hepan .		OCD-HOB	BS	I-	-06-0
Foin 3160-3 (April 2004) UNITED STATES		•		FORM APPR OMB No. 100 Expires March	4-0137
DEPARTMENT OF THE I BUREAU OF LAND MAN	INTERIOR	-		5. Lease Serial No. NMNM-114	
APPLICATION FOR PERMIT TO				6. If Indian, Allotee or 1	ribe Name
la. Type of work: X DRILL REENTI	ER			7 If Unit or CA Agreeme	nt, Name and No.
Ib. Type of Well: X Oil Well Gas Well Other	XSin	gle Zone Multip	le Zone	8. Lease Name and Well T41	
2. Name of Operator BC OPERATING, INC.	······································	< 160825	>	9. API Well No. 3D-025	
3a. Address P.O. Box 50820, Midland, TX 79710	(432	(include area code)) 684-9696		10. Field and Pool, or Exp Cline	Abo
4. Location of Well (Report location clearly and in accordance with an	ny State regitireme	LIS 14 15 16 7		11. Sec., T. R. M. or Blk.a	•
At surface 1980' FNL & 660' FWL At proposed prod. zone Same	(12) 1 <mark>2</mark> - 12	TO IN	E	Section 7, T-2 N.M.P	
14 Distance in miles and direction from nearest town or post office* (*		Ceive 000 X		12. County or Parish Lea	13. State NM
15. Distance from proposed* location to nearest property or lease line, ft. 660' (Also to nearest drig. unit line, if any)	16. No. of a		17. Spacin	g Unit dedicated to this well SW/4NW/4 40 ac	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. N/A	19. Proposed	асар 5,500'	20. BLM/I	31A Bond No. on file 432584	Nm 25
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3339' GL	22 Approxin	ate date work will star 9/1/06	1 [‡]	23. Estimated duration 20 days	WILLS
	24. Attac		Capilian	Gatinelici Woter	
 The following, completed in accordance with the requirements of Onsho Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office). 		 Bond to cover the litem 20 above). Operator certification 	ne operation ation specific info	is rom: ns unless covered by an exi- prination and/or plans as ma	
25. Signature	Name	(Printed/Typed) Kenneth	C. Dick	a deson	te 6/30/06
Tide Authorized Agent					
Approved by (Signoture)	Name	(Printed Typed)	Petere	on Da	AUG 0 2
Title FIELD MANAGER	Office	CARLS	BAD	FIELD OFFIC	
Application approval does not warrant or certify that the applicant hole conduct operations thereon. Conditions of approval, if any, are attached.	ds legal or equi	able title to those righ	ts in the sub		le the applicant to
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a c States any false, fictitious or fraudulent statements or representations as	crime for any post of any matter w	rson knowingly and v			
*(Instructions on page 2)			APP	Roval Subje Ieral Requir	t to

Witness Surface Casing

KZ ATTACHED

DISTRICT 1 1625 N. French Dr., Hobbs, NM 88240

DISTRICT II 1301 W. Grand Avenue, Artesia, NM 88210

G

DISTRICTION 1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV

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

1220 S. St. Francis Dr., Santa Fe, NM 87505 WELL LOCATION AND ACREAGE DEDICATION PLAT Pool Name API Number Pool Code 0-025-38 2431 Albi2 rinkard P Property Name Property Code Well Number 35893 T41 1 OGRID No. **Operator** Name Elevation 100825 BC OPERATING, INC. 3339 Surface Location Bottom Hole Location If Different From Surface NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION OPERATOR CERTIFICATION eby certify the the information contained herein is true and complet

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	7	23 S	38 E		1980	NORTH	660	WEST	LEA

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 or	Infill Co	nsolidation (Code Or	der No.	I	L	L	I
40									

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A

1980,	De best of my bransledge and behid, and bad this organization eiller own a working where to subscare shortened interaction the land behaving the proposed bottom hole location or has a right is brill this well at this location pursuant is a contract with an owner of such a mineral or working interest, or to a webunlary points agreement or a compulsory poling order kerelsfore entered by the division.
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Signature Date <u>Lenne The C. Dickess</u> Printed Name
3340.3*33346.5'	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.
1	May 30, 2006, Date of Survey, State Market Market John LVA Signature & Seal of Professional Surveyor
NOTE: 1) Plane Coordinates shown hereon are Transverse Mercator Grid and Conform to the "New Mexico Coordinate System", New Mexico East Zone, North American Datum of 1927. Distances shown hereon are mean horizontal surface values.	W.O. Num 2006-0477 Certificate No. MACON. MCDONALD 12185





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VICINITY MAP

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COMPANY of Midland, Inc. (432) 687-0865 - (432) 687-0868 FAX





DRILLING PROGRAM

B.C. OPERATING, INC.

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T41 #1 1980' FNL & 660' FWL, Section 7, T-23-S, R-38-E, Lea County, New Mexico Lease №: NMNM-114631 (Exploratory Well)

The following items supplement Form 3160-3 in accordance with instructions contained in Onshore Oil and Gas Orders #1 and #2, and all other applicable federal and state regulations.

1. Estimated tops of geological markers:

Anhydrite	1230'
Yates	2,940'
San Andres	4,050'
Glorietta	4,910'
Blinebry	5,340'
Tubb	6,045'
Drinkard	6,190'
Abo Shale	6,625'

2. Estimated depths to water, oil or gas formations: Fresh water above 200' Oil, gas & water Abo

- 3. Pressure control equipment: The blowout preventer equipment (BOP) shown in Exhibit #1 will consist of a 3,000 psi double ram type preventer for drilling the intermediate hole. The blowout preventer stack for the production hole will consist of at least a double-ram blowout preventer and annular preventer rated to 5,000 psi working pressure. A diagram of the BOPs and choke manifold is attached. All BOPs and accessory equipment will be tested according to Onshore Order № 2 before drilling out.
- 4. Proposed casing program:

HOLE SIZE	INTERVAL	CASING SIZE	WEIGHT	GRADE, JOINT
17 ½"	0-950'	13-3/8"	48#	K-55, ST&C
7-7/8"	950-6500'	5-1/2"	15.5#	J-55, ST&C

- 5. Proposed cementing program:
 - 20" conductor
 - 13-3/8" surface 1000 SX Class "C"

• 5-1/2" production

400 SX Class "C" followed by 400 SX 50/50 poz. TOC 900'

6. Proposed mud system:

DEPTH	DESCR.	MUD WEIGHT	VISCOSITY	WATERLOSS
950'	Fresh water	8.6-8.8 ppg	28	NC
950-3,000'	Brine water	10.0-10.2 ppg	30-32	NC
3,000-6,500'	Gel/starch	10.2-10.4 ppg	34-38	8 cc

7. Testing, logging and coring programs:

Samples	3000-6500'
DSTs	None
Logging	Gamma Ray, CNL, FDC, DLL
Coring	No coring planned.

8. Abnormal pressures and temperatures: *None anticipated.* Maximum bottom hole pressure should not exceed 3200 psi.

This area has a potential H_2S hazard. An H_2S Drilling Plan is attached including a diagram of the drilling rig layout with H_2S monitors and wind direction indicators shown.

9. Anticipated starting date and duration of operations: Drilling will commence about **September 1, 2006**. Drilling should be completed within **20 days** followed by completion operations.

C:\Vdata\BC Operating Inc\T41 #1\DRILLING PROGRAM.doc







LOCATION VERIFICATION MAP



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H₂S Contingency Plan

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B.C. OPERATING, INC. T41 #1

N/2NE/4, SW/4NE/4, SW/4NW/4, E/2SW/4, Section 7, Township 23 South, Range 38 East, LEA COUNTY, NM

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SCOPE

This plan establishes the B.C. OPERATING, INC. guidelines for all company and contract employees whose duties may involve exposure to hydrogen sulfide gas (H₂S) on the *T*41 #1 location. This well is located 1980 feet from the north line, 660 feet from the west line in Section 7 of Township 23 South, Range 38 East, Lea County, New Mexico. This plan also establishes procedure for isolation of the work site and evacuating the public on the condition that:

A. There is a release of H₂S that encompasses the radius of exposure (ROE) in this plan and,

- B. There are persons and/or rods within the ROE and,
- C. There is the endangerment of human and/or animal life within the ROE.

There are no homes located within one (1) mile either direction of this particular location.

OBJECTIVE

The objective of B.C. OPERATING, INC. is to:

- A. Prevent any and all accidents, and to prevent the uncontrolled release of H₂S into the atmosphere and,
- B. Provide proper evacuation procedures to cope with emergencies and,
- C. Provide immediate and adequate medical attention should an injury occur.

It should be noted that B.C. OPERATING, INC. does not expect there to be any release of H_2S into the atmosphere but has taken the necessary steps to react properly to and control any hazards encountered on any of our facilities.

GENERAL EMERGENCY ACTION

In the event of an emergency, the following action should be initiated:

- 1. All personnel shall immediately evacuate to an upwind and uphill "safe breathing" area.
- 2. Those who must enter the hazard area must wear positive pressure self-containing breathing apparatus and must use other appropriate safety equipment as outlined on Page 10.
- 3. Isolate the well, if possible.
- 4. Use the "Buddy System" at all times.
- 5. Account for all personnel and take appropriate action as necessary for personnel safety.
- 6. Display the appropriate color warning flag to describe the type of emergency.
- 7. Contact B.C. OPERATING, INC. personnel at the earliest time available according to the emergency call out list on Page 4.
- The B.C. OPERATING, INC. supervisor will assess the situation and assign duties to various persons to bring the situation under control.
- Notification of local emergency response agencies and residents will be assigned by the B.C. OPERATING, INC. supervisor.
- Media inquiries are to be referred to:

B.C. OPERATING, INC. P.O. Box 50820 Midland, TX 79710

BC OPERATING, INC. EMERGENCY CALL OUT NUMBERS

,

NAME	TITLE	OFFICE #	CELL #	HOME #
Jerry Livingston	Drilling Foreman	(432) 684-9696	(432) 664-3189	(432) 523-3755
Kevin Widner	Operations Manager	(432) 684-9696	(432) 425-4829	(432) 520-3557

Emergency Notification Numbers Eddy, County

Organization or Agency	Phone Number
New Mexico State Police	(505) 885-3137
Eddy County Sheriff's Department	(505) 887-7551
Emergency Medical Service	
(Ambulance)	911
Eddy County Emergency Management	(505) 887-9511
State Emergency Response Center (SERC) Max Johnson (Chairman)	(505) 476-9620
Carlsbad Fire Department	911 or (505) 885-3125
Oil Conservation Division (District II)	(505) 748-1283
National Response Center (NRC)	(800) 424-8802

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LOCATION VERIFICATION MAP



EMERGENCY PROCEDURES FOR UNCONTROLLABLE RELEASE OF HYDROGEN SULFIDE GAS (H₂S)

- 1. Secure and don self-contained breathing apparatus.
- 2. Remove all personnel to an upwind and uphill "safe breathing" zone.
- 3. Contact all concerned employees and immediate supervisor for instructions.
- 4. Take steps to protect and/or remove the general public to an upwind area away from the source of H2S.
- 5. Deny entry to unnecessary personnel.

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- 6. Notify necessary public safety personnel (for assistance in the evacuation of the general public and to help maintain roadblocks):
 - a. State Police if on or near a state road
 - b. Sheriff's Department if on or near a county road
- 7. Contact the Oil Conservation Division (OCD).
- 8. While attempting to control the release, maintain tight security and safety procedures.
- 9. Use the "Buddy System" when entering any hazardous areas.

The responsibility of this plan is with the B.C. OPERATING, INC. supervisor(s) who shall be in complete command during the emergency.

IGNITION PROCEDURES FOR UNCONTROLLABLE WELL CONDITIONS

The decision to ignite the well is the decision of the company supervisor(s). This decision should be made only as a last resort and in a situation where it is determined that:

- Human life and/or property are endangered
- There is no hope of controlling the blowout under the prevailing conditions at the well.

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INSTRUCTIONS FOR IGNITING THE RELEASE

- 1. Two personnel are required for the ignition operation. They must wear positive pressure self-contained breathing apparatus and a D-ring style full body safety harness with a non-flammable safety rope attached. (Must be an OSHA approved body harness)
- 2. One (safety) person will test the atmosphere for explosive gases with an approved Triple-range (H₂S, O₂, LFL) monitor. The other person (company supervisor) is responsible for igniting the well.
- 3. Primary method of ignition shall be with the 25mm flare gun with range of approximately 500 feet.
- 4. Ignite up-wind and do not approach any closer than is warranted.
- 5. Select a safe ignition site which offers ultimate egress.
- 6. Before activating flare gun, check for presence of combustible gas.
- 7. After ignition, continue emergency action and procedure as before.
- 8. All unassigned personnel will limit their actions to those directed by the company supervisor.

After the well is ignited, burning H_2S will produce SO_2 , which is also highly toxic. Do not assume the area is safe after the well is ignited.

A NO SMOKING POLICY shall be strictly enforced on location at all times.



1. Respiratory Protection

- Rescue Units (SCBA's): One (1) unit shall be placed at each briefing area and 2 shall be stored in the safety trailer.
- Work/Escape Units: Four (4) units shall be stored on the rig floor connected to the safety trailer with sufficient hose to allow workers to adequately perform duties with minimal restriction.
- Emergency Escape Units: Four (4) units shall be stored in the top dog house for emergency evacuation purposes.

2. Signs and Flags

• One (1) Condition Sign shall be placed at location entrance with the following language:

DANGER H₂S

HOMMERNINIANE IDANNESIDIK (COREGID)

MODERATE DANGER (Yellow)

展展的系统。他们就是这个问题。

Condition Flags shall be displayed at the sign in one of the following designations:

Green / normal conditions Yellow / potential danger Red/ danger, H₂S Present

- 3. Briefing Area: Two (2) briefing areas, designated by signs, shall be located perpendicular to each other and be easily visible and readily accessible.
- 4. Windsocks: Two (2) windsocks shall be strategically placed where they are easily visible from all points.

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- One (1) stationary H₂S monitor with three sensors shall be located on the rig in the top dog house. The H₂S monitor shall be calibrated to alarm at 10PPM for the low alarm (visual alarm) and 15 PPM for the high alarm (audible alarm). Calibrations shall be checked every 30 days or as needed. The sensors shall be located as follows:
- #1 Rig floor
- #2 Bell Nipple
- #3 Flow line or where the well bore fluid is discharged
- A gas sampling pump, with detector tubes capable of measuring H₂S gas, shall be located in the safety trailer.

6. Additional Rescue Equipment

- One Hundred Feet (100') of 5/8" OSHA approved rope.
- Two (2) OSHA approved full body harness
- One (1) Stretcher

7. Fire Extinguishers:

• One (1) 20#, Class ABC fire extinguisher shall be located in the safety trailer.

8. Communication:

 Cellular Phones/Mobile Phones or two- way radios shall be available via the vehicles on location and on the rig floor.

TOXIC EFFECTS OF HYDROGEN SULFIDE

Hydrogen sulfide (H₂S) is extremely toxic. The acceptable ceiling concentration for an eight (8) hour exposure is 10 PPM, which is .001% by volume. Hydrogen sulfide (H₂S) is colorless. Hydrogen Sulfide (H₂S) is heavier than air, the specific gravity is equal to 1.19 which is 20% heavier than ambient temp air which is 1.00. Hydrogen sulfide (H₂S) can form an explosive mixture with air between 4.3% and 46.0%. By volume hydrogen sulfide (H₂S) is as toxic as hydrogen cyanide and is between 5-6 times more toxic than carbon monoxide.

Common Name	Chemical Formula	Specific Gravity	Threshold Limit ¹	Hazardous Limit ²	Lethal Concentration ³
Hydrogen Cyanide	HCN	0.94	10 PPM	150 PPM/Hr	300 PPM
Hydrogen Sulfide	H ₂ S	1.189	10 PPM ⁴ 15 PPM ⁵	100 PPM/Hr	600 PPM
Sulfur Dioxide	SO ₂	2.21	2 PPM	N/A	100 PPM
Chlorine	CL ₂	2.45	1 PPM	4 PPM/Hr	1000 PPM
Carbon Monoxide	со	0.97	50 PPM	400 PPM/Hr	1000 PPM
Carbon Dioxide	CO ₂	1.52	5000 PPM	5%	10%
Methane	CH4	0.55	90,000 PPM	Combustible @ 5%	N/A

TOXICITY OF VARIOUS GASES

 Threshold limit – Concentration at which it is believed that all workers may be repeatedly exposed, day after day with out adverse effects also referred to as Time Weighted Average (TWA).

- (2) Hazardous limit Concentration that may cause death
- (3) Lethal concentration Concentrations that will cause death with short-term exposure
- (4) Threshold limit 10PPM NIOSH guide to chemical hazards
- (5) Short- term threshold limit Concentration higher than Threshold limit with limits placed on time one can be exposed. Exposure time is limited to 15 minutes followed by one (1) hour in fresh air. This cycle can be repeated for (4) times during a normal eight (8) hour work day.

	100/100/11/4	mons are carculated as 15:00 psia and 00 acgrees 1.		
Concentrations		Physical Effects		
0.001%	10 PPM	Obvious & unpleasant odor. Safe for an eight (8) hour exposure		
0.005%	50 PPM	Can cause some flu-like symptoms and can cause pneumonia.		
0.01%	100 PPM	IDLH ¹ . Kills the sense of smell in 3 to 15 minutes. May irritate eyes and throat.		
0.02%	200 PPM	Kills the sense of smell rapidly. Severely irritates eyes and throat. Severe flu-like symptoms after 4 or more hours may cause lung damage and/or death.		
0.06%	600 PPM	Loss of consciousness quickly, death will result if not rescued promptly.		

(Concentrations are calculated @ 15.00 psia and 60 degrees F.)

(1) Immediately dangerous to life or health

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Master Marketing

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TOXICITY OF HYDROGEN SULFIDE

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H ₂ S Per Cent (PPM)	0 - 2 Minutes	0 - 15 Minutes	15 - 30 Minutes	30 Minutes to 1 Hour	1 - 4 Hours	4 - 8 Hours	8 - 48 Hours
0.005 (50 ppm) 0.010 (100 ppm)				Mild Conjunctivitis; Respiratory Tract Irritation			-
0.010 (100 ppm) 0.015 (150 ppm)		Coughing; Irritation of Eyes; Loss of Sense of Smell	Disturbed Respiration; Pain in Eyes; Sleepiness	Throat	Salivation & Mucous Discharge; Sharp Pain in Eyes; Coughing	Increased Symptoms*	Hemorrhage & Death *
0.015 (150 ppm) 0.020 (200 ppm)		Loss of Sense of Smell	Throat & Eye Irritation	Throat & Eye Irritation	Difficult Breathing; Blurred Vision; Light & Shy	Serious Initating Effects	Hemorrhage & Death *
0-025 (250 ppm) 0.035 (350 ppm)	Irritation of Eyes; Loss of Sense of Smell	Irritation of Eyes	Painful Secretion of Tears; Weariness	Light & Shy; Nasal Catarrh; Pain in Eyes; Difficult Breathing	Hemorrhage & Death		
0-035 (350 ppm)		Irritation of Eyes; Loss of Sense of Smell	Difficult Respiration Coughing; Irritation of Eyes	Increased Irritation of Eyes & Nasal Tract; Dull Pain Head; Weariness; Light & Shy	Dizziness Weakness; Increased Irritation; Death	Death *	
0.050 (500 ppm)	Coughing Collapse & Unconsciousness	Respiratory Disturbances; Irritation of Eyes; Collaps e	Serious Eye Irritation; Palpitation of Heart; Few Cases of Death*	Severe Pain in Eyes and Head Dizziness; Trembling of Extremities; Great Weakness & Death *	-		
0.060 (600 ppm) 0.070 (700 ppm) 0.080 (800 ppm) 0.100 (1000 ppm) 1.150 (1500 ppm)	Collapse * Unconsciousness Death *	Collapse * Unconsciousness Death *			DDM norte nor mill		

* Data secured from experiments of dogs, which have susceptibility similar to men/women. **PPM parts per million

THE USE OF SELF-CONTAINED BREATHING AIR EQUIPMENT

SCBA should be worn when:

- Working near the top or on top of any tank.
- Disconnecting any line where H₂S can reasonably be expected.
- Sampling air in the area to determine if toxic concentrations of H₂S exist.
- Working in areas where over 10 PPM of H₂S has been detected.
- At any time there is a doubt as to the H₂S level in the area to be entered.

Air quality testing shall be continuous throughout the entire operation if a container is breeched or in a hazardous location.

All personnel shall be trained in the use of SCBA prior to working in a potentially hazardous location.

Facial hair and standard eyeglasses are not allowed with SCBA use.

Contact lenses are never allowed with the use of SCBA.

The SCBA shall be inspected monthly.

After each use, the SCBA shall be cleaned, disinfected, serviced, inspected and refilled to proper specifications.

<u>KESCUE & FIKST AID FUR VICTIMS OF HYDROGEN</u> <u>SULFIDE (H2S) POISONING</u>

Do not panic!

Remain calm and think with your head and not your heart.

Don breathing apparatus.

Protect yourself, then remove victim to fresh air as quickly as possible. When evacuating: walk not run, upwind and uphill from the source or crosswind to achieve upwind.

Notify emergency response personnel

Provide artificial respiration and /or CPR, as necessary.

Remove all contaminated clothing to avoid further exposure.

A minimum of two (2) personnel on location shall be trained in CPR and First Aid.

Well Name & No.	1 – T41
Operator's Name:	BC OPERATING, INC.
Location:	1980' FNL & 660' FWL – SEC 7 – T23S – R38E – LEA COUNTY
Lease:	NM-114631

I. DRILLING OPERATIONS REQUIREMENTS:

1. The Bureau of Land Management (BLM) is to be notified at the Roswell Field Office, 2909 West Second St., Roswell NM 88201, (505) 627-0272 for wells in Chaves and Roosevelt Counties; the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (505) 234-5909 or (505) 361-2822 (After hours) - 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

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- B. Cementing casing: 13-3/8 inch 5-1/2 inch
- C. BOP tests

2. This area has potential for Hydrogen Sulfide (H2S) gas. An H2S Drilling Plan will be posted at the drilling site and activated should H2S be detected.

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 <u>13-3/8</u> inch surface casing shall be set at <u>950 feet</u> 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>5-1/2</u> inch production casing is <u>cement shall extend</u> <u>upward a minimum of 500 feet above the uppermost hydrocarbon bearing interval.</u>

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 <u>13-3/8</u> 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.

- 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.

ALTERNATIVE CONDITIONS OF APPROVAL - DRILLING

Drilling Fluids, Casing and Cementing Requirements for Most of Lea County:

Casing and Cementing

Surface casing is to be set at a sufficient depth to protect useable water zones and cement circulated to surface. In areas where the salt section (Salado) is present, surface casing should be set at least 25 feet into the top of the Rustler Anhydrite and cement circulated to the surface.

As an alternative, surface casing may be set through the Santa Rosa Formation or other potable water bearing zones and circulate cement to surface. For wells requiring an intermediate casing string, such string shall be cemented to the ground surface. In the case where intermediate casing is not required the operator shall case and cement the production hole to the ground surface.

While drilling from the surface casing to the Rustler formation it is recommended that operators periodically sweep the hole with viscous low water loss pills to help build a filter cake across useable water zones in the redbeds.

Drilling Fluid

Fresh water or fresh water spud mud shall be used to drill to surface casing depth. If surface casing is set at a lesser depth than the top of the Rustler formation., fresh water spud mud may be used to drill down to the first salt in the Rustler Formation. after which brine or fresh water may be used.

Non-toxic or biodegradable water based polymers, drilling paper, starch and gels may be used in the mud system in order to retard seepage into the redbeds.

Two to five percent diesel or crude oil may be used in the redbed section in order to control heaving shales and mudstones.

Caustics and Lime shall not be used in the red beds but may be added when the Rustler formation is reached. However, sodium carbonate maybe used for alkalinity or ph control while drilling the redbeds above the Rustler formation.

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Additionally, questions of whether an additive may be used should be referred to the Roswell Field office.

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

Form C-144 June 1, 2004

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 office

Pit or Below-Gra	ade Tank Registration or Clos	ure		
Is pit or below-grade tar	nk covered by a "general plan"? Yes 🗌 N	No X		
Type of action: Registration of a pit	or below-grade tank 🕅 Closure of a pit or below-g	grade tank		
Operator: B.C. OPERATING, INC. Telephon	ne: (432) 683-2950 e-mail address:	kwidner@usaonline.net		
Address: P.O. Box 50820, Midland, TX 79710	120110			
Facility or well name: T41 #1 API #: 2		E Sec 7 T 23S R 38E		
County: Lea Latitude	879,303 Longitude 4	482,527 NAD: 1927 🔀 1983 🗌		
Surface Owner: Federal 🗋 State 🗋 Private 🛣 Indian 🗋				
Pit	Below-grade tank			
Type: Drilling 🕅 Production 🗌 Disposal 🗌	Volume:bbl Type of fluid:	Volume:bbl Type of fluid:		
Workover 🔲 Emergency 🗌	Construction material:			
Lined 🔀 Unlined 🗋	Double-walled, with leak detection? Yes 🗌 If not, explain why not.			
Liner type: Synthetic 🔀 Thickness <u>14</u> mil Clay 🗋				
Pit Volume 24,000 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)		
	100 feet or more	(0 points)		
	Yes	(20 points)		
Wellhead protection area: (Less than 200 feet from a private domestic (No	(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)	10 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) Indicate dispose	al location: (check the onsite box if
your are burying in place) onsite 🔲 offsite 🔲 If offsite, name of facility (of remedial action taken including
remediation start date and end date. (4) Groundwater encountered: No 🗌 Yes 💭 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.	6	
Additional Comments:	12	Ale and a second
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	(c) (c)	

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 sattached alternatiss OCD-approved plan 🗔. 7/19/06 Date: Kenneth C. Dickeson, Authorized Agent Signature Printed Name/Title 76 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. PETROLEUM ENGINEER AUG 0 7 2006 Approval: Printed Name/Title Signature 🧾 Date:

BC OPERATING, INC.



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