S

Form 3160-3 (February 2005) OCD-ARTESIA

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

Lease Serial No.

BUREAU OF LAND MAN	NAGEMENT \		1111411111 144770		
APPLICATION FOR PERMIT TO			6. If Indian, Allotee or Tri	be Name	
			N/A		
a. Type of work: DRILL REENT	7 If Unit or CA Agreement, Name and No. N/A				
b. Type of Well: Oil Well Gas Well Other	8. Lease Name and Well No. Sandy Federal #6				
Name of Operator  Bold Energy, LP (OGRID #233545)			9. API Well No.	15-355	
a. Address 415 W. Wall, Suite 500 Midland, TX 79701	3b. Phone No. (include area code) 432-686-1100		10. Field and Pool, or Exploratory Forty Niner Ridge; Delaware		
Location of Well (Report location clearly and in accordance with a	ny State requirements.*)		11. Sec., T. R. M. or Blk. and	Survey or Area	
At surface Unit I, 1920' FSL & 660' FEL					
At proposed prod. zone (same) Unit I, 1920' FSL & 660' FI	EL		Sec 23, T23S, R30E		
Distance in miles and direction from nearest town or post office*			12. County or Parish	13. State	
Approximately 15 miles East of Loving, NM			Eddy	NM	
Distance from proposed*  location to nearest property or lease line, ft.  16. No. of acres in lease 17. Spacing 17. Spacing 18. No. of acres in lease 19. Spacing			g Unit dedicated to this well		
(Also to nearest drig. unit line, if any)  660'	960.0	4	40		
Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.  Approx. 1500'-#5 APD	20. BLM/F 1000	/BIA Bond No. on file			
Elevations (Show whether DF, KDB, RT, GL, etc.) 3269' GL	22. Approximate date work will sta 04/15/2007	rt*	23. Estimated duration 40 days		
	24. Attachments		· · · · · · · · · · · · · · · · · · ·		
e following, completed in accordance with the requirements of Onsho	re Oil and Gas Order No 1 must be a	ttached to the	e form:		
Well plat certified by a registered surveyor.	4. Bond to cover t		ns unless covered by an existing	ng bond on file (see	
A Drilling Plan.	Item 20 above).				
A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office).	, , .		rmation and/or plans as may b	e required by the	
Signature	Name (Printed/Typed)		Date		
Denise Menoud				1/05/2007	
Regulatory Specialist, Agent for Bold Energy, LI	P				
proved by (Signature)	Name (Printed/Typed)		Date		
/s/ Linda S.C. Ruodell	Name (Printed/Typed) SI Linda	S.C. F	Rundell	MAR 3 0 200	
STATE DIRECTOR	Office NM STATE	OFFI	CE		
plication approval does not warrant or certify that the applicant hold induct operations thereon.		its in the sub APPR		he applicant to	
anditions of annroyal if any are attached	•	~	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Y P- 44 P-4	

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.

SEE ATTACHED FOR CONDITIONS OF APPROVAL

CARLSBAD CONTROLLED WATER BASIN

APPROVAL SUBJECT TO GENERAL REQUEREMENTS AND SPECIAL STIPULATIONS ATTACHED If earthen pits are used in association with the drilling of this well, an OCD pit permit must be obtained prior to pit construction.

# EXHIBIT "A"

DISTRICT I
1825 N. French Dr., Hobbs, NM 88240
DISTRICT II

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102 Revised October 12, 2005

Submit to Appropriate District Office

Pool Name

State Lease — 4 Copies Fee Lease — 3 Copies

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

DISTRICT IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

API Number

Property Code

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

☐ AMENDED REPORT

Well Number

### WELL LOCATION AND ACREAGE DEDICATION PLAT

Pool Code

24750

		6					
ogrid no. 233545	Operator Name BOLD ENERGY, LP					Elevation 3269'	
Surface Location							
UL or lot No. Section	Township Range	Lot Idn Feet from the	North/South line	Feet from the	East/West line	County	
1 23	23 S 30 E	1920	SOUTH	660	EAST	EDDY	
	Bottom	Hole Location If Diff	erent From Surf	ace			
UL or lot No. Section	Township Range	Lot Idn Feet from the	North/South line	Feet from the	East/West line	County	
Dedicated Acres Joint o	r Infili Consolidation C	Code Order No.					
NO ALLOWABLE W		TO THIS COMPLETION DARD UNIT HAS BEEN			EN CONSOLIDA	ATED	
		Lat - N32°17'18.5" Long - W103°50'42.4" (NAD-83)	3266.3' 3267.1'    0 660' 3273.9'	I hereby certify the best of my kiths organisation interest or unlead land including it location pursuant owner of such a or to a voluntory computery positive division.  Signature Denise M for Bold Printed Name  SURVEYOR  I hereby certify on this plat was actual surveys supervison, and correct to the  DECEM Date Survey Signature Signature Professional	that the well locations plotted from field made by me or that the same is best of my belief	pation lets to and that they in the sole on an interest, or a spitered by 8/07  Date gent LP  TION con shown increase of under my true and they are are and they are	

Operator:	Bold Energ	gy, LP				Field: _	Jndes.	. Forty N	iner Ride	ge; Delawa	re
Well:	Sandy Fed	deral #6				API: _	30 - 015 - Pending				
Drilling Permit	ermit BLM Approval - Pending .				AFE:	AFE: Pending					
General Information											
Location: 1920' FSL & 660' FEL, Section 23 - T23S - R30E Eddy County, New Mexico											
Elevation: 3269' TD: 8000' RKB: 18'											
Objective:	Objective: Delaware / Bone Springs Contractor: Nabors #142										
Contractor Off	ice: <u>432 /</u>	550-7808				Superint	enden	it: <u>Don</u>	Neison	(664-9990)	)
Toolpushers:	Roy B	rumfield / \	William Lev	<u>wis</u>		Cell:	432 / 6	664-9942	2		
Sierra Supervi	sor: Frank	Dowdy / T	ony Vicker	У		Cell:	432 / 5	557-122	3		
Drilling Prog	gram		·	:							
Hole Size	Depth	Casing	Weight	Grade		Conne	et	Cem	ent	тос	
171/2"	440'	133/8"	48	H-40		STC			0 sx	Circula	
11"	3750'	8 5/8"	32	K-55		STC		110	0 sx	Circula	e
7 7/8"	8000'	5½"	17	P-110	)	LTC		110	0 sx	Circula	le
Wellhead /	BOPE									··- <u>·</u>	
Wellhead	135/	8" - 3K SO	N	13 5/8"	- 31	( x 11" -	5K	11"	- 5K ×	71/16" - 10	ıĸ
BOPE		K Stack S				Stack SR					
BOIL	155/6 - 3	Olack O	IIIVIO		<u> </u>	Olack Of					
Mud Prograi	m							-			
	Interval		Туре			MW	,	VIS	F	FL ]	
0'	<b>- 440</b> '	F	W - Spud		8	3.4 - 9.2	32	2 - 34	N	IC	
440	o' – 3750'	Brin	e / Swee	ps		10.0	28	3 - 30	N	IC	
3800	0' - 8000'	FW / Cu	ut Brine / S	weeps	8	3.4 - 9.0	28	3 - 30	N	ic	
Company:	NOVA Drilling	Fluids	Of	fice:				······································		<u>:</u>	
Engineer:	TBA		Wa	arehouse:	; <u> </u>						

# **Geological Data**

**Geologist:** John Worrall 505 / 622-5893 office 432 / 230-9431 cell 505 / 622-2768 home

Estimated Formation Tops: (GL = 3269')

Formation	Subsea	MD	Formation	Subsea	MD
Triassic	0'	0,	Manzanita Mkr	-1686'	4955'
Rustler	2829'	440'	L Sand Objective	-4331'	7600'
B/ 1 <sup>st</sup> Salt	1059'	2210'	Bone Spring	-4431'	7700'
T/ 2 <sup>nd</sup> Salt	489'	2780'	Bone Spring, Upper	-4511'	7780'
B/ Salt	-311'	3580'	TD	-4731'	8000'
Delaware	-566'	3835'			

### **Evaluation Program**

Mud Logs: 3750' to TD Mud Logger: TBD

DST / Coring Intervals: None Anticipated

E-Log Suite: Triple Combo (GR - DSN, SDL, DLL/MSFL) w/ CSNG @ TD. Pull GR-N to surface. SWC's

may be taken in zones of interest.

Logging Company: Halliburton Contact: Richard Kelley

Location: Hobbs, New Mexico Phone: 505 / 914-0324 cell 505 / 392-0776 office

# Completion

Single Delaware / Bone Spring oil well; multi-stage completion - selectively perfed & stimulated down 5½" casing. Well will be equipped to be rod pumped.

## **Emergency Contacts / Notifications**

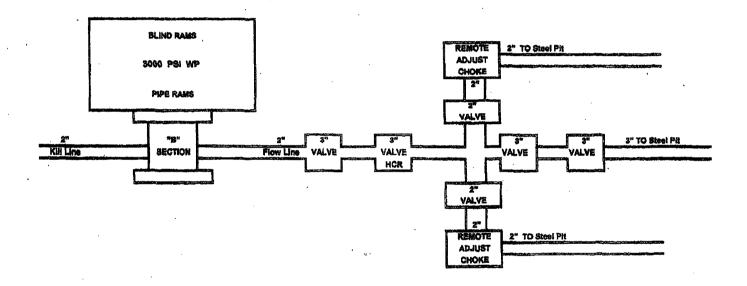
Sierra Engineering	Drilling Superintendent	Russ Ginanni	432 / 425-7450 cell 432 / 683-8000 off
Sierra Engineering	HSE Manager	Montie Low	432 / 559-8950 cell 432 / 683-8000 off
Bold Energy, LP	Operations Engineering Manager	Shannon Klier	432 / 296-8602 cell 432 / 686-1100 off
Bold Energy, LP	President	Joe Castillo	432 / 230-0202 cell 432 / 686-1100 off
Bold Energy, LP	Production Supt.	Donny Money	432 / 661-8803 cell
BLM	Carlsbad	Notifications After Hours	505 / 234-5972 505 / 361-2822

#### **Directions**

From the junction of New Mexico State Highway 128 & County Road 795 (Mobley Ranch), (1) go south ½ mile on CR 795 to "Y"; (2) take left fork and go 2½ miles to lease road on left; (3) turn east for 0.9 mile to new lease road and follow into location.

# BOP EQUIPMENT

Bold Energy, LP



#### 1. EXISTING ROADS

- A. Exhibit A is a portion of a section map showing the location of the proposed well as staked.
- B. Exhibits B and B-1 are maps showing existing roads in the vicinity of the proposed well site.
- C. Directions to well location:
  From the junction of State Highway 128 and County Road 795 (Mobley Ranch), proceed south 0.5 miles on County Road 795 to a "Y". Take left fork and proceed 2.5 miles to lease road east, proceed east 0.9 miles to the proposed lease road.

## 2. ACCESS ROADS

A. Length and Width: 325.1' long and 30' wide

The access road will be built and is shown on Exhibit A-1.

B. Surface Material

**Existing** 

C. Maximum Grad

Less than five percent

D. Turnouts

None necessary

E. Drainage Design

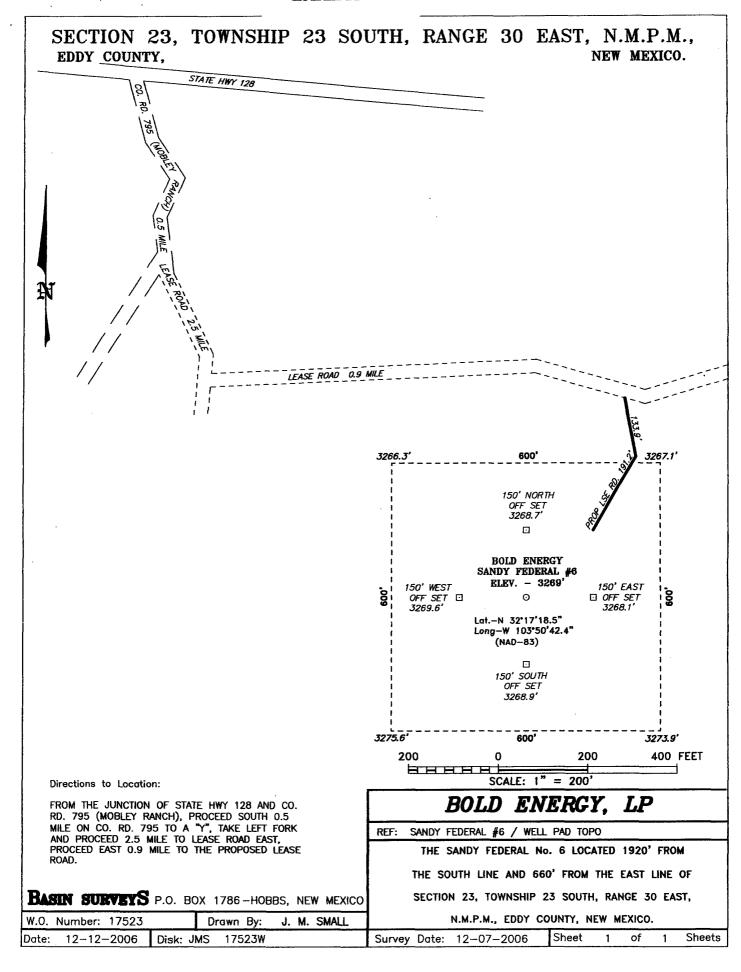
**Existing** 

F. Culverts

None necessary

G. Gates and Cattle Guards

None needed



#### **CONDITIONS OF APPROVAL - DRILLING**

Well Name & No. Operator's Name: Sandy Federal # 6 Bold Energy LP

Location:

1920'FSL, 660'FEL, SEC23, T23S, R30E, Eddy County, NM

Lease:

NM-114978

#### **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; and the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (505) 393-3612 for wells in Lea County, in sufficient time for a representative to witness:

#### A. Spudding

- B. Cementing casing: 13.375 inch, 8.625 inch, 5.5 inch
- C. BOP tests
- 2. A Hydrogen Sulfide (H2S) Drilling Plan should be activated prior to drilling into the <u>N/A</u> 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.
- 6. A Communitization Agreement covering the acreage dedicated to this well must be filed for approval with the BLM. The effective date of the agreement shall be prior to any sales.
- 7. Gamma-Ray/Neutron logs shall be run from the base of the Salado Formation to the surface; cable speed not to exceed 30 feet per minute.

#### II. CASING:

- 1. The 13.375 inch surface casing shall be set ABOVE THE SALT, AT LEAST 25 feet INTO THE RUSTLER ANHYDRITE @ APPROXIMATELY 440 FEET, below usable water 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 <u>8 5/8</u> inch salt protection casing is <u>CIRCULATE</u> <u>CEMENT TO THE SURFACE</u>. This casing string will be set at least 100 feet below the salt and no more than 600 feet below the salt @ approximately 3750 feet
- 3. The minimum required fill of cement behind the <u>5-1/2</u> inch production casing is <u>cement shall</u> <u>CIRCULATE TO THE SURFACE.</u>
- 5. Whenever a casing string is cemented in the R-111-P Potash Area, cement shall be allowed to stand a minimum of twelve (12) hours under pressure and a total of twenty-four (24) hours before drilling the plug or initiating tests.

#### **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 13.375 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) is 2000 psi.
- 3. The appropriate BLM office shall be notified in sufficient time for a representative to witness the tests.
- A variance to test the \_\_\_\_\_ to the reduced pressure of \_\_\_\_psi with the rig pumps is approved.
- 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.

Engineers can be reached at 505-706-2779 for any variances that might be necessary.

F Wright 1/29/07