Form 316643 (September 2001)

New Mexico Oil Conservation Division, District I

1625 N. French Drive Hobbs, NM 88249

FORM APPROVED OMB No. 1004-0136 Expires January 31, 2004

UNITED STATES

DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

Lease Serial No.	
LC 061873-B	

APPLICATION FOR PERMIT TO D	ORILL OR I	REENTER		6. If Indian, Allottee or	Tribe Name	
la. Type of Work: DRILL REENT	7. If Unit or CA Agreement, Name and No.					
1b. Type of Well:	☑ :	Single Zone	ltiple Zone	8. Lease Name and Welly Paduca Federal		
2. Name of Operator H.L. Brown Operating L.L.C # 213179 3a. Address				9. API Well No. 30-025-	36727	
	ı	lo. (include area code,)	10. Field and Pool, or Exp	loratory	
P.O. Box 3737, Midland, Texas 79707	432-68			Paduca Delaware	49460	
4. Location of Well (Report location clearly and in accordance with	h any State requ	uirements. *)		11. Sec., T., R., M., or Blk	c. and Survey or Area	
At surface 1980' FNL & 660' FWL (Unit E) At proposed prod. zone				Sec 9, T-25-S, R-3	2-E	
14. Distance in miles and direction from nearest town or post office*				12. County or Parish	13. State	
27 miles West of Jal, NM				Lea	NM	
15. Distance from proposed*	16. No. of	Acres in lease	17. Spacin	g Unit dedicated to this well		
location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	160		40		- 133	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 1867'	19. Propos 5000'	ed Depth	20. BLM/I	BIA Bond No. on file	- Const	
21. Elevations (Show whether DF, KDB, RT, GL, etc.)		ximate date work will		23. Estimated duration		
3436' GL	6-15-0		8 days			
	24. Atta	chments Ca	risbad Co	ntrolled Water Bask	Horps	
The following, completed in accordance with the requirements of Onsh	ore Oil and Ga	s Order No.1, shall be	attached to thi	s form:	./	
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest Syster SUPO shall be filed with the appropriate Forest Service Office). 		4. Bond to cover Item 20 above 5. Operator certif	the operation). Teation. To specific info	s unless covered by an exis	**	
25. Signature	Name	e (Printed/Typed)		Da	te	
BUCh	:					
Title				<u> </u>	4-20-04	
Petroleum Engineer						
Approved by (Signature) /s/ Joe G. Lara	Name	e (Printed/Typed)	/s/ Joe G	Lara	1 9 MAY 2004	
TO A CONTRACT OF THE PROPERTY			,			

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct

Office

*(Instructions on reverse)

operations thereon.

DECLARED WATER BASIN CEMENT BEHIND THE 83/8 CASING MUST BE CIRCULATED

Title ACTING FIELD MANAGER

Conditions of approval, if any, are attached.

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AN SPECIAL STIPULATIONS ATTACHED

APPROVAL FOR 1 YEAR

CARLSBAD FIELD OFFICE

District I PO Box 1980, Hobbs, NM 88241-1980 District II 811 South First, Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV

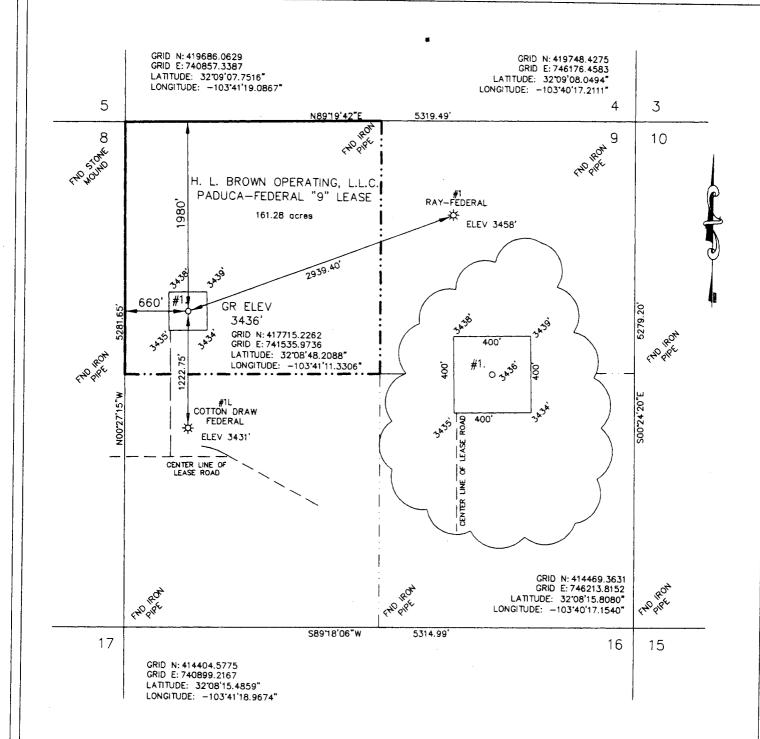
State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505

Form C-102 Revised October 18, 1994 Instructions on back Submit to Appropriate District Office State Lease - 4 Copies

Fee Lease - 3 Copies

2040 South Pache	eco, Santa I	Fe, NM 87505	;							AME	ENDED REPORT
		WI	ELL LO	CAT	ION AND	AC	REAGE DEDI	CATION P	LAT		
1	API Numb	# 3672	/ 0		Code						
⁴ Property					5 P	ropert	y Name				377-11-37
3400	6	Pa	duca-F	edera	1 7	•	,				Well Number
OGRID '			·····		• 0	perato	r Name			<u> </u>	* Elevation
213179		Н.	L. Bro	own (Operating	, L.	L.C.			34:	
					10 Su	rface	Location	· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·
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UL or lot no.	Section	Township	Range	Lot Id			North/South line	Feet from the	East/Wes	t line	County
¹² Dedicated Acr	es ¹³ Joint	or Infill 14	Consolidation	n Code	15 Order No.			<u> </u>	<u> </u>		
40								_			
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/3436'			11.	/ /				Date	~~~		
		r						18SURV	EYOR	CERT	IFICATION
	1			j		- 1		I hereby certif	y that the wei	ll location	shown on this plat
	ŀ					ł		or under my s	upervision, a	nd that the	surveys made by me e same is true and
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										e No.	1510
				<u>L</u>				Certificate Nu	mber Job	No.	68,610-B



NOTE:

COURSES, DISTANCES AND COORDINATES SHOWN HEREON ARE LAMBERT GRID AND CONFORM TO THE "NEW MEXICO COORDINATE SYSTEM", NEW MEXICO EAST ZONE, NORTH AMERICAN DATUM OF 1983. ALL DISTANCES AND COORDINATES ARE SHOWN IN GRID FEET.

SCHUMANN ENGINEERING CO., INC.

REGISTERED PROFESSIONAL LAND SURVEYORS LICENSED STATE LAND SURVEYORS

REGISTERED PROFESSIONAL CIVIL ENGINEERS TEXAS and NEW MEXICO

Civil Engineering ~

Land Surveying

408 N. PECOS STREET - P. O. BOX 504 MIDLAND, TEXAS 79702-0504

Office (432) 684-5548 Fax (432) 684-6973

H. L. BROWN OPERATING, L.L.C.

WELL NO. 1 PADUCA-FEDERAL "9" LEASE

1980 FEET FROM THE NORTH AND 660 FEET FROM THE WEST LINES

SECTION 9, T-25-S, R-32-E

LEA COUNTY, NEW MEXICO

QUAD: PADUCA BREAKS NW SCALE: 1" = 1000'

PROJECT: JOB NO:

68610HLB Mall. Mall. MARCH 8, 2004

MULTI-POINT SURFACE USE AND OPERATIONS PLAN

H. L. BROWN OPERATING, L.L.C.
Paduca Federal "9" No. 1
1980' 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 1/3 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 2100' long and will enter the location at the south east 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. Gates and Cattle Guards: 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 ½ 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. TYPE OF WATER SUPPLY:

A. Water will be purchased and trucked to location by low bidder.

6. SOURCE OF CONSTRUCTION MATERIALS:

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.

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. WELLSITE LAYOUT:

- 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. <u>OTHER INFORMATION:</u>

- 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. <u>Land Use</u>: 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.

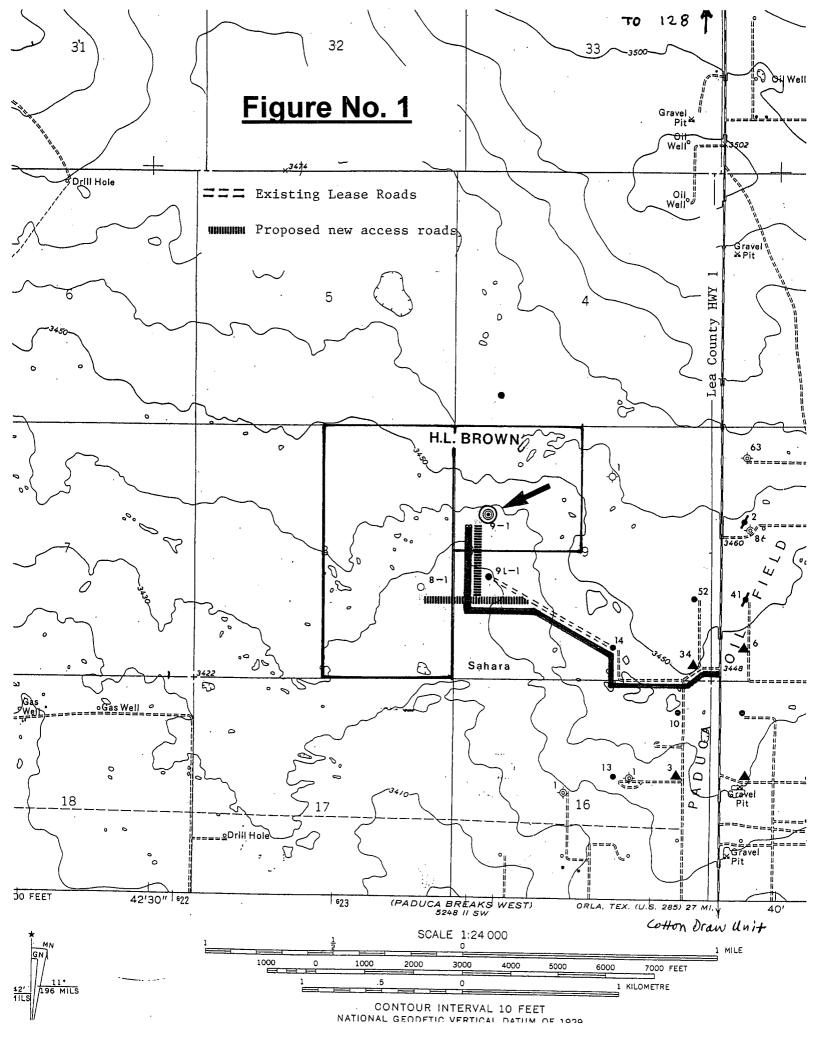
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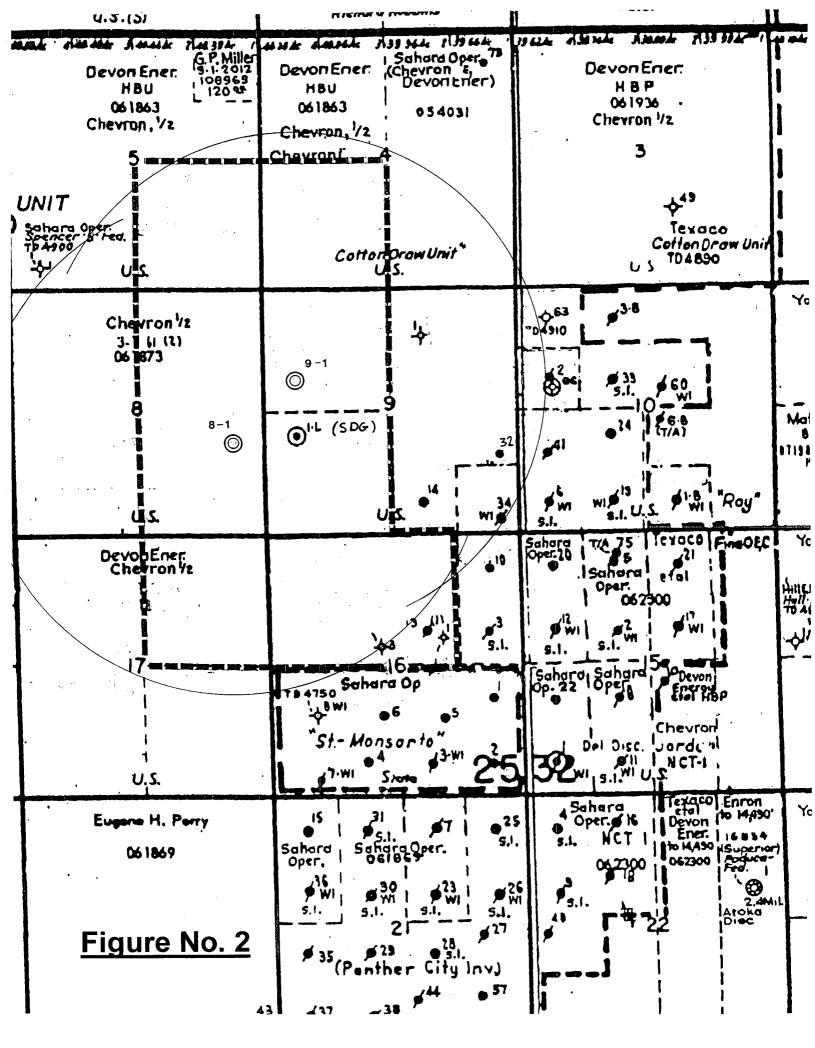
Date

Robert McNaughton Petroleum Engineer

H. L. Brown Operating, L.L.C.

Enclosures





DRILLING RIG & RESERVE PIT LAYOUT

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

Well name and number

Location: 1980' FNL & 660' FWL

Unit E, Section 9, T-25-S, R- 32-E

Lea Co, NM

Paduca Federal 9 #1

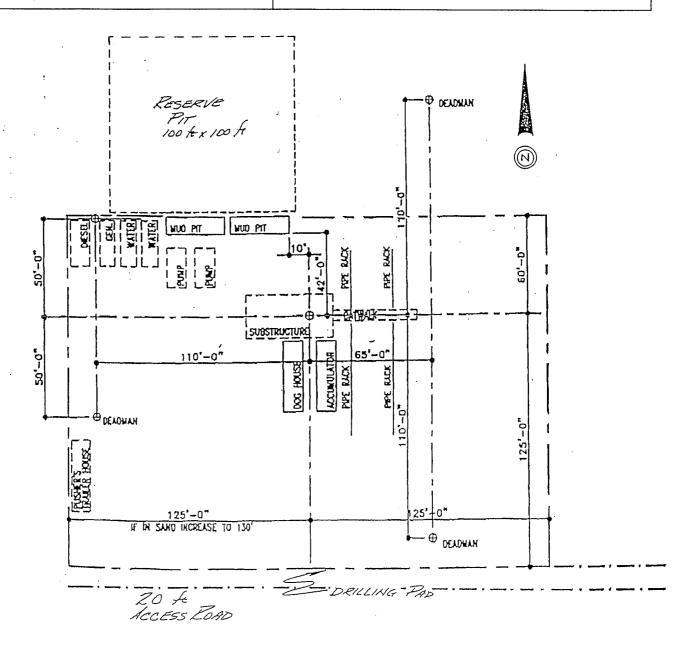


Figure No. 3

Supplemental Drilling Data

H. L. BROWN OPERATING, L.L.C.
Paduca Federal "9" No. 1
1980' FNL & 660' FWL, Unit E, 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:

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			Depth, ft	Cement	Expected Top of Cement	
Size, in.			Thread						
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 ½" casing will be tested to 2000 psi. All casing will be new or used, inspected yellow-band or better.

H. L. Brown Operating, L.L.C.
Paduca Federal "9" No. 1
Supplemental Drilling Data—page 2

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.) Circulating Medium:

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' - 500	0' 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.) Testing, Logging and Coring Program:

- 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 \sim 3800' (minimum).

9.) Abnormal Pressures, Temperature or Hydrogen Sulfide:

None Anticipated.

10.) Completion Equipment:

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 June 1, 2004 and are expected to last 8 days. Completion operations are expected to last 10 days.

WELLHEAD BLOWOUT CONTROL SYSTEM

Worksheet supplement for "Application for Permit to Drill or Deepen a Well"

Location: 1980' FNL & 660' FWL

Unit E, Section 9, T-25-S, R- 32-E

Lea Co, NM

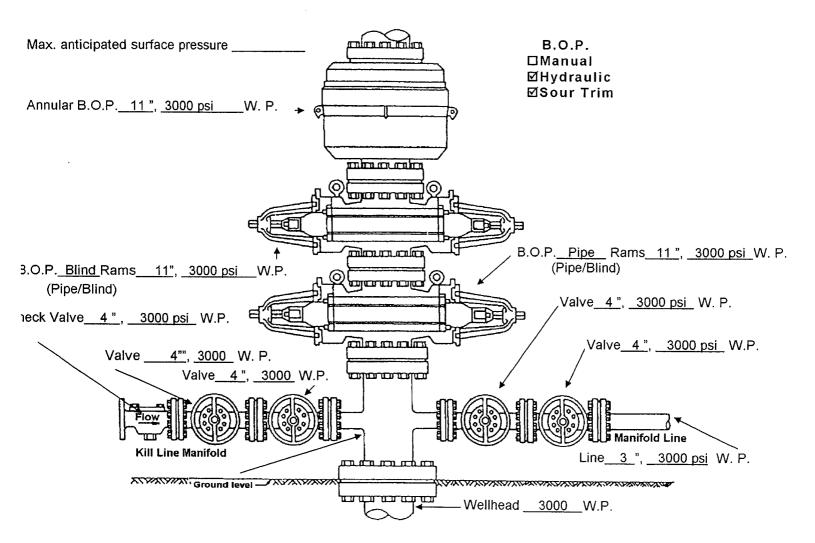
Applicant

H.L. Brown Operating L.L.C

P.O. Box 2237, Midland Texas 79702

Well name and number

Paduca Federal 9 #1



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

CHOKE MANIFOLD DIAGRAM

Worksheet supplement for "Application for Permit to Drill or Deepen a Well"

Location: 1980' FNL & 660' FWL

Unit E, Section 9, T-25-S, R- 32-E

Lea Co, NM

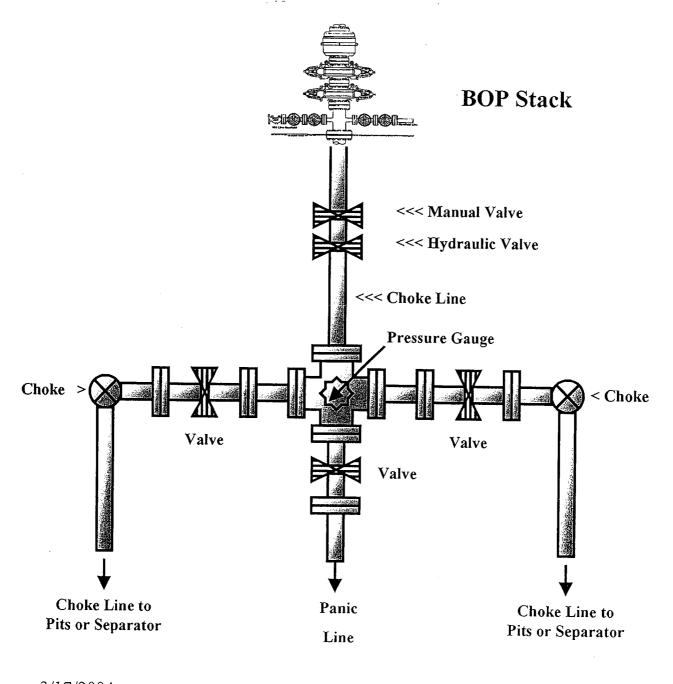
Applicant

H.L. Brown Operating L.L.C

P.O. Box 2237, Midland Texas 79702

Well name and number

Paduca Federal 9 #1



3/17/2004

RTM

Figure No. 5

WELLHEAD DIAGRAM Worksheet supplement for "Application for Permit to Drill or Deepen a Well" Location: 1980' FNL & 660' FWL Unit E, Section 9, T-25-S, R- 32-E Lea Co, NM Applicant H.L. Brown Operating L.L.C P.O. Box 2237, Midland Texas 79702 Well name and number Paduca Federal 9 #1

Stuffing Box For Rod Pumping 2-3/8" TUBING SUSPENDED 7-1/16" 3000 WP 11" 3000 WP 5-1/2" CASING SUSPENDED 8-5/8" S.O.W.

Figure No. 6

1. (For BLM Use) BLM Report No.	2. (For BLM Use) Reviewer's Initials/				3. NMCRIS	Number: 87607	
4.7		ejected ()	Positive (Ł		
Type of Report: Negative (X) Positive (Title of Report: A Cultural Resource Survey for the Paduca Federal No. 8-1 and 9-1 Well Pads and their Associated Access Roads				6. Fieldwork Date(s): March 18, 2004			
Author(s): Theresa Straight		7. Report Date: March 19, 2004					
8. Consultant Name/Address: Me	sa Field Services			9. (Cultural Reso	urce Permit No.: 153-2920-03-N	
Direct Charge: Theresa Straight							
Field Personnel Names: Theresa S Address: P.O. Box 3072 Carlsbad, New Mexico 88			10. Consultant Report No.: MFS-1001				
Phone (505) 628-8885							
Responsible Individual: Robert McNaughton Address: P.O. Box 2237 Midland, TX 79702				istomer Project No.:			
Phone: (432) 688-3726 13. Land Status	BLM	State	Private		Other	Total	
a. Area Surveyed (acres)	24.85					24.85	
b. Area of Effect (acres)	9.84					9.84	
		idth 600 ft idth 100 ft	(each)				
15. Location (Map[s] Attached):							
a. State: New Mexico							
b. County: Lea County							
c. BLM Office: Carlsbad							
d. Nearest City or Town: Jal, NM							
e. Legal Description: T 25 S, R 32 E, Section 8: NE¼, SE¼ Section 9: SW¼ NW¼, N½ SW¼							
f. Well Pad Footages: Paduca Fe Paduca Fe	f. Well Pad Footages: Paduca Federal No. 8-1: 1,800 FSL and 750 FEL of Section 8; Paduca Federal No. 9-1: 1,900 FNL and 700 FWL: of Section 9						
g. USGS 7.5' Map Name(s), Date(s), and Code(s): Paduca Breaks NW, New Mexico 1973 (32103-B6)							

16. Project Data:

a. Records Search: Date(s) of BLM File Review: March 11, 2004 Name of Reviewer(s): Justin Rein Date(s) of ARMS Data Review March 9, 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 build two wells, the Paduca Federal No. 8-1 and the Paduca Federal 9-1, and their associated access roads. Each well pad will impact a 400 ft by 400 ft area, yet a 600 ft by 600 area was inspected to ensure the protection of cultural resources. The two access roads are approximately 3,624 ft long and will impact a 30 ft wide corridor, yet a 100 ft wide corridor was surveyed. A total of 24.85 acres was surveyed, all of which is on land 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 yucca, prickly pear, sage, mesquite, and various weeds. Due to this vegetative cover, ground surface visibility averaged 80 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: No cultural material was encountered.
 - a. Location/Identification of Each Resource: N/A
 - b. Evaluation of Significance of Each Resource: N/A
- 18. Management Summary (Recommendations): Because no cultural materials were encountered, archaeological clearance is recommended for the proposed project as staked. If any cultural resources are encountered during construction activities, work at that location should stop immediately and archaeologists at the BLM-CFO should be notified.

19.

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

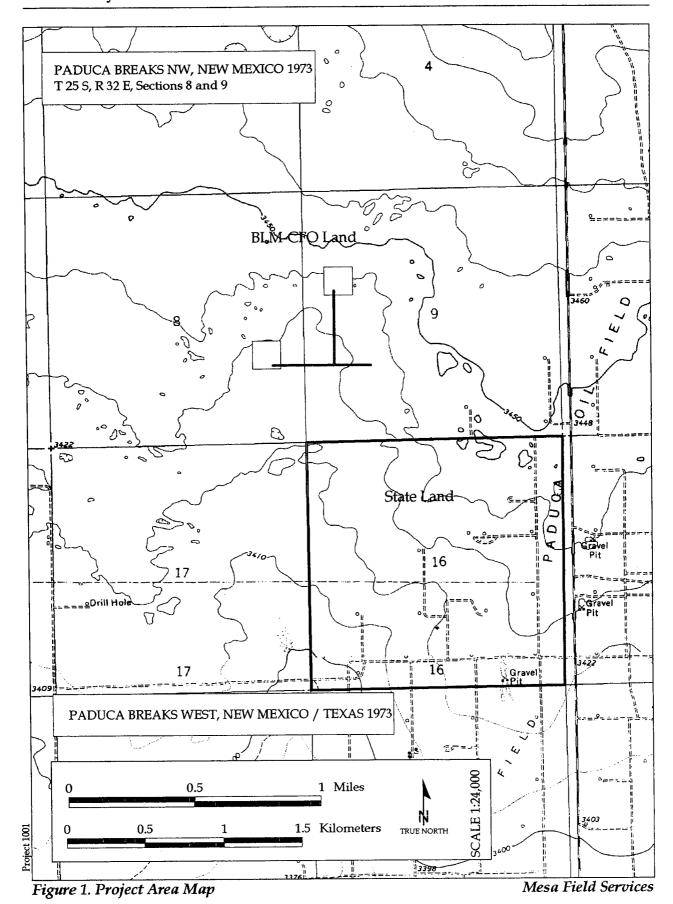
Responsible Archaeologist

Signature

Data

Date

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.



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 Louisiana

City, State:

Midland, Texas

Zip 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: Petroleum Engineer

Date: April 19, 2004

UNITED STATES DEPARTMENT OF THE INTERIOR

Bureau of Land Management Roswell Field Office 2909 West Second Street Roswell, New Mexico 88201-1287

Designation as Operator

Operator Name: H.L. Brown Operating L.L.C.

Address:

4 5 4 5

300 West Louisiana

City, State:

Midland, Texas

Zip Code:

79702

H.L. Brown L.L.C. has proposed drilling the referenced well. H.L. Brown L.L.C. will be designated as operator by the terms of the joint operating agreement.

Lease Name: Paduca Federal 9

Sec. 9, T-25-S, R-32-E Lea County, New Mexico

Lease Number: LC - 061873-B

(lease will be reassigned when well is completed for production)

Authorized Signature:

Name: Robert McNaughton

Title: Petroleum Engineer

Date: April 20, 2004