Form 3160-3 (July 1992)	UNITe DEPARTMENT C	STATES HO	bbs, 201 622 SyBMIT RIOR	IN TR. ATE* instructions on verse side)	FORM APPF OMB NO. 100 Expires: Februar	04-0136	
	5. LEASE DESIGNATION AND SERIAL NO.						
APPLI	6. IF INDIAN, ALLOTTEE OR						
a. TYPE OF WORK							
b. TYPE OF WELL	DRILL 🕅	DEEPEN	_J		7. UNIT AGREEMENT NAME		
NAME OF OPERATOR	WELL VI OTHER		8. FARM OR LEASE NAME, WELL NO.				
BTA OIL PRODU	JCERS				Bell Lake,7909 JV- 9. API WELL NO.	P No. 2	
ADDRESS AND TELEPHO			· · · · · · · · · · · · · · · · · · ·			711001	
104 South Pecos	s, Midland, TX 79701	915/	682-3753		30-025-	54 JA	
LOCATION OF WELL (Re	port location clearly and in accordance	with any State remuirem			Bell Lake, Morrow Mid		
At surface 660 FSL	& 1980' FEL SW/SE	(U thr O)			11. SEC., T., R., M., OR BLK		
At proposed prod. zon	e	(0. 10. 0)			AND SURVEY OR AREA		
					Sec. 18, T23S, R34E		
DISTANCE IN MILES AN		12. COUNTY OR PARISH	13. STATE				
26 Miles west of		Lea	NM				
DISTANCE FROM PROF LOCATION TO NEARES		CRES ASSIGNED					
PROPERTY OR LEASE L (Also to nearest drig. unit)	TOTHIS	315.62 (pooled)					
DISTANCE FROM PROF	OSED LOCATION"		19. PROPOSED DEPTH	20. ROTARY	OR CABLE TOOLS		
OR APPLIED FOR, ON T	HIS LEASE, FT. N	one	13,600		Rotary		
. ELEVATIONS (Show whe		· · · · · · · · · · · · · · · · · · ·		·····	22. APPROX. DATE WORK	WILL START	
3501 GR; 3521	RKB				02/14/00		
•		PROPOSED CASI	NG AND CEMENTING PROGR	AM		····	
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOO					
17-1/2"	K55, 13-3/8"	54.5#	700'		QUANTITY OF CEMENT		
12-1/4"	K55 - 9-5/8"	40#	5000'		800 sx (sufficient to circulat		
8-1/2"	P110/S95; 7"	29#	11,800		1500 sx (Suffiicient to Circulate Above 9-5/8" shoe		
					10000 3-070 SIL		
	B <i>iiia</i> == =	104	11,400'-TD		Circ. around line		
6-1/8"	P110; 5" liner	18#			Circ. around liner		

PROPERTY NO. 2296 PROPERTY NO. 2296 POOL CODE 72000 EFF. DATE <u>-5-2000</u> API NO. <u>30-025-34827</u>

505

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED

IN ABOVE SPACE DESCRIBE PROGRAM. If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on probabilities locations and measured and true vertical depths. Give blowout preventer program, if any. 24. SIGNED TITLE Regulatory Administrator DATE 12/07/99 (This space for Federal or Stat e office use) PERMIT NO. APPROVAL DATE 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. CONDITIONS OF APPROVAL, IF ANY: Assistant Field Office Manager. Acting Lads and Minerals . . JAN 0 3 2000 APPROVED BY TITLE DATE *See Instructions On Reverse Side Title 18 U.S.C. Section 1001, makes 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. بالمعين والمدانية بالمعجرة أأته المقالف C WW





DISTRICT I P.O. Box 1980, Hobbs, NM 88241-1980

DISTRICT II P.O. Drawer DD. Artesia, NM 56211-0719

DISTRICT III 1000 Rio Brazos Rd., Axtec, NM 67410

DISTRICT IV P.O. Box 2068, Santa Fe, NM 87504-2088

State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102 Revised February 10, 1994 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

OIL CONSERVATION DIVISION P.0. Box 2088 Santa Fe, New Mexico 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

AMENDED REPORT

	Number	20 4	Pool Code		Pool Name									
30-025 Property		d/		7 1920 78	Property Name									
2290	6	7909 JV-P BELL LAKE 2								nder				
003002		Operator Name Elevation												
003002		BTA OIL PRODUCERS 3501												
UL or lot No.	Surface Location UL or lot No. Section Township Range Lot Idn Feet from the North/South line Feet from the East/Nest line County									·····				
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UL or lot No.	Section	Township	Range	Lot Idn	Feet from		North/South line	Feet from the	East/West line	County				
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Dedicated Acres	Joint on	r Infill Con	nsolidation (Code Or	der No.				<u> </u>	L				
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	1					i		December Date	7, 1999					
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APPLICATION FOR DRILLING

BTA OIL PRODUCERS Bell Lake, 7909 JV-P, NO. 2 660' FSL & 1980' FEL Sec. 18, T23S, R34E Lea County, New Mexico

In conjunction with Form 3160-3, Application for Permit to Drill, BTA Oil Producers submits the following 10 items for pertinent information in accordance with BLM requirements:

1. The geologic surface formation is Quaternary.

2. The estimated top of geologic markers are as follows:

Delaware	5,055'
Bone Spring Lime	8,530'
Strawn Lime	11,830'
Atoka Bank Lime	12,230'
Morrow Clastics	12,730'
Upper Morrow	12,930'
Lower Morrow	13,340'

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

Atoka Bank Lime 12,230' Upper Morrow 12,930'

All shows of fresh water and minerals will be reported and protected. A sample will be taken of any water flows and furnished to the BLM, Division of Minerals. All oil and gas shows will be adequately tested for commercial possibilities and reported and protected.

4. Proposed Casing and Cementing Program:

	Setting	Depth			
<u>Casing Size</u>	From	to	Weight	Grade	<u>Joint</u>
13-3/8 "	0	700'	54.5#	J55	STC
9-5/8"	0	4,000'	40#	K55	LTC
9-5/8"	4,000'	5,000'	40#	HCK55	LTC
7"	0	11,800'	29#	P110/S95	LTC
5" Liner	11,300'	TD	18#	P110	STL



Drilling Plan Bell Lake, 7909 JV-P, #2 Page 2

Depending upon availability at the time that the casing is run, equivalent weights and grades may be substituted.

13-3/8" casing will be cemented with 500 sx light cement, tailed-in with 300 sx Class "C cement. Circulated to the surface.

9-5/8" casing will be cemented with 1,500 sx light cement tailed-in with 300 sx Class "C".

7" casing will be cemented with 1,000 sx light, tailed in w/ 400 sx Class "H" to to cement back above 9-5/8" shoe.

5" liner will be cemented with 250 sx Class H with sufficient volume to circulate.

Note: All casing strings will be pressure tested to 0.22 psi/ft. of setting depth or 1500 psi (whichever is greater) after cementing and prior to drillout.

- 5. Pressure Control Equipment: See Attached Diagrams.
- 6. Mud Program:

<u>Surface to 700':</u> Fresh water spud with 35 to 45 sec/1000 cc viscosity. Will keep mud weight as low as possible using solids separation equipment and water. Will maintain fresh gel in system. Mud wt = 9.5/9.6

<u>700' to 5,000'</u>: Brine water, circulate to reserve pit. Will use lime for pH control in range 10 to 11. Will sweep hole with gel slugs as required for hole cleaning. Mud wt = 10 ppg

<u>5,000' to 11,800'</u>: 8.6 to 9.2 ppg controlled brine water. Will use lime for pH control in range 10 to 11. Will sweep hole with salt gel slugs as required for hole cleaning. Will use paper for seepage losses. Will adjust fluid weight as required using brine water.

<u>11,800 to TD:</u> Drill out below 7" casing with premix mud. Mud weight will be adjusted as required by hole conditions. Mud wt = 11.5/12.0 ppg.



Drilling Plan Bell Lake, 7909 JV-P, #2 Page 3

- 7. AUXILIARY EQUIPMENT:
 - a) Upper kelly cock valve with handle available.
 - b) Lower kelly cock valve with handle available.
 - c) Safety valves and subs to fit all drill string connections in use.
 - d) Inside BOP or float sub available.
 - e) Wear ring in casing head
 - f) No floats at bit
 - g) Monitoring of mud system will be electronic/ mechanical below 9,500'.
- 8. Testing Logging and Coring Program:

Drill Stem Tests will only made when samples, drilling time and other data indicate a test is warranted.

It is planned that electric logs will include Gamma Ray-CNL, FDC logs and dual laterologs.

<u>Note:</u> A gamma ray log will be run over the surface casing from its base to the ground surface.

No coring is planned.

- 9. No abnormal pressure is anticipated in the Atoka and Morrow. BHP=8000 psi (maximum)
- 10. Anticipated Starting Date:

It is planned to commence drilling operations on or before February 14, 2000 to last a period of 85 days.

Contact <u>L. G. JOHNSON</u> at <u>915-682-3753</u> With any questions concerning the Drilling Plan.

L. G/JOHNSON Drilling Superintendent





BOP HOOK UP AFTER SETTING SURFACE

BTA OIL PRODUCERS Bell Lake, 7909 JV-P, No. 2 660' FSL & 1980' FEL Sec. 18, T23S, R34E Lea County, NM



5 M CHOKE MANIFOLD EQUIPMENT



CHOKE MANIFOLD EQUIPMENT - CONFIGURATION MAY VARY

BTA OIL PRODUCERS Bell Lake, 7909 JV-P, No. 2 660' FSL & 1980' FEL Sec. 18, T23S, R34E Lea County, NM



SURFACE USE PLAN SUMMARY

<u>FOR</u>

BTA OIL PRODUCERS Bell Lake, 7909 JV-P, No. 2 Sec. 18, T-23-S, R-34-E Lea County, N.M.

LOCATED:

26 Miles West of Jal, NM

FEDERAL LEASE NUMBER: NMNM 1065194

SURFACE OWNERSHIP:

R. V. Keller, LLC 2811 Co. Rd. 460 Oakley, KS 67748 785/672-3257

<u>POOL</u>:

DEDICATED ACRES:

EXHIBITS:

Bell Lake, Morrow Mid

315.62– S/2 of Sec. 18 (Pooled)

A. Topographic Vicinity Map

- B. Topographic Road Map
- C. Pit and Pad Layout
- D. Rig Layout Sketch
- E. County Map



MULTI-POINT SURFACE USE & OPERATIONS PLAN

BTA OIL PRODUCERS

#2, BELL LAKE, 7909 JV-P 660' FSL & 1980' FEL Sec. 18, T23S, R34E Lea County, NM

This plan is submitted with Form 3160-3, Application for Permit to Drill, covering the referenced well. The plan describes the location of the proposed well, the proposed construction activities and operations plan, the magnitude of necessary surface disturbance, and the procedures to be followed in rehabilitating the surface after completion of the operation so that complete appraisal can be made concerning the environmental effects associated with the operations.

- 1. Existing Roads
 - A. Exhibit –A- is a topographic map showing the location of the proposed well as staked with existing roads and conditions within the one mile area. The proposed location is approximately 26 miles west from, Jal New Mexico as shown on Exhibit –B-.
 - B. From Jal, travel westerly on NM State highway 128 turn north on Lea County Road 21, also known as Delaware Basin Road and travel 6.2 miles. Turn east on new lease road for .1 mile to the wellsite, as shown on Exhibit -B-
- 2. Access Road
 - A. Our proposed access road will be 1046 feet from Lea County Rd 21 as shown on Exhibit –B- and east to the well pad as shown on Exhibit –C-.
 - B. Caliche will be used for the access road; watered, compacted and graded.



MULTI-POINT SURFACE USE & OPERATIONS PLAN

#2, Bell Lake, 7909 JV-P Page 2

- C. The access road will be crowned for drainage and maintained during drilling operations and, if productive, as long as producing.
- 3. Location of Existing Wells
 - A. All existing wells within a one mile radius of our proposed well are shown on Exhibit -E-.
- 4. Location of Existing and/ or Proposed Facilities if Well is Productive.
 - A. If well is productive, we will use the existing well pad for the tank battery and all necessary production facilities.
 - B. New facilities will be applied for via Sundry notice with a schematic diagram prior to installation.
 - C. Should the well be successfully completed for production, the BLM will be notified within five days when the well is placed in producing status.
 - D. All facilities will be painted a flat, nonreflective, earthtone color to match the standard environmental colors within six months of installation.
- 5. Location and Type of Water Supply
 - A. Water for drilling and completion operations will either be purchased and trucked to the well site, or transported by plastic temporary "fas-line" laid on the surface alongside existing roads.
- 6. Source of Construction Materials
 - A. Caliche used for construction of the drilling pad and access road will be obtained from closest existing caliche pit as designated by the BLM.
 - B. If there is not sufficient material available, it will be purchased from the area designated by the BLM.
- 7. Methods of Handling Waste Disposal
 - A. Drill cuttings will be disposed of in the reserve pits located on the north side of the rig.
 - B. Drilling fluids will be allowed to evaporate in the reserve pits until the pits are dry enough for backfilling.



MULTI-POINT SURFACE USE AND OPERATION PLAN

#2, Bell Lake, 7909 JV-P Page 3

- C. Water produced during operations will be collected in tanks until hauled to an approved disposal system or a separate disposal application will be submitted to the BLM for appropriate approval.
- D. Oil produced during testing will be stored in test tanks until sold.
- E. Current laws and regulations pertaining to the disposal of human waste will be complied with.
- F. Trash, waste paper and garbage will be disposed of by hauling to an available disposal. All waste material will be contained in a totally enclosed trash basket with a fine wire mesh, to prevent wind scattering during collection. The road and pad will be kept litter free.
- 8. Ancillary Facilities
 - A. It is possible that a mobile home will be used at the well site during drilling operations.
- 9. Wellsite Layout
 - A. Exhibit –D- shows the rig layout and reserve pit.
 - B. No cut and fill will be required at the well site, however, it will require clearing and leveling.
 - C. The reserve pits will be fenced.
- 10. Plans for Restoration of Surface
 - A. Following drilling and/or completion operations, all equipment and material not needed for further operations will be removed. The location will be cleaned of all trash and junk to leave the well site as clean as possible.
 - B. Any unguarded pits containing fluids will be fenced until they are filled. Oil in the mud pit will necessitate either removal or installation of overhead flagging. The pit will be allowed to dry prior to the commencement of backfilling operations. Fill material will be pushed back into the cuts and up over the backslope, recontouring the area so that there are no large depressions that will trap water or form ponds. Topsoil will be evenly distributed over the entire location. The seedbed will be prepared by disking to a depth of four to six inched following the contour.



MULTI-POINT SURFACE USE AND OPERATION PLAN

#2, Bell Lake, 7909 JV-P Page 4

- C. If the proposed well is non-productive, all rehabilitation and/or vegetation requirements of the BLM will be complied with and will be accomplished as expeditiously as possible.
- D. All disturbed areas will be seeded on the contour at a depth of one-half Inch using the following mixture:
 - 1 pound per acre Sand Dropseed
 - 1 pound per acre Sand Lovegrass
 - 2 pounds per acre Plains Bristlegrass
- E. Seeding will be completed after September 15 and prior to November 15th before freeze up or as early as possible the following spring to take advantage of available ground moisture.
- F. Newly constructed access road will be recontoured, disked, and seeded as specified above. All rehabilitation work, including seeding, will be completed as specified by the BLM, or sooner if conditions permit.
- 11. Surface Topography
 - A. The surface ownership is Keller, R. V., LLC, 2811 So. Co. Rd 460, Oakley, KS 67748, Phone 785/672-3257.
 - B. The wellsite and access route are located to the South of San Simon Swale as shown on Exhibit –A-, Topographic map of the area. The area is fairly flat with sandy loam soil underlain with caliche.
 - C. There are no houses or buildings within one mile of the drillsite.
 - D. Signs identifying and locating our well will be maintained at the drillsite and principle entrance, commencing with the spudding of the well.
 - E. An Archaeological Survey is being prepared by Desert West Archaeology and will be sent directly to the Carlsbad office.
- 12. Operator's Representative:
 - A. The field representative that is responsible for assuring compliance With the approved surface use plan is: Drilling Superintendent: Mr. L. G. Johnson Phone: 915/682-3753 (Office) 915/682-5149 (Home) 915/553-2703 (Mobile)



MULTI-POINT SURFACE USE AND OPERATION PLAN

#2, Bell Lake, 7909 JV-P Page 5

13. Certification:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by BTA Oil Producers and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved. Dated this 7th day of December, 1999.

L. G. JOHNSON DRILLING SUPERINTENDENT FOR BTA OIL PRODUCERS



VICINITY MAP



SCALE: 1'' = 2 MILES

SEC. <u>18</u> TWP.<u>23</u>—S_RGE.<u>34</u>—E SURVEY <u>N.M.P.M.</u> COUNTY <u>LEA</u> DESCRIPTION <u>660' FSL & 1980' FEL</u> ELEVATION <u>3501</u> OPERATOR <u>BTA OIL PRODUCERS</u> LEASE <u>7909 JV-P BELL LAKE</u>

EXHIBIT -A-

JOHN WEST SURVEYING HOBBS, NEW MEXICO (505) 393-3117



LOCATION VERIFICATION MAP



SEC. <u>18</u> TWP. <u>23-S</u> RGE. <u>34-E</u> SURVEY <u>N.M.P.M.</u> COUNTY <u>LEA</u> DESCRIPTION <u>660' FSL & 1980' FEL</u> ELEVATION <u>3501</u> OPERATOR <u>BTA OIL PRODUCERS</u> LEASE <u>7909 JV-P BELL LAKE</u> U.S.G.S. TOPOGRAPHIC MAP TIP TOP WELLS, N.M. CONTOUR INTERVAL – 10'

EXHIBIT -B-

JOHN WEST SURVEYING HOBBS, NEW MEXICO (505) 393-3117



DISTRICT I P.O. Box 1980, Hobbs, NM \$8241-1980 State of New Mexico

Energy, Minerals and Natural Resources Department

DISTRICT II

P.O. Drawer DD, Artesia, NM 86211-0719

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

DISTRICT IV P.O. Box 2088, Santa Fe, NM 87504-2088

Form C-102 Revised February 10, 1994 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

OIL CONSERVATION DIVISION P.O. Box 2088 Santa Fe, New Mexico 87504-2088

D AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number Pool Code Pool Name										
			7	1920		Bell Lake, Morrow Mid				
Property C	lode	Property Name							mher	
		7909 JV-P BELL LAKE							2	1001
003002).	Operator Name						Elevation		
003002	· · · · · · · · · · · ·	BTA OIL PRODUCERS						3501		
			Surface Location							
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			Bottom	Hole	Location	If Diff.	erent From Sur	[
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