# District.I 1625 N French Dr , Hobbs, NM 88240 District.II 1301 W. Grand Ayenue, 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

AUG 19 2008 Form C-101

OCD-ARTESIA

Submit to appropriate District Office

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

☐ AMENDED REPORT

APPI	LICATI	ON FO	R PERMIT	T <b>TO D</b>	RILL, RE	-ENTI	ER, DI	EEPEN	, PLUGBAC	CK, OR	R ADI	D A ZONE		
Operator Name and Address Nadel and Gussman HEYCO, LLC.										<sup>2</sup> OGRID Number 258462				
		8202-1936 ,				30 - 015 - 36,594								
<sup>3</sup> Property Code <sup>5</sup> Property 1												No 2		
Culebra			Proposed Pool	it.	 5D//				¹º Prope Bone	osed Pool 2 Springs				
<sup>7</sup> Surface Location														
UL or lot no	Section	Township 23S	Range 28E	Lot	Idn Feet	from the	North/S	outh line	Feet from the 510			County Eddy		
D 2 23S 28E 660 NORTH 510 WEST Eddy  8 Proposed Bottom Hole Location If Different From Surface											Ludy			
UL or lot no Section Township Range Lot to							1	North/South line Feet from the		East/West line		County		
	Additional Well Information													
11 Work	Type Code		12 Well Type/Co		13 Cable/Rotary Rotary			14 Lease Type Code S		15 Ground Level Eleva 3039'				
<sup>16</sup> M	ultiple		17 Acaposed Dep 6400'	xth	ormation E SPRIN	NG	AMERII	19 Contractor AMERIMEX		<sup>20</sup> Spud Date DEC 22, 08				
Depth to Grou	ndwater 2	0'		Distano	Distance from nearest fresh water well 1 MILE			Distance from nearest surface water 1/2 MILE						
I \/														
<u> </u>			2	1 Propos	sed Casing	and Co	ement	Progran	i /	ميزاسي ا		-144		
Hole S	ize	Ca	sing Size		g weight/foot		Setting D		Sacks of Ce	ment		Estimated TOC		
12 1/		<del>                                     </del>	3 5/8"				400'		300 sx			SURFACE		
7 7/8	3"	4	1/2"	11.6# J-55 ST&C			6,400'		1020 sx			SURFACE		
						+								
						<del> </del>		····						
1			f this application i				the data	on the prese	ent productive zone	and propo	sed new	productive zone.		
Mud progra	•	vention prog	guin, ir uny. Cso	additionar.	meets if necessi	u y								
0' to 400			g FW Spud M											
400' to 6,4	00': 9.	7 to 10.2 p	opg Brine w/ S	WEEPS										
NOTE:	NFW	 PIT RI	ΠF											
NOTE: NEW PIT RULE 19-15-17 NMAC PART 17														
A form (	C-144 r	nust be	approved											
			operations											
23 I hereby cer	tify that the	information	given above is tr		inlete to the hes	,		OH O	ONGERNAT	HONID				
23 I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCD guidelines ☒, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.							OIL CONSERVATION DIVISION							
						Appro	Approved by. Jun W. Brene							
Printed name	Keith Ca	annon				Title.		£:	STES	200	las	Har		
Title Drilling superintendent							oval Date:		E	xpitation D	ate			
E-mail Addres	E-mail Address kcannon@heycoenergy.com									9/	2//	0		
Date 8/19/08 Phone: (505) 623-6601							tions of A	nnroval Att	ached 🕥	-	, -,			



# New Mexico Office of the State Engineer POD Reports and Downloads

Township:	23S Range: 28E	Sections:			
NAD27 X:	Y:	Zone:	Search Radius:	1	
County:	Basin: C( Carlsbad)	Nu	mber:	Suffix:	,
Owner Name: (First)	(Last)		Non-Domestic	Domestic	All
POD / Surface Data	Report Av	g Depth to Water Repo	rt Water	Column Report	
	Clear Form	iWATERS Menu	Help		

# AVERAGE DEPTH OF WATER REPORT 08/12/2008

								(Depth	Water in	Feet)
Bsn	Tws	Rng	Sec	Zone	x	Y	Wells	Min	Max	Avg
С	23S	28E	05				1	33	33	33
С	23S	28E	06				11	20	85	45
C	23S	28E	07				2	40	50	45
C	23S	28E	08				3	16	50	35
C	23S	28E	09				1	30	30	30
С	23S	28E	10				2	19	25	22
С	238	28E	11				2	15	16	16
С	23S	28E	12				1	20	20	20
С	23S	28E	13				4	15	50	33
С	23S	28E	14				2	29	30	30
С	23S	28E	15				5	12	54	37
С	23S	28E	16				3	33	55	40
С	23S	28E	17				2	50	75	63
С	23S	28E	18				3	42	217	113
С	23S	28E	19				2	10	45	28
С	23S	28E	20				3	34	70	55
C	23S	28E	21				7	6	69	23
С	23S	28E	22				10	30	160	54
С	23S	28E					7	12	75	46
С	235		24				1	36	36	36
С	23S	28E	25				7	27	60	44
C	23S	28E	27				2	18	40	29
С	23S	28E	28				2	3	10	7
С	23S	28E	29				1	15	15	15
C	23S	28E	30				1	8	8	8
C	23S		33				1	190	190	190
C	23S		34				1	25	25	25
C	23S	28E	35				1	30	30	30

Record Count: 88

#### State of New Mexico

DISTRICT I 1625 N FRENCH DR., HOBBS, NM 88240

Energy, Minerals and Natural Resources Department

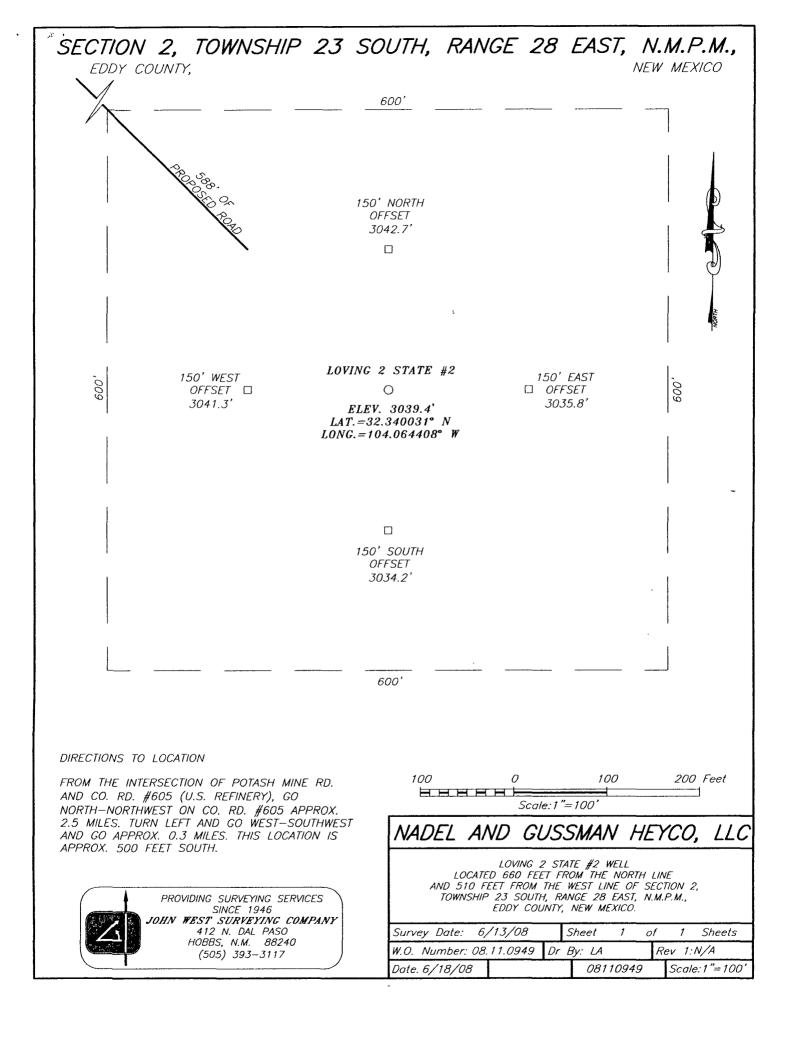
DISTRICT II
1301 W. GRAND AVENUE, ARTESIA, NM 88210

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

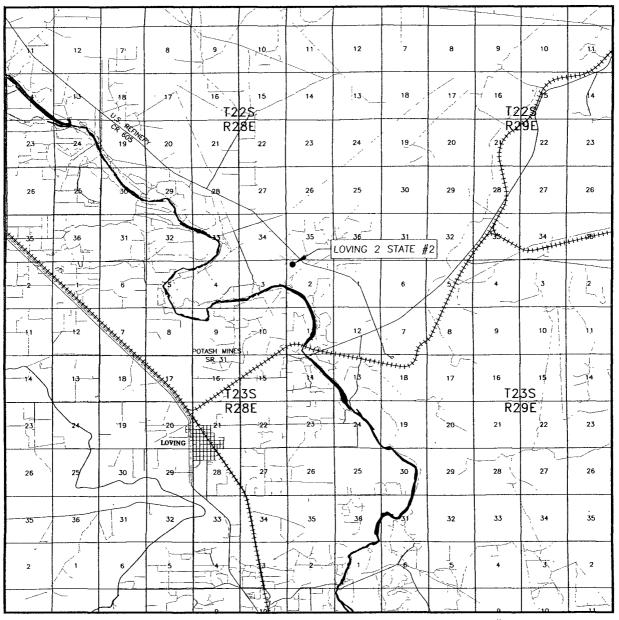
### OIL CONSERVATION DIVISION 1220 SOUTH ST. FRANCIS DR. Santa Fe, New Mexico 87505

Form C-102 Revised October 12, 2005 Submit to Appropriate District Office State Lease - 4 Copies
Fee Lease - 3 Copies

DISTRICT IV	DR SANTA PR	NW 87505	WELL LO	CATION	AND ACREA	GE DEDICATI	ON PLAT		ED REPORT	
	Number	Na 01000	150	Pool Code	Cular	bio Bluff.	Pool Name 7:Bone Sprin	g S		
Property				Well Number						
12960	)			2						
OGRID N					Operator Nam		~	Elevation		
25846	52		N A	DEL AN	ID GUSSMAN	N HEYCO, LLO		3039'		
					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	
4	2	23-S	28-E		660	NORTH	510	WEST	EDDY	
<u> </u>	I		Bottom	Hole Lo	cation If Diffe	erent From Sur	face	L	<u></u>	
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
Dedicated Acre	s Joint o	r Infill Co	nsolidation	Code Or	der No.					
NO ALLO	OWARLE V	VILL RE AS	SIGNED	TO THIS	COMPLETION I	UNTIL ALL INTER	PESTS HAVE BE	EEN CONSOLIDA	ATED	
110 1122						APPROVED BY		ZZIV GOLIGOZIZI		
	OT 4	10.	Т 3		LOT 2	LOT 1	7 [			
	i l						11	OR CERTIFICAT	ł	
099	l			i			herein is true	I hereby certify that the information herein is true and complete to the best of		
	ľ				1		organization ei	and belief, and that ther owns a working	interest	
510'				I	1		including the	ineral interest in the land proposed bottom hole location		
VB-040	07				1		to drill this well at this			
				1			or to a volunta	mineral or working ary pooling agreemen	nt or a	
39 61 AC		39.56 AC 39.51			9.51 AC	39.45 AC	by the division	oling order heretofor	e entered	
	İ	G		COORDINA	TES		1 1/ 50			
	i		NAD 2	27 NME	i		Signature Date			
			Y=487	523.3 N			Signature	A Da	te	
	i			056.4 E	Į.		Printed Name			
			1AT = 32	340031° i	v		Triacca Nam	C	Ī	
	. 1	L		1.064408°	1		GUPURVA	OR CERTIFICATION		
<u> </u>				<u> </u>			SURVEYO	R CERTIFICAT	ION	
	ı			1	1			certify that the well plat was plotted fro		
							notes of actual	surveys made by n rvision, and that the	ne or	
				1			true and correc	et to the best of my	v belief.	
					ļ		- STUTE	DJ. Elan		
	1			ı			1 1 2 E	VE 4163. 2008		
					ł	•	Date Surveye	S C	LA	
<u> </u>	!				!_		Signature &	Seal of	N. C.	
							Professional	Saywe don	Į į	
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							1 Some De		6/18/08	
	I			1	I			18PE 1849	-1-1-8	
	1						Certificate N	o. RONALD EIDSON	3239	
				1			Cordinate W	NOCHIE EIDSON	ಎ೭ಎ೪	



## VICINITY MAP



SCALE: 1" = 2 MILES

SEC. 2 TWP. 23—S RGE. 28—E

SURVEY N.M.P.M.

COUNTY EDDY STATE NEW MEXICO

DESCRIPTION 660' FNL & 510' FWL

ELEVATION 3039'

NADEL AND GUSSMAN

OPERATOR HEYCO, LLC

LEASE LOVING 2 STATE

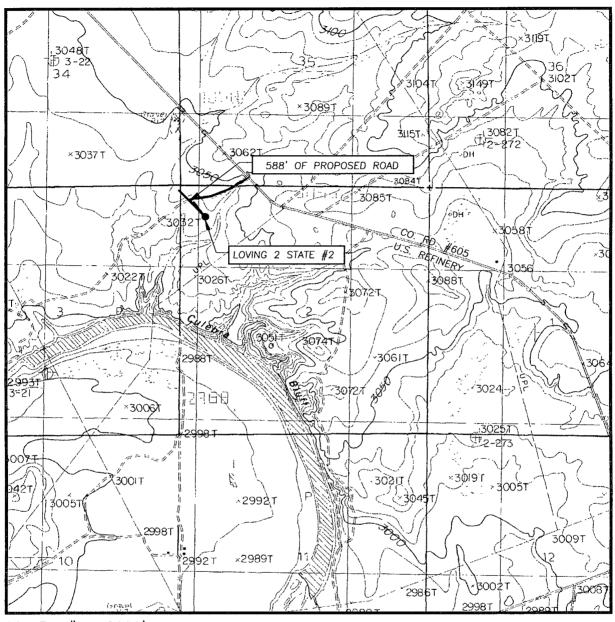


PROVIDING SURVEYING SERVICES SINCE 1946

JOHN WEST SURVEYING COMPANY
412 N. DAL PASO
HOBBS, N.M. 88240
(505) 393-3117



# LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL: LOVING, N.M. - 10'

SEC. 2 TWP. 23-S RGE. 28-E

SURVEY N.M.P.M.

COUNTY EDDY STATE NEW MEXICO

DESCRIPTION 660' FNL & 510' FWL

ELEVATION 3039'

NADEL AND GUSSMAN

OPERATOR HEYCO, LLC

LEASE LOVING 2 STATE

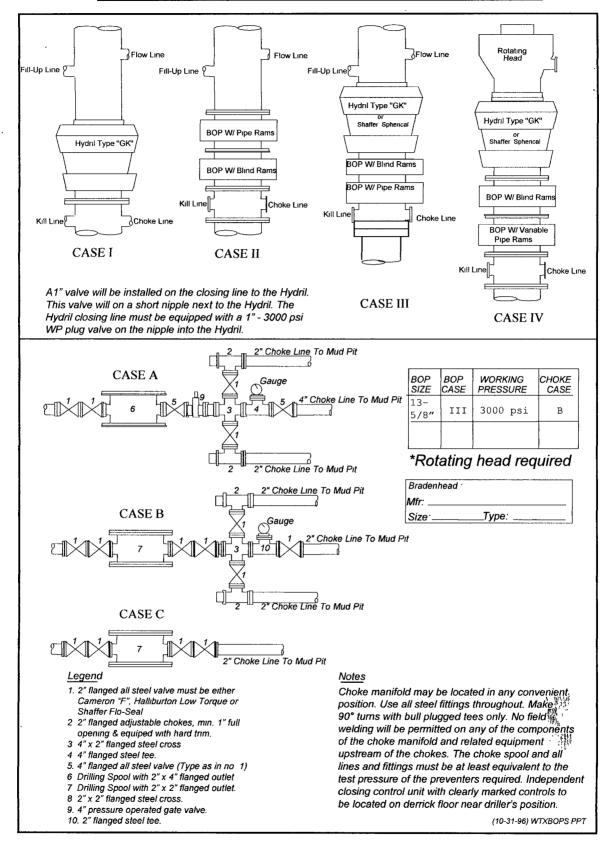
U.S.G.S. TOPOGRAPHIC MAP

LOVING, N.M.



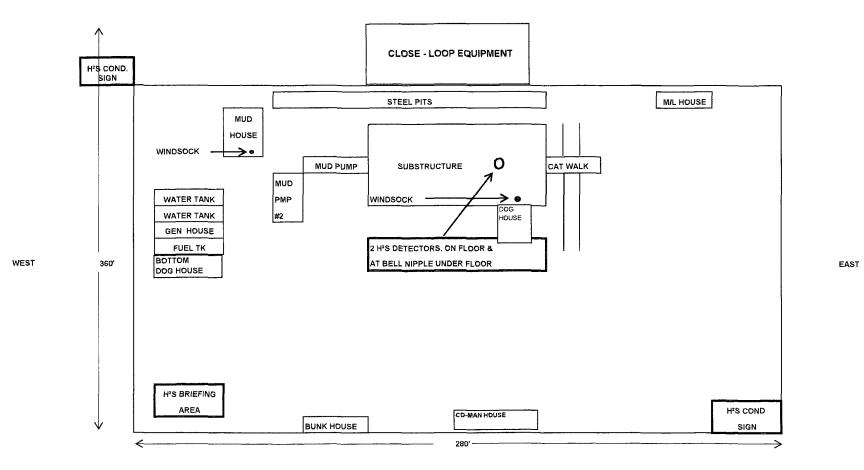
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SINCE 1946
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412 N. DAL PASO
HOBBS, N.M. 88240
(505) 393-3117

# Nadel and Gussman Heyco, LLC MINIMUM BLOWOUT PREVENTER REQUIREMENTS



LOVING 2 STATE #2 660' FNL & 510' FWL SEC 2, T23S, R28E EDDY COUNTY, NM

NORTH



SOUTH

## NADEL AND GUSSMAN HEYCO, L.L.C. P.O. BOX 1936 ROSWELL N.M. 88202 (575) 623-6601 (Office) (575) 624-5321 (Fax)

8/19/08

Mr. Tim Gum New Mexico Oil and Gas Division 1301 West Grand Avenue Artesia, NM 88210

Re: LOVING 2 STATE #2
660' FNL & 510' FSL
Unit Letter D, NW/NW Sec. 2, T23S, R28E
Eddy, NM
Rule 118 H2S Exposure

Dear, Mr. Gum

Nadel and Gussman Heyco, LLC 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

Keith Cannon

Drilling superintendent

#### Hydrogen Sulfide Drilling Operations Plan

- 1. Company and Contract personnel admitted on location should be trained by a qualified H<sub>2</sub>S safety instructor to the following:
  - A. Characteristics of H<sub>2</sub>S.
  - B. Physical Effects and Hazards.
  - C. Proper Use of Safety Equipment and Life Support Systems.
  - D. Principle and Operation of H<sub>2</sub>S Detectors, Warning System and Briefing.
  - E. Evacuation Procedure, Routes and First Aid.
  - F. Proper Use of 30 minute Pressure Demand Air Pack.
- 2. H<sub>2</sub>S Detection and Alarm Systems
  - A. H<sub>2</sub>S 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 H<sub>2</sub>S 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 H<sub>2</sub>S has on tubular goods and other mechanical equipment.
- 9. If H<sub>2</sub>S Encountered, Mud system will be Altered if Necessary to Maintain Control of Formation. A Mud Gas Separator will be Brought into Service Along with H<sub>2</sub>S Scavengers if Necessary.