DEPARTMENT OF THE INTERIOR  SEP 2001  APPLICATION FOR PERMIT TO DRILL OR REENTER  APPLICATION FOR PERMIT TO DRILL OR REENTER  OMB No. 1004-0135  Extress Designation and Senai No. 1004-0135  NMNM-105533  Goff Indian, Allottee or Tribe Name			
BUREAU OF LAND MANAGEMENT  Exores Novemoer 30: 2000  Sept Lease Designation and Serial No.			
AND OFF AND LEASE Designation and Serial No.			
NIMANIA 105533			
APPLICATION FOR PERMIT TO DRILL OK KEEN I COMPANY AND A STANDARD TO SHARE TO SHARE THE STANDARD TO SHARE THE STANDARD TO SHARE THE STANDARD TO SHARE THE SHA			
ta Type of Work DRILL REENTER O DIST. 3 The funit or CA, Agreement, Name and	No 388		
1: Type of Well: Oil Well Sas Well Other Single Zone Multiple Zone 8. Lease Name and Well No.			
Bois d' Arc Divide 22 #	1		
2. Name of Operator Synergy Operating, LLC (agent for Bois d' Arc Offshore, Inc.)  9. AP! Well No. 30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-045-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-30-043-045-045-040-045-040-045-045-040-045-045	152		
10. Field and Pool, or Exploratory,	1. : 6 . 1. 1.		
Se Addition			
Farmington, NM 87499 (505) 325-5449 11. Sec., T., R., M., or Blk. and Survey	or Area		
4. Location of Well (Footage, Sec, T. R., M. or Survey Description) At surface: Unit Letter N, 750' FSL, 1650' FWL. Sec 22, T21N-R05W  At processed group, Zone: Same	V		
12.0	State		
1. Distance in miles and direction from nearest town or post office*  Sandoval  N	lew Mexico		
1) Miles West of Johnsons Trading Post  16. No of Acres in lease  17. Spacing Unit dedicated to this well			
Distance from proposed*			
o ation to nearest 750 Feet from South Line 1280 Acres 160 Acres			
or spety or lease line if.			
A so to hearest orig. Unit line if any)  19. Proposed Depth 20. BLM/SIA Bond No. on file			
Distance from proposed			
c ation to rearest 1650 Feet from West Line 3810' NM-2559			
p coety or rease line. †.			
2. Elevation (Snow whether DF, KD3, RT, GL, etc.)  22. Approximate date work will start*  23. Estimated duration	1		
7304' Ground Level November 1, 2001 60 days			
24. Attachments			
The following, completed in accordance with the requirements of Onshore Cili and Gas Order No. 1, shall be attached to this form:  4. Bond to cover the operations unless covered by an existing bond.	or file see		
: Well planted by a registered serveyor.			
2 A Drilling Plan 3. A Surface Use Plan (if the location is on National Forest System Lands, the 5. Operator certification.			
3. A Surface Use Plan in the location is on National Polesi System Landstate  SUPC shall be filed with the appropriate Forest Service Office.  6. Such other site specific information and/or plans as may be requ	ared by the		
authorized officer			
E ze of more Grade, Size of Casing Weight per Foot Setting Depth Quantity of Cement			
24 # 150' 210 sxs. 245			
7-7/8" 5-1/2" K-55 15.5# 3810' 708 sxs. 168	4 113		
SEE ATTACHED APD INFORMATION Latitude: 36 Deg. 01 Min Longitude: 107 Deg. 21 Mir	n, 47 Sec N i. 14 Sec W		
25. Signature Name(Printed/Typed) Date			
8-7-	2001		
Thomas E. Mullins	1		
tie Engineering Manager			
pcroyed by (Signature) Name(Printed/Typed) Date	± 5		
SEP	17 200		
S. W. Unclasin			
tie ast field Marriages			
polication approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to			
conduct operations thereon.			
anditions of approval, if any, are attached.			
itle 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowlingly and willfully to make to any department or agency of the	-		
enditions of approval, if any, are attached.  Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowlingly and willfully to make to any department or agency of the United States any false, flicticious, or fraudulent statements or representations as to any matter within its jurisdiction			

MISTRICT U-P. J. Drawer DD, Artesia, N.M. 68211-0719

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

OIL CONSERVATION DIVISION

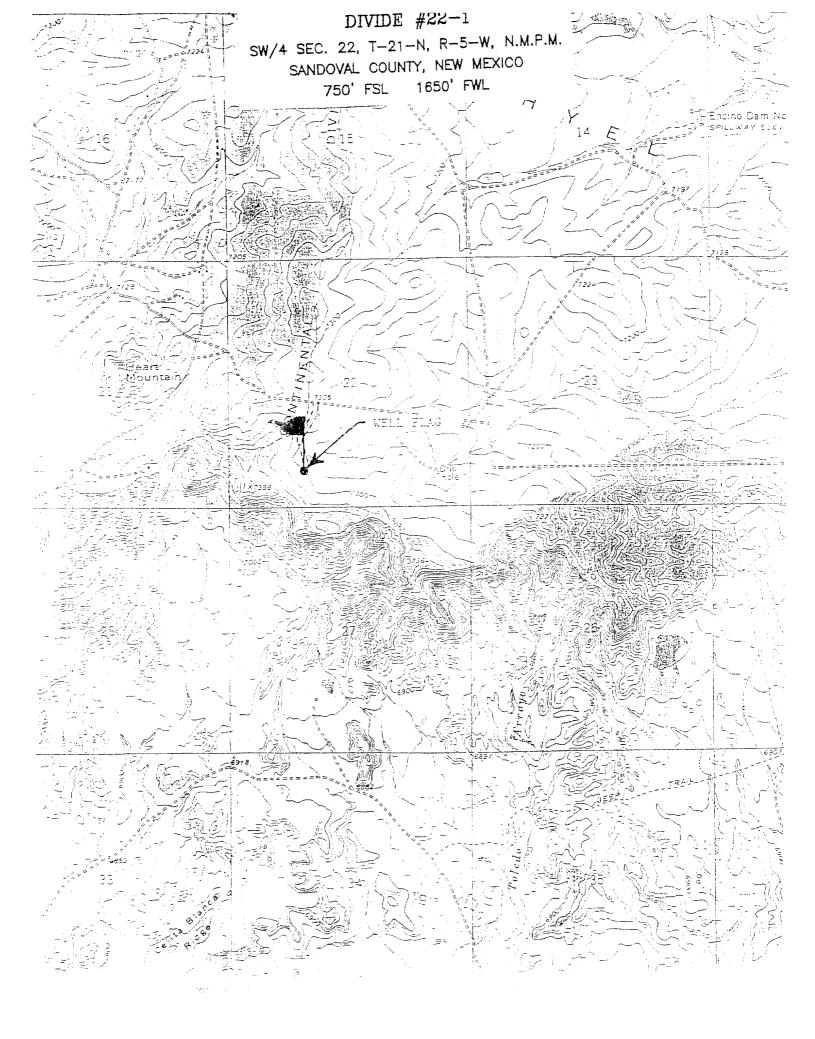
Instructions on back Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

DISTRICT IV PO Box 2088, Santa Fe, NM 87504-2088

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

☐ AMENDED REPORT

			OCATION	AND AC	REAGE DEDI				
30-043	mber 2015	2 1	7/32_	l	NC 2IN5	Pool Nam.		enle	
Property Code				Property			1		eil Number
28893 DIVIDE 22									
10GRID No. 10perator Name BCIS d' ARC Offshore, Inc.								Elevation 7304	
10545	0			10 Surface	Location				
UL or lot no.   Se	ection Township	Range		Feet from the	North/South line	Feet from the	East/Wes	t line	County
N	22 21-N	5-W		750	SOUTH	1650	WES	T	SANDOVAL
		11 Botto	m Hole	Location I	f Different Fro				
UL or lot no. Se	ection : Township	Range	Lot ldn	Feet from the	North/South line	Feet from the	Bast/Wes	t line	County
2 Dedicated Acres	<del></del>	18 Joint or In	nfill	14 Consolidation (	Code	16 Order No.			
NO ALLOWADI					ON UNTIL ALL EN APPROVED			EN CO	DNSOLIDATED
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						was plotted from	n field notes	of actual	surveys made by me same is true and
L						correct to the be	est of muchel	157	
	LAT. 36'01	47" N				15-1	10,00	DIA.	C.
2609.2'	LONG. 107	'21'14" W				Date of Surve		tessional	1 1
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1650'		88'				1		1/1	
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ALC'D S 89—3 CORNER 2638		1   F	FD. GLO B 1925	c		Certificate Nur			
		<del>-  3</del>							



## SYNERGY OPERATING, LLC (Bois d' Arc Offshore, Inc.)

EI	LL NAME:	Bois d' Arc I	Divide 2	.2 # 1			
RIJ	LLING PROG	NOSIS					
	Location of I		N, 750' FSL on 22, T21N				
	Unprepared (	Ground Elevatic	on:	<u> </u>	7304 '		
	The geologic	cal name of the s	surface f	formation is	Nacimiento		
	Type of drill	ing tools will be	Rotar	$\Sigma$ .			
	Proposed dri	lling depth is	3810'	<del></del>			
		d tops of import		logic marker Chacra -	rs are as follows	:: 1705'	
	Oio Alamo	-			a (Cliffhouse) -		
	Kirtland -	1245'					
		oal- 1475'			ıt -		
		ffs - 1485'			-		
	Lewis Shale						
	formations at Oil and Gas 2	ed depths at we re expected to be Zones	e encour  Water 2	ntered are as Zones	follows:	or other minera	al bearing
	Meneffe	2935	Picture	ed Cliffs	1485	Fruitland	1475
	Pt. Lookout	3755°	Cliftho	use	2250'	Meneffe	2935
	The proposed	l casing program	n is as fo	ollows:			
		g: <u>8-5/8", 24#,</u> tring: <u>5-1/2", 1:</u>			' (see details be	low)	
		ace casing will aintain hole stat		at a minim	um of 150', bu	t could be set	deeper if

July in

9. Cement Program:

Surface String: 210 sacks of Class "B" cement or equivlanet (1.18 ft3/sx vield,

15.6 ppg) with 3 percent CaCl in mix water and ½# sack celloflake. Volume is based upon 200% excess. A wooden wiper plug will be displaced within 20' of the shoe. This casing string

will be cemented to surface.

Production String: Lead Cement: 558 sxs Class A cement. Cement to surface -

150% excess casing/hole annular volume w/ Type III cement + 0.25#/sx Cello-flake + 5#/sx LCM-1 + 8% bwoc Bentonite + 3% bwoc Potassium Chloride mixed at 12.2 ppg. (2.48 cf/sx yield =

1.381 cf)

Tail: 150 sxs Premium Lite High Strength FM + 0.25#/sx Cello-flake + 3% Potassium Choride + 0.3% bwoc CD-32 + 0.7% bwoc

F1-52 mixed at 12.5 ppg. (2.02 cf/sx vield = 303 cf)

A Guide Shoe, and autofill float collar will be run 20' off of

bottom.

Note: Synergy continues to work to improve the cement slurries on our wells. Any modifications to cement will be of equivalent total volume, but would have better mechanical properties than the cement we are currently using.

Centralizer Program:

Surface: Total four (4) minimum - 10' above shoe and top of 2<sup>nd</sup>, 3<sup>rd</sup>, & 4<sup>th</sup>

jts. If 20' surface casing joints are used, then ten (10) centralizers

will be run, one at each collar.

Production: Total seven (7) - 10' above shoe and top of 1st, 2nd, 4th, 6th, 8th, &

10th its, a cement basket will be run above the Pictured Cliffs, with

turbolators above and below it.

Turbulators: Total two (2) - one at 1<sup>st</sup> it below Pictured Cliffs and 1 it above the

turbolator.

10. A 3000# Blow-Out Preventer System will be used for this well, consisting of the following items:

2 Hydraulic Rams (Pipe & Blind) or Hydraulic and Annular with Blind Ram on Bottom.

1- Kill Line (2-inch minimum)

1- Kill Line Valve (2-inch minimum)

1 - Choke Line Valve

2 chokes (refer to diagram in Attachment) on Choke Manifold

Upper kelly cock valve in open position with handle available

Safety Valve (in open position) and subs to fit all drill strings in use (with handle available)

262.