· · · · · · New Mexic	o Oli Cox	Astrvation Division Divisio Divisio Division Division Division Division Division Div	sion, Di	strict I		
orm 3160-3 eptember 2001) UNITED STATES	OMB	A APPROVED No. 1004-0136 January 31, 2004				
DEPARTMENT OF THE IN BUREAU OF LAND MANAG				5. Lease Serial No LC 061873-B		
APPLICATION FOR PERMIT TO DR		EENTER J	379	6. If Indian, Allott	tee or Tribe Name	
a. Type of Work: 🔽 DRILL 🔲 REENTER	1	``````````````````````````````````````		7. If Unit or CA Ag	greement, Name and No.	
b. Type of Well: 🗹 Oil Well 🗖 Gas Well 🗖 Other	⊠ s	ingle Zone 🔲 Multi	ple Zone	8. Lease Name and Paduca 9 Fe		
L. Brown Operating L.L.C # 213179				9. API Well No. 30 - 025 -	36861	
	3b. Phone No	o. (include area code)		10. Field and Pool, o	or Exploratory	
O. Box 3737, Midland, Texas 79707	432-688			Paduca Delaw		
<ul> <li>Location of Well (Report location clearly and in accordance with a At surface 660' FNL &amp; 660' FWL, Unit D</li> </ul>	ny State requi	irements. *)		Sec 9, T-25-S	or Blk. and Survey or Area	
At proposed prod. zone						
Distance in miles and direction from nearest town or post office*				12. County or Paris	189809+N	
27 miles West of Jal, NM 5. Distance from proposed*	16 No -6	Acres in lease	17 9	Lea 50 g Unit dedicated to thi	in well	
location to nearest property or lease line, ft. 660' (Also to nearest drig. unit line, if any)	16. No. of A 160	Acres in lease	40		is well	
B. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 1320'	19. Propose	d Depth		BIA Bond Ng. on file		
1. Elevations (Show whether DF, KDB, RT, GL, etc.)	5000'	imate date work will s	06797	23. Estimated dura	tion	
3456' GL.	10-01-		start	8 days		
	24. Atta	chments	CARI	SBAD CONTRO	SEED WALER BASIN	
e following, completed in accordance with the requirements of Onshor	e Oil and Gas	Order No.1, shall be at	tached to this	s form:		
Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System I SUPO shall be filed with the appropriate Forest Service Office).		Item 20 above). 5. Operator certific 6. Such other site authorized offic	ation.	• •	an existing bond on file (see s as may be required by the	
Signature	Name	(Printed/Typed) Robert McNaughte	on		Date 7-26-04	
itle						
Operations Manager/ Petroleum Engineer           pproved by (Signature)         /s/ Joe G. Lara	Name	e (Printed/Typed)	/s/ Joe	G. Lara	Data SEP 2004	
ITTELD MANAGER	Offic	e CARI	SBAD	FIELD OFF		
opplication approval does not warrant or certify that the applicant holds I berations thereon.	egal or equita					
itle 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it lates any false, fictitious or fraudulent statements or representations as to			nd willfully	to make to any depart	ment or agency of the United	
Instructions on reverse)						
APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED	$C\Gamma$	CLARED WAT MENT BEHIN SING MUST B	D THE S	PROPERTY N	KZ NO. 213179 10 34006 49460	
		2 		API NO. 30	9/23/04	

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

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

DISTRICT IV 2040 South Pacheco, Santa Fe, NM 87505 State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102 Revised March 17, 1999

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

#### OIL CONSERVATION DIVISION

2040 South Pacheco Santa Fe, New Mexico 87504-2088

□ AMENDED REPORT

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

	Number	- P 1 - 1		Pool Code - 49460			Pool Name Paduca Delaware				
3D-D21 Property (		201	Property Name					vare	Well N		
-240			PADUCA "9" FEDERAL							2	under
ÖGRID No				<u> </u>			ator Nan			Eleva	tion
213179				Н.	L. BF	ROWN	OPERA	TING L.L.C.		345	6'
						Surfa	ce Loc	ation			
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		•	Bot	tom Ho	le Lo	cation ]	f Diffe	erent From Sur	face	1	
UL or lot No.	Section	Townshi	ip Ran	nge Lo	t Idn	Feet fro	om the	North/South line	Feet from the	East/West line	County
Dedicated Acres	s Joint o	or Infill	Consolida	tion Code	Or	der No.				•	·
40											
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		OR .	A NON-	STANDA	RD UN	NIT HAS	BEEN	APPROVED BY	THE DIVISION		
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# MULTI-POINT SURFACE USE AND OPERATIONS PLAN

# H. L. BROWN OPERATING, L.L.C. Paduca Federal "9" No. 2 660' FNL & 660' FWL, Sec. 9, Unit E, T-25-S, R-32-E Lea County, New Mexico New Mexico Lease LC – 061873-b

This plan is submitted with the Application for Permit to Drill the above described well. The purpose of the plan is to describe the location of the proposed well, the proposed construction activities and operations plan, the magnitude of necessary surface disturbances involved, and the procedures to be followed in rehabilitating the surface after completion of the operations so that a complete appraisal can be made of the environmental effects associated with the operation.

- 1. EXISTING ROADS:
  - A. Figure No.1 is a portion of a USGS contour map showing the location of the proposed well as staked. The well is approximately 30 miles west of Jal, NM on State Highway 128 and 5.7 miles south on Lea County Highway #1. From the lease road intersection with the highway, go 1/10 mile west to Cotton Draw Unit No. 34, 1/10 mile southwest to a lease road intersection. Turn right and go ¼ mile west to Cotton Draw Unit (CDU) #14. Go 3/8 of a mile northwest towards the 9L #1 well and behind the west fence line. The proposed new lease access road will branch off to the north about 2/3 mile to the new well.
  - B. **Figure No.1** also shows all existing roads within one-mile radius of the well site. The proposed location is adjacent to the Cotton Draw Unit water flood operated by Sahara.
  - C. The existing roads will be maintained as needed for both drilling and production by offset lease operators.

# 2. PLANNED ACCESS ROADS:

- A. <u>Length and width</u>: New road required will be 12' wide and approximately 1250' long (from #9-1) and will enter the location at the south west corner. This new road is labeled on Exhibit "A". The center line of the proposed new road from the beginning to the wellsite has been staked and flagged with the stakes being visible from any one to the next.
- B. <u>Surfacing material</u>: Six inches of caliche, water, compacted and graded.
- C. <u>Maximum grade</u>: 2 percent.
- D. <u>Turnouts and Culverts</u>: None required.
- E. <u>Drainage design</u>: New road will have a drop of six inches from centerline on each side.

- F. <u>Cuts and Fills:</u> This is relatively flat surface broken by occasional small sand dunes. A slight amount of leveling will be required.
- G. <u>Gates and Cattle Guards</u>: None will be needed.
- 3. LOCATION OF EXISTING WELLS:
  - A. Existing wells within a one-mile (plus) radius are shown on Figure No.2.

# 4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:

- A. Any produced oil and water will be stored in a tank battery to be built on location. We anticipate sending produced water to an existing water disposal line serving the 9L #1 and running south to the Cotton Draw Unit. Gas will be sent down existing sales lines.
- B. We expect this well will be rod pumped. We expect to be able to tie into an existing electrical line serving the 9L #1. This will require that about 2/3 mile of new power line will be constructed. Alternatively, we may run the pumping unit on an Ajax gas engine until fluid production stabilizes.
- 5. <u>TYPE OF WATER SUPPLY</u>:
  - A. Water will be purchased and trucked to location by low bidder.
- 6. <u>SOURCE OF CONSTRUCTION MATERIALS:</u>
  - A. Caliche for surfacing the well pad and access road will be dug from the reserve pit. Additional caliche will be transported from an approved pit located in the NW/4 of the NE/4 of Section 2, T-25-S, R-31-E, or as designated by the BLM.
- 7. METHODS OF HANDLING WASTE DISPOSAL:
  - A. Drill cuttings will be disposed of in the drilling pits.
  - B. Drilling fluids will be allowed to evaporate in the drilling pits until pits are dry. Water produced during tests will be disposed of in the drilling pits. Oil produced during tests will be stored in test tanks until sold.
  - C. Current laws and regulations pertaining to the disposal of human waste will be complied with.

- D. Trash, waste paper, garbage, and junk will be discarded in a trash trailer and hauled to a state approved garbage disposal facility. All waste material will be contained within trailer to prevent scattering by the wind.
- E. All trash and debris will be removed from the wellsite within 30 days after finishing drilling and/or completion operations.

# 8. ANCILLARY FACILITIES:

- A. None required.
- 9. <u>WELLSITE LAYOUT</u>:
  - A. **Figure No.3** shows the general layout and dimensions of the well pad.
  - B. Only minor leveling of the wellsite will be required. No significant cuts and fills will be necessary.
  - C. The reserve pit will be plastic lined as per current BLM regulations.
  - D. The pad and pit area have been staked and flagged.

# 10. PLANS FOR RESTORATION OF THE SURFACE:

- A. After completion of drilling and/or completion operations, all equipment and other material not needed for operation will be removed. Pits will be filled and location cleaned of all trash and junk to leave the wellsite is as aesthetically pleasing condition as possible.
- B. Any unguarded pits containing fluids will be fenced until they are filled.
- C. After abandonment of the well, surface restoration will be in accordance with the agreement with the surface lessee and the BLM. Pits will be filled and location will be cleaned. The pit area, well pad, and all unneeded access road will be ripped to promote re-vegetation. Rehabilitation should be accomplished within 90 days after abandonment.

# 11. OTHER INFORMATION:

- A. <u>Topography</u>: Land surface is relatively level with small to moderate sand dunes. From an elevation of 3436' at the wellsite, the regional surface slopes gently toward the south at about 1 to 2 percent.
- B. <u>Soil</u>: Soil is predominantly sand and sandy loam underlain by caliche.

- C. <u>Flora and Fauna</u>: The vegetative cover moderate and includes range grasses, weeds, scrub oak and mesquite bushes. Wildlife in the area is the typical of semi-arid desert land and includes coyotes, rabbits, rodents, reptiles, dove, quail and hawks.
- D. <u>Ponds and Streams</u>: There are no rivers, lakes, or ponds in the area.
- E. <u>Residences and Other Structures</u>: There are no occupied dwellings or other structures within or near the proposed area of the wellsite.
- F. Archeological, Historical and Cultural Sites: None observed in the area.
- G. Land Use: Grazing, oil and gas production and wildlife habitat.
- H. <u>Surface Ownership</u>: Well site and road are on the surface owned by the Bureau of Land Management.

#### 12. OPERATORS' REPRESENTATIVES:

The field representative responsible for assuring compliance with the approved surface use and operations plan is:

Robert McNaughton	(432) 688-3726 (office)
Petroleum Engineer	(432) 694-2553 (residence)

H. L. Brown Operating, L.L.C.'s office is located at 300 W. Louisiana, Midland, Texas, 79701.

#### 13. <u>CERTIFICATION</u>:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in the plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by H. L. Brown Operating, L.L.C. and it's contractors and subcontractors in conformity with this plan and terms and conditions under which is approved. This statement is subject to provisions of 18 U.P.S. 1001 for the filing of false statement.

7-26-04 Date

Robert McNaughton Petroleum Engineer H. L. Brown Operating, L.L.C.

Enclosures





# Figure No. 3

# **Supplemental Drilling Data**

#### H. L. BROWN OPERATING, L.L.C. Paduca Federal "9" No. 2 660' FNL & 660' FWL, Unit D, Sec. 9, T-25-S, R-32-E Lea County, New Mexico New Mexico Lease LC – 061873-b

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 5000' to test the Delaware formation. 8-5/8" intermediate pipe will be set at 780' and 5-1/2" production casing will be set at 5000'. The Delaware will be perforated and fracture stimulated.

# 1.) Surface Formation: Ogallala

#### 2.) Estimated Top of Geologic Markers:

Rustler Anhydrite	750'		
T/ Salado Salt	1000'	B/ Salado Salt	3200'
Castile Anhydrite	3200		
Lamar Shale	4570'		
Ramsey Sand	4590'		
Ford Shale	4635'		
Olds Sands	4645'		

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

Water	None Anticipated
Oil/ Gas	Ramsey/ Olds sands at 4590'
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	•		of Cement	
12-1/4"	8-5/8"	24	J-55	LT&C	780'	260 sx "C" Poz 35:65:6 200 sx "C" w/ CaCl2	Surface * must circulate	
7-7/8"	5-1/2"	15.50	J-55	LT&C	5000'	175 sx "C"	4000'	

The surface casing string will be tested to 1000 psi. The 5  $\frac{1}{2}$ " 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.4 and No.5)**.

# 6.) <u>Circulating Medium:</u>

Depth	Mud Type	Wt. Ib/gal	Viscosity sec/1000cc	Filtrate cc/30min	Remarks
0 - 780'	FW-Gel	8.5-9.0	32-35	NC	
780' - 4000'	Cut Brine	9.2-10.3	32-34	NC	
4000' - 5000'	SW-Gel	9.2-10.3	38-40	10	Mud up for logs and cores

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

#### 7.) Auxiliary Equipment:

- 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.) <u>Testing, Logging and Coring Program:</u>

- a.) Samples: Drilling samples will be caught at 10' intervals below 3750'.
- b.) DST and Cores: may cut up to 10 rotary sidewall cores.
- 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 ~3800' (minimum).

# 9.) Abnormal Pressures, Temperature or Hydrogen Sulfide:

None Anticipated.

# 10.) <u>Completion Equipment:</u>

The completed well will be rod pumped with a screw-on wellhead and stuffing box. (Figure No. 6).

# 11.) Anticipated Starting Date:

Drilling operations are expected to commence August 15, 2004 and are expected to last 8 days. Completion operations are expected to last 10 days.



Fill above blanks with applicable information. If not applicable, enter "N.A." or cross-out item shown. Describe test pressures and procedure for conducting pressure test. Identify any exceptions to R324,406 being requested.

Figure No. 4





3/17/2004

RTM

# Figure No. 5

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' FNL & 660' FWL Unit D, Section 9, T-25-S, R- 32-E Lea Co, NM	Well name and number Paduca Federal 9 #2



#### UNITED STATES DEPARTMENT OF THE INTERIOR Bureau of Land Management Roswell Field Office 2909 West Second Street Roswell, New Mexico 88201-1287

### **Statement Accepting Responsibility for Operations**

Operator Name:H.L. Brown Operating L.L.C.Address:300 West LouisianaCity, State:Midland, TexasZip Code:79702

The undersigned accepts all applicable terms, conditions, stipulations and restrictions concerning operations conducted on the leased land, or portion thereof, as described below:

Lease Names: Paduca Federal 8, Paduca Federal 9

Lease Number: LC - 061873-B (lease will be reassigned if well is completed)

Legal Description of Land: T-25-S, R-32-E, NMPM, Lea County, New Mexico: Section 4: SW/4 Section 5: SE/4 Section 8: E/2 Section 9: NW/4 Section 17: NE/4

Formations: All uncommitted mineral interests from surface to the base of the Wolfcamp.

Bond Coverage: Statewide

BLM Bond File Number: #0679788

Authorized Signature:

Name: Robert McNaughton Title: Operations Manager/ Petroleum Engineer Date: July 26, 2004

1. (For BLM Use) BLM Report No.	2. (For BLM Use) Reviewer's Initials/Date				3. NMCRIS Number: 89263			
	Accepted ( )	Rejected ( )						
4. Type of Report:	Negative (X)		Positive (	)				
5. Title of Report: A Cultural Reso Well Pad and Access Road	urce Survey for the I	Paduca "9" Federal	No. 2	6. Fieldwork Date(s): July 16, 2004				
Author(s): Justin Rein			7. F	Report Date: July 1	6, 2004			
8. Consultant Name/Address: Mes Direct Charge: Theresa Straight	a Field Services			9. C	Cultural Resource	Permit No.: 153-2920-03-N		
Field Personnel Names: Theresa S	traight		-					
Address: P.O. Box 3072 Carlsbad, New Mexico 882	21-3072			10.	Consultant Repor	t No.: MFS-1044		
Phone (505) 628-8885								
11. Customer Name: H.L. Brown Operating, LLC       12. Customer Name: H.L. Brown Operating, LLC         Responsible Individual: Robert McNaughton       12. Customer Name: H.L. Brown Operating, LLC         Address: P.O. Box 2237       Midland, TX 79702         Phone: (432) 688-3726       12. Customer Name: H.L. Brown Operating, LLC				omei	r Project No.:			
13. Land Status	BLM	State	Private		Other	Total		
a. Area Surveyed (acres)	9.80					9.80		
b. Area of Effect (acres)	4.44					4.44		
		idth <u>600 ft</u> dth <u>100 ft</u>						
15. Location (Map[s] Attached):	-							
a. State: New Mexico								
b. County: Lea County								
c. BLM Office: Carlsbad								
d. Nearest City or Town: Jal, NM	d. Nearest City or Town: Jal, NM							
e. Legal Description: T 25 S, R 32	e. Legal Description: T 25 S, R 32 E, Section 9: W1/2 NW1/4							
f. Well Pad Footages: The Paduca "9" Federal No. 2 is centered 660 FNL and 660 FWL of Section 9.								
g. USGS 7.5' Map Name(s), Date(s), and Code(s): Paduca Breaks NW, New Mexico 1973 (32103-B6)								

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16. Project Data:

a. Records Search: Date(s) of BLM File Review: July 16, 2004 Name of Reviewer(s): Justin Rein

Date(s) of ARMS Data Review July 15, 2004 Name of Reviewer(s): Justin Rein

Findings (see Field Office requirements to determine area to be reviewed during records search): No previously recorded sites are located within 0.25 mile of the undertaking. An expanded search revealed two sites, LA 46450 and LA 46451, within one mile. Neither site will be impacted by the proposed project.

**b.** Description of Undertaking: H.L. Brown Operating plans to construct the Paduca "9" Federal No. 2 well pad and access road. The project is located in T 25 South, Range 32 East, Section 9. The proposed well is centered 660 feet from the north line and 660 feet from the west line of Section 9. The well pad will impact a 400 ft by 400 ft area, yet a 600 ft by 600 ft block was inspected to ensure the protection of cultural resources. The access road begins at he northeast corner of an existing well pad and travels approximately 1,120 ft north to the southeast corner of the proposed pad. The access road will impact a 30 ft wide corridor, yet a 100 ft wide corridor was surveyed. The southem 300 ft of the proposed road falls within previous project MFS-1001 (NMCRIS No. 87607), and though field checked was not included in the total survey acres. Similarly, the northern 150 ft of the road lies within the current block survey and was likewise not included in total acreage. In all, 9.80 acres was surveyed, all of which is on property owned and administered by the BLM-CFO.

c. Environmental Setting (NRCS soil designation; vegetative community; elevation; etc.): The project area is located within the Paduca Oil Field, eight miles northeast of Phantom Banks and four miles northwest of Paduca Breaks. The terrain is relatively flat with a southern slope of less than one percent. The soil is reddish brown sands of the Pyote-Maljamar-Kermit association as defined by the Soil Conservation Service of the U.S. Department of Agriculture. Local vegetation includes shin oak, sage, snakeweed, mesquite, cacti, grasses, and various low forbes. Due to this vegetative cover, ground surface visibility averaged 75 percent at the time of survey.

Meteorological data was obtained for the nearby city of Jal, New Mexico from the Western Regional Climate Center online database. From 1919 to 2003, Jal received an annual precipitation of 12.31 inches. July through September were the wettest months while December through February were the driest. During the same time, Jal had an average high temperature of 79.5 degrees Fahrenheit and an average low temperature of 48.2 degrees Fahrenheit. January was the coldest month with an average high of 59.7 degrees Fahrenheit, while July was the warmest with an average high temperature of 96.5 degrees Fahrenheit.

d. Field Methods (transect intervals; crew size; time in field; etc.): A crew of one spent 2 hours surveying the project area. A 15 m transect interval was used.

e. Artifacts Collected?: None

17. Cultural Resource Findings: One isolated manifestation was encountered and recorded.

a. Location/Identification of Each Resource: IM no.1 consists of a white chalcedony stage I biface. The tool is complete and exhibits approximately 15 percent remaining cortex. The edge is continuous with a variable angle. It is a size 4 (Zone 13: 624011 E/ 3557563 N).

b. Evaluation of Significance of Each Resource: By definition, IM no. 1 is recommended ineligible to the NRHP.

18. Management Summary (Recommendations): Because no significant cultural materials were encountered, archaeological clearance is recommended for the proposed project as staked. If any additional cultural resources are encountered during construction activities, work at that location should stop immediately and archaeologists at the BLM-CFO should be notified.

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I certify the information provided above is correct and accurate and meets all applicable BLM standards.

7/21/04 **Responsible Archaeologist** Signature

THE ABOVE COMPLETES A NEGATIVE REPORT. IF ELIGIBLE OR POTENTIALLY ELIGIBLE PROPERTIES ARE INVOLEVED, THE ABOVE WILL BE THE TITLE PAGE AND ABSTRACT FOR A COMPLETE REPORT.

# Survey for the Paduca "9" Federal No. 2 Well Pad and Access Road





Mesa Field Services