N.M. Oil Cons. DIV-Dipt. 2

1301 W. Grand Avenue

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

1 ,6-16

DEPARTMENT OF THE INTERIOACTESIA. NM 88210 5. Lease Serial No.

BUREAU OF LAND MANA	AGEMENT				TC-029415-B	
APPLICATION FOR PERMIT TO I		EENTEF	₹		6. If Indian, Allottee or T	ribe Name
1a. Type of Work: DRILL REENT	ER				7. If Unit or CA Agreemer	nt, Name and No.
1b. Type of Well: Oil Well Gas Well Other	☐ Si	ngle Zone	☐ Multi	ple Zone	8. Lease Name and Well No Francotte Federal #1	35172
2. Name of Operator					9 API Well No.	_
Hudson Oil Company of Texas 2511					30-015-	
3a. Address	3b. Phone No	. (include d	irea code)		10. Field and Pool, or Explo	
616 Texas Street, Fort Worth, TX 76102	817-336-71	⁰⁹ PF	CEIVE	.D		6643
4. Location of Well (Report location clearly and in accordance wit	h any State requi	rements. *)	,		11. Sec., T., R., M., or Blk.	and Survey or Area
At surface 660' FNL & 660' FWL		01	CT 1 7 20	05		
At proposed prod. zone		OCI	PARIL	SIA	Section 12, T17S, R31E	
14. Distance in miles and direction from nearest town or post office*			•		12. County or Parish	13. State
					Eddy	NM_
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any)	16. No. of A	cres in leas	se	17. Spacii	ng Unit dedicated to this well	
18. Distance from proposed location*	19. Proposed Depth 20. BLM. 12700' 585716		BIA Bond No. on file			
to nearest well, drilling, completed, applied for, on this lease, ft.			1			
applied for, on this lease, it.						
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*		23. Estimated duration			
3983' GL	August 6, 2	005			21 Days	
	24. Attac	hments				
The following, completed in accordance with the requirements of Ons	hore Oil and Gas	Order No. 1	, shall be at	tached to th	is form:	
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest Syste SUPO shall be filed with the appropriate Forest Service Office). 	m Lands, the	Item 5. Oper 6. Such	a 20 above). ator certific	ation.	ns unless covered by an exist Cormation and/or plans as ma	· ·

25. Signature

Name (Printed/Typed)

Amy Reid

Date 7/6/2005

Title Land Department

Approved by (Signature)

s/ Joe G. Lara

Name (Printed/Typed) Joe G. Lara

OCT 1 3 2005

Title

D MANAGER

Office

CARLSBAD FIELD OFFICE

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 operations thereon. APPROVAL FOR 1 YEAR

Conditions of approval, if any, are attached

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.

*(Instructions on reverse)

5-10 9.0

Roswell Controlled Water Basin

APPROVAL SUBJECT TO General requirements and SPECIAL STIPULATIONS

Witness Surface Casing

ATTACHED

State of New Mexico

Energy, Minerals and Natural Resources Department

DISTRICT II 1301 W. GRAND AVENUE, ARTESIA, NM 88210

DISTRICT III

OIL CONSERVATION DIVISION 1220 SOUTH ST. FRANCIS DR. Santa Fe, New Mexico 87505

Form C-102 Revised JUNE 10, 2003 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

N MEX

Certificate No. GARY EDISON

MINING PROFESSION

17/05

12641

1000 Rio Brazos Rd., Aztec, NM 87410 DISTRICT IV WELL LOCATION AND ACREAGE DEDICATION PLAT ☐ AMENDED REPORT 1220 S. ST. FRANCIS DR., SANTA FE, NM 87505 Pool Code Pool Name API Number 96663 FREN; MORROW (GAS) Property Code Property Name Well Number FRANCOTTE FEDERAL 1 OGRID No. Operator Name Elevation HUDSON OIL COMPANY OF TEXAS 3983 14049-25 Surface Location Feet from the North/South line UL or lot No. Section Township Range Lot Idn Feet from the East/West line County D 17-S 31-E 660 NORTH **WEST EDDY** 12 660 Bottom Hole Location If Different From Surface Lot Idn Feet from the North/South line UL or lot No. Section Feet from the Township Range Rast/West line County **Dedicated Acres** Joint or Infill Consolidation Code Order No. 320 NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION OPERATOR CERTIFICATION 3988.0 3983.1 I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief. 3977.9 3982.6 AMY REID GEODETIC COORDINATES NAD 27 NME Printed Name LAND DEPARTMENT Y=674948.8 N X=654854.8 E JULY 6, 2005 Date LAT.=32.51'16.21" N LONG. = 103°49'44.63" SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervison, and that the same is true and correct to the best of my belief. MAY 9, 2005 Date Surveyed LA Signature & Sear O

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II
1301 W. Grand Avenue, Artesia, NM 88210
District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

For drilling and production facilities, submit to appropriate NMOCD District Office.

For downstream facilities, submit to Santa Fe

Form C-144

March 12, 2004

office

Pit or Below-Grade Tank Registration or Closure Is pit or below-grade tank covered by a "general plan"? Yes No Type of action: Registration of a pit or below-grade tank Closure of a pit or below-grade tank

Operator: Hudson Oil Company of Texas Te	e-mail address	: land2@marbob.com
Address: 616 Texas Street, Fort Worth, TX 76102		
Facility or well name: Francotte Federal No. 1 API a	#30-015-34388 U/L or Qtr/Qtr NW/4N	W/4 Sec 12 T 17S R 31E
County: Eddy LatitudeLongitude	NAD: 1927 🗌 1983 🔲 Surface Ow	
Pit Type: Drilling ☑ Production ☐ Disposal ☐ Workover ☐ Emergency ☐ Lined ☑ Unlined ☐ Liner type: Synthetic ☒ Thickness 12 mil Clay ☐ Volume bbl	Below-grade tank Volume:bbl Type of fluid: Construction material: Double-walled, with leak detection? Yes If not,	
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)	Less than 50 feet 50 feet or more, but less than 100 feet [100 feet or more]	(20 points) (10 points) (0 points) 0 points
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)	Yes No	(20 points) (0 points) 0 points
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet 200 feet or more, but less than 1000 feet 1000 feet or more	(20 points) (10 points) (0 points) 0 points
	Ranking Score (Total Points)	0 points
If this is a pit closure: (1) attach a diagram of the facility showing the pit's onsite ☐ offsite ☐ If offsite, name of facility	(3) Attach a general description of remedial actio	n taken including remediation start date and end
I hereby certify that the information above is true and complete to the best of r been/will be constructed or closed according to NMOCD guidelines , a Date: October 28, 2005 Printed Name/Title: Melanie J. Parker, Agent (Marba) Your certification and NMOCD approval of this application/closure does not otherwise endanger public health or the environment. Nor does it relieve the oregulations.	general permit , or an (attached) alternative OC DEVEROY CORD Signature	D-approved plan
Approval: Date: NOV 1 2005 Printed Name/Title Field Supervisor	_Signature	

HUDSON OIL COMPANY OF TEXAS DRILLING AND OPERATIONS PROGRAM

Francotte Federal #1 660' FNL & 660' FWL, Unit D **Section 12, T17S, R31E Eddy County, New Mexico**

In conjunction with Form 3160-3, Application for Permit to Drill subject well, Hudson Oil Company of Texas submits the following ten items of pertinent information in accordance with BLM requirements.

- 1. The geological surface formation is Permian.
- 2. The estimated tops of geologic markers are as follows:

Top of Salt	585′	Cisco	9560'
Base of Salt	1790′	Strawn	10850′
San Andres	3680'	Atoka	11900'
Wolfcamp	8290'	Morrow	12350′

3. The estimated depths at which anticipated water, oil or gas formations are expected to be encountered:

Wolfcamp	8290'	Oil
Cisco	9560'	Oil
Strawn	10850'	Gas
Atoka	11900'	Gas
Morrow	12350'	Gas

No other formations are expected to give up oil, gas, or fresh water in measurable quantities. The surface fresh water sands will be protected by setting 13 3/8" casing at 600' and circulating cement back to surface. Any shallower zones above TD which contain commercial quantities of oil and/or gas will have cement circulated across them by inserting a float shoe joint into the 5 1/2" production casing which will be run at TD to sufficiently cover 500' above all known oil and gas horizons.

4. Proposed Casing Program:

os	ed Casing Pi	rogram:	ie COA			
	Hole Size	Interval 1	OD Casing	Wt	Grade	
	17 1/2"	0 – 600′	13 3/8"	48#	H-40	WITNESS
	12 1/4"	0 – 4000′	8 5/8"	32#	Buttress	
	7 7/8"	0 – 12700′	5 1/2"	17#	S95/P-110	

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Proposed Cement Program:

13 3/8" Surface Casing:

Cement w/ 700 sx P+. Circulate to surface.

8 5/8" Intermediate Casing: Cement w/ 1600 sx Class C. Attempt to tie in to 13 3/8"

csq.

5 1/2" Production Casing:

Cement w/ 850 sx Class C. Will bring TOC to 500' above

any oil and/or gas bearing zones.

5. Pressure Control Equipment: See Exhibit 1. Marbob proposes to nipple up on the 13 3/8" casing with a 2M system, testing it to 1000# with rig pumps, then nipple up on the 8 5/8" casing with a 5M system, tested to 5000# before drilling out.

6. Mud Program: The applicable depths and properties of this system are as follows:

Depth S.et	Type	Weight (ppg)	Viscosity (sec)	Waterloss (cc)
0 - 6004	Fresh Wtr	8.4 – 9.2	32 – 36	N.C.
.600 – 4000′	Brine	9.9 – 10.2	28 – 32	N.C.
4000 – 12700′	Cut Brine	8.7 – 9.5	28 – 34	N.C.

- 7. Auxiliary Equipment: Kelly Cock; Sub with full opening valve on floor; and drill pipe connections.
- 8. Testing, Logging and Coring Program:

No drillstem tests are anticipated.

The electric logging program will consist of Dual Laterolog Micro SFL, Spectral Density Dual Spaced Neutron Csng Log, and Depth Control Log. No conventional coring is anticipated.

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- 9. No abnormal pressures or temperatures are anticipated.
- 10. Anticipated starting date: As soon as possible after approval.

HUDSON OIL COMPANY OF TEXAS MULTI-POINT SURFACE USE AND OPERATIONS PLAN

Francotte Federal #1 660' FNL & 660' FWL, Unit D Section 12, T17S, R31E Eddy County, New Mexico

This plan is submitted with Form 3160-3, Application for Permit to Drill, covering the above described well. The purpose of this plan is to describe the location of the proposed well, the proposed construction activities and operations plan, the magnitude of the surface disturbance 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 effect associated with the operations.

1. EXISTING ROADS:

Exhibit 2 is a portion of a topo map showing the well and roads in the vicinity of the proposed location. The proposed wellsite and the access route to the location are indicated in red on Exhibit 2.

DIRECTIONS:

On US Hwy 82 at mile marker 140.5, turn northwest on caliche road (at Wiser Oil Co. sign) and go 0.3 miles to good caliche road on right, turn right (north) and follow meandering main caliche road approximately 1.5 miles to a caliche road on right. Turn right (east) and go 0.4 miles to where the road turns north and continue appox. 2450' to road survey stake on the right. Follow road survey approximately 1172' to location.

2. PLANNED ACCESS ROAD:

A new access road of 1172' will be necessary. The new road will be constructed as follows:

- A. The maximum width of the running surface will be 10'. The road will be crowned and ditched and constructed of 6" of rolled and compacted caliche. Ditches will be at 3:1 slope and 4 feet wide. Water will be diverted where necessary to avoid ponding, prevent erosion, maintain good drainage, and to be consistent with local drainage patterns. BLM may specify any additions or changes during the onsite inspection.
- B. The average grade will be less than 1%.
- C. No turnouts are planned.
- D. No culverts, cattleguard, gates, low-water crossings, or fence cuts are necessary.

HUDSON OIL COMPANY OF TEXAS HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

I. HYDROGEN SULFIDE TRAINING

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well:

- A. The hazards and characteristics of hydrogen sulfide (H_2S) .
- B. The proper use and maintenance of personal protective equipment and life support systems.
- C. The proper use of H₂S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
- D. The proper techniques for first aid and rescue procedures.

In addition, supervisory personnel will be trained in the following areas:

- A. The effects of H₂S on metal components. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
- B. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
- C. The contents and requirements of the H₂S Drilling Operations Plan and the Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable H₂S zone (within 3 days or 500 feet) and weekly H₂S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H₂S Drilling Operations Plan and the Public Protection Plan. This plan shall be available at the well site. All personnel will be required to carry documentation that they have received the proper training.

II. H₂S SAFETY EQUIPMENT AND SYSTEMS

Note: All H₂S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonably expected to contain H₂S.

A. Well Control Equipment:

Flare line.

Choke manifold.

Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit.

Auxiliary equipment to include: annular preventer, mud-gas separator, rotating head.

B. Protective equipment for essential personnel:

Mark II Surviveair 30-minute units located in the dog house and at briefing areas.

C. H₂S detection and monitoring equipment:

2 - portable H_2S monitor positioned on location for best coverage and response. These units have warning lights and audible sirens when H_2S levels of 20 ppm are reached.

D. Visual warning systems:

Caution/Danger signs shall be posted on roads providing direct access to location. Signs will be painted a high visibility yellow with black lettering of sufficient size to be readable at a reasonable distance from the immediate location. Bilingual signs will be used, when appropriate. See example attached.

E. Mud Program:

The mud program has been designed to minimize the volume of H₂S circulated to the surface.

A mud-gas separator will be utilized.

F. Metallurgy:

All drill strings, casings, tubing, wellhead, blowout preventers, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H₂S service.

G. Communication:

Company vehicles equipped with cellular telephone and 2-way radio.

WARNING

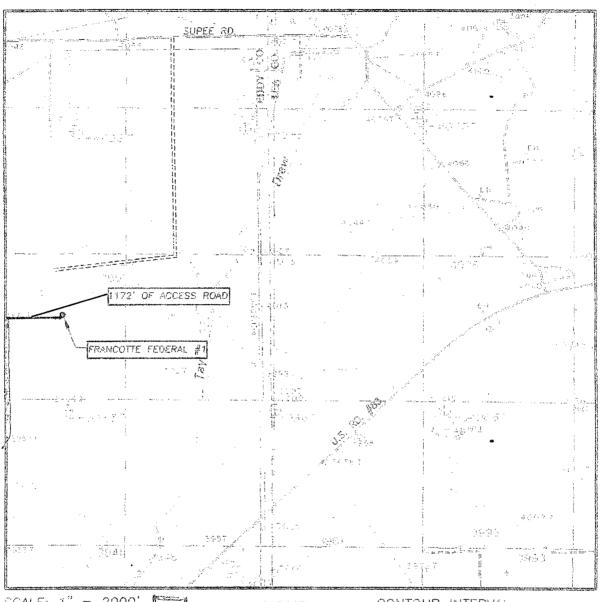
YOU ARE ENTERING AN H₂S AREA AUTHORIZED PERSONNEL ONLY

- 1. BEARDS OR CONTACT LENSES NOT ALLOWED
- 2. HARD HATS REQUIRED
- 3. SMOKING IN DESIGNATED AREAS ONLY
- 4. BE WIND CONSCIOUS AT ALL TIMES
- 5. CK WITH MARBOB FOREMAN AT MAIN OFFICE

HUDSON OIL COMPANY OF TEXAS

1-505-748-3303

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

RED - EXISTING ROAD BLUE ACCESS ROAD

CONTOUR INTERVAL: MALJAMAR, N.M. - 10'

SEC. 12 .TWP. 17-S. RGE. 31-E

SURVEY N.M.P.M.

EDDY COUNTY___

DESCRIPTION 560' FNL & 660' FWL

ELEVATION. 3983'

HUDSON OIL COMPANY OF TEXAS OPERATOR_

LEASE FRANCOTTE FEDERAL

U.S.G.S. TOPOGRAPHIC MAP

MALJAMAR, N.M.



PROVIDING SURVEYING SERVICES SINCE 1946 IOHN WEST SURVEYING COMPANY 412 N. DAL PASO HOBBS, H.M. 69240 (505) 323-3117

CONDITIONS OF APPROVAL - DRILLING

Operator's Name:

Hudson Oil Company of Texas

Well Name & No.

Francotte Federal #1

Location:

660' FNL, 660' FWL, Section 12, T. 17 S., R. 31 E., Eddy County, New Mexico

Lease:

LC-029415-B

I. DRILLING OPERATIONS REQUIREMENTS:

- 1. The Bureau of Land Management (BLM) is to be notified at the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (505) 361-2822 for wells in Eddy County in sufficient time for a representative to witness:
 - A. Well spud
 - B. Cementing casing: 13-3/8 inch 8-5/8 inch 5-1/2 inch
 - C. BOP tests
- 2. A Hydrogen Sulfide (H2S) Drilling Operation Contingency Plan shall be activated prior to drilling into the Queen formation. A copy of the plan shall be posted at the drilling site.
- 3. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
- 4. Submit a Sundry Notice (Form 3160-5, one original and five copies) for each casing string, describing the casing and cementing operations. Include pertinent information such as; spud date, hole size, casing (size, weight, grade and thread type), cement (type, quantity and top), water zones and problems or hazards encountered. The Sundry shall be submitted within 15 days of completion of each casing string. The reports may be combined into the same Sundry if they fall within the same 15 day time frame.
- 5. The API No. assigned to the well by NMOCD shall be included on the subsequent report of setting the first casing string.

II. CASING:

- 1. The 13-3/8 inch surface casing shall be set at approximately 710 feet or 25 feet into the top of the Rustler Anhydrite and cement circulated to the surface. If cement does not circulate to the surface the appropriate BLM office shall be notified and a temperature survey or cement bond log shall be run to verify the top of the cement. Remedial cementing shall be completed prior to drilling out that string.
- 2. The minimum required fill of cement behind the 8-5/8 inch first intermediate casing is to be circulated to the surface.
- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is to be sufficient to reach at least 500 feet above the uppermost hydrocarbon productive interval.

III. PRESSURE CONTROL:

- 1. All BOP systems and related equipment shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2. The BOP and related equipment shall be installed and operational before drilling below the 13-3/8 inch casing shoe and shall be tested as described in Onshore Order No. 2. Any equipment failing to test satisfactorily shall be repaired or replaced.
- 2. Minimum working pressure of the blowout preventer and related equipment (BOPE) from base of surface casing to 4000 feet shall be 2000 psi. Test to 1000 psi with rig pumps is ok.
- 3. Minimum working pressure of the blowout preventer and related equipment (BOPE) from base of intermediate 7/13/2005 1

casing shall be 5000 psi.

- 4. The appropriate BLM office shall be notified in sufficient time for a representative to witness the tests.
- The tests shall be done by an independent service company.
- The results of the test shall be reported to the appropriate BLM office.
- Testing fluid must be water or an appropriate clear liquid suitable for sub-freezing temperatures. Use of drilling mud for testing is not permitted since it can mask small leaks.
- Testing must be done in a safe workman-like manner. Hard line connections shall be required.

IV. DRILLING MUD:

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the <u>Wolfcamp</u> formation, and shall be used until production casing is run and cemented. Monitoring equipment shall consist of the following:

- Recording pit level indicator to indicate volume gains and losses.
- Mud measuring device for accurately determining the mud volumes necessary to fill the hole during trips.
- Flow-sensor on the flow-line to warn of abnormal mud returns from the well.

7/13/2005 acs



October 18, 2005

Oil Conservation Division 1301 W. Grand Ave. Artesia, NM 88210

Attention: Bryan Arrant

Re: Francotte Federal #1

660' FNL & 660' FWL Section 12, T17S, R31E Eddy County, New Mexico

30-015-34388

Dear Bryan:

We plan to complete this well in the Morrow which is sweet and <u>we don't anticipate cutting any formations that contain H2S gas</u> during the drilling of the above referenced well. Therefore, we do not believe that an H2S contingency plan is necessary.

If you have questions or need further information, please call.

Sincerely.

Amy Johnson Land Department

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