			HOBBS	000				1
Form 3160 -3 (April 2004)			SEP 21	2015		M APPROVE No. 1004-013 s March 31, 3		
	UNITED STAT DEPARTMENT OF THI BUREAU OF LAND MA	E INTERIOR	OCD Hobi		5. Lease Serial N NMNM-572	0.		2
APF	PLICATION FOR PERMIT TO				6. If Indian, Allot N/A	ee or Tribe	Name	
la. Type of work:	DRILL REEN	TER.			7. If Unit or CA A	greement, N	ame and No	),
	Oil Well Gas Well Other		anta Zana 🔲 Matri	1. 7	N/A 8. Lease Name an			3
2. Name of Operator			ngle Zone Multi	ple Zone	9. API Well No.		EDERAL	, 1 <b>П</b>
3a. Address P.O. BOX	NADEL AND GUSSMAN HEYCO,	<u> </u>	(include area code)		<b>30-024</b> 10. Field and Pool, c		804	<u> </u>
	L NM 88202		3-6601		LEA., BONI	•	· /_	379
	ort location clearly and in accordance with 2590' FNL, 510' FEL, UL H; SE(		/		11. Sec., T. R. M. or	Blk. and Su	rvey or Are	a
At surface At proposed prod. zon	2310' FSL, 510' FEL UL I; SEC				SECTION 2	7, T-19-S,	R-34-E	
	irection from nearest town or post office* I OF HOBBS NEW MEXICO			·····	12. County or Parish LEA	1	13. State N	 M
15. Distance from proposed location to nearest	d* 510' FSL	16. No. of a	cres in lease	17. Spacir	ng Unit dedicated to this	s well		
property or lease line, f (Also to nearest drig. u	ft. nit line, if any) <b>510'</b>	1280		160 A	ACRES TOTAL			
<ol> <li>Distance from proposed to nearest well, drilling, applied for, on this leas</li> </ol>	completed.	TVO-10			BIA Bond No. on file 000520			
21. Elevations (Show whe 3741' GL	ther DF, KDB, RT, GL, etc.)	22 Approxim	11, 190' nate date work will sta 07/01/2012	l rt*	23 Estimated durat 45 DAYS	ion		
<u></u>		24. Attac			· · · ·			
The following, completed in	accordance with the requirements of Onsl	nore Oil and Gas						
<ol> <li>Well plat certified by a r</li> <li>A Drilling Plan.</li> </ol>	egistered surveyor.	-	<ol> <li>Bond to cover the Item 20 above).</li> </ol>	ne operatio	ons unless covered by a	an existing l	ond on file	e (see
3. A Surface Use Plan (if	the location is on National Forest System h the appropriate Forest Service Office).	m Lands, the	<ol> <li>Operator certific</li> <li>Such other site authorized offic</li> </ol>	specific info	ormation and/or plans	as may be r	equired by	the
25. Signature	11		(Printed/Typed) KEITH CANNON			Date	01/2013	
Title DRULING	G SUPERINTENDENT				. <u>.</u>			
	eve Caffey	Name	(Printed/Typed)			DatsE	2 1 7	201
Title	FIELD MANAGER	Office	CARLS	SBAD FI	ELD OFFICE			
	fot warrant or certify that the applicant ho	lds legal or equit	able title to those righ		oject lease which would			
Title 18 ITS C. Section 1001	and Title 43 U.S.C. Section 1212, make it a fraudulent statements or representations a	crime for any pe s to any matter w	rson knowingly and within its jurisdiction.					
*(Instructions on page 2)			K# 19/21					
,			. 100		4			

SEE ATTACHED FOR CONDITIONS OF APPROVAL

Approval Subject to General Requirements & Special Stipulations Attached

SEP 2 3 9115

## DRILLING AND OPERATIONS PLAN NADEL AND GUSSMAN HEYCO, L.L.C. HARLEQUIN 27-22 FEDERAL #1H

Surface: 2590' FNL & 510' FEL UL H Sec 27, T-19-S, R-34-E BHL: 2310' FSL & 510' FEL UL I Sec 22, T-19-S, R-34-E Lea County, New Mexico.

ELEVATION: GL 3,741'

**GEOLOGICAL NAME OF SURFACE FORMATION: QAL / VESITATED** 

Type of Well: Horizontal

**PROPOSED DRILLING DEPTH:** 15,190' MD, 10,800 TVD, Kick off point at ~10,300', drill lateral to 15,190' see directional plan: Exhibit #2, Vertical TD of possible pilot hole 11,190ft.

#### TOPS OF IMPORTANT GEOLOGICAL MARKERS: TVD

Rustler 1805' Top Salt 1,930' BX (base salt) 3,340' 3,590' Yates Seven Rivers 4,080' Bowers 4,460' Queen 4,655' 4,900' Penrose 5,075' Grayburg

5,435'	
5,640'	
8,195'	
9,525'	
9,835'	
10,015'	
10,300'	
10,440'	10,435'
10,650'	10,625'
11,010'	10,840'
11,200'	10,870'
15,190'	10,800'
11,190'	
	5,640' 8,195' 9,525' 9,835' 10,015' 10,300' 10,440' 10,650' 11,010' 11,200' 15,190'

#### Estimated Depth of Anticipated Water, Oil or Gas:

Rustler	1805'	Water
Yates	3,590'	Oil
Delaware	5,640'	Oil
Bone Springs	8,195'	Oil
1 <sup>st</sup> Sand	9,525'	Oil
2 <sup>nd</sup> Sand	10,015'	Oil
3rd Sand	10,650'	Oil

No other formations are expected to yield oil, gas or fresh water in measurable volumes. The surface fresh water will be protected by setting 13 3/8" casing at 1858" and circulating cement back to surface, all other intervals will be isolated by the 9 5/8 intermediate and 7" production casing.

-190

• Option 1: No pilot hole. Drill to kick off point of 10,300' vertically and drill horizontally at 10,870' TVD to BHL TVD 10,800' at 2310' FSL and 510' FEL in Section 22, T19S, R34E, in Bone Springs "3rd Sand".

• **Option 2:** Drill vertically to 11,190', open hole log, spot bottom plug & kick off plug and kick off to TVD revised by open hole proposed at this time in Bone Springs "3rd sand".

		PROGRAM:					
See	COA	Proposed Casir	ng Program				
	HOLE SI Conduc 17.5" 12.25" 8.75" 6.125"	tor 20" (ne 13 3/8" (ne 9 5/8" (ne 7" (new 4 1/2" (ne	ew) 94# H-40 ew) 54.5# J-5 w) 36# J-55 v) 26# P-110H ew) 13.5# P-110H	8rd ST 5 8rd ST 8rd LT IC 8rd BT IC 8rd LT	C C C C C 10,20	NG DEPTH (MD) 60' 1,855' 4,000' 11,100' 90'-15,190'	TOP CEMENT Surface Surface 3,500' 10,200'
		.5" casing will be a	set at 10,200 MD wi	th Baker Liner H Burst 1.125	Hanger/packer w		·
		SING WILL BE NEW					
			MENT BLENDS WILL I	BE TESTED TO B	LM MINIMUM REQ	UIREMENTS.	
		13 3/8"	SURFACE		IT TO SURFACE		OVER CALCULATED
						S "C" +4% Benton Defoamer, 13.5 ppc	ITE +2% CACL +.25# G, 1.75 YIELD
				TAIL: FLAKE		CLASS "C"+2%C R, 14.8 PPG, 1.35 Y	
	В.	9 5/8"	INTERMEDIATE	CEMEN	IT TO SURFACE	50% EXCESS O	VER CALCULATED
		•		LEAD SALT+.		CLASS "C" 35/65 12.8 PPG, 1.9 YIELD	+6% BENTONITE+5%
				TAIL 2 YIELD	50 SACKS CLASS	"C" + .25% DEFO/	AMER, 14.8 PPG, 1.33
	C.	7"	PRODUCTION		•	. RUN FLUID CALIPEF <b>0% over calcula</b> '	•
				P/H+5 PF13( PF29(	RETARDER)+0.5 CELLOFLAKE)+	5%PF79(EXTENDE	OAMER)+3#/SK,PF
				PF65(	50,SACKSCLASS"H DISPERSANT)+1 IELD, H2O 5.228	H"+0.1% 0.3%PF13(RETAR	DER), 15.6 ppg,

D. 4.5"

LINER:

600 SACKS 50/50 P/ H, 2% PF20(BENTONITE)+0.4#/SKPF46 (DEFOAMER)+0.7%PF606(GAS MIGTRATION/FLUID LOSS) +0.2%PF65(DISPERSANT)+0.2%PF153(ANTISETTLING AGENT )+0.1%PF13(RETARDER) 14.4 PPG, YIELD 1.26, H2O 5.538

EXCESS AND ADDITIVES AS RECOMMENDED BY CEMENT COMPANY DETERMINED BY WELLBORE CONDITIONS

See COA Frindry required

PILOT HOLE PLUGS (OPTION 2)

D. BOTTOM HOLE PLUG: YIELD, ADDITIVES AS 50% EXCESS 100 SACKS CLASS H, 2%CACL+1.5%CD-32, 16.5 PPG, 1.05 RECOMMENDED BY CEMENT COMPANY

E. KICK OFF PLUG 225 SACKS CLASS H, 2%CACL+1.5%CD-32, 16.5 PPG, 1.05
 YIELD. ADDITIVES AS RECOMMENDED BY CEMENT
 COMPANY 100% EXCESS, THICKENING TIME (113 DEG F) 2, COMPRESSIVE STRENGTH PSI 3700

#### SPECIFICATIONS FOR PRESSURE CONTROL EQUIPMENT: (EXHIBIT #5)

A 2000# WP Annular will be installed after running the 13-3/8" casing. A 3,000# WP Double Ram BOP and 3,000 annular will be installed after running the 9-5/8" and 7" casing. Pressure test will be conducted prior to drilling out under all casing strings. BOP controls will be installed prior to drilling under surface casing and will remain in use until completion of drilling operations. BOP's will be inspected and operated as recommended in Onshore Order #2. A Kelly cock and a sub equipped with a full opening valve sized to fit the drill pipe and collars will be available on the rig floor in the open position when the Kelly is not in use. 7" and 9-5/8" casing will be tested to 3000# and the annular to 1500# with a third party testing company before drilling below each shoe. If operations last more than 30 days from 1<sup>st</sup> test, will test again as per BLM Onshore Oil and Gas order #2, this pressure control system will be used for both well options without pilot hole (option 1) or with pilot hole (option 2).

#### MUD PROGRAM:

Spud and drill 17 1/2" surface hole with fresh water (8.4 to 8.7 ppg) to a depth of approx 1-855'. Control lost circulation with paper and LCM pills. Viscosity 28-55, no fluid loss control. Fresh water gel sweeps.

Drill 12 <sup>1</sup>/<sub>4</sub>" hole from <u>1</u>/855" to 4,000' with Brine (9.5 to 10.0 ppg). Control lost circulation with paper and LCM pills. Viscosity 28-30, no fluid loss control. Salt water gel sweeps.

Drill 8 ¾" production hole from 4,000' to **11,100**' with **fresh water (8.4 to 8.7 ppg) or cut brine (8.4 to 9.0 ppg)**. Control lost circulation with paper and LCM pills. From 8100' to TD (8.7 to 9.0 ppg), control filtrate with starch and water loss additives. Clean hole with pre-hydrated freshwater gel sweeps, as necessary. System properties: viscosity 32-24, fluid loss <20 ml/30min.

Drill 6 1/8" production hole from 11,100'-TD' with **fresh water (8.4-8.7 ppg)**, control filtrate and increase viscosity with Xanthan gum and Poly Anionic Cellulose. Clean hole with high viscosity sweeps and lubricants as necessary. System Properties viscosity 32-34, fluid loss <20 ml/30min.

All necessary mud products for weight addition and fluid loss control will be on location at all times. Mud program subject to change due to hole conditions. A PVT will be used to monitor the mud system

#### Mud monitoring system:

Mud will be maintained and checked daily for mud weight, viscosity, API water loss, pH, etc. Additional electronic monitoring will include a pit volume totalizer to monitor mud volume in active system, pump rate, and mud return flow percentage. H2S monitors will be located on rig floor, shale shakers, and mud tanks. Gas chromatograph with monitor hydrocarbon gas content of mud from 4,000' to TD.

#### Auxiliary Equipment

- A Kelly cock will be in the drill string at all times. BOP and fittings must be in good condition with minimum of 2000 psi working pressure on 13-3/8" casing and 3000 psi working pressure on 9-5/8" and 7" casing.
   Accumulator will be at least 40 gallon capacity with 2 independent sources of pressure on closing unit and meet all other API specifications.
- B. A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor at all times with 3000 psi working pressure.
- C. Hydrogen Sulfide detection equipment will be in operation after drilling out the 13 3/8" casing shoe until the 4 ½" liner is run and set and rigging down operations have begun.

#### **TESTING, LOGGING & CORING PROGRAM:**



- a. Testing: No DST's are expected.
- b. Open hole logs are planned at KOP (10,300) TD of vertical hole in option #1. Open hole logs are also planned for option #2 to 11,190ft TD of vertical pilot hole.
  - 1. Halliburton Triple Combo, for option #1 and #2.
- c. Mud logging will take place from 4,000ft to TD 10ft samples
- d. Gyro survey will be run at KOP of 10,300'
- e. MWD (directional) and LWD (gamma) surveys will be taken from KOP (10,300') to TD

#### POTENTIAL HAZARDS:

No significant hazards are expected to MD of 15,190ft, no abnormal pressures or temperatures are expected, **Expected pressure gradient will be that of .433 psi/ft (8.33 PPG FW) or lessgine expected temp & pressure 130 deg, 4845psi..** Lost circulation may occur, H<sub>2</sub>S is expected in the Queen, NGH will utilize a 3<sup>rd</sup> party H<sub>2</sub>S monitoring package from 1855<sup>--</sup> to TD. If H2S is encountered the operator will comply with the provisions of onshore oil and gas order no 6. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. [900]'

#### **ANTICIPATED STARTING DATE & DURATION:**

Nadel & Gussman HEYCO, LLC anticipates drilling operations to begin ASAP after receiving approved APD. Expected time to complete is approximately 45 days. An additional 15 days will be needed for completion activities. Road and location construction will begin after the BLM has approved the APD.

Keith Cannon, Drilling Superintendent Nadel & Gussman HEYCO, LLC 6/7/2013 Date

15190.0	1\$000.0	14500.0	14000.0	13500.0	12500.0	12000.0	11750.0	11500.0	11100.0	11000.0	10900.0	10800.0	10700.0	10600.0	10500.0	10400.0	10300.0		(ft)	MEAGUMED		Harlaquin 27-22 Faderai 61	Nadel and Guasman HEYCO	10000.0	9500.0	0,0006	3500.0	8000.0	7500 0	7000.0	8500 D	5500,0	5000.0	0,000F	4000.0	3500.0	3000.0	2500.0	2000.0	1.1	(h)	MEASURED			TIE IN POINT		•			COMPANY:				PLANNED KOP:	PLANNED HZ LENGTH:	TARGET ANGLE		SEC TOWNSHIP RANGE	SURFACE LOCATION: 2310' FNL & 510' FEL	WELL NAME:	,			
91.1	91,D	91.1	91.0	91.0 91.1	91.1	91.0	91.1	01 n	80.0	70.0	60.0	50.0	40.0	30.0	20.0	10:0	i.e		Although 1				YCO	1.1	1.1	1.0	1.0	0.9	9 9	0.8		0.7	9.0	0.0	0.5	0,5	0.4	0.4	0,3			ANGLE								0				10300 FT	4620 FT	10800 FT		27 195	2310' FNL 8	Harlequin 2				
0.0	0.1	0.0	0.1	0,1	0.0	0.1	0.0	2.0	0.1	0.0	0.1	0.0	0.1	0.D	0,1 1	0.0	5.0		(dennar)					10.0	15.0	20.0	25.0	30.0		40.0	150.0	65.0	75.0	85.0	95.0	105.0	115.0	125.0	135.0		(degrees)				1800.00		•							TVD		TVD OTO		й s	510 FEL	7-22 Feder				7
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10801.9	10805.4	10814.6	10823.7	10842.1	10851.2	10860,4	10865.0	10969 5	10883.5	10837,6	10795.4	10738.1	10667.5	10585.7	10495.2	10398.7	10299.3		1.V.D.					9999.3	9499.4	8999.5	8499.6	7999 6	7/00 7	0,881.0	5,999 s	5499.9	4999,9	4499.9	6 9665	3500.0	3000.0	2500.0	2000.0	141		TVD			145.00	HLOWIZ'		70	FROM			BEGINNING SUBVEY											ONTAL W	d Gussr
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0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	10.0	10.0	10.0	10.0	10.0	10,0	10.0	80	•	(not dian)	HATE	anina		11/13/12	DATE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0,0	0.0	0,0	Ó.O	0.0	0,0	0.0	(aegricul)	RATE	BUILD																					11/18/12	NATE
Page 1									,																				15190	15000	14500	14000	13500	13000	12500	12000	11750	11500	11200	1100	10900	10800	10700	10600	10500	10300	10000	9500	0000	8500	8000	7000	6500	6000	5500	4500	400u	3500	3000	2500	1800	MO		
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01	9	0	- 	0	0	0 0	- 	. 0	0	0	0	\$	0	0		5 0	, .	- 	0	0	•	0	o	0	0 0			, 0	4622.528		ω	3432.729	2932.813	2432.897	1932.981	1433.066	1183,108	933-15	632 1860	437.2023	346,6865	264,8764			00.91212	59.21945	53.38159	44.22626			20 88216		3.551165	-0.51037			-6.18505		-4.1993	-0./4441	-0.01	+N-S		







#### Well HARLEQUIN 27/22 FEDERAL 1H

2590' FNL, 510 FEL, Sec. 27, 195, 34E

LEA County New Mexico

## Nadel and Gussman HEYCO, L.L.C. BOP Scematic 8.75" & 6.125" hole



# **CLOSED-LOOP SYSTEM**

## **Design Plan:**



### **Operating and Maintenance Plan:**

During drilling operations, third party service companies will utilize solids control equipment to remove cuttings from the drilling fluid and collect it in haul-off bins. Equipment will be closely monitored at all times while drilling by the derrick man and the service company employees.

## **Closure Plan:**

During drilling operations, third party service companies will haul-off drill solids and fluids to an approved disposal facility as noted on the C-144 form. At the end of the well, all closed loop equipment will be removed from the location.

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 1301 W. Grand Avenue, Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Road, Aztec, NM 87410 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505	State of New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505	Form C-144 CLEZ July 21, 2008 For closed-loop systems that only use above ground steel tanks or haul-off bins and propose to implement waste removal for closure, submit to the appropriate NMOCD District Office.
<u>(that only use above ground st</u> Instructions: Please submit one application (Form closed-loop system that only use above ground steel Please be advised that approval of this request does not	Op System Permit or Closure Plan         eel tanks or haul-off bins and propose to implem         Type of action:       ☑ Permit □ Closure         C-144 CLEZ) per individual closed-loop system request         tanks or haul-off bins and propose to implement waste         relieve the operator of liability should operations result in	nent waste removal for closure) t. For any application request other than for a removal for closure, please submit a Form C-144. n pollution of surface water, ground water or the
environment. Nor does approval relieve the operator of I. Operator: Nadel and Gussman HEYCO, LLC Address: P.O Box 1936, Roswell NM 88202 Facility or well name: Harlequin 27/22 Federal #1H API Number:	OCD Permit Number: 19 S Range 34E County: Eddy Longitude 103.540651° W NAD: 🖾 1927 🗖	
Z.     Closed-loop System: Subsection H of 19.15.1     Operation:    Drilling a new well    Workover or     Above Ground Steel Tanks or    Haul-off Bins     Signs: Subsection C of 19.15.17.11 NMAC     12"x 24", 2" lettering, providing Operator's name	Drilling (Applies to activities which require prior ap	proval of a permit or notice of intent)
Instructions: Each of the following items must be attached.         ☑       Design Plan - based upon the appropriate req         ☑       Operating and Maintenance Plan - based upon	n the appropriate requirements of 19.15.17.12 NMAC d upon the appropriate requirements of Subsection C sign) API Number:	eck mark in the box, that the documents are
5. Waste Removal Closure For Closed-loop System Instructions: Please indentify the facility or facility facilities are required. Disposal Facility Name: CRI Disposal Disposal Facility Name: GMI Disposal I	s That Utilize Above Ground Steel Tanks or Haul- ties for the disposal of liquids, drilling fluids and dri Facility Permit Number: NM-01-0006 Facility Permit Number: NM-01-0019 ions and associated activities occur on or in areas that	ll cuttings. Use attachment if more than two
Required for impacted areas which will not be used Soil Backfill and Cover Design Specification Re-vegetation Plan - based upon the appropri		AC

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6. Operator Application Certification:
I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.
Name (Print): Keith Cannon Title: Drilling Superintendent
Signature: Date: 6/7/2013
e-mail address kcannon@heycoenergy.com Telephone: (575) 623-6601
7. OCD Approval: Permit Application (including closure plan) Closure Plan (only)
OCD Representative Signature: Approval Date:
Title: OCD Permit Number:
8. <u>Closure Report (required within 60 days of closure completion)</u> : Subsection K of 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.
Closure Completion Date:
9. <u>Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only</u> : Instructions: Please indentify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities were utilized.
Disposal Facility Name: Disposal Facility Permit Number:
Disposal Facility Name: Disposal Facility Permit Number:
Were the closed-loop system operations and associated activities performed on or in areas that <i>will not</i> be used for future service and operations? Yes (If yes, please demonstrate compliance to the items below) No
Required for impacted areas which will not be used for future service and operations:         Site Reclamation (Photo Documentation)         Soil Backfilling and Cover Installation         Revegetation Application Rates and Seeding Technique
10. Operator Closure Certification: I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.
Name (Print): Title:
Signature: Date:
e-mail address: Telephone: