Form 3160-3 (April 2004)

UNITED STATES DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT RECEIVED

FORM APPROVED OMB No. 1004-0137 Expires March 31, 2007

ease Serial No	
Contract 459	

APPLICATION FOR PERMIT	OTO FARMING! TO DRILL OR DEEPEN	() 6				
		7 If Unit or CA Agreement, Name and No				
1a Type of Work X DRILL REEN	ITER					
		8. Lease Name and Well No				
1b Type of Well Oil Well X Gas Well Other	X Single Zone Multiple Zone	Jicarilla 459-18				
2 Name of Operator E-mail :	lbenally@bhep.com	9 API Well No				
Black Hills Gas Resources, Inc.	Contact: Lynn Benally	30-039-29859				
3a Address P.O. Box 249	3b Phone No. (include area co					
Bloomfield NM 87413	505-634-1111	East Blanco / Pictured Cliffs				
4 Location of Well (Report location clearly and in accordance with any State At surface 1,100' FNL 1,440' FWL	Requirements.*) NE /4 NW /4 Lot 1	11. Sec , T , R , M , or Blk and Survey or Area				
Lat: 36° 48' 59.8"	Long: 107° 11' 32.3"	Sec. 18 T 30N R 3W				
At proposed production zone	Long. 107 11 02.0					
14 Distance in miles and direction from nearest town or post office *	· · · · · · · · · · · · · · · · · · ·	12. County or parish 13 State				
Well is located approximately 57 miles east of Bloom	ofield New Mexico	Rio Arriba \ New Mexico				
15 Distance from proposed location to nearest Unit= n/a		Spacing Unit dedicated to this yall				
property of lease line, ft (Also nearest Drig, unit	2,560.0	NF 14-160				
line, if any) Lease= 1,100' FNL 18 Distance from proposed location to nearest	<u> </u>	BLM/BIA Bond No on file				
well, drilling, completed or applied for, on this	4,000' TVD					
lease, ft ± 900 455 5 21 Elevations (Show whether DF, KDB, RT, GL, etc.)	22 Approximate date work will start *	NMB000230				
7,034 ' GR	April 28, 2006	23 Estimated duration 45–60 days drlg + completion				
7,004 010						
	24. Attachments					
The following, completed in accordance with the requirements of Or	shore Oil and Gas Order No. 1, shall be atta	ached to this form:				
Well plat certified by a registered surveyor.		operations unless covered by an existing bond				
 A Drilling Plan. A Surface Use Plan (if the location is on National Fore 	on file (see Item 2i st System 5. Operator certificati	•				
Lands, the SUPO shall be filed with the appropriate Fo		ecific information and/or plans as may be				
Service Office).	required by the aut	thorized officer.				
25 Signature	Name (Printed/Typed)	:Date				
Lathy & Schneeleck	Kathy L. Schneebeck, 303	8.820.4480 March 23, 2006				
Title						
Permit Agent for Black Hılls Gas Resou	rces, Inc.					
Approved by (Signature) Name (Printed/Typed) Date						
Jundovalo		7/8/07				
Title Arama AGM Manage	Title 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 Conditiona of approval, if any, are attached						
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section1212, make it a crim	ne for any person knowingly and willfully to make to	o any department or agency of the United States any false.				

HOLD CAGA FOR directional This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

fictitious, or fraudulent statements or representations as to any matter within its jurisdiction

SURVEL

PRIOR TO CASING & CEMENMOCD DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".

RCVD JUL6'07 OIL CONS. DIV. DIST. 3

1625 N French Dr., Hobbs, N.M. 88240

DISTRICT || 1301 W Grand Ave Artesia, N.M. 88210

DISTRICT III 1000 Rio Brazos Rd. Aztec, N.M. 87410

1220 South St Francis Dr., Santa Fe NM 87505

DISTRICT IV

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION 1220 South St Francis Dr

Santa Fe, NM 87505

Form C-102 Revised October 12, 2005

Submit to Appropriate District Office State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

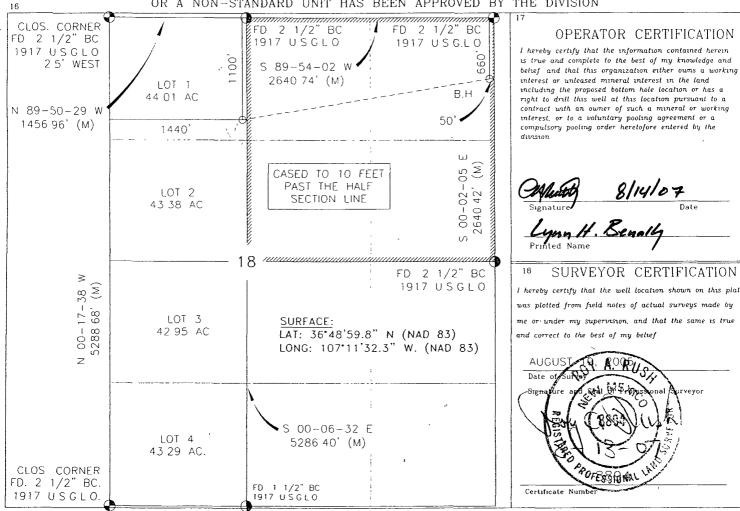
WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-039-29859	72400 EAST BLANCO/PICTU			
Property Code	5 Pro	⁵ Property Name		
24099	JICARI	JICARILLA 459-18		
OGRID No	8 O P	⁹ Elevation		
013925	BLACK HILLS	BLACK HILLS GAS RESOURCÈS		

10 Surface Location

					Surface	Location			
UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
С	18	30-N,	3-W	1	1100	NORTH	1440	WEST	RIO ARRIBA
			11 Botte	om Hole	Location I	f Different Fro	om Surface		
UL or lot no	Section	Township	Range	Lot ldn	Feet from the	North/South line	Feet from the	East/West line	County
А	18	30-N	3-W		660	NORTH	50	EAST	RIO ARRIBA
12 Dedicated Acre	s		13 Joint or	Infill	14 Consolidation C	Code	15 Order No		
160							P-8774 CASI	E 9495	

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



Form 3160- 5 (April 2004)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM A	PPROVED
	1004- 0137
Expires M	arch 31, 2007

SUNDRY	NOTICES	AND	REPORTS	ON	WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other Instructions on reverse side.

5.	Lease Serial No.	
	ontract 459 🐪 🎸	
6.	If Indian, Allottee, or Tribe	Name
Ji	If Indian, Allottee, or Tribe	

If Unit or CA. Agreement Name and/or No

 Type of Well 				136	, 1 ,	
Oıl Well Gas Well	i	8. Well Name and I	No. 1677			
2. Name of Operator				Jicarilla 459-1		
Black Hills Gas Resources				9. API Well No.		
3a. Address	,	3b. Phone No. (inclu	ıde area code)	30-039-29859		
3200 N 1st Street PO Box 24	49 Bloomfield, NM 87413	505-634-1111	ext 27	10. Field and Pool,	or Exploratory Area	
4. Location of Well (Footage, Sec., T.,	R., M., or Survey Description)			E. Blanco/Pict	ured Cliffs	
Surface: 1,000' FNL 1;440' I		T30N R3W		11. County or Paris	h, State	
Bottom Hole: 660' FNL 50'	FEL SE/NE Unit A Sec 18	T30N R3W		Rio Arriba, No	ew Mexico	
CHECK APPROP	RIATE BOX(S) TO INDICA	TE NATURE OF	NOTICE, REPOR	T, OR OTHER I	DATA	
TYPE OF SUBMISSION		TY	PE OF ACTION			
Notice of Intent	Acidize	Deepen	Production (St	art/ Resume)	Water Shut-off	
	Altering Casing	Fracture Treat	Reclamation	[Well Integrity	
Subsequent Report	Casing Repair	New Construction	Recomplete	[√ Other	
·	Change Plans	Plug and abandon	Temporarily Al	bandon	Convert Vertical	
Final Abandonment Notice	Convert to Injection	Plug back	Water Disposal	ı <u>'</u>	well to horizontal well	
13. Describe Proposed or Completed Operation (clearly state all pertinent details including estimated starting date of any proposed work and approximate duration thereof.						

13. Describe Proposed or Completed Operation (clearly state all pertinent details including estimated starting date of any proposed work and approximate duration thereo If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths or pertinent markers and sands. Attach the Bond under which the work will performed or provide the Bond No. on file with the BLM/ BlA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notice shall be filed only after all requirements, including reclamantion, have been completed, and the operator has determined that the site is ready for final inspection.)

The initial APD to drill a Pictured Cliff (PC) well was approved on July 5, 2007. The well was given API number 30-039-29859. After evaluation of data from recently drilled wells in the immediate area, it has been determined that the PC formation is best developed in this area, using Horizontal Drilling Technology. Black Hills Gas Resources is submitting an updated drilling plan, a new C-102, and a revised NM State Form C-102, to change the well from a verical well to a horizontal well. Black Hills Gas Resources also request that if tests of the tertiary and PC formations are favorable that we will also complete these formations and submit comingle applications if needed.

The surface location of the well remains the same but the new bottom hole will be 660' FNL 50' FEL / Unit A

Surface disturbance will not change from the initial APD, therefore the Surface Use Plan will not be updated or modified.

14. I hereby certify that the foregoing is true and correct.				
Name (Printed/ Typed)				
T TT 15 11	Títle			
Lynn H. Benally		Regulatory Specialist		
Signature Officer	Date 8/14/206	7		
A THIS SPAC	E FOR FEDERAL OR STATE OFFIC	E USE		
Approved by Imbala	Title C. F.	Date Date	8/15	67
Conditions of approval, of any are attached. Approval of this notice	e does not warrant or	7		
certify that the applicant holds legal or equitable title to those righ	ts in the subject lease Office			
	operations thereon.			
Title 18 U.S.C. Section 1001 AND Title 43 U.S.C. Section 121:	2, make it a crime for any person knowingly and	willfully to make any depart	artment or agency	of the United
States any false, fictitiousor fraudulent statements or representations			• •	

(Instructions on page 2)

NMOCD

OIL CONS. DIV.
DIST. 3

District I 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

For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe office

Form C-144

June 30, 2005

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

Pit or Below-Grade Tank Registration or Closure

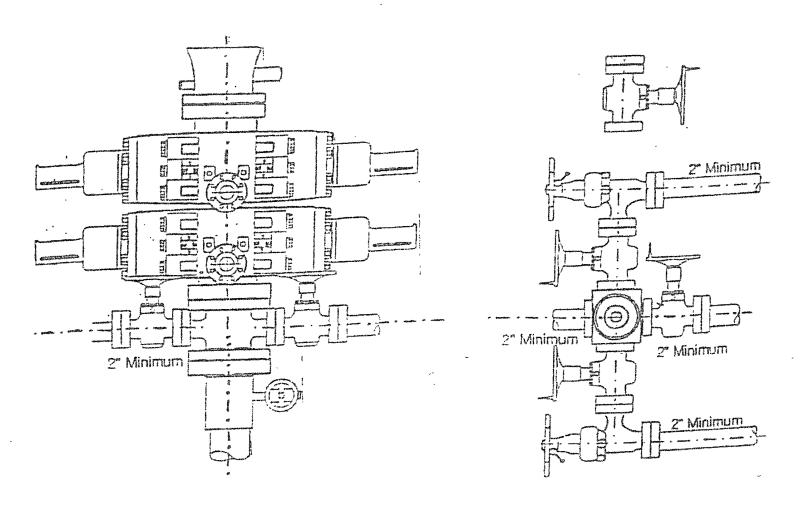
Is pit or below-grade tank covered by a "general plan"? Yes No Type of action: Registration of a pit or below-grade tank Closure of a pit or below-grade tank

Operator: Black Hills Gas Resources, Inc.	Telephone: 505-634-1111 e-mail ac	Idress: Ibenally@bhep.com			
Address: P.O. Box 249, Bloomfield, NM 87413					
Facility or well name: <u>Jicarilla 459-18 12</u> API #:	U/L or Qtr/Qtr NE 1	NW Sec 18 T 30N R 3W			
County: Rio Arriba Latitude 36° 48' 59.8" Longitude 107° 11' 3					
Pit	Below-grade tank				
Type: Drilling Production Disposal	Volume:bbl Type of fluid:				
Workover	Construction material:	-			
Lined 🛮 Unlined 🗖	Double-walled, with leak detection? Yes If no	ot, explain why not			
Liner type: Synthetic ☑ Thickness <u>15</u> mil Clay ☑					
Pit Volume <u>±17,811</u> bbl					
Depth to ground water (vertical distance from bottom of pit to seasonal	Less than 50 feet	(20 points)			
high water elevation of ground water.)	50 feet or more, but less than 100 feet	(10 points)			
mgn water elevation of ground water.)	100 feet or more	(0 points)			
W. III. dansted and a 200 feet from adjusted described	Yes	(20 points)			
Wellhead protection area. (Less than 200 feet from a private domestic	<u>No</u>	(0 points)			
water source, or less than 1000 feet from all other water sources.)					
Distance to surface water: (horizontal distance to all wetlands, playas,	Less than 200 feet	(20 points)			
irrigation canals, ditches, and perennial and ephemeral watercourses.)	200 feet or more, but less than 1000 feet	(10 points)			
	1000 feet or more	(0 points)			
	Ranking Score (Total Points)	3 0 points			
If this is a pit closure: (1) attach a diagram of the facility showing the pit's	relationship to other equipment and tanks (2) Indic	ate disposal location. (check the onsite box if			
your are burying in place) onsite 🗌 offsite 🗋 If offsite, name of facility_	(3) Attach a general	description of remedial action taken including			
remediation start date and end date. (4) Groundwater encountered: No 🔲 Y	es 🔲 If yes, show depth below ground surface	ft. and attach sample results. (5)			
Attach soil sample results and a diagram of sample locations and excavations	S				
Additional Comments:					
	its shall be (lused in	uccardon ca with			
OCD - Vulnerable area-pi	(whente of lines to	he had a war and			
WIN OUD NOILE SUITING	Constitus & The Vi	be removed			
,					
I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines , a general permit , or an (attached) alternative OCD-approved plan .					
Date: 03/23/06 Printed Name/Title Kathy L. Schneebeck - Permit Agent for Black Hills Gas Resources, Inc. Signature Totaly & Schooleck					
Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.					
Approval:	l. An				
Printed Name/Title	Signature	Date:			
	<i>V</i>				

2-M SYSTEM

Black Hills Gas Resources, Inc.

ANNULAR PREVENTOR MAY BE SUBSTITUTED FOR DOUBLE GATE PREVENTORS BOP PRESSURE TEST TO 1,000 PSI



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:

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

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

- The effects of H₂S on metal components. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
- 2. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
- 3. 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 H_2S zone (within 3 days or 500 feet) and weekly H_2S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H_2S 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, if necessary, 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:

- Choke manifold with a minimum of one remote choke.
- 2. Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit.

- B. Protective equipment for essential personnel:
 - 1. Mark II Surviveair 30-minute units located in the doghouse and at briefing areas, as indicated on well site diagram.
- C. H₂S detection and monitoring equipment:
 - 1. Two portable H_2S monitors positioned on location for best coverage and response. These units have warning lights and audible sirens when H_2S levels of 10 ppm are reached.
- D. Visual warning systems:
 - 1. Wind direction indicators as shown on well site diagram.
 - 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:

1. The mud program has been designed to minimize the volume of H_2S circulated to the surface. Proper mud weight, safe drilling practices, and the use of H_2S scavengers will minimize hazards when penetrating H_2S bearing zones.

F. Metallurgy:

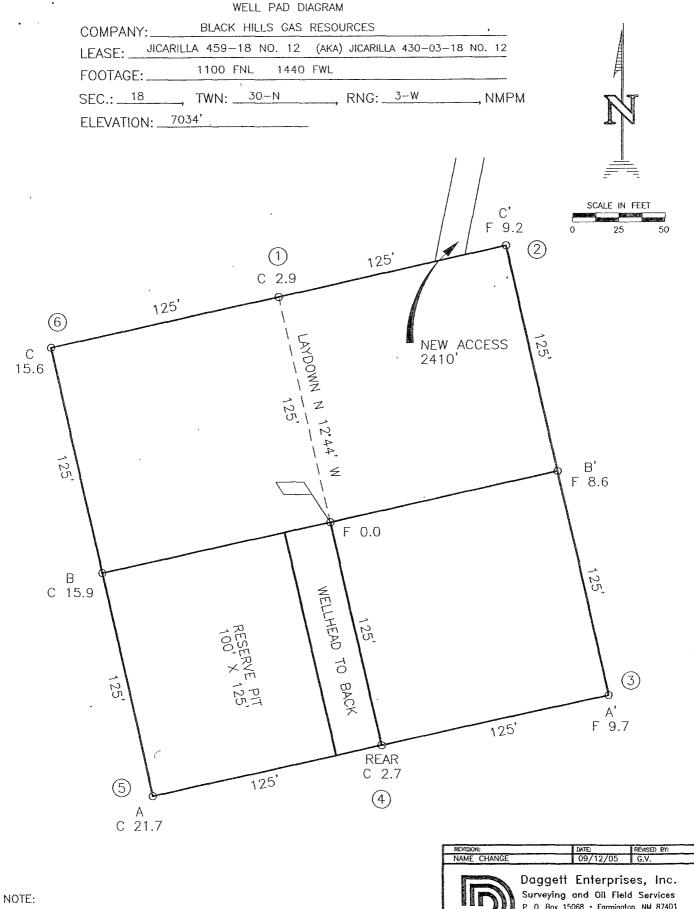
- 1. All drill strings, casings, tubing, wellhead, blowout preventors, drilling spools, kill lines, choke manifold and lines, and valves shall be suitable for H_2S service.
- 2. All elastomers used for packing and seals shall be H₂S trim.

G. Communication:

1. Cellular telephone communications in company vehicles.

H. Well testing:

1. Drill stem testing will be performed with a minimum number of personnel in the immediate vicinity which are necessary to safely and adequately conduct the test. The drill stem testing will be conducted during daylight hours and formation fluids will not be flowed to the surface. All drill stem testing operations conducted in an H₂S environment will use the closed chamber method of testing.



DAGGETT ENTERPRISES, INC. IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES. NEW MEXICO ONE CALL TO BE NOTIFIED 48 HOURS PRIOR TO EXCAVATION OR CONSTRUCTION.

P. O. Box 15068 • Farmington, NM 87401 Phone (505) 326-1772 • Fax (505) 326-6019 NEW MEXICO L.S. 14831

DRAWN BY: G.V. ROWF: MN447

CADFILE: MN442_PL8 DATE: 08/22/05

WELL PAD CROSS-SECTIONAL DIAGRAM

LEASE: ____JICARILLA 459-18 NO. 12 (AKA) JICARILLA 30-03-18 NO. 12

COMPANY: BLACK HILLS GAS RESOURCES

	FOOTAGE:	1100 FNL 1440	FWL	
	SEC.: 18	TWN: 30-N	, RNG: <u>3-W</u>	, NMPM
	ELEVATION: 703	4'		
		•	NOTE: DAGGETT ENTERPRIS UNDERGROUND UTIL ONE CALL TO BE N EXCAVATION OR CO	ES, INC. IS NOT LIABLE FOR THES OR PIPELINES. NEW MEXICO OTIFIED 48 HOURS PRIOR TO VSTRUCTION.
ELEV. A-A	Λ'	C/L		
7060				
7050				
7040				
7030				
7020				
7010				
7000				
ELEV. B-I	3'	C/L		
7060				
7050				
7040				
7030				
7020				
7010				
7000				
ELEV. C-	C'	C/L		10 5%. Inc. Vices 87401 (6–6019
7060				
7050				PAD DIA 2/05 3/05 3/15 Field Farmingtor - Fox (50 - S. 14 - S.
7040				
7030		— <i>VIIIIIIIII</i>		eff 1 (18 w 1506 05) 326 w ME)
7020				MN442_PLB WELL PAD DIAGRAM Daggett Enterprises, Inc. Surveying and Oil Field Services P. O. Box 15068 · Farmington, NW 87401 Phone (505) 326-1772 · Fox (505) 326-6019 NEW MEXICO L.S. 14851 CADRE MIN442_CFB OWNE 08/22/05
7010				M
7000				O O O O O O O O O O O O O O O O O
				REF. NAME



Black Hills Gas Resources (BHGR) Jicarilla 459-18 #112

Surface Location: NE/NW 1,100' FNL 1,440' FWL Unit Lot 1 Bottom Hole Location: 660' FNL 50' FEL NE/NE Unit A

Sec. 18 T30N R3W Rio Arriba County, New Mexico Jicarilla Contract 459

DRILLING PROGRAM (Per Rule 320)

The 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 as determined by Bureau of Land Management (BLM) and the Jicarilla Nation.

The APD for this well was permitted and approved on July 7, 2007. This new drilling plan addresses the horizontal re-entry into the existing Jicarilla 459-18 #12 well.

SURFACE FORMATION - San Jose

GROUND ELEVATION - 7,034'

<u>ESTIMATED FORMATION TOPS</u> - (Water, oil, gas and/or other mineral-bearing formations)

San Jose	Surface	Sandstone, shales & siltstones
Nacimiento	1,910'	Sandstone, shales & siltstones
Ojo Alamo	3,157	Sandstone, shales & siltstones
Kirtland	3,427	Sandstone, shales & siltstones
Fruitland	3,721'	Sandstone, shales & siltstones
Pictured Cliffs	4,246'	Sandstone, shales & siltstones

TOTAL DEPTH 3,689' TVD

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

Tertiary		
San Jose	surface	Gas, water and oil
Nacimiento	1,910'	Gas, water and oil
Ojo Alamo	3,157'	Gas, water and oil
Fruitland	3,721'	Gas, water and oil
Pictured Cliffs	4,246	Gas, water and oil

HORIZONTAL DRILLING PROGRAM

Kick Off Point (KOP) is estimated to be \pm 2528' TVD

CASING PROGRAM

Depth	Hole Diameter	Casing Diameter	Casing Weight and Grade	Cement
0'-250'	12-1/4"	9-5/8"	36# J-55	To surface (± 175 sxs Standard cement containing 2% CaCl ₂ and 0.25lb/sx LCM)
250'-3662'	8-3/4"	7"	23# J-55 LT&C	TD to surface (Lead: ± 300 sxs lite standard cement. Tail: 400 sxs 50:50 poz containing 0.25 lb/sx LCM)
3662'-6004'	6-1/8"	Open hole**	Open hole	

- * Actual cement volume to be determined by caliper log.
- ** If hole instability is encountered, a 4 ½", 10.5#, J-55 uncemented liner may be run in the 6 1/8" open hole section

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)

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

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: 1,178 psi

ANTICIPATED START DATE

September 3, 2007

COMPLETION

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

