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H. L. BROWN, JR.

323 West Missouri Post Office Box 2237 Midland, Texas 79701 915 683-5216

October 8, 1976

United States Geological Survey Post Office Box 1157 Hobbs, New Mexico 88240

Re: H. L. Brown, Jr., Federal "H" No. 1 Roosevelt County, New Mexico

Gentlemen:

ı,

In order to comply with NTL-6, the following information is presented below to accompany the attached Form 9-331C on the subject well.

1. The geologic name of the surface formation is Ogallala.

2. The estimated tops of important geologic markers are as follows:

Rustler	2100'
Yates	2550'
San Andres	3690'
АЬо	7010'
Wolfcamp Porosity	8020'

3. The estimated depths at which anticipated water, oil, gas and other mineral-bearing formation's are expected to be encountered are as follows:

Water oil	none anticipated none anticipated other than the condensate in
	in the Wolfcamp pay at 8020'
Gas	there is a depleted gas zone in the San Andres at 3690'; there is gas in the Wolfcamp at 8020'

Other Hinerals none anticipated

4. The proposed casing program is as follows:

SIZE	GRADE	WEIGHT/FOOT	NEW OR USED	DEPTH
12 3/4" OD	X-42	49#	New	500'
8 5/8" OD	K-55	24# & 32#	New	3700'
4 1/2" OD	N-80	11.6#	New	8300'

Page 2 H. L. Brown, Jr. USGS

5. Minimum specifications for pressure control equipment to be used are as follows: 3000 psi working pressure,

Double Stack with pipe ram in upper and blind rams in lower stack, Adapter spool under the BOP's to have kill line on one side with check valve and ball valve, and choke manifold on other side with bleed-off line. (see attached diagram)

6. The types and characteristics of the proposed circulating medium are as follows:

0 - 8000' Fresh water 8000 - 8300' 9.0#/gal gel with viscosity of 36; lower fluid loss with starch.

- 7. The auxiliary equipment to be used is as follows:
 - (1) Kelly cock in mud line above swivel,
 - (2) Floats at the bit none planned,
 - (3) Monitoring equipment on the mud system no automatic system planned; will use visual testing and inspection by rig and mud company personnel,
 - (4) A sub will be on the floor with full opening valve to be stabbed into drill pipe when the kelly is not in the string.
- 8. There will be no drill stem testing or coring in this proposed well. This is a development well; therefore the only log to be run will be a cased hole Gamma Ray - Neutron survey from total depth to 3690'.
- 9. There are no anticipated abnormal pressures or temperatures to be encountered. Should hydrogen sulfide gas be unexpectedly encountered, a plan is posted at the rig (MGF Drilling Company of Midland, Texas) to handle such emergency and rig personnel are reviewed periodically on these procedures.
- 10. The anticipated starting date is October 20, 1976 and the drilling operations should cease on or about November 10, 1976. Completion of the well should be accomplished by November 20, 1976.

J. L. McGill Drilling and Production Manager

Encl. JLMc/jsd

H.L. Brown, Jr. Federal H-1 Blow Out Freventor Diagram Elow Line Fill Line 4" Pipe Rams Shafer Type 39 Bood-psi WP 3000 psi W.P. Flanges Blind Rams Shafer Type 39 Choke Manifold. 5000 pai w.P. 3000 psi WP X Bleed Line Mud Line Blind Rama are tosted daily w/ OP out of bolo; Pipe Rivers are forted daily of DP in hore; तरन ्य वंध्राः सरन ्या वंध्राः Adainanal teste :33 # 1 A

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Form C-102 Supersedes C-128 File tive 1-1-65

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MULTI-POINT SURFACE USE AND OPERATIONS PLAN

H. L. BROWN, JR. WELL NO. 1 FEDERAL "H" 990' FSL and 1650' FEL Sec. 5, 8-S, 37-E Roosevelt County, New Mexico Lease New Mexico 28054

1.4.15.15.1

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 disturbance involved, and the procedures to be followed in rehabilitating the surface after completion of the operation so that a complete appraisal can be made of the environmental effects associated with the operation.

1. EXISTING ROADS:

- A. Exhibit "A" is a portion of a highway map showing the location of the proposed well as staked. Approximately 8 1/2 miles east of Milnesand on State Highway 262, just before the Highway makes a sharp right-angle turn to the South, turn in North across a cattleguard on a lease road. An H. L. Brown, Jr. sign is located at this turn-off. The lease road makes a right turn and proceeds East one mile from the turn-off to an access road that turns left to an abandoned well location approximately 1/4 mile North of the lease road. The abandoned well has a marker labeled 990' FEL & FWL of Section 5, 8-S, 37-E. The new road to be constructed commences on the Northwest portion of the abandoned location and proceeds North, as staked, to the proposed location.
- B. Exhibit "B" is a plat showing all existing roads within a onemile radius of the wellsite, and the planned access road.
- C. There are no plans to improve or repair any of the existing roads at this time; however, this is an area where H. L. Brown, Jr. operates eight gas wells and the existing roads have been maintained in the past and that practice will continue in the future.

2. PLANNED ACCESS ROADS:

A. <u>Length and Width</u>: New road required will be 12 feet wide and 560 feet long. This new road is labeled and color coded yellow on Exhibit "B". 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 MATEPIAL</u>: Six inches of caliche, water, compacted and graded.
- C. MAXIMUM GRADE: Three percent.
- D. <u>TURNOUTS</u>: No turnouts will be necessary on this short addition of access road; however, the abandoned location does provide the equivalent of a turnout.
- E. <u>DRAINAGE DESIGN</u>: New road will have a drop of 6 inches from center line on each side.
- F. CULVERTS: None required.
- G. CUTS AND FILLS: None required.
- H. GATES, CATTLEGUARDS: No gates or cattleguards are required.

3. LOCATION OF EXISTING WELLS:

A. Existing wells within a one-mile (plus) radius are shown on Exhibit "B".

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:

- A. There is no tank battery, flow lines nor any other existing equipment on this lease owned by H. L. Brown, Jr.
- B. If the well is productive, the tank battery and flow line will be located on the well pad and no additional surface disturbance will occur.

5. LOCATION AND TYPE OF WATER SUPPLY:

A. Water for drilling will be purchased from the surface land owners, Mr. Arlen Perkins and Mr. Alton Perkins, from an earthen tank located 1400 feet south of the proposed location by the existing road. The water line will be laid along the access road to the proposed well so that additional surface area is not disturbed. The line will be removed after drilling is completed.

6. SOURCE OF CONSTRUCTION MATERIALS:

A. Caliche for surfacing the road and the well pad will be obtained from an existing pit in SE/4, SE/4 Section 33, T-7-S, R-37-E, approximately one mile Northeast of the proposed well location. The pit is on land owned by Mr.Ross Ainsworth of Milnesand, New Mexico. Location of the pit is shown on Exhibit "B"

- 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.
 - C. Mater produced during tests will be disposed of in the drilling pits. Oil produced during tests will be stored in test tanks until sold.
 - D. Current laws and regulations pertaining to the disposal of human waste will be complied with.
 - E. Trash, waste paper, garbage, and junk will be buried in a separate trash pit and covered with a minimum of 24 inches of soil. All waste material will be contained to prevent scattering by the wind. Location of trash pit is shown on Exhibit "C".
 - F. All trash and debris will be buried or removed from the wellsite within 30 days after finishing drilling and/or completion operations.

3. ANCILLERY FACILITIES:

A. None required.

9. WELLSITE LAYOUT:

- A. Exhibit "C" shows the relative location and dimensions of the well pad, mud pits, reserve pit, trash pit and location of major rig components.
- B. Cutting and levelling of sand dunes up to 6 feet high will be necessary to construct the location.
- C. The reserve pit will be plastic lined.
- D. The pad and pit area has 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 operations will be removed. Pits will be filled and location cleaned of all trash and junk to leave the wellsite in an 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 owner. Pits will be filled and location will be cleaned. The pit area, well pad, and all unneeded access road will be ripped to promote revegetation. Rehabilitation should be accomplished within 90 days after abandonment.

11. OTHER INFORMATION:

- A. <u>TOPOGRAPHY</u>: Land surface is undulating to gently rolling and duny. From an elevation of 4051 feet at the wellsite, the land surface slopes gently toward the South at about 30 feet per mile.
- B. SOIL: Soil is a deep fine sand underlain by caliche.
- C. <u>FLORA AND FAUNA</u>: The vegetative cover is generally sparse and consists of mesquite, yucca, shinnery oak, sandsage and perenial native range grasses. Wildlife in the area is that typical of semi-arid desert land and includes coyotes, rabbits, rodents, reptiles, dove, quail, and an occasional antelope.
- D. <u>PONDS AND STREAMS</u>: There are no rivers, streams, lakes or ponds in the area.
- E. <u>RESIDENCES AND OTHER STRUCTURES</u>: The nearest occupied dwelling is a ranch house 1 3/4 miles Southeast of the wellsite. The nearest operating water well is 1400 feet South; however there is another water well 200 feet Northeast, standing, without a pump.
- F. <u>ARCHEOLOGICAL</u>, HISTORICAL AND CULTURAL SITES: None observed in the area.
- G. LAND USE: Grazing and hunting in season.
- H. <u>SURFACE OWNERSHIP</u>: Wellsite and the new road are on surface owned by Arlen and Alton Perkins.

12. OPERATOR'S REPRESENTATIVES:

The field representatives responsible for assuring compliance with the approved surface use and operations plan are as follows: Page 5 H. L. Brown, Jr. Operations Plan

> J. L. McGill (915) 697-1539 (home) Harold Dumas (915) 697-1403 (home)

Both above are officed at 323 W. Missouri, Midland, Texas 79701 (915) 683-5216

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 this 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, Jr. and his contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

October 8, 1976 Date

Drilling & Production Manager

Encl. JLMc/jsd

H. L. BROWN, JR. 323 West Missouri Post Office Box 2237 Midland, Texas 79701 915 683-5216

October 6, 1976

United States Geological Survey Post Office Box 1157 Hobbs, New Mexico 83240

Re: H. L. Brown, Jr's Federal H Well #1 Roosevelt Co., New Mexico

Gentlemen:

This is to advise you that we have reached an agreement with the surface owner, Mr. Arlen Perkins, concerning right-of-way and location payments for the subject well.

It is our intention to restore the area as nearly as possible to its original condition which will include the following:

- 1. Remove all trash from location area.
- 2. Break out and smooth over reserve pit.
- 3. Clean location and restore original condition where possible.

Yours very truly,

H. L. BROWN, JR.

J. L. McGill Drilling & Production Manager

JLMc/jsd



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<u>L-es Serv</u> <u>5 - 77</u> <u>7730</u> <u>19'</u> 4 <u>5 - 6'</u> <u>1</u> <u>2</u> - 2435	2123 2:11 U.S. 3. 0750010 3. 1. 82 5500 201500 1. 1. 102 50070 1. 1. 102 50070 1. 1. 102 1. 1. 102 50070 1. 1. 102 1. 1	13.16 1.0 K Frenklin, 1.17.10 Astan E Sar 1.92.17 1.17.17 Astan E Sar 1.92.17 1.17.17 Frenklin, Astan Frenklin, Astan 1.17.17 Frenklin, Astan Frenklin, Astan </td <td>USRAA is periton C. J. Baret 5 - 1 5 - 1 - 83 18240 J.I.O'Neill Franklin, 1 A N. Rupe Aston & Foir 7 - 1 - 77 12116 2591 J.L.McCiellan IMmstra 14-77 KGS 9-1-72 14-10 - 12 14-77 KGS 9-1-72 14-70 KGS 9-100 KGS 9-100 14-70 KGS 9-100 KGS 9-100 14-70 KGS 9-100 KGS 9-100 KGS 9-1</td> <td>$\begin{array}{c c} R.N.Finsworth(S) & rises \\ \hline R.N.Finsworth(S) & rises \\ \hline rises \\ rises \\ \hline rises \\ rises \\ \hline rises \\ rises \\ \hline rises \\ rises \\ rises \\ \hline rises \\ rises \\ \hline rises \\ rises \\$</td> <td>2 So. Patr. Prom. 1 H.L. H.B. 16.60 24.538 Fetro Grande Mona Tomingrom Tomingrom Tomingrom Tomingrom Cases 27 NT Cases 27 NT</td> <td>R(CBiswind) 2:2:30 1:6 27 (3) (3) Petro, (1) So Petro Grande Petro Grande 1:1</td>	USRAA is periton C. J. Baret 5 - 1 5 - 1 - 83 18240 J.I.O'Neill Franklin, 1 A N. Rupe Aston & Foir 7 - 1 - 77 12116 2591 J.L.McCiellan IMmstra 14-77 KGS 9-1-72 14-10 - 12 14-77 KGS 9-1-72 14-70 KGS 9-100 KGS 9-100 14-70 KGS 9-100 KGS 9-100 14-70 KGS 9-100 KGS 9-100 KGS 9-1	$\begin{array}{c c} R.N.Finsworth(S) & rises \\ \hline R.N.Finsworth(S) & rises \\ \hline rises \\ rises \\ \hline rises \\ rises \\ \hline rises \\ rises \\ \hline rises \\ rises \\ rises \\ \hline rises \\ rises \\ \hline rises \\ rises \\$	2 So. Patr. Prom. 1 H.L. H.B. 16.60 24.538 Fetro Grande Mona Tomingrom Tomingrom Tomingrom Tomingrom Cases 27 NT Cases 27 NT	R(CBiswind) 2:2:30 1:6 27 (3) (3) Petro, (1) So Petro Grande Petro Grande 1:1
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U. S. CEOLOGICAL SURVEY P. O. Box 1157 Hobbs, New Mexico 88240

HOBBS DISTRICT

H. L. Brown, Jr. No. 1 Federal "H" NE¼SE¼ Sec. 5-8S-37E Roosevelt County, N. M.

Above Data Required on Well Sign

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CONDITIONS OF APPROVAL

- 1. Drilling operations authorized are subject to the attached sheet for general requirements for drilling and producing operations.
- 2. Notify this office (telephone (505) 393-3612) when the well is spudded and in sufficient time for a representative to witness cementing operations.
- 3. Immediate notice is required of all blowouts, fires, spills, and accidents involving life-threatening injuries or loss of life.
- 4. Secure prior approval before changing the approved drilling program or commencing plugging operations, plug-back work, casing repair work, or corrective cementing operations.
- 5. Blowout prevention equipment is to be installed, tested, and in working order before drilling below the surface casing and shall be maintained ready for use until drilling operations are completed.
- 6. A kill-line is to be properly installed and is not to be used as a fill-up line.
- 7. Blowout preventers are to have proper casing rams when running casing.
- 8. Drill string safety valve(s) to fit all pipe in the drill string to be maintained on the rig floor while drilling operations are in progress.
- 9. Blowout prevention drills are to be conducted as necessary to assure that equipment is operational and that each crew is properly trained to carry out emergency duties. All BOP tests and drills are to be recorded on the deiller's log.
- 10. 12-3/4" surface casing should be set in the Rustler Anhydrite formation and cement circulated to the surface. If surface casing is set a lesser depth, the 8-5/8" casing must be cemented from the casing shoe to the surface or cemented to the surface through a stage tool set at least 50 feet below the top of the Rustler after cementing around the shoe with the specified amount of cement.
- 11. Operations must be in compliance with the provisions of the landowner agreement concerning surface disturbance and surface restoration.
- 12.

If, during operations, the operator or any person working in his behalf, discover any historic or prehistoric ruin, monument or site, or any object of antiquity subject to the Antiquities Act of June 8, 1906, (34 Stat. 225, 16 U.S.C. Secs. 431-433), and 43 CFR Part 3, then work will be suspended and the discovery promptly reported to the District Manager. The Bureau will then take such action as required under the Act and regulations thereunder. When directed by the District Manager, the operator will obtain, at his expense, a qualified archaeologist to examine and, if necessary average of action and the discovery of the such action and the such action and the discovery promption of the such action as the such action as the such action as required under the Act and regulations thereunder. When directed by the District Manager, the operator will obtain, 13. All access roads constructed in conjunction with the drilling permit should be limited to <u>/?</u> feet in width, along with turnouts. If well is a producer, all roads will be adequately drained to control runoff and soil erosion. Drainage facilities may include ditches, water bars, culverts and/or any other measure deemed necessary by the responsible BLM representative.