Form 3160- 5 (April 2004)

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

FORM APPROVED OMB No. 1004- 0137

	Expires: March 31, 2007	
Lease	Serial No.	•
	. 455	

SUN	Contract 45	Contract 457					
Do n	6. If Indian, Allottee, or Tribe Name						
aband	Jicarilla Apache						
	IPLICATE - Other Instru	ıctions on reverse si	de.:	7. If Unit or CA	Agreement Name and/or No.		
1. Type of Well Oil Well Gas Well	Other	DEC 1 9 20	07	8. Well Name a	nd No.		
2. Name of Operator		- UEU II SI (VI	<u>'U,</u>	Jicarilla 457	7-04 #22		
Black Hills Gas Resources		and Ms	nagement	9. API Well No.	•		
3a. Address		35. Phone No. (incluing	de area code)	30-039-3029	96		
3200 N 1st Street PO Box 2	49 Bloomfield, NM 874	13 505-634-1111	ext 27	10. Field and Po	ool, or Exploratory Area Cubres		
4. Location of Well (Footage, Sec., T.	, R., M., or Survey Description)	-		E. Blanco/P	ictured Cliffs Hacker		
Surface: 1,980' FNL 2,405'	FWL SE/NW Unit F Se	c 04 T30N R3W		11. County or Parish, State			
				Rio Arriba,	New Mexico		
CHECK APPROP	PRIATE BOX(S) TO INDI	CATE NATURE OF 1	NOTICE, REPOI	RT, OR OTHE	R DATA		
TYPE OF SUBMISSION		TY	PE OF ACTION				
Notice of Intent	Acidize	Deepen	Production (S	Start/ Resume)	Water Shut-off		
	Altering Casing	Fracture Treat	Reclamation		Well Integrity		
Subsequent Report	Casing Repair	New Construction	Recomplete		Other Change		
	Change Plans	Plug and abandon	Temporarily A	Abandon	Drilling program		
Final Abandonment Notice	Convert to Injection	Plug back	Water Dispos	al			
'13. Describe Proposed or Completed O If the proposal is to deepen directio Attach the Bond under which the w following completion of the involve testing has been completed. Final A determined that the site is ready for Black Hills Gas Resou casing size.	nally or recomplete horizontally, gook will performed or provide the ld operations. If the operation resulbandonment Notice shall be filed of final inspection.)	ive subsurface locations and r Bond No. on file with the BL! ts in a multiple completion or only after all requirements, inc	neasured and true vert M/ BIA. Required sub recompletion in a new cluding reclamantion, l	tical depths or pertic sequent reports shave interval, a Form 3 have been complete	nent markers and sands. Il be filed within 30 days 160-4 shall be filed once		
Surface disturbance w modified.	ill not change from the	e initial APD, theref	fore the Surfac	e Use Plan	will not be updated or		

CONDITIONS OF APPROVAL Adhere to previously issued stipulations. RGVD DEC 27 '07 OIL CONS. DIV.

DIST. 3

	*
14. I hereby certify that the foregoing is true and correct. Name (Printed/ Typed)	<u> </u>
Lynn H. Benally	Title Regulatory Specialist
Signature Museum	Date 12/19/07
THIS SPACE FOR FED	ERAL OR STATE OFFICE USE
Approved by Worne wornsen	Title Pet By Date 12/20/07
Conditions of approval of any are attached. Approval of this notice does not warra certify that the approvant holds legal or equitable title to those rights in the subject	
	me for any person knowingly and willfully to make any department or agency of the United

States any false, fictitiousor fraudulent statements or representations as to any matter within its jurisdiction.



GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this

form and the number of copies to be submitted, particularly with regard to local area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13 - Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well and date well site conditioned for final inspection looking to approval of the abandonment.

NOTICE

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as requited by 43 CFR 3162.4-1(c); and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3 - 2, 3162.3 - 3, 3162.3 - 4.

consumer reporting agencies to facilitate collection of debts owed the Government.

The Paperwork Reduction Act of 1995 (44 U.S.C. 3501 et seq.) requires us to inform you that:

This information is being collected to evaluate proposed and/or completed subsequent well operations on Federal or Indian, oil and gas leases; and a complete complet

Response to this request is mandatory.

BLM would like you to know that you do not have to respond to this or any other Federal agency -sponsored information collection unless it displays a currently valid OMB control number

BURDEN HOURS STATEMENT

Public reporting burden for this form is estimated to average 25 minutes per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau information Collection Clearance Officer, (WO-630), Mail Stop 401 LS, 1849 C St., N.W.,

Washington D.C: 20240



Jicarilla 457-04 #22

Surface Location: 1,980' FNL 2,405' FWL Unit F (SE/NW)

Sec.04 T30N R03W

Rio Arriba County, New Mexico

Lease: Contract 457

DRILLING PROGRAM (Per Rule 320)

This Application for Permit to Drill (APD) was initiated under the NOS process as stated in Onshore Order No. 1 and supporting Bureau of Land Management (BLM) documents. This APD process includes an onsite meeting which was held on February 15, 2006 as determined by Bureau of Land Management (BLM), Bureau of Indian Affairs (BIA) and Jicarilla Oil & Gas Administration (JOGA), and at which time the specific concerns of Black

SURFACE FORMATION – San Jose

Hills Gas Resources (BHGR) were discussed.

GROUND ELEVATION -7,112'

ESTIMATED FORMATION TOPS - (mineral-bearing formations)

San Jose

Surface

Sandstone, shales & siltstones

Nacimiento

2,005'

Sandstone, shales & siltstones

TOTAL DEPTH

2200' ·

TVD

Estimated depths of anticipated fresh water, oil, or gas:

Tertiary

San Jose

surface

Gas

Nacimiento

2,005

Gas

CASING PROGRAM

Depth	Hole Diameter	Casing Diameter	Casing Weight and Grade	Cement		
0-250' TVD	12-1/4"	7"	J-55 20# ST&C New	To surface (± 175 sxs ClassB) **		
0' - TD	6-1/4"	4-1/2"	J-55 10.5# LT&C New	TD to surface $(\pm 630^{\circ})$ sxs lite or 65:35 poz and $\pm 270^{\circ}$ sxs 50:50 poz) *		

- * Actual cement volume to be determined by caliper log.
- ** Cement will be circulated to surface

Yields:

Surface:

Standard cement yield = $1.2 \text{ ft}^3/\text{sx}$ (mixed at 15.6 lb/gal)

Production: Lite Standard Cement yield: = 1.59 ft³/sx (mixed at 13.4 lb/gal)

 $50:50 \text{ poz yield} = 1.27 \text{ ft}^3/\text{sx (mixed at } 14.15 \text{ lb/gal)}$

All fresh water and prospectively valuable minerals encountered during drilling will be recorded by depth and protected.

PRESSURE CONTROL

BOPs and choke manifold will be installed and pressure tested before drilling out under surface casing (subsequent pressure test will be performed whenever pressure seals are broken), and then will be checked daily as to mechanical operating conditions. BOP's will be pressure tested at least once every 30 days. Ram type preventors and related pressure control equipment will be pressure tested to 1,000 psi. Annular type preventor will be pressure tested to 50% of the rated working pressure, not to exceed 1,000 psi. All casing strings will be pressure tested to 0.22 psi/ft. or 1,000 psi, whichever is greater, not to exceed 70% of internal yield.

BOP to be either double gate rams or an annular preventor as per Onshore Order No. 2.

Statement on Accumulator System and Location of Hydraulic Controls

The drilling rig has not yet been selected for this well. Selection will take place after approval of this application. Manual and/or hydraulic controls will be in compliance with Onshore Order No. 2 for 2M systems.

A remote accumulator will be used. Pressures, capacities, location of remote hydraulic and manual controls will be identified at the time of the BLM supervised BOP test.

MUD PROGRAM

0' - 250' Fresh water - M.W. 8.5 ppg, Vis 30-33
250' - TD' Clean Faze - Low solids non-dispersed
M.W. 8.5 - 9.2 ppg
Vis - 28 - 50 sec
W.L. 15cc or less

Sufficient mud materials to maintain mud properties, control lost circulation and to contain "kick" will be available at well site.

AUXILIARY EQUIPMENT

- A) A Kelly cock will be kept in the drill string at all times
- B) Inside BOP or stab-in valve (available on rig floor)
- C) Mud monitoring will be visually observed

LOGGING, CORING, TESTING PROGRAM

A) Logging: DIL-CNL-FDC-GR - TD - BSC (GR to surface)

Sonic (BSC to TD)

B) Coring:

None

C) Testing: Possible DST – None anticipated. Drill stem tests may be run on shows of interest

ABNORMAL CONDITIONS

A) Pressures: No abnormal conditions are anticipated

Bottom hole pressure gradient - 0.31 psi/ft

B) Temperatures: No abnormal conditions are anticipated

C) H_2S : See attached H_2S plan in event H_2S is encountered.

D) Estimated bottomhole pressure: 930 psi

ANTICIPATED START DATE

February 11, 2008

COMPLETION

The location pad will be of sufficient size to accommodate all completion activities and equipment. A string of 2 3/8", 4.7#/ft, J-55 tubing will be run for a flowing string. A Sundry Notice will be submitted with a revised completion program if warranted.

DISTRICT 1 1825 N. French Dr., Hobbs, N.M. B8240

DISTRICT 11 1301 W. Grand Ave., Artesia, N.W. 88210

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION
1220 South St. Francis Dr.

Form C-102-Revised June 70, 2003 Submit to Appropriate District Office Stole Lease - 4 Copies-

DISTRICT III 1000 Rio Brozon Rd., Aztec,	N.M. 87410		'	Santa Fe, N				Fee Le	ase - 3 Copie
DISTRICT N 1220 South St. Francis Dr.,	Santa Fe, NM	87505						AMEN	NDED REPORT
	:	WELL L	OCATIO	N AND A	CREAGE DED	DICATION P	LAT		
30-039-30296	97037 Cabrette Caryta						ter	Fici	all
⁴ Property Code	T		ng rayawa nama ayaya lah daga aya y		T	4 4	fell Number		
24245	l			JICARILLA		22			
OGRID No				*Operator				Elevation	
013925			BLA	CK HILLS GAS					
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the name		" Botto	om Hole	Localian	If Different Fr	om Surface	***************************************		
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NO ALLOWABLE					ION UNTIL ALL			EN C	- ONSOLIDATED
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SEC. CORNER	N 88 37-56 E			39 (6)	SNGL. PR	OP "			RTIFICATION condeined herein to
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