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

Form C-10 June 16, 2001

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

Subimi (υ	appropriate	District Office	

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

TLUGDA	\mathbf{t} CK, \mathbf{C}	IN AD	<u>עי</u>	AZUNE									
				Operator Name						250462	² OC	RID Numbe	r
			Na	del and Gussman PO Box		LLC				258462	3 Д	PI Number	
				Roswell N M						30 – 015 -	,ZØ		
³ Prope	rty Code		$\neg \top$			⁵ Pro	operty Name				\bigcap	⁶ We	ll No
3	830	8	1			Que	rcus 23 State					#	1
			9 P	Proposed Pool 1						-	osed P	ool 2	
70.0	T			Tubb				<u> </u>		F	Blinebry		
[/] Surface								1	· · · · ·				
UL or lot no G	Section 23	Townsh 17S	np	Range 28E	Lot I	dn	Feet from the 1650'		South line RTH	Feet from the 2310'	Eas	t/West line EAST	County EDDY
								1			<u>. </u>		
UL or lot no		Townsh		on If Different	From S		Feet from the	North/	South line	Fact from the	East	st/West line	County
G G	Section 23	178	np	Range 28E	Lot	lun	1650'		RTH	Feet from the 2310'	Eas	EAST	County EDDY
Additiona	al Well	Inform	nati	on									
11 Work	Type Code			12 Well Type Cod	e	[13 Cable/Rotary		14	Lease Type Code		15 Grou	ınd Level Elevation
	N			0			R			S			3644'
	lultiple	1		17 Proposed Deptl	h		18 Formation			19 Contractor			20 Spud Date
	Y	l_		5250		<u> </u>	TUBB			N/A			9/15/10
²¹ Propos	ed Casi	ng and	l C€	ement Progr	am								
Hole S		<u> </u>	Casıı	ng Size	Casing	g weight/fo	ot :	Setting D	epth	Sacks of Co	ement		Estimated TOC
11'	,	 	8 4	5/8"		36#		300	,	185 s	v		Surface
7 7/8				1/2"		5.5#		5250					Surface
	,			-/2		$\cup J.J\pi$		2230		073 8	<u>A</u>		Suracc
		-									-		
	· · · · · ·									 			· · · · · · · · · · · · · · · · · · ·
22 Describe th	ne proposed	i progran	n If	this application i	s to DEEI	PEN or PLI	UG BACK, giv	ve the dat	a on the pr	esent productive z	one an	d proposed	new productive zone
				gram, if any Use							_		
Mud Program												RFC	EIVED
•		pg. 80 – :	55 vi	isc w/ Fresh water	r spud mu	ıd					- [LIVLD
				0 visc, w/ brine /								AUG	27 2010
													· ·
											1	MOCE	ARTESIA
											<u></u>	******	
²³ I hereby cer	tıfy that the	e informa	ation	given above is tr	ue and cor	mplete to the	he						
best of my kno	owledge an	d belief							OIL C	ONSERVAT	LION	I DIVIS	ION
Signature /		4					A = = =	rod by		\sim			
Signature /							Appro	veany	5. (~/	, ,	
Ku	H. C								LUV	XXXX	74		
Printed name							Title /	\mathcal{D}'	10	5 0- 11	-0		
Keith Cannon								1157	Se	Superus			
Title Drilling Super	rintendent						Appro	val Date	14/20		xpıratı	on Date	
E-mail Addres								21/1	1100	-0			-
kcannon@hey		om							-				
Date				Phone			Condi	ions of A	pproval At	tached			*
8/27/2010				575 – 623-660)1								
							KZgh	<i>lm</i>					
							N 911	I IV					

DISTRICT I 1625 N FRENCH DR , HOBBS, NM 88240

Energy, Minerals and Natural Resources Department

Form C-102

Revised October 12, 2005

DISTRICT II 1301 W GRAND AVENUE, ARTESIA, NM 88210

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

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

DISTRICT III 1000 Rio Brazos Rd , Aztec, NM 87410

DISTRICT IV

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

1220 S ST FRANCIS DR, SANTA FE, NM 8750		ACKEAGE DEDICATION I LAT	☐ AMENDED REPORT	
API Number	Pool Code	Pool Name		
30-015-	96210	Empire; Glorieta-Yeso		
Property Code	Pro	perty Name	Well Number	
38308	QUERCU	QUERCUS 23 STATE		
OGRID No.	Оре	rator Name	Elevation	
<u>25</u> 8462	NADEL AND GU	SSMAN HEYCO, LLC	3644'	

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	23	17-S	28-E		1650	NORTH	2310	EAST	EDDY

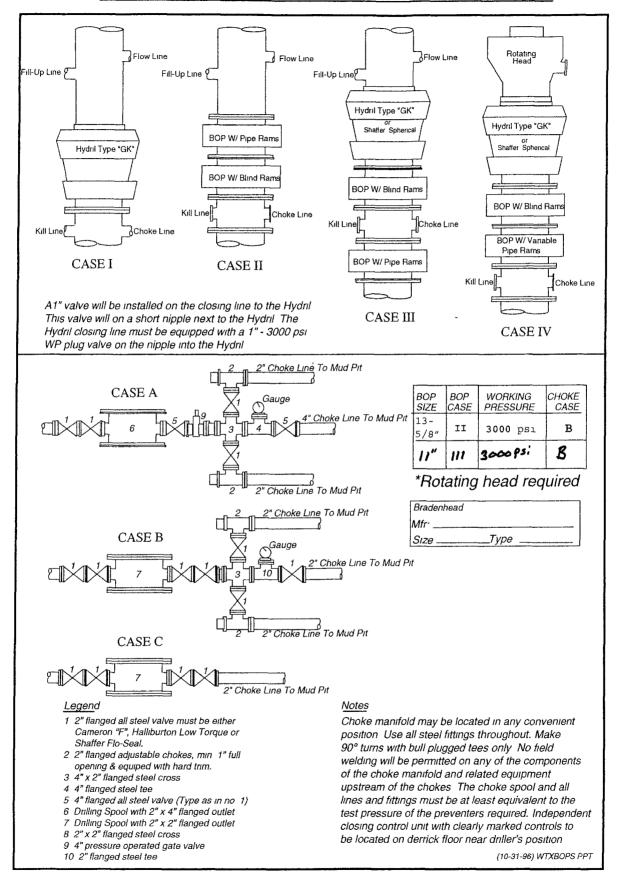
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	23	17s	28E		1650	North	2310	East	Eddy
Dedicated Acre	s Joint o	r Infill Co	nsolidation	Code Or	der No			1	
40									

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED

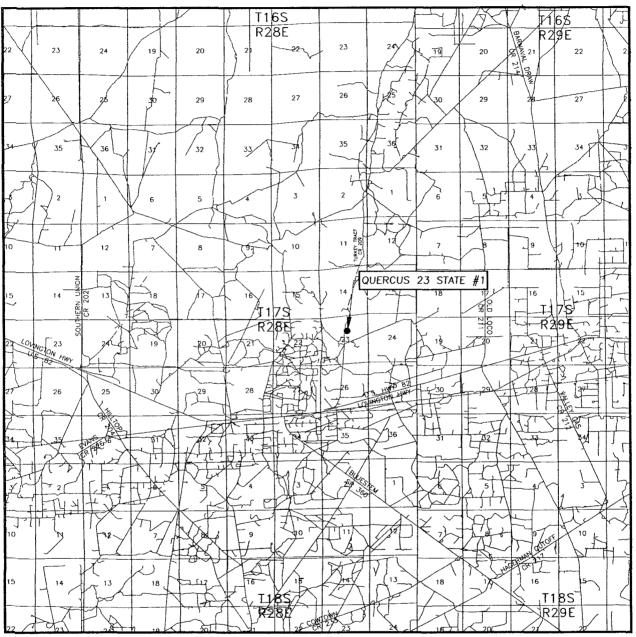
OR	A NON-STANDARD UNIT HAS BE	EN APPROVED BY THE	DIVISION
	B-8617-1	2310'	OPERATOR CERTIFICATION I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division
	GEODETIC COORDINATES NAD 27 NME Y=663264 4 N X=557742 8 E LAT =32.823260 N LONG =104 145364 W		I bereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief AUSUST 18, 2010 Date Surveyed EIDS LA Signature & Seaf or Professional Surveyor Certificate No GARY EIDSON 12641

Nadel and Gussman Heyco, LLC MINIMUM BLOWOUT PREVENTER REQUIREMENTS



FROM THE INTERSECTION OF ST. HWY. #82 AND Scale 1"=100' NADEL AND GUSSMAN HEYCO L				600'		
ORECTIONS TO LOCATION LONG. = 104.145364* W LONG. = 104.145364* W 150' SOUTH OFFSET 3649 1' 150' SOUTH OFFSET 3649 2' LOCATEO 1650 FEET FROM THE NORTH LINE AND 2310 FEET FROM THE MORTH LINE AND 2310 FEET FROM THE FORTH LINE OF SECTION 23, TOWNSHIP TO SOUTH, AND EDBY COUNTY, NEW MEXICO Survey Date 8 891/200 Sheet 1 of 1 Sheet WAS MURDLEY 101 LIJUS DE BOLL 1 of 1 Sheet WAS MURDLEY 101 LIJUS DE BOLL 1 of 1 Sheet AND 2310 FEET FROM THE FORTH LINE OF SECTION 23, TOWNSHIP TO SOUTH AND EDBY LIJUS DE BOLL 1 of 1 Sheet AND 28 10 FEET FROM THE FORTH LINE OF SECTION 23, TOWNSHIP TO SOUTH AND EDBY LIJUS DE BOLL 1 of 1 Sheet AND 29 10 FEET FROM THE FORTH LINE OF SECTION 23, TOWNSHIP TO SOUTH AND EDBY LIJUS DE BOLL 1 of 1 Sheet AND 29 10 FEET FROM THE FORTH LINE OF SECTION 24, AND 29 10 FEET FROM THE FORTH LINE OF SECTION 24, AND 29 10 FEET FROM THE FORTH LINE OF SECTION 24, AND 29 10 FEET FROM THE FORTH LINE OF SECTION 24, AND 29 10 FEET FROM THE FORTH LINE OF SECTION 24, AND 29 10 FEET FROM THE FORTH LINE OF SECTION 24, AND 29 10 FEET FROM THE FORTH LINE OF SECTION 24, AND 29 10 FEET FROM THE FORTH LINE OF SECTION 24, AND 29 10 FEET FROM THE FORTH LINE OF SECTION 24, AND 29 10 FEET FROM T	PF		C	0FFSET 3640 0'		
DIRECTIONS TO LOCATION FROM THE INTERSECTION OF ST. HWY. #82 AND Score 1"=100' WADEL AND GUSSMAN HEYCO, L OUERCUS 23 STATE #1 WELL LOCATED 1650 FEET FROM THE AST LINE OF SECTION 23, TOWNSHIP 17 SOUTH, RANGE 28 EAST, N M P M , SINCE 1946 HOBBS, N M 88240 WA O Number 10 11 113 OF St. IA ROLL 113 OF ST. IA ROLL 11 113 OF ST. IA	,009	OFFSET 🗆	ELE LAT.=3	○ V. 3644.2' 2.823260° N	□ OFFSET	,009
PROVIDING SURVEYING SERVICES SINCE 1946 JOHN WEST SURVEYING COMPANY 412 N DAL PASO HOBBS, N M 88240 100 0 100 200 Feet Scale 1"=100' NADEL AND GUSSMAN HEYCO, L QUERCUS 23 STATE #1 WELL LOCATED 1550 FEET FROM THE NORTH LINE AND 2310 FEET FROM THE EAST, N M P M, EDDY COUNTY, NEW MEXICO Survey Date 8/18/10 Sheet 1 of 1 Sheet W.O. Number 10 11 1103 Or Rev. 14 A Rev. 1 N/A			0	' SOUTH FFSET		
FROM THE INTERSECTION OF ST. HWY. #82 AND SCO RD #209 (TURKEY TRACT), GO NORTH CO. RD FACO RD #200 (TURKEY TRACT), GO NORTH CO. RD FACO RD #200 (TURKEY TRACT), GO NORTH CO. RD FACO RD #200 (TURKEY TRACT), GO NORTH CO. RD FACO RD #200 (TURKEY TRACT), GO NORTH CO. RD FACO RD #200 (TURKEY TRACT), GO NORTH CO. RD FACO RD #200 (TURKEY TRACT), GO NORTH CO. RD FACO RD #200 (TURKEY TRACT), GO NORTH CO. RD FACO RD #200 (TURKEY TRACT), GO NORTH CO. RD FACO RD #200 (TURKEY TRACT), GO NORTH CO. RD FACO RD #200 (TURKEY TRACT), GO NORTH CO. RD FACO RD #200 (TURKEY TRACT), GO NORTH CO. RD FACO RD #200 (TURKEY TRACT), GO NORTH CO. RD FACO RD #200 (TURKEY TRACT), GO NORTH CO. RD FACO RD #200 (TURKEY TRACT) FACO RD #200 (TURKEY				600'		
QUERCUS 23 STATE #1 WELL LOCATED 1650 FEET FROM THE NORTH LINE AND 2310 FEET FROM THE EAST LINE OF SECTION 23, TOWNSHIP 17 SOUTH, RANGE 28 EAST, N M P M, EDDY COUNTY, NEW MEXICO Survey Date 8/18/10 Sheet 1 of 1 Sheet HOBBS, N M 88240 W.O. Number: 10.11.1103 Or Rev. 14	ROM THE INTER O RD #209 (1209 APPROX	RSECTION OF ST. HWY. (TURKEY TRACT), GO N. 1 6 MILES THE LOCATI	ÖRTH CO. RD	HHHH	Scale 1"=100'	200 Feet
HOBBS, N.M. 88240 W.O. Number: 10.11.1103 Or Rv. 14 Pour 1.N/A		PROVIDING SURVEYING SEI SINCE 1946 HN WEST SURVEYING O		LOCATEL AND 2310 FE TOWNSHIP	QUERCUS 23 STATE #1 W. D 1650 FEET FROM THE N EET FROM THE EAST LINE 17 SOUTH, RANGE 28 EA EDDY COUNTY, NEW MEXIC	ELL ORTH LINE OF SECTION 23, ST, NMPM,
		412 N DAL PASO HOBBS, N.M. 8824				

VICINITY MAP



SCALE. 1" = 2 MILES

SEC. 23 TWP 17-S RGE 28-E

SURVEY NMPM

COUNTY EDDY STATE NEW MEXICO

DESCRIPTION 1650' FNL & 2310' FEL

ELEVATION 3644'

NADEL AND
OPERATOR GUSSMAN HEYCO, LLC

LEASE QUERCUS 23 STATE

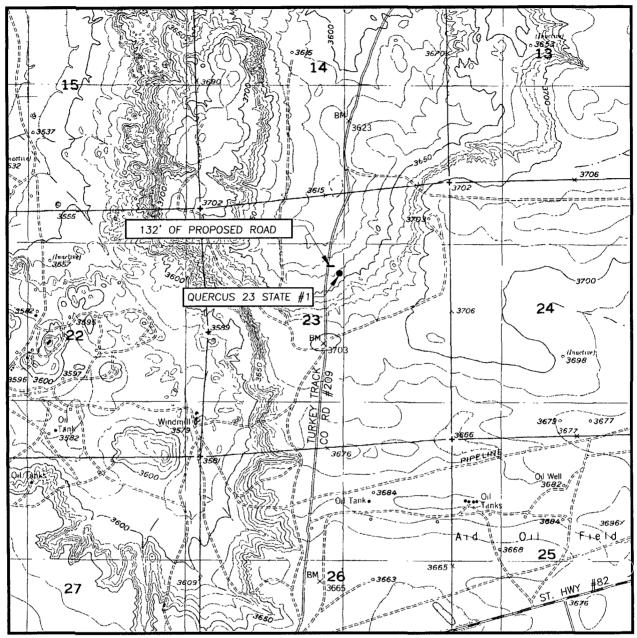


PROVIDING SURVEYING SERVICES
SINCE 1946

JOHN WEST SURVEYING COMPANY
412 N DAL PASO
HOBBS, N M. 88240
(575) 393-3117



LOCATION VERIFICATION MAP



SCALE 1" = 2000'

SEC <u>23</u> TWP <u>17-S</u> RGE <u>28-E</u>

SURVEY___NMPM

COUNTY__EDDY__STATE_NEW_MEXICO

DESCRIPTION 1650' FNL & 2310' FEL

ELEVATION 3644'

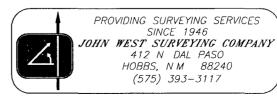
NADEL AND OPERATOR GUSSMAN HEYCO, LLC

LEASE QUERCUS 23 STATE

U.S.G.S. TOPOGRAPHIC MAP

RED LAKE, N.M

CONTOUR INTERVAL RED LAKE, N M - 10' RED LAKE SE, N M - 10'





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

4/30/10

Miss Reeves District 2 Geologist New Mexico Oil and Gas Division 1301 West Grand Avenue Artesia, NM 88210

Re: Quercus 23 State #1 1650' FNL & 2310' FEL Unit Letter G, Sec. 23, T17S, R28E Eddy, NM Rule 118 H2S Exposure

Dear Miss. Reeves

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 Quercus 23 State #1 UNIT G, Sec 23, T17S, R28E 1650' FNL & 2310' FEL Eddy Co. N.M.

- 1. Company and contract personnel admitted on location should be trained by a qualified H₂S safety instructor to the recognize and handle following:
 - A. Characteristics of H₂S gas
 - 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 knowledge
 - E. Evacuation procedure, routes and first aid support
 - F. Proper use of 30 minutes Pressure-on-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 (high enough to be visible)
 - B. Windsock at briefing area (high enough to be visible)
 - C. Windsock at location entrance
- 4. Condition Flags and Signs
 - A. H₂S warning signs on lease access road into location
 - B. Flags displayed on sign at location entrance
 - 1. Green flag indicates "Normal Safe Conditions"
 - 2. Yellow Flag indicates "Potential Pressure and Danger"
 - 3. Red Flag indicates "Danger H₂S Present in High Concentrations" admit only emergency personnel
- 5. Well Control Equipment
 - A. See Exhibit #5.
- 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 radios or cell phones used to communicate off location or minimally in Drilling Foreman's trailer or living guarters
- 7. Drillstem Testing
 - A. Exhausts watered
 - B. Flare line equipped with electric Igniter/propane pilot light in case gas reaches surface
 - C. If location near dwelling closed DST will be performed
- 8. Drilling Supervisor required to be familiar with effects of H₂S on tubular goods/mechanical equipment
- 9. If H₂S encountered, mud system shall be addressed to maintain control of formation. A mud gas separator will be brought into service along with H₂S scavengers, if necessary.

PUBLIC PROTECTION PLAN FOR EMERGENCY CONTACTS

NADEL AND GUSSMAN HEYCO, LLC (575) 623-6601 **Company Personnel Terry West Drilling Enrineer** 432-682-4429 432-238-2874 Keith Cannon **Drilling Supt** 575-623-6601 575-626-1936 ARTESIA N.M. Ambulance 911 State Police 575-746-5000 City Police 575-746-5000 Sheriff's Office 575-746-9888 Fire Department 575-746-5050 or 575-746-5051 N.M.O.C.D 575-748-1283 CARLSBAD N.M. **Ambulance** 911 State Police 575-885-3137 City Police 575-885-2111 Sheriff's Office 575-887-7551 Fire Department 575-885-3125 or 575-885-2111 Carlsbad BLM 575-887-6544 HOBBS N.M. Ambulance 911 State Police 575-392-5588 City Police 575-397-9265 Sheriff's Office 575-396-3611 Fire Department 575-397-9308 N.M.O.C.D 575-393-6161 Hobbs BLM 575-393-3612 Flight for Life (Lubbock Tx) 806-743-9911 Aerocare (Lubbock Tx) 806-747-8923 Med flight air Ambulance (Albug NM) 505-842-4433 SB air Med Services (Albug NM) 505-842-4949 **Boots & Coots IWC** 800-256-9688 or 281-931-8884 **Cudd Pressure Control** 915-699-0139 or 915-563-3356 **BJ Services** (Artesia NM) 575-746-3569

(Hobbs NM)

New Mexico Emergency Response Commission (Santa Fe)

New Mexico State Emergency Operations Center

24 Hour

575-392-5556

505-476-9600

505-827-9126

505-476-9635