Form 3160-3 (August 1999)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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FORM APPROVED

OMB No. 1004.0136

OMB No.	1004-01	36
Expires Nove	mber 30	20

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APPLICATION FOR PERM	IIT TO DRILL OR REENTER	

2001 AUG - 3 PM LIS. Gase Designation and Serial No.

AP	PLICATION FOR PERM	IT TO DRILL	OR REENTER		NMNM-9	9720	
	070 Feet			6. If Indian, Allottee or Tribe Name			
1a. Type of Work 1b. Type of Well:					7. If Unit or CA, Agreement, Name and No. (8) Lease Name and Well No. Pois d' Arc Encino 15 # 1		
Name of Operator Synergy Opera	ating, LLC (agent for Boi	s d' Arc Offsh	ore, Inc		9. API Well No.	- 0 31 - Z	100 8
	PO Box 5513 Farmington, NM 87499		505) 325-5449		WC JONEWIS		Area
At surface: At proposed prod. Zor	ootage, Sec, T. R., M, or Survey Des Unit Letter A, 250' FNI e: Same		Sec 15, T20N-R	05W	A Sec 15, T	-20-N, R-05-W	
	and direction from nearest town or po Ojo Encino Village	ost office*			12. County or Par McKinley	1	_{tate} w Mexico
15. Distance from pro	pposed*		16. No of Acres in	lease	17. Spacing Unit (dedicated to this well	
location to nearest propety or lease line, to (Also to nearest drig.)		North Line	1090 Acre	es	160 Acre	s	
18. Distance from pro- location to nearest propety or lease line, t	920 Feet from	East Line	19. Proposed Dep 5250'	th		Bond No. on file 2559	
	vhether DF, KDB, RT, GL, etc.)		22. Approximate d Novembe Attachments		23. Estimated 60 d		
 A Drilling P A Surface I 	rtified by a registered surveyor. an Use Plan (if the location is on Nationa i be filed with the appropriate Forest	·	ods,the 5. 6. 5	item 20 above). Operator certification.		by an existing bond on f	
Size of Hole	Grade, Size of Casing	Weigh	nt per Foot	Setting Depth	Qu	antity of Cement	
12-1/4"	8-5/8" K-55	24	4#	158" 2	20	210 sxs, 245 ft3	
7-7/8"	5-1/2" K-55	1:	5.5#	5250'		935 sxs, 2319 ft	3 MIG 190
edural review pure	uent to 43 CFR 3165.3	, SEE ATTA	ACHED APD INFO	SUBJ. "GEN	ECT TO COMPLIA IERAL REQUIREN Latitude: 35 Deg	, 58 Min, 13 Sec N	CHED
25. Signature	1 6 2 /2			ne(Printed/Typed)		leg, 20 min, 51 Sec Date B - Z - Z	
Title Engin	eering Manager			Thomas E. Mullir	is j	02	
Approved by (Signatu	Mankieway		Nar	ne(Printed/Typed)		Date . / 6/20	7/81
Application approval of	TM Minieras openion open not warrant or certify the applicant	nt holds legal or equi	Offi		which would entitle the	e applicant to	
conduct operations the Conditions of approva	ereon. I, if any, are attached.						
	n 1001 and Title 43 U.S.C. Section 1 se, ficticious, or fraudulent statement				ake to any department	or agency of the	

Copy 2

and

NMOCD

1000 Rio Brezos Rd., Aztec, N.M. 87410

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

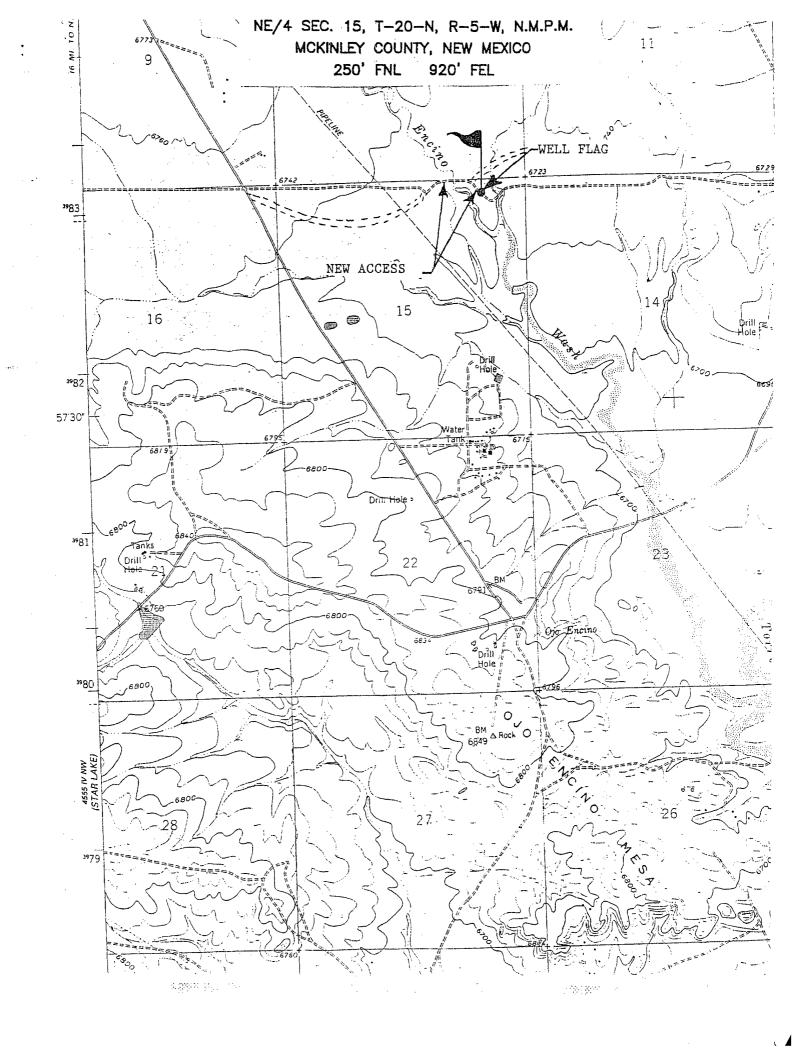
Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

8894

Certificate Numb

☐ AMENDED REPORT

PO Box 2088, Santa Fe, NM 87504-2088 WELL LOCATION AND ACREAGE DEDICATION PLAT Pool Code 7154 NEW 15A, Dakota Well Number Property Name ENCINO 15 Elevation Operator Name BOIS d' ARC Offshore, Inc. 6725 Surface Location North/South line East/West line UL or lot no. Range Feet from the Feet from the County Section Township Lot Idn **EAST** 250 NORTH 920 MCKINLEY 15 20-N 5-W ¹¹ Bottom Hole Location If Different From Surface Lot Idn Feet from the North/South line Fest from the East/West line UL or lot no. County Section Township Range 15 Order No. 12 Dedicated Acres " Joint or Infill M Consolidation Code NSL 4648,9-28-160 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 QTR. CORNER FD. GLO BC N 89-57-21 OPERATOR CERTIFICATION 920' 2624.8 392' I hereby certify that the information contained herein is 1936 SEC. CORNER FD. GLO BC true and complete to the best of my knowledge and belief LAT. 35'58'13" N 1936 LONG. 107'20'51" W نيا 00-01-00 E Signature Hom CALC'D CORNER CAP DESTROYED 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 supervision, and that the same is true and



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

WEI	LL NAME:	Bois d' Arc E	Encino 15 # 1			
DRII	LLING PROGN	OSIS				
1.	Location of Pr	oposed Well:	Unit A, 250° FNL & Section 15, T20N, R McKinley County, No	05W		
2.	Unprepared G	round Elevatio	on: <u>@ 672</u>			
3.	The geologica	l name of the s	urface formation is <u>K</u>	irtland .		
4.	Type of drilling	g tools will be	Rotary.			
5.	Proposed drill	ing depth is	5250' .			
6.	Nacimiento Ojo Alamo - Kirtland - Fruitland Coa Pictured Cliffs		Meneffe - Pt. Lookout - Mancos - Greenhorn -	Cliffhouse) - 110: 1690 261: 291: 456:	2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2	
7.	formations are	expected to be	hich anticipated wate e encountered are as fo		r mineral	bearing
	Oil and Gas Zo		Water Zones	Coa	1 Zones	
	Meneffe Pt. Lookout Mancos Dakota	1690' 2615' 2915' 4785'	Cliffhouse	1105' Meneffe	1450'	
8.	The proposed	casing progran	n is as follows:			
			J/K-55 @ 100' * 27 5.5# J/K-55 @ 5250' (see details below)		

* The surface casing will be set at a minimum of 150', but could be set deeper if required to maintain hole stablity.

9. Cement Program:

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

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: 331 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 Celloflake + 3% Potassium Choride + 0.3% bwoc CD-32 + 0.7% bwoc

F1-52 mixed at 12.5 ppg. (2.02 cf/sx yield = 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. Synergy may run a 2 stage cement job on the production casing if prior wells indicate cement may not reach surface.

Centralizer Program:

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

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 Pt. Lookout, with

turbolators above and below it.

Turbulators: Total two (2) - one at 1st jt below Pt. Lookout and 1 jt above the Pt.

Lookout..

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)
Pressure gauged choke manifold
2 inch minimum choke line
Fill-up line above the uppermost preventer

The BOP equipment will be pressure and function tested according to Onshore Order # 2 - III.A-1 with a 30% safety factor. Please see that attached diagram.

11. Drilling Mud Prognosis:

Depth	Type	Wt./ppg.	Vis.,	Fluid Loss	<u>pH</u>
0'-350'	FW gel/lime spud mud	8.4 - 8.7	30-50	NC	10
350'- TD	Low solids non-dispersed	8.4 - 9.0	30-40	<20 cc's	9.5-10

Sufficient material needed to maintain mud properties, control loss circulation, and absorbent materials to contain any unforeseen pressure control situations will be maintained at the wellsite during all drilling operations. A mud logging unit w/ gas detector as well as a mud pit level indicator will be used out from under surface to TD.

12. The testing, logging, and coring programs are as follows:

D.S.T.s or cores: No DST's or Cores are anticipated, rotary sidewall cores may be taken.

Logs: Mud logger out from under Surface to TD, Openhole Logs to include SP, Induction, Density, & Neutron. Additional logs may be run.

13. No Anticipated or abnormal pressures or temperatures should be encountered. No hydrogen sulfide is present or anticipated.

Estimated Bottomhole pressures: Dakota is - +/- 2,100 psi

Surface casing and BOPE equipment will be tested to 1500 psi prior to drilling of the shoe. 3000# BOPE equipment will be utilized during production hole drilling operations.

14. The anticipated starting date is sometime in the 4th Qtr 2001 with duration of drilling operations for approximately 10 days thereafter. Completion Operations should take 10 days. Production Equipment will be installed and the well production tested based upon completion results.

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