	×.,		14. French Dri 555, NM 252 49				
Form 3160-3 (February 2005)		×.			OMBN	APPROVED Jo. 1004-0137 March 31, 2007	
	UNITED S DEPARTMENT OF BUREAU OF LAN	THE INTE			5. Lease Serial No.	021097	A
API	PLICATION FOR PERM				6. If Indian, Allote	e or Tribe Name	
la. Type of work:	DRILL	REENTER			7 If Unit or CA Agr NM	reement, Name and No. 710.5	
lb. Type of Well:	Oil Well 🔽 Gas Well 🗌 Ot	her	Single Zone Mu	tiple Zone	8. Lease Name and Federal H #2		64
2. Name of Operator	H. L. Brown Operating, L.L.C		(212179	>	9. API Well No. 30 - D 4	1-7093	<u>ч</u>
	, TX 79701	(one No. (include area code) 132) 688-3727		10. Field and Pool, or Bluitt Wolfca		640>
4. Location of Well (Rep At surface	port location clearly and in accordan 660' FN & EL ne same	nce with arry State	equirements 16 17 18 75	200	11 Sec, T. R. M. or I	Blk. and Survey or Area	1
At proposed prod. zon	ne same U	nit A	ANT SA	atry	Sec 5, T-8-S,		
14 Distance in miles and a 10 miles east of M	direction from nearest town or post (ilnesand, NM	office*		324	12. County or Parish Roosevelt	13 State N	M
15. Distance from propose location to nearest property or lease line, (Also to nearest drig, or	ft.	16. N 320	o, of acres in lease We op COD	Q 17. Spacin N 320, /	g Unit dedicated to this /	well	
18. Distance from propose to nearest well, drilling applied for, on this lear	d location* g, completed,	19. P 92	roposed Depth		BIA Bond No. on file		
21. Elevations (Show wh	nether DF, KDB, RT, GL, etc.)		pproximate date work will s		23. Estimated duration	9 n	
4062' GL		24	07/15/2007 Attachments		35 days		
The following, completed i	in accordance with the requirements			attached to thi	s form.		
 Well plat certified by a 2 A Drilling Plan. 	registered surveyor.		4. Bond to cover Item 20 above		ns unless covered by an	existing bond on file	(see
3. A Surface Use Plan (il	f the location is on National Fores ith the appropriate Forest Service O				rmation and/or plans a	s may be required by the	he
25. Signature Cartte	x While		Name (Printed/Typed) Carlton Wheeler			Date 06/13/2007	
Title							
	/S/ Angel Mayes		Name (Printed/Typed)	Angel I	Manes	Date 1	 6 2007
	Title Assistant Field Manager, Lands And Minerals		Office ROSWELL	÷	2	ROVED FOR 2	
Application approval does conduct operations thereon Conditions of approval, if		icant holds legal of	r equitable title to those rig	hts in the subj	ectlease which would e	entitle the applicant to	<u></u>
Title 18 U.S.C. Section 1001	and Title 43 U.S.C. Section 1212, main fraudulent statements or represent	ake it a crime for tations as to any m	any person knowingly and atter within its jurisdiction	willfully to ma	ake to any department of	or agency of the United	 d
*(Instructions on pa							
	SUBJECT TO						
	REQUIREMENTS AN				~ .		
		iviile M			ì		

Form C-102 DISTRICT I State of New Mexico Energy, Minerals and Natural Resources Department Revised October 12, 2005 1625 N. French Dr., Hobbs, NM 88240 DISTRICT II Submit to Appropriate District Office 1301 W. Grand Avenue, Artesia, NM 88210 State Lease - 4 Conies OIL CONSERVATION DIVISION Fee Lease - 3 Copies DISTRICT III 1220 South St. Francis Dr. 1000 Rio Brazos Rd., Aztec, NM 87410 Santa Fe, New Mexico 87505 DISTRICT IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 □ AMENDED REPORT WELL LOCATION AND ACREAGE DEDICATION PLAT Walfcamp (GR) API Number Pool Code Bluit 72640 30-041-20934 Well Number **Property** Code Property 1 2 FEDERAL "H" **Operator** Name Elevation H.L. BROWN OPERATING, LLC 4062 Surface Location Feet from the North/South line Feet from the Section Range Lot. Idn East/West line County UL or lot No. Township ROOSEVELT 5 8 S 37 E 660 NORTH 660 EAST Α Bottom Hole Location If Different From Surface North/South line East/West line UL or lot No. Section Township Range Lot Idn Feet from the Feet from the County Joint or Infill Dedicated Acres Consolidation Code Order No. 32Dac 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 OPERATOR CERTIFICATION 4067.5' 6 4062.9 I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that Mis organization either owns a working interest or unleased mineral interest in the Land including the proposed bottom hole location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order hereiofore entered by the division. 660 4067.4 4066.6' LAT-N33*39'20.7" LONG-W103'10'08.5" Certte (3/07 (NAD-83) Signature Date CARLTON WHEELER Printed Name SURVEYOR CERTIFICATION 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 14, 2007 Date Surveyed Signature singl Saler Profe ŝ 2 7977 es BASENABUT

Supplemental Drilling Data

H. L. BROWN OPERATING, L.L.C. Federal "H" No. 2 660' FN & EL, Sec. 5, Unit A, T-8-S, R-37-E Roosevelt County, New Mexico New Mexico Lease NM - 21097

The following items supplement Form 3160-3 in accordance with instructions contained in onshore Oil and Gas Order No.1:

Overview of Well:

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The proposed well will be drilled to about 9200' to test the Wolfcamp formation. 13-3/8" surface pipe will be set at about 515', 8-5/8" intermediate pipe will be set at 3800' and 5-1/2" production casing will be set at 9200' or less. The Wolfcamp will be perforated and acid stimulated.

1.) Surface Formation: Ogallala

2.) Estimated Top of Geologic Markers:

Yates	2530'
San Andres	3685'
Abo	6990'
Wolfcamp	7950'

3.) Estimated Depths Water, Oil, Gas or Other Mineral Bearing Formations:

Water	None Anticipated
Oil/ Gas	Wolfcamp carbonates at 7950'
Other Minerals	None Anticipated

4.) Proposed Casing and Cementing Program:

Hole	Casing Data				Depth, ft	Cement	Expected Top	
Size, in.	Size	Wt.,#/ft	Grade	Thread	1		of Cement	
17-1/2"	13-3/8"	48	H-40	ST&C	515'	500 sx "C" w/ 2% CaCl ₂ + celloflake	Surface Must circulate	
12-1/4"	8-5/8"	32	J-55	LT&C	3800'	Lead: 1200 sx "C" Poz + 6% gel + celloflake Tail: 300 sx "C" w/ CaCl ₂	Surface Must circulate	
7-7/8"	5-1/2"	17.0 15.5 17.0	J-55 J-55 J-55	LT&C LT&C LT&C	0' - 80' 80' - 6900' 6900' - 9200'	Lead: 1200 sx "H" Poz + 10% gel + 5% salt Tail: 400 sx "H" w/ FLA	3400' ** tie into 8-5/8" casing	

The surface casing string will be tested to 1000 psi. The 5 ¹/₂" casing will be tested to 2000 psi. All casing will be new or used, inspected yellow-band or better.

5.) Pressure Control Equipment:

Pressure control equipment will include a 3000 psi WP blowout preventer stack, sour trim, with both pipe rams and blind rams. Above BOP stack will be an annular BOP, 3000 psi WP with sour trim. Below the double BOP stack will be an adapter spool, 3000 psi WP. On one side of the adapter spool will be a kill line with a check valve and a ball valve. The other side will be a choke manifold with a bleed off line. Hydraulic BOP controls will be operated daily (Figures No.5 and No.6).

6.) Circulating Medium:

Depth	Mud Type	Wt. Ib/gal	Viscosity sec/1000cc	Filtrate cc/30min	Remarks
0' - 510'	FW-Gel	8.6-9.0	32-34	NC	<u></u>
510' - 2100'	FW- native	8.6-9.0	2 9 -32	NC	
2100' - 3750'	Cut Brine	9.2-10.3	32-34	NC	Add 2% - 3% oil
3750' - 6800'	FW	8.4-9.2	29-30	NC	
6800' - 7800 '	SW-Gei	9.2-10.3	38-40	NC	Add 5% - 6% oil
7800' - 9200'	SW-Gel	9.2-10.3	38-40	10	Mud up for logs

No abnormal pressures are anticipated. Mud is used for borehole stability and filtrate control and will not be needed for formation pressure control.

7.) <u>Auxiliary Equipment:</u>

- a.) Kelly cock: in mud line above swivel.
- b.) Floats at bit: none planned.
- c.) Mud system monitoring equipment: No automatic equipment planned; will use visual testing and inspection by rig and mud company personnel.

8.) Testing, Logging and Coring Program:

- a.) Samples: Drilling samples will be caught at 10' intervals below 3750'.
- b.) DST and Cores: none planned
- c.) Logging: GR/CNL will be run from surface to TD and the GR/CNL/SDL and DLL/MLL will be run from TD to ~3700' (minimum +).

9.) Abnormal Pressures, Temperature or Hydrogen Sulfide:

None Anticipated.

10.) Completion Equipment:

The completed well will be a flowing gas well (Figure No. 7) with a stack pack for flow control.

11.) Anticipated Starting Date:

Drilling operations are expected to commence by July 15, 2007 and are expected to last 30 days. Completion operations are expected to last 10 days.





Figure No. 5





Figure No. 6

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WELLHEAD DIAGRAM Worksheet supplement for "Application for Permit to Drill or Deepen a Well"	Applicant H.L. Brown Operating L.L.C P.O. Box 2237, Midland Texas 79702
Location: 660'/FN & EL Unit A, Section 5, T-25-S, R- 32-E Roosevelt Co, NM	Well name and number Federal H #2

13 3/8" X 8 5/8" X 5 1/2" X 2 3/8" 3000psi WP

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EXHIBIT A

OPERATORS NAME: <u>H.L. Brown Operating, L.L.C.</u> LEASE NO.: <u>NM-021097A</u> WELL NAME & NO: <u>Federal H #2</u> QUARTER/QUARTER & FOOTAGE: <u>NE¼NE¼ - 660' FNL & 660' FEL</u> LOCATION: <u>Section 5, T. 8 S., R. 37 E.</u> COUNTY: <u>Roosevelt County, New Mexico, NMPM</u>



Submit 3.Copies To Appropriate District Office State of New Mexicol <u>District I</u> Energy, Minerals and Natural F 1625 N. French Dr., Hobbs, NM 88240 District II District II OIL CONSERVATION DIV 1301 W. Grand Ave., Artesia, NM 88210 1220 South St. Francis I District IV 1220 South St. Francis Dr., Santa Fe, NM 87505 Santa Fe, NM	March 4, 2004 WELL API NO. Dr. Dr. State Feb State 6. Federal Oil & Gas Lease No. NM - 12852
SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BA DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SU PROPOSALS.) 1. Type of Well: Oil Well Gas Well Other	CH Federal H 8. Well Number 2
2. Name of Operator H.L. Brown Operating L.L.C 3. Address of Operator	9. OGRID Number 213179 10. Pool name or Wildcat
300 West Louisiana, Midland, Texas 79702	Bluitt Wolfcamp
4. Well Location Unit Letter: A : 660' feet from the North Section 5 Township T-8-S Range R-37-E II. Elevation (Show whether DR, RKE)	NMPM Roosevelt County
4062`GL Pit or Below-grade Tank Application (For pit or below-grade tank closures, a form C-144	must be attached)
Pit Location: ULASect_5Township8-S Range37	
Depth to Groundwater <u>176</u> Distance from nearest fresh water well <u>3/4 mile</u>	
Below-grade Tank Location ULSectTwpRng;fe	et from theline andfeet from theline
12. Check Appropriate Box to Indicate Nature NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK PLUG AND ABANDON REMEDIAL	e of Notice, Report or Other Data SUBSEQUENT REPORT OF: MEDIAL WORK
	MMENCE DRILLING OPNS. PLUG AND
	ABANDONMENT

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103 For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

 \boxtimes

OTHER:

According to the State Land Office files, the closest water depth measurement in Sec 5, T-8-S, R-37-E, at 176'. Six miles to the northeast, the water level is at 159' in Sec 13, T-7 S, R-37-E.

Will use a single layer - 12 mil liner as per BLM and NMOCD requirements.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or belowgrade tank has been/will be constructed or closed according to NMOCD guidelines \square , a general permit \square or an (attached) alternative OCD-approved plan \square .

SIGNATURE (arttmhule	TITLE	Operations Manager	<u> </u>	DATE 6/13/07
Type or print name	Carlton Wheeler	E-mail address:	ccw@hlboperating.com	Telephone No.	432-688-3727

(This space for State use)

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APPPROVED BY	(Au // sellian

OTHER: Construct reserve pit for drilling rig

OC DISTRICT SUPERVISOR/GENERAL MANAGEDATE

Conditions of approval, if any:

JUL 2 0 2007