Form 3160.3 (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

5. Lease Serial No. NM 21540 NM 021097A

APF	PLICATION FOR	PERMIT TO DR	RILL OR	REENTER		6. If Indian, Allottee or T	ribe Name	
la. Type of Work:	DRILL	REENTER	₹			7. If Unit or CA Agreeme	nt, Name and No.	
	Oil Well 🗹 Gas We	ell Other	\square	Single Zone	tiple Zone	8. Lease Name and Well N Federal 'C' #2	0.	
2. Name of Operator						9. API Well No.		
H.L. Brown Operating 3a. Address	L.L.C # 213179		2h Dhoma N	In Gardina		30-041-	20410	
P.O. Box 3737, Midlar	nd Tevas 70707			No. (include area code) 8-3726		10. Field and Pool, or Expl	oratory	
4. Location of Well (Rep		d in accordance with a				Bluitt Wolfcamp 11. Sec., T., R., M., or Blk.	and Current on Assa	
	SL & 1330' FWL, I		ny siane req	un emems.		11. 500., 1., IC., IVI., OI DIK.	and Survey of Alea	
At proposed prod. zoi		omi i				Sec 4, T- 8 -S, R- 37 -I	E	
14. Distance in miles and	direction from nearest to	own or post office*				12 County or Parish	13 State	
10 miles east of M		,				•	f	
15. Distance from propose	ed*		16. No. of	Acres in lease	17. Spacing			
location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)					320		1920212	
18. Distance from propose to nearest well, drilling			19. Propos	sed Depth	20. BLM/B	IA Bond No. on file	10.	
applied for, on this leas	se, ft. 2:	332'	9200'		00707		7	
21. Elevations (Show who	ether DF, KDB, RT, G	L, etc.)		ximate date work will		23 Estimated duration	386	
4062' GL				Roosevelt NM 16. No. of Acres in lease 320 320 19. Proposed Depth 20. BLM/BIA Bond No. on file 8200' 0679788 22. Approximate date work will start* 23. Estimated duration 12-01-04 21 days 24. Attachments Ints of Onshore Oil and Gas Order No.1, shall be attached to this form: 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). 5. Operator certification.				
			24. Att	achments		15.	8	
 Well plat certified by a r A Drilling Plan. A Surface Use Plan (if SUPO shall be filed wit 	registered surveyor.	ional Forest System I		4. Bond to cover to Item 20 above). 5. Operator certific 6. Such other site	he operations cation.	unless covered by an exist	S. R. C. R.	
25. Signature			Nam	e (Printed/Typed)		Date	9	
			i	Robert McNaught	on		10-06-0	
Title Operations Mana	nger/ Petroleum En	gineer						
	(S/LARRY D.		Nam	e (Printed/Typed) /S/I	LARRY [D. BRAY N	OV 23 200	
Lan	istant Field M ds And Miner	ale		e ROSWELL FIEL		AFFIOVEN	FOR 1 YEAR	
Application approval does no operations thereon. Conditions of approval, if a	ot warrant or certify the	at the applicant holds le	gal or equita	able title to those rights	in the subject l	ease which would entitle the	applicant to conduct	
Title 18 U.S.C. Section 100 States any false, fictitious o	of and Title 43 U.S.C. r fraudulent statements	Section 1212, make it or representations as to	a crime for a	any person knowingly a within its jurisdiction.	nd willfully to	make to any department or	agency of the United	
*(Instructions on reverse)		R. OGRID NO	2131					
	PRO	PERTY NO	298				1/2	
	POO	L CODE	7261	API	HOVAL	SUBJECT TO	+2	
	EFF.	DATE	29/	04 GE	NEHAL F	REQUIREMENTS	AND	
API NO30-0			41-21	0910 or	-UML 0	TIPULATIONS AT	IACHED	

to DISTRICT I

1625 N. French Dr., Hobbs, NM 88240

DISTRICT II

320

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

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

811 South First, Artesia, NM 88210

OIL CONSERVATION DIVISION

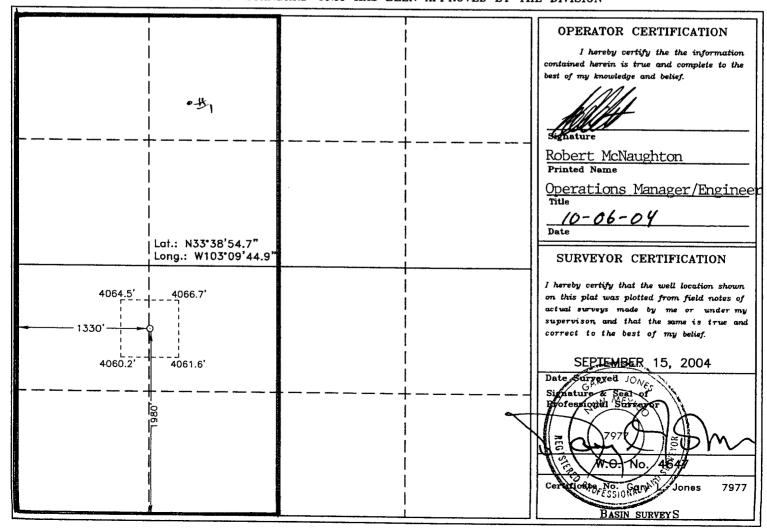
DISTRICT IV 2040 South Pacheco, Santa Fe, NM 87505 2040 South Pacheco Santa Fe, New Mexico 87504-2088

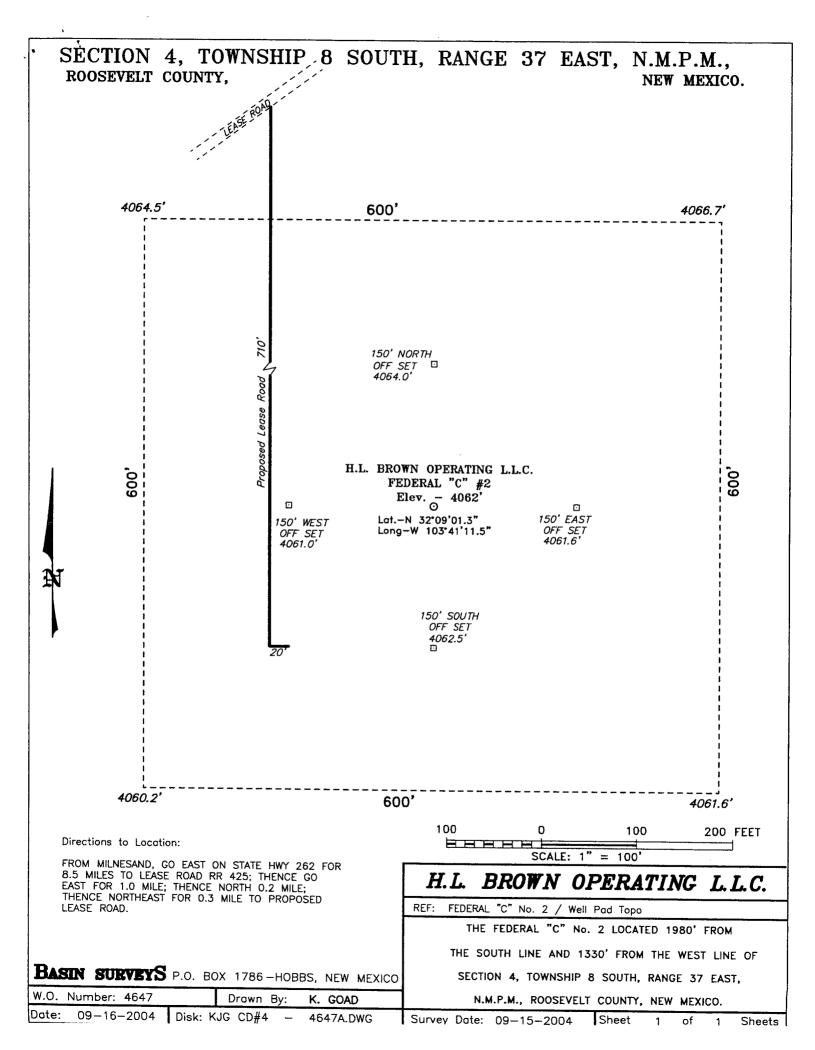
□ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

	Number	_		Pool Code		Pool Name					
30-04	1-20	910	72640								
Property (Property Nan	Bluitt (Wolfcamp) Gas Perty Name Well Number					
002269	298	∳D			FEDERAL "	' C"	2				
OGRID No	· .				Operator Nam	ne		Elevation			
213179				H.L. BF	ROWN OPERA	TING L.L.C.		406	32'		
					Surface Loc	ation					
UL or lot No.	Section	Township	Range	Lot ldn	Feet from the	North/South line	Feet from the	East/West line	County		
K	4	8 S	37 E		1980	SOUTH	1330	WEST	ROOSEVELT		
			Bottom	Hole Lo	cation If Diffe	erent From Sur	face				
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County		
Dedicated Acres	. Taint a	r Infill Co	nsolidation		der No.						

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





MULTI-POINT SURFACE USE AND OPERATIONS PLAN

H. L. BROWN OPERATING, L.L.C.
Federal "C" No. 2
1980' FSL & 1330' FWL, Sec. 4, Unit K, T-08-S, R-37-E
Roosevelt County, New Mexico
New Mexico Lease NM - 21513

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. The well is approximately 9 miles East of Milnesand, NM on State Highway 262. Go straight east one mile on lease road where highway makes a 90 corner south to Bluitt. Go north 1/3 mile just past the compressor station and 1/3 mile to the northeast. Turn south 800' to the proposed location (**Figure 2**).
- B. **Figure No.1** also shows all existing roads within one-mile radius of the well site. The proposed location is near the center of the Bluitt Wolfcamp gas field.
- 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 710' long (from existing lease road and will enter the location at the north 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>: 1 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. Produced water will be sent to the main battery for collection and off lease disposal. The well will make little or no measurable condensate. Gas will be sent down existing sales lines.
- B. We expect this well flow naturally through the existing low pressure gathering system. In the distant future, rod pumping may be necessary

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 a privately owned pit located in the SW/4 of Section 6, T-8-S, R-37-E.

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. <u>ANCILLARY FACILITIES</u>:

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 and NMOCD 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 as soon as they dry. The location will be cleaned of all trash and junk to leave the wellsite 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. 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 4062' at the wellsite, the regional surface slopes gently toward the east at about 30' per mile.
- 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. Residences and Other Structures: There are no occupied dwellings or other structures within or near the proposed area of the well site. The pumper's residence is located next to the compressor station about ½ mile away. There are a few ranch houses several miles to the north.

- 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>: The surface that the well site and road are on is owned by Mack Kizer, P.O. Box 27, Pep, New Mexico 88126.

12. OPERATORS' REPRESENTATIVES:

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

Robert McNaughton (432) 688-3726 (office)
Operations Manager/ Petroleum Engineer (432) 694-2553 (residence)
(432) 559-9307 (cell)

Greg McWilliams
Operations Foreman

(806) 790-1332 (mob)

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

13. **CERTIFICATION**:

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.

10-06-04

Date

Robert McNaughton

Operations Manager/ Petroleum Engineer

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

Enclosures

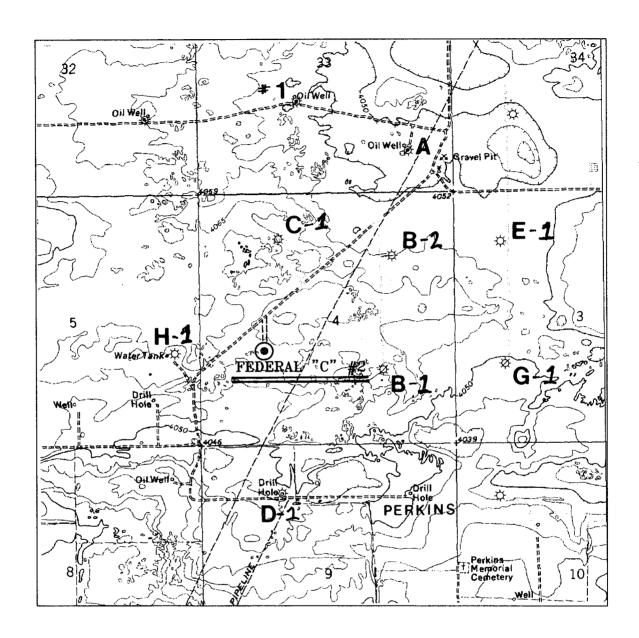


Figure No. 1

FEDERAL "C" #2 Located at 1980' FSL and 1330' FWL Section 4, Township 8 South, Range 37 East, N.M.P.M., Roosevelt County, New Mexico.



P.O. Box 1786 1120 N. West County Rd. Hobbs, New Mexico 88241 (505) 393-7316 - Office (505) 392-3074 - Fax basinsurveys.com

W.O. Number:	4647AA — KJG #1
Survey Date:	09-15-2004
Scale: 1" = 2	000'
Date: 09-16-	-2004

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

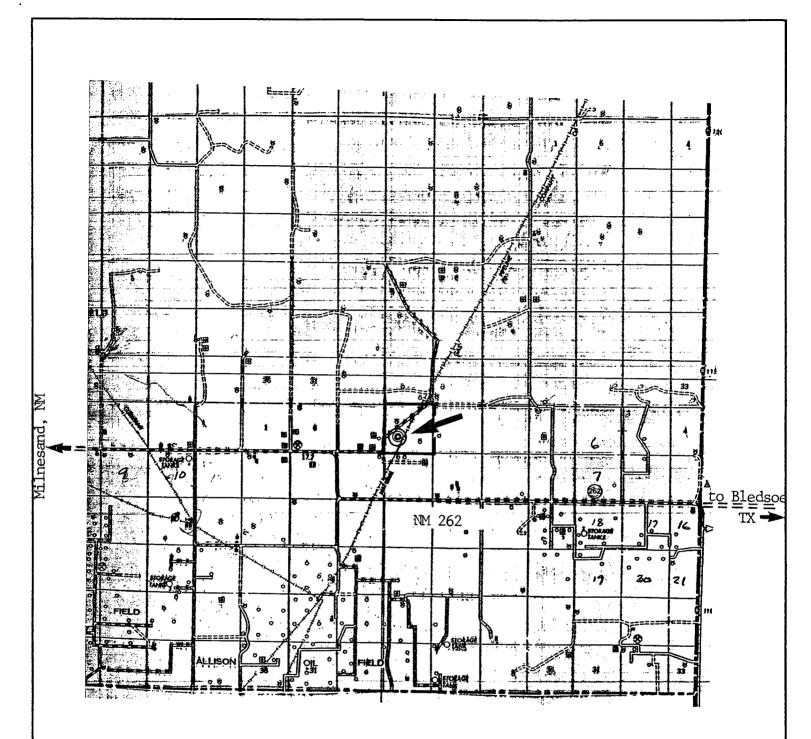


Figure No. 2

FEDERAL "C" #2 Located at 1980' FSL and 1330' FWL Section 4, Township 8 South, Range 37 East, N.M.P.M., Roosevelt County, New Mexico.



P.O. Box 1786 1120 N. West County Rd. Hobbs, New Mexico 88241 (505) 393-7316 - Office (505) 392-3074 - Fax basinsurveys.com

W.O. Number:	4647AA KJG #1
Survey Date:	09-15-2004
Scale: 1" = 2	miles
Date: 09-16-	-2004

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

DRILLING RIG & RESERVE PIT LAYOUT

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

Location: 1980' FSL & 1330' FWL

Unit K, Section 4, T- 4-S, R- 37-E

Roosevelt Co, NM

Applicant

H.L. Brown Operating L.L.C

P.O. Box 2237, Midland Texas 79702

Well name and number

Federal C No. 2

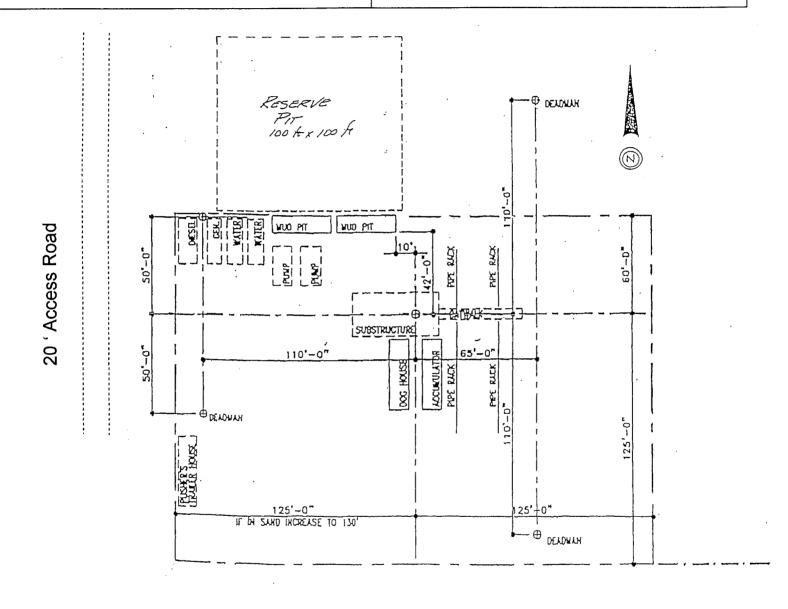


Figure No. 3

Supplemental Drilling Data

H. L. BROWN OPERATING, L. L. C. Federal "C" No. 2

1980' FSL & 1330' FWL, Sec. 4, Unit K, T-8-S, R-37-E Roosevelt County, New Mexico New Mexico Lease NM - 21513

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 8400' 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 3750' and 5-1/2" production casing will be set at 8400'. The Wolfcamp will be perforated and acid/fracture stimulated.

1.) Surface Formation: Ogallala

2.) Estimated Top of Geologic Markers:

Rustler Anhydrite	1980'
Yates	2515'
San Andres	3685'
Abo	6985'
Wolfcamp	7990'

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

Water

None Anticipated

Oil/ Gas

Wolfcamp carbonates at 7965'

Other Minerals

None Anticipated

4.) Proposed Casing and Cementing Program:

Hole	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	510′	500 sx "C" w/ 2% CaCl ₂ , + 1/4#/ sx celloflake	Surface Must circulate	
12-1/4"	8-5/8"	32	J-55	LT&C	3750'	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	J-55 J-55	LT&C LT&C	0' - 80' 80' - 6900'	Lead: 1200 sx "H" Poz + 10% gel + 5% salt	3250' ** tie into	
		17.0	J-55	LT&C	6900' – 8200'	_	8-5/8" casing	

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.

H. L. Brown Operating, L.L.C. Federal "C" No. 2 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. lb/gal	Viscosity sec/1000cc	Filtrate cc/30min	Remarks
0' - 510'	FW-Gel	8.6-9.0	32-34	NC	
510' - 2100'	FW- native	8.6-9.0	29-32	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	7 (3d 2 70 6 70 6)
6800' - 7800'	SW-Gel	9.2-10.3	38-40	NC	Add 5% - 6% oil
7800' - 8200'	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: 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 ~3800' (minimum).

9.) Abnormal Pressures, Temperature or Hydrogen Sulfide:

None Anticipated.

10.) Completion Equipment:

The completed well will be a flowing gas well with a stack pack for flow control. (Figure No. 6).

11.) Anticipated Starting Date:

Drilling operations are expected to commence December 01, 2004 and are expected to last 14 days. Completion operations are expected to last 7 days.

WELLHEAD BLOWOUT CONTROL SYSTEM Worksheet supplement for "Application for Permit to Drill or Deepen a Well" Location: 1980' FSL & 1330' FWL Unit K, Section 4, T- 4-S, R- 37-E Roosevelt Co, NM Applicant H.L. Brown Operating L.L.C P.O. Box 2237, Midland Texas 79702 Well name and number Federal C No. 2

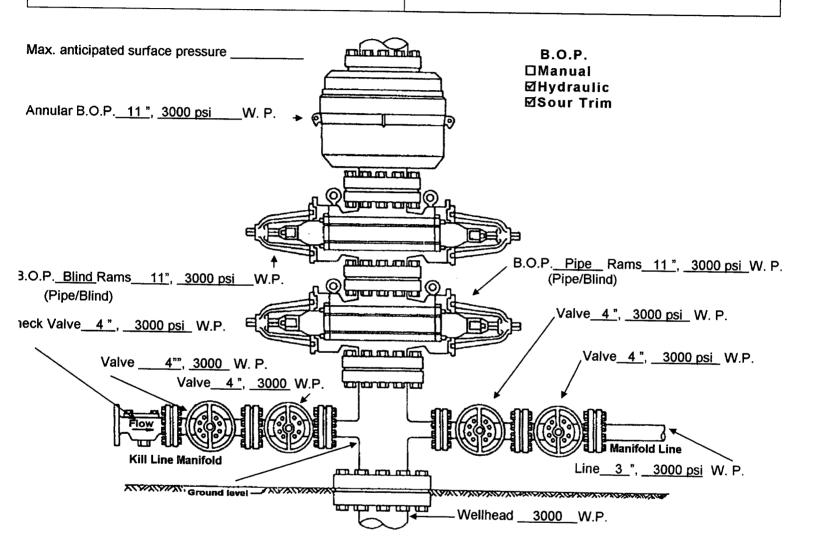


Figure No. 4

CHOKE MANIFOLD DIAGRAM

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

Location: 1980' FSL & 1330' FWL

Unit K, Section 4, T- 4-S, R- 37-E

Roosevelt Co, NM

Applicant

H.L. Brown Operating L.L.C

P.O. Box 2237, Midland Texas 79702

Well name and number

Federal C No. 2

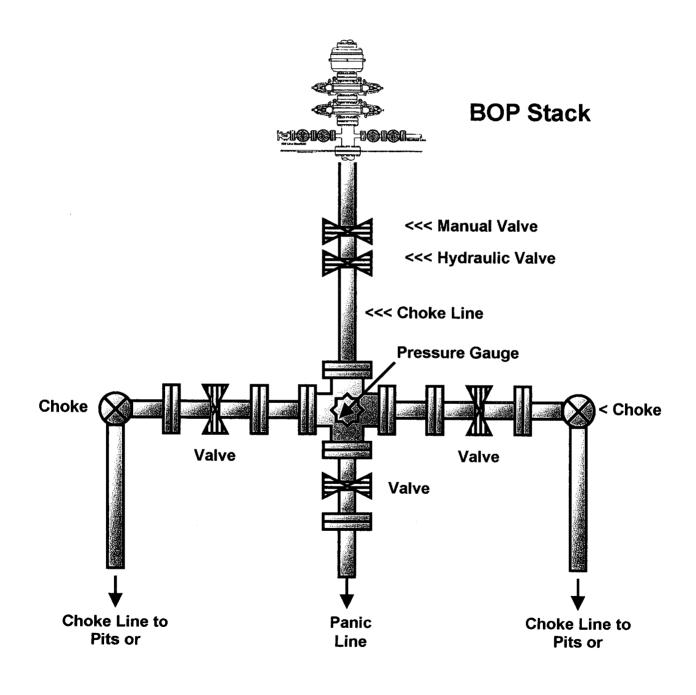


Figure No. 5

WELLHEAD DIAGRAM

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

Location: 1980' FSL & 1330' FWL

Unit K, Section 4, T- 4-S, R- 37-E

Roosevelt Co, NM

Applicant

H.L. Brown Operating L.L.C

P.O. Box 2237, Midland Texas 79702

Well name and number

Federal C No. 2

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

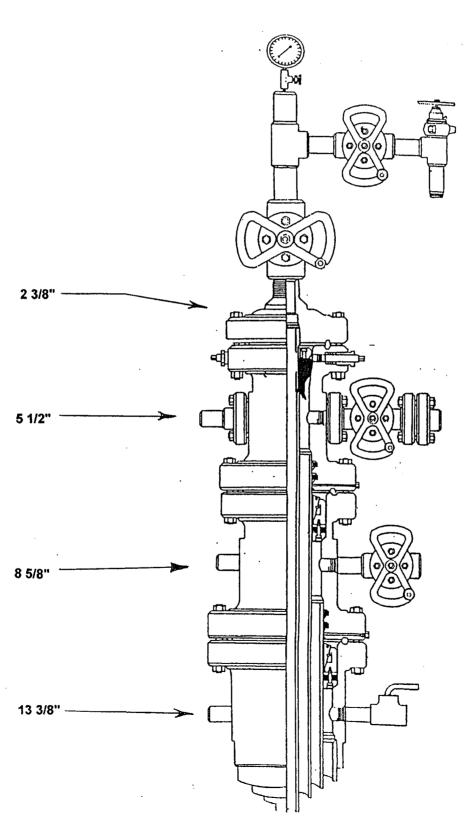


Figure No. 6

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 Name: Federal "C" #2

Lease Number: NM - 21513

Legal Description of Land: E/2 of Section 4, T-8-S, R-37-E, NMPM, Roosevelt

County, New Mexico.

Formations: All uncommitted mineral interests from 5000' to total depth.

Bond Coverage: Statewide

BLM Bond File Number: #0679788

Authorized Signature:

Name: Robert McNaughton

Title: Operations Manager/ Engineer

Date: October 5, 2004

1. (For BLM Use) BLM Report No. 2. (For BLM Use) Reviewer's Initials/Date				3. NMCRIS Number: 90128			
	Accepted ()	Rejected ()			·		
4. Type of Report:	Negative (X)	Positive (()			
5. Title of Report: A Cultural Resort and Access Road	urce Survey for the	Federal "C" No.	2 Well Pad	6. 1	Fieldwork Da	ate(s): September 21, 2004	
Author(s): Justin Rein				7. F	Report Date:	September 21, 2004	
8. Consultant Name/Address: Mes	sa Field Services			t . ,	Cultural Doc	ource Permit No.: 153-2920-03-N	
Direct Charge: Theresa Straight			İ	3.	Juliulai Ness	ource Permit No.: 153-2920-03-N	
Field Personnel Names: Justin Rein	n		ļ				
Address: P.O. Box 3072 Carlsbad, New Mexico 882	221-3072			10.	Consultant I	Report No.: MFS-1077	
Phone (505) 628-8885			1				
11. Customer Name: H.L. Brown Operation Responsible Individual: Robert McN	_		12. Cus	tome	r Project No.	:	
Address: P.O. Box 2237 Midland, TX 79702							
Phone: (432) 688-3726 13. Land Status		T_,,					
	BLM	State	Private		Other	Total	
a. Area of Effort (some)	8.90					8.90	
b. Area of Effect (acres)	4.51					4.51	
		Width 600 ft dth 100 ft	<u>t</u>				
15. Location (Map[s] Attached):							
a. State: New Mexico							
b. County: Roosevelt County							
c. BLM Office: Roswell Field Office							
d. Nearest City or Town: Bluit, NM							
e. Legal Description: T 8 S, R 37 E,	, Section 4: N½ SW	r/.					
f. Well Pad Footages: The Federal	'C" No. 2 is centere	d 1,980 feet from	the north line	and 1,	.330 feet from	o the west line of Section 4	
g. USGS 7.5' Map Name(s), Date(s)							

16. Project Data:

- a. Records Search: Date(s) of BLM File Review: September 21, 2004 Name of Reviewer(s): Justin Rein
 Date(s) of ARMS Data Review September 16, 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 were located within one mile of the project area.
- b. Description of Undertaking: H.L. Brown Operating plans to construct the Federal "C" No. 2 well pad and access road. The project is located in T 8 South, Range 37 East, Section 4. The proposed well is centered 1,980 feet from the south line and 1,330 feet from the west line of Section 4. 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 an existing lease road and travels approximately 710 ft south, then 20 ft east, to the southwest comer of the proposed pad. The access road will impact a 50 ft wide corridor, yet a 100 ft wide corridor was surveyed. Approximately 450 ft of the proposed road falls within the well pad survey and was not included in the total survey acres. In all, 8.90 acres was surveyed, entirely on private property with federal mineral rights administered by the BLM-CFO.
- c. Environmental Setting (NRCS soil designation; vegetative community; elevation; etc.): The project area is located 1.5 miles northeast of Bluit, New Mexico. Overall the terrain is flat with occasional undulations and dunal ridges. The project area slopes gradually towards the south at a grade of well under one percent. Soils consist of sandy deposits of the Brownfield-Patricia-Tivoli association as defined by the Soil Conservation Service of the U.S. Department of Agriculture. Local vegetation includes shin oak, grasses, broom snakeweed, yucca, and various low forbs. 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 Tatum, New Mexico from the Western Regional Climate Center online database. From 1919 to 2003, Tatum received an annual precipitation of 16.04 inches. July through September were the wettest months while December through February were the driest. During the same time, Tatum had an average high temperature of 74.7 degrees Fahrenheit and an average low temperature of 42.0 degrees Fahrenheit. January was the coldest month with an average high of 55.4 degrees Fahrenheit, while July was the warmest with an average high temperature of 92.5 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 materials were 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-RFO should be notified.

19.

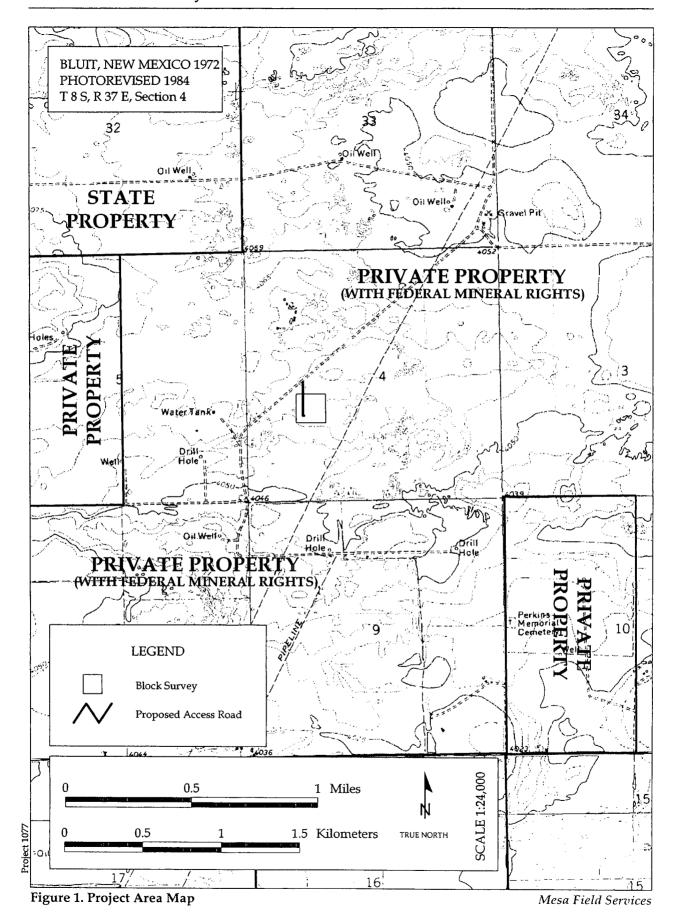
I certify the information provided above is correct and accurate and meets all applicable BLM standards.

Responsible Archaeologist_

Signature -

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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.



Submit 3 Copies To Appropriate District	State of 1	New Me	exico		Form C-103
Office (District I	Energy, Minerals	and Natu	ıral Resources		March 4, 2004
1625 N. French Dr., Hobbs, NM 88240				WELL API NO.	200 -
District II	OIL CONSERV	ATION	DIVISION		1-20910
1301 W. Grand Ave., Artesia, NM 88210 District III	1220 South			Indicate Type	
1000 Rio Brazos Rd., Aztec, NM 87410					FED FEE
District IV	Santa Fe	e, MM 8	/505	6. Federal Oil &	Gas Lease No.
1220 S. St. Francis Dr., Santa Fe, NM 87505				NM - 21513	
	ES AND REPORTS OF	N WELLS	3	7. Lease Name of	or Unit Agreement Name
(DO NOT USE THIS FORM FOR PROPOS.					
DIFFERENT RESERVOIR. USE "APPLICATION PROPOSALS.)	ATION FOR PERMIT" (FORI	M C-101) F	OR SUCH	Federal '	'C"
1. Type of Well:				8. Well Number	
Oil Well Gas Well	Other				
2. Name of Operator				2	
H.L. Brown Operating L.L.	~			9. OGRID Nur 213179	noer
3. Address of Operator				10. Pool name o	* Wildoot
300 West Louisiana, Midlan	d Towns 70702				
4. Well Location	iu, rexas /9/02			Bluitt Wolfe	сашр
1	009 6 6 4	G - 41-			TT
Unit Letter: K : 19	80' feet from the	South	line and <u>1330</u>	feet from the	West line
Section 4 Tox	vnship T-8 Ra	ange R-	37-E NMPM	Rooseve	lt County
	11. Elevation (Show wh				County
	11. 210 (4410)11 (2010)11	4062			
Pit or Below-grade Tank Application (For	pit or below-grade tank closu			d)	
Pit Location: UL K Sect 4	Township 8-S Ra	inge 37.	-E Pit type drilli	าฮ	
Depth to Groundwater 176' Distance					on 2000? West ***
Below-grade Tank Location ULSec	tIwpRng_	;	feet from the	line and	feet from theline
12. Check A NOTICE OF INTERPORT REMEDIAL WORK TEMPORARILY ABANDON TEMPORARILY ABANDON PULL OR ALTER CASING			1	SEQUENT RE	
OTHER: Construct reserve pit for o		Ø	OTHER:		П
13. Describe proposed or completed operation	ns (Clearly state all pertinent det		partinent datas, including act	imated data of stadio	CEPTER 1102
For Multiple Completions: Attach wellb	ore diagram of proposed completic	on or recomple	etion.	imated date of starting any	proposed work). SEE RULE 1103.
According to the State Land Office fi	les, the closest actual wa	ter depth	measurement is in S	ection 5, T-8-S, R-	-37-E. at 176'
-	·	•	_		-, a. 1.0 .
337'11 ' 1 1 10 '11'					
Will use a single layer - 12 mil liner a	s per BLM and NMOCI) requiren	nents.		
			-		
I hereby certify that the information a	hove is true and complet	te to the b	est of my knowledge	e and belief. I furth	ner certify that any pit or below-
	oove is true and complet	-			
grade tank has been/will be constructed or c	losed according to NMOCD	guidelines [⊠, a general permit 🔲	or an (attached) alteri	native OCD-approved plan 🛄. –
grade tank has been/will be constructed or c	losed according to NMOCD TITLE		⊠, a general permit □ ations Manager/ Pet		native OCD-approved plan □. DATE <u>/0- 06- 0</u>
grade tank has been/will be constructed or c	losed according to NMOCD	Open		roleum Engineer	DATE 10-06-0
SIGNATURE Type or print name Robert McNau	losed according to NMOCD TITLE	Open	ations Manager/ Pet	roleum Engineer	DATE 10-06-0
SIGNATURE SIGNATURE	losed according to NMOCD TITLE	Open	ations Manager/ Petitm@hlboperating.cc	roleum Engineer	DATE <u>///- 06- 0</u>
Type or print name Robert McNau; (This space for State use)	osed according to NMOCD TITLE ghton E-mail addres	Opera	ations Manager/ Petitm@hlboperating.cc	roleum Engineer	DATE <u>/0- 06- 0</u> 9 No. 432-688-3726 NOV 2 9 2004
SIGNATURE Type or print name Robert McNau	osed according to NMOCD TITLE ghton E-mail addres	Open	ations Manager/ Petitm@hlboperating.cc	roleum Engineer	DATE <u>///- 06- 0</u>

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