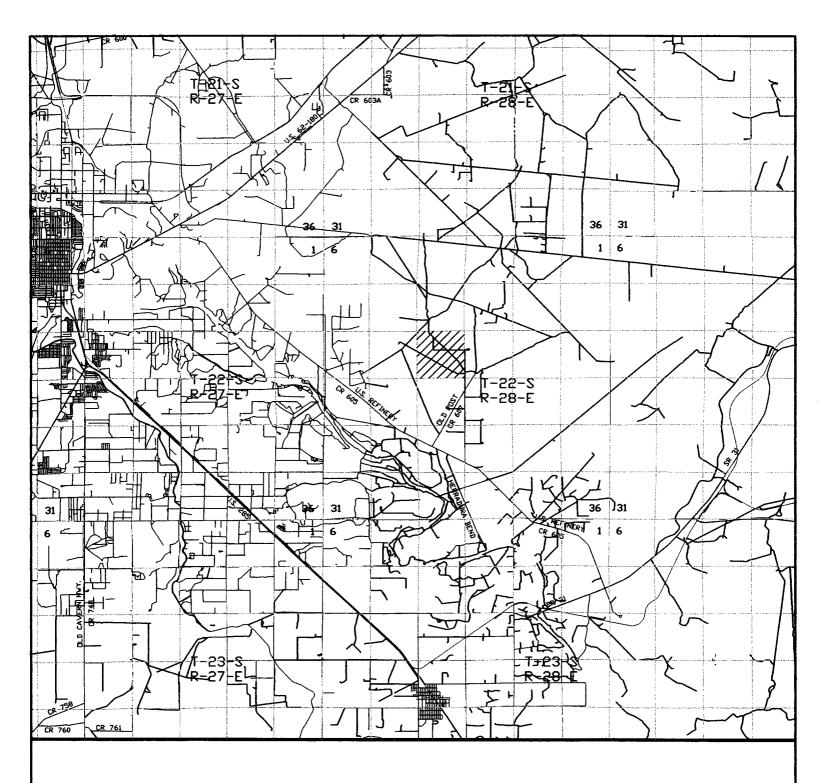
Date: 05-24-2005



P.O. Box 1786 1120 N. West County Rd. Hobbs, New Mexico 88241 (505) 393-7316 — Office (505) 392-3074 — Fax basinsurveys.com

W.O. Number;	5399AA — KJG # 1
Survey Date:	05-17-2005
Scale: 1" = 20	000'

NADEL AND GUSSMAN PERMIAN, L.L.C.



DINERO "16" STATE #4
Located at 1310' FSL and 1980' FWL
Section 16, Township 22 South, Range 28 East,
N.M.P.M., Eddy County, New Mexico.

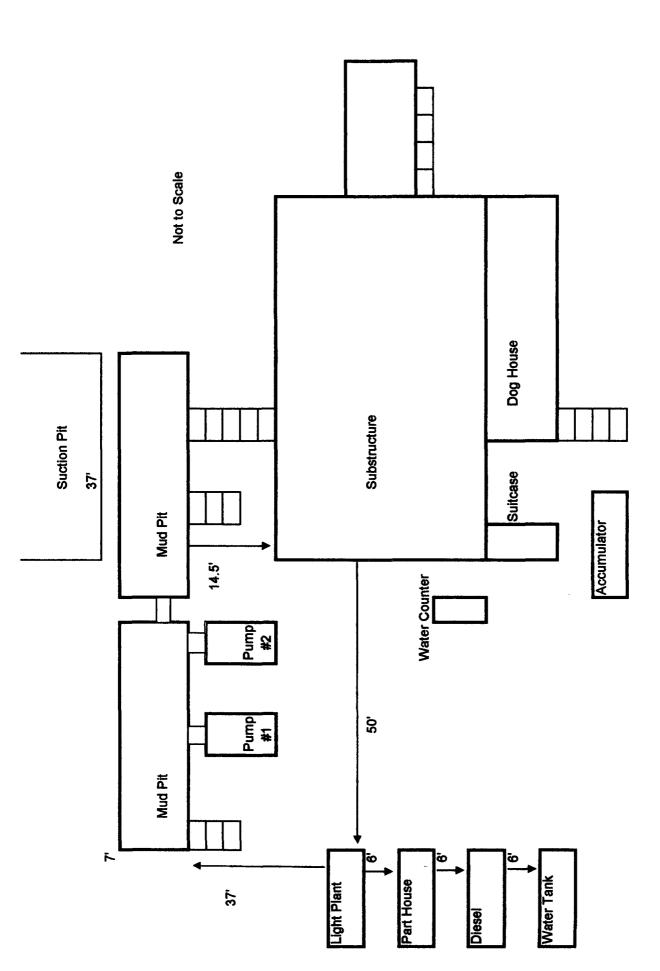
Date: 05-24-2005



P.O. Box 1786 1120 N. West County Rd. Hobbs, New Mexico 88241 (505) 393-7316 — Office (505) 392-3074 — Fax basinsurveys.com

W.O. Number:	5399AA - KJG #1
Survey Date:	05-17-2005
Scale: 1" = 2	MILES

NADEL AND GUSSMAN PERMIAN, L.L.C.



*.

