

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-101
May 27, 2004

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit to appropriate District Office

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address APPROACH OPERATING, LLC 6300 RIDGLEA PLACE, SUITE 1107 FORT WORTH, TX 76116		² OGRID Number 248343
³ Property Code 36761	⁵ Property Name SENA	⁴ API Number 30-039-30386
⁹ Proposed Pool 1 WC 28N4E10-4		¹⁰ Proposed Pool 2

7 Surface Location

UL or lot no M	Section 10	Township 28N	Range 4E	Lot Idn G94	Feet from the 350	North/South line SOUTH	Feet from the 495	East/West line WEST	County RIO ARriba
-------------------	---------------	-----------------	-------------	----------------	----------------------	---------------------------	----------------------	------------------------	----------------------

8 Proposed Bottom Hole Location If Different From Surface

UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
--------------	---------	----------	-------	---------	---------------	------------------	---------------	----------------	--------

Additional Well Information

¹¹ Work Type Code N	¹² Well Type Code O	¹³ Cable/Rotary ROTARY	¹⁴ Lease Type Code P	¹⁵ Ground Level Elevation 7955 78' LSD
¹⁶ Multiple N	¹⁷ Proposed Depth 2000	¹⁸ Formation GRANEROS	¹⁹ Contractor BEARCAT DRLG CO	²⁰ Spud Date ASAP
Depth to Groundwater >100 FEET		Distance from nearest fresh water well >1000 FEET		Distance from nearest surface water >200 FEET - Nutrias Ditch No. 1
Pit: Liner: Synthetic <input checked="" type="checkbox"/> 6 mils thick Clay <input type="checkbox"/> Pit Volume: 4000 bbls Drilling Method: Closed-Loop System <input type="checkbox"/> Fresh Water <input type="checkbox"/> Brine <input type="checkbox"/> Diesel/Oil-based <input type="checkbox"/> Gas/Air <input checked="" type="checkbox"/>				

21 Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
12 1/4"	9 5/8"	32.3#	350'	210	SURFACE
8 3/4"	4 1/2"	10.5#	1700'	500	SURFACE

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

Propose to drill into the Graneros Sh. exploring for oil and/or gas in all formations encountered.

RCVD SEP 27 '07
OIL CONS. DIV.
DIST. 3

- (1) Shafco 11" Double Ram 3000# LWS
- (1) Grant 11" rotating head, 3000#
- (1) 5000# choke manifold
- (1) Koomey 3 station 3000# w/air/hydraulic pump
- (4) 10 gallon bottles

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCD guidelines ☐, a general permit ☒, or an (attached) alternative OCD-approved plan ☐.

Signature:

Printed name: Glenn W. Reed, P. E.

Title: Senior Vice-President of Operations

E-mail Address: gwreed@approachresources.com

Date: September 24, 2007

Phone (817) 989-9000

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date:

Expiration Date:

Conditions of Approval Attached ☐

OCT 03 2007-aw

8

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30039-30386	² Pool Code 97646	³ Pool Name WC28N4E10; Marcey oil
⁴ Property Code 36761	⁵ Property Name Sena	⁶ Well Number Sena #1
⁷ OGRID No. 248343	⁸ Operator Name Approach Operating LLC	Elevation 7955.78'

¹⁰ Surface Location

UL or lot no. M	Section **10	Township **28N	Range **04E	Lot Idn G94	Feet from the 350	North/South line SOUTH	Feet from the 495	East/West line WEST	County RIO ARRIBA
--------------------	-----------------	-------------------	----------------	----------------	----------------------	---------------------------	----------------------	------------------------	----------------------

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
---------------	---------	----------	-------	---------	---------------	------------------	---------------	----------------	--------

¹² Dedicated Acres 40	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
-------------------------------------	-------------------------------	----------------------------------	-------------------------

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.

****Projection within the Tierra Amarilla Land Grant**

¹⁶				¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature: <i>James S. Scott</i> Date: 9-26-2007 Printed Name: JAMES S. SCOTT
	SENA NO. 1			
	Latitude - 36°40'08.61650N Longitude - 106°30'27.29027W			
	New Mexico State Plane Coordinate System - Central Zone			
	x - 424,827.891 y - 2,063,805.360			¹⁸ 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 correct to the best of my belief. Date of Survey 19 September 2007 Signature and Seal of Professional Surveyor: <i>Gilberto Archuleta</i> Gilberto Archuleta No. 13976 Certificate Number

495' Sena #1
350'

Submit 3 Copies To Appropriate District
Office
District I
1625 N French Dr., Hobbs, NM 88240
District II
1301 W. Grand Ave., Artesia, NM 88210
District III
1000 Rio Brazos Rd., 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-103
May 27, 2004

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

WELL API NO. 30 - 039 - 30386
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name SENA
8. Well Number 1
9. OGRID Number 248343
10. Pool name or Wildcat WILDCAT

4. Well Location
Unit Letter _____: _____ 350 feet from the SOUTH line and 495 feet from the WEST line
Section 10 Township 28N Range 4E NMPM County RIO ARRIBA

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
7955.78' LSD

Pit or Below-grade Tank Application ☒ or Closure ☐

Pit type reserve Depth to Groundwater >100' Distance from nearest fresh water well >1000' Distance from nearest surface water >200' <1000'

Pit Liner Thickness: 6 mil Below-Grade Tank: Volume bbls; Construction Material

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐

OTHER: RESERVE PIT APPLICATION ☒

OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Propose to build blooie line/reserve pit in process of drilling exploration well for oil or gas

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☒ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE Glenn W. Reed TITLE Senior Vice President of Operations DATE Septemeber 24, 2007

Type or print name Glenn W. Reed, P. E. E-mail address: gwreed@approachresources.com Telephone No. (817) 989-9000

For State Use Only

APPROVED BY: [Signature] TITLE Deputy Oil & Gas Inspector, District #3 DATE OCT 03 2007

Conditions of Approval (if any):