

United States District Court
For the Northern District of California

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UNITED STATES DISTRICT COURT
NORTHERN DISTRICT OF CALIFORNIA
SAN JOSE DIVISION

CENTER FOR BIOLOGICAL DIVERSITY and)
SIERRA CLUB,)
)
Plaintiffs,)
)
v.)
)
THE BUREAU OF LAND MANAGEMENT)
and KEN SALAZAR, Secretary of the)
Department of Interior,)
)
Defendant.)

Case No.: C 11-06174 PSG
**ORDER RE CROSS-MOTIONS FOR
SUMMARY JUDGMENT**
(Re: Docket No. 28, 32)

Plaintiffs Center for Biological Diversity and Sierra Club bring their claims for declaratory and injunctive relief under the Administrative Procedure Act, 5 U.S.C. § 701-706. They challenge the decision of Defendants Bureau of Land Management (“BLM”) and Interior Secretary Ken Salazar to sell four oil and gas leases for approximately 2,700 acres of federal land in Monterey and Fresno counties. Plaintiffs now seek summary judgment that the leases were sold in violation of the National Environmental Policy Act and the Mineral Leasing Act of 1920. Defendants oppose the motion and seek a summary judgment of their own. The court has jurisdiction under 28 U.S.C. § 1331. On January 15, 2013, the parties appeared for hearing.

Having considered the evidence of record and the arguments of counsel, the court holds that the BLM violated NEPA in its environment assessment of the leases by unreasonably relying on an

1 earlier single-well development scenario. That scenario did not adequately consider the
2 development impact of hydraulic fracturing techniques popularly known as "fracking" when used
3 in combination with technologies such as horizontal drilling. Not only was the environment
4 assessment erroneous as a matter of law, the BLM's finding of no significant impact based on the
5 assessment and resulting decision not to prepare an environmental impact statement also was
6 erroneous as a matter of law. The court further holds that although the leases were issued in
7 violation of NEPA, the lease terms do not separately violate the MLA. Accordingly, the court
8 GRANTS-IN-PART and DENIES-IN-PART the parties' motions.
9

10 I. BACKGROUND

11 A. The Monterey Shale Formation and Hydraulic Fracturing

12 Central California's Monterey Shale Formation is a massive sedimentary rock formation
13 estimated to contain over 15 billion barrels of oil, equal to 64 percent of the nation's total shale oil
14 reserve, most of which is not retrievable through conventional drilling techniques.¹ Oil previously
15 produced from the formation was dubbed "easy" oil, because it was released from the shale into
16 other permeable formations and then pooled near the surface, where it could be extracted with
17 conventional drilling techniques.² What largely remains of the shale oil remains locked deep
18 within the impermeable shale itself, which is currently only economically accessible through
19 fracking.³
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21 Fracking is the artificial propagation of fractures in a rock layer by injecting large quantities
22 of water and fracturing fluids at high volume and pressure.⁴ This fractures the geological
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25 ¹ See AR 09230.

26 ² See *id.* at 02532.

27 ³ See *id.* at 09230.

28 ⁴ See *id.* at 09045.

1 formation, creating passages through which gas and liquids can flow and an overall increased
2 permeability.⁵ Fracking typically uses “slick water,” which is a mixture of water, sand, and a
3 cocktail of chemical ingredients with a number of purposes, including increasing viscosity of the
4 fluid and impeding bacterial growth or mineral deposition.⁶ Although fracking itself is not a new
5 technology, it did not become a feasible means of deep shale gas production until the late 2000s.⁷
6 Whereas before fracking only increased permeability in a limited zone radiating from the well
7 bore, more recently engineers have honed the fracking process by incorporating horizontal drilling,
8 multi-stage fracturing, slick-water, and improved equipment to allow the operator to fracture and
9 extract resources from a larger volume from a single well.⁸ Modern fracking involves drilling
10 vertically into shale formations up to hundreds of thousands of feet deep, and horizontally from
11 1000 to 6000 feet away from the well.⁹

12
13 The effect of fracking on the oil and gas economies has been tremendous. An April 2011
14 Congressional report notes that “[a]s a result of hydraulic fracturing and advances in horizontal
15 drilling technology, natural gas production in 2010 reached the highest level in decades.”¹⁰ In
16 some areas, the rate of drilling increased by more than an order of magnitude. For example, in the
17 Marcellus Shale, “[d]rilling companies were issued roughly 3,300 Marcellus gas-well permits in
18 Pennsylvania [in 2010], up from just 117 in 2007.”¹¹
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22 ⁵ See *id.* at 09033.

23 ⁶ See *id.* at 09038.

24 ⁷ See *id.* at 09229.

25 ⁸ See *id.* at 090229, 09033.

26 ⁹ See *id.* at 01038.

27 ¹⁰ See *id.* at 09044-45.

28 ¹¹ See *id.* at 09208.

1 Whatever one view's of the virtue and vices of fracking, it is undisputed that fracking's
2 potential – both good and bad – has not gone unnoticed. Advocates herald the technology as an
3 economic method to meet our nation's energy needs by extracting vast amounts of formerly
4 inaccessible hydrocarbon supplies.¹² Opponents, however, warn of devastating environmental
5 impacts, including contamination of ground water, deteriorating air quality, the flowbacks of gases
6 and slick water, and surface pollution from spills. The Congressional Committee on Energy and
7 Commerce launched an investigation to examine the chemicals used in hydraulic fracturing from
8 2005 to 2009 and identified 29 chemicals that are known or possible human carcinogens, regulated
9 under the Safe Drinking Water Act as risks to human health, or listed as hazardous air pollutants
10 under the Clean Air Act.¹³ In recent years, fracking has come under scrutiny in federal, state, and
11 local governments alike, with some states contemplating enacting, or having already enacted, laws
12 banning fracking altogether.¹⁴

14 **B. Resource Management Plan for the Hollister Field Office Area (June 2006)**

15 BLM manages federal onshore oil and gas resources subject to the requirements of the
16 MLA and the Federal Land Policy and Management Act (“FLPMA”).¹⁵ Under the FLPMA, BLM
17 is required to undergo a “three phase decision-making process” in granting access to public lands
18 for oil and gas development.¹⁶ In the first phase, BLM must prepare a Resource Management Plan
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24 ¹² *See id.* at 09045.

25 ¹³ *See id.* at 09044.

26 ¹⁴ *See id.* at 09302, 09306, 09314.

27 ¹⁵ 43 U.S.C. §§ 1701 *et seq.*

28 ¹⁶ *See Pennaco Energy, Inc. v. U.S. Dept. of Int.*, 377 F.3d 1147, 1151 (10th Cir. 2004).

1 (“RMP”) covering a general regional area.¹⁷ In the second phase, BLM leases specific parcels.¹⁸

2 In the third phase, lessees submit applications for drilling permits to BLM.¹⁹

3 In June 2006, BLM’s Hollister Field Office (“HFO”) prepared a Proposed Resource
4 Management Plan/Final Environmental Impact Statement (“PRMP/FEIS”) to govern management
5 of the Southern Mountain Diablo Range and Central Coast of California.²⁰ The PRMP/FEIS
6 outlined the HFO’s plan for managing the lands surveyed within the “planning area,” consisting of
7 approximately 274,000 acres of lands and 588,197 acres of “split estate”²¹ within twelve counties
8 in central California, including the leases at issue in this litigation.²²

9
10 The PRMP/FEIS included a Reasonably Foreseeable Development Scenario for Oil and
11 Gas (“RFD”) for the HFO area, which projected that no more than 15 wells would be drilled within
12 the next 15-20 years, based on a survey of past oil and gas activities within the boundaries of the
13 HFO and the very small amount of federal mineral estate within the areas of high development
14 potential.²³ The RFD analysis further concluded that “[t]his trend is not likely to change much,”
15 and as a result predicted 10 development wells to be drilled over the next 15 to 20 years across the
16 entire “planning area.”²⁴

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19 ¹⁷ See Pub. L. No. 94–579, 90 Stat. 2743 (1976); 43 U.S.C. §§ 1701 *et seq.* See also *Gardner v.*
20 *U.S. Bureau of Land Mgmt.*, 638 F.3d 1217, 1220 (9th Cir. 2011) (citing 43 C.F.R. § 1610.2). See
21 also AR 00003.

22 ¹⁸ See *id.*

23 ¹⁹ See *id.*

24 ²⁰ See AR 00001-00668.

25 ²¹ “Split estate” refers to the land in which the surface rights are owned by private owners, while
26 the subsurface mineral rights are owned by the United States and administered by the BLM. See
27 *id.* at 00176, 00987.

28 ²² See *id.* at 00028, 00032-33, 00850.

²³ See *id.* at 00468-75.

²⁴ See *id.*

1 HFO also analyzed the environmental impacts of proposed leasing in the HFO area.²⁵
 2 Specifically, the PRMP/EIS addressed potential impacts of oil and gas development on
 3 surrounding air quality, water resources, wildlife habitat, and special status species (including the
 4 California condor, Central Coast Steelhead, the blunt-nosed leopard lizard, and the San Joaquin Kit
 5 fox).²⁶

6 After publishing the report and receiving comments from the public, BLM adopted the
 7 PRMP/FEIS in September 2007 in its Record of Decision (“ROD”).²⁷ The ROD, based on the
 8 findings in the PRMP/FEIS, established certain management requirements for activities and
 9 projects expected to take place on the lands at issue, including mitigation requirements and oil and
 10 gas stipulations that would be applied to new leases issued.²⁸ These stipulations and conditions
 11 included measures to protect endangered, threatened, and other special status species, as well as
 12 water and air quality.²⁹

14 **C. Environmental Assessment (June 2011)**

15 Several years later, in response to expressions of interest from members of the oil and gas
 16 industry, BLM proposed a competitive oil and gas lease sale for approximately 35,000 acres in the
 17 HFO area.³⁰ In April 2011, BLM announced a decidedly scaled down proposed lease sale for
 18 approximately 2,700 acres and issued a corresponding draft Environmental Assessment (“EA”).³¹
 19 During the 36-day public comment period for the EA, BLM received comments from several
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21 ²⁵ *See id.* at 00001-668.

22 ²⁶ *See id.* at 00086-90, 00096-104, 00112-121, 00122-142, 00437, 00447, 00453-54, 00464.

23 ²⁷ *See id.* at 00670-73.

24 ²⁸ *See id.* at 00699-703, 00714-16, 00725-26, 00760-68.

25 ²⁹ *See id.*

26 ³⁰ *See id.* at 00824, 00990.

27 ³¹ *See id.* at 00844-952.

1 individuals, agencies, and organizations, including Sierra Club, Center for Biological Diversity,
 2 Monterey County, United States Fish and Wildlife Service Ventura Field Office, Ventana
 3 Conservation and Land Trust, Grassroots Coalition, and the National Resources Defense Council
 4 (NRDC).³² Many comments centered on the potential effects of fracking as well as climate
 5 change, but BLM noted “these issues are outside the scope of this EA because they are not under
 6 the authority or within the jurisdiction of the BLM.”³³ In June 2011, having considered and
 7 addressed the public comments it received, BLM issued its final EA.³⁴

8
 9 The final EA consists of a 125-page assessment of the proposed lease sale. After describing
 10 the purpose and need for the lease sale, the EA discussed environmental issues, including: (1) the
 11 oil and gas resources in the HFO area;³⁵ (2) air quality in the San Joaquin and North Central Coast
 12 Air Basins;³⁶ (3) water quality concerns, including the fact that none of the parcels proposed for
 13 sale contained any permanent surface waters;³⁷ and (4) special status species occurring or possibly
 14 occurring in the vicinity of the parcels proposed for sale.³⁸

15
 16 The EA evaluated the environmental impacts of three alternatives.³⁹ Under the first
 17 alternative, the proposed action, BLM would hold a competitive oil and gas lease sale for 2,605
 18 acres of federal mineral estate, including 360 acres of split estate.⁴⁰ Under the second alternative,

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 20 ³² *See id.* at 01080.

21 ³³ *See id.* at 01080-81.

22 ³⁴ *See id.* at 00953-1089.

23 ³⁵ *See id.* at 00992-94.

24 ³⁶ *See id.* at 00999-1006.

25 ³⁷ *See id.* at 01013-15.

26 ³⁸ *See id.* at 01015-29.

27 ³⁹ *See id.* at 00986.

28 ⁴⁰ *See id.* at 00987.

1 BLM would hold a lease sale at which it offered 6,401 acres of federal minerals for sale,
2 comprising the same acres as in first alternative plus an additional 3,796 acres of split-estate federal
3 minerals.⁴¹ The third alternative is a “no action” alternative, under which BLM would not offer
4 any of the proposed acres of federal mineral estate for sale.⁴²

5 Critically, the EA also provided a projection on the extent of drilling activity to be
6 conducted and the impact of such drilling activity.⁴³ BLM assumed that no more than one
7 exploratory well would be drilled in total on the land within the leases.⁴⁴ This assumption was
8 based on the RFD 2006 projection in the PRMP/FEIS, that 15-20 wells would be drilled across the
9 entirety of the HFO lands.⁴⁵ The EA noted that not a single well had been drilled on any HFO
10 lands in the five years since the issuance of the RFD.⁴⁶ At the same time, the noted that mineral
11 development has occurred in the general geographic area,⁴⁷ the great majority of which was
12 development of private mineral estates on privately-owned acres.⁴⁸ As the PRMP/FEIS explained,
13 most of the active oil and gas development had occurred almost completely within a 188,000 acre
14 “administrative field” area—and only 5,400 of these acres are federal mineral estate.⁴⁹ The EA
15 further indicated that while the lands considered in the EA are all within five miles of some of
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19 ⁴¹ *See id.*

20 ⁴² *See id.* at 00989.

21 ⁴³ *See id.* at 01044.

22 ⁴⁴ *See id.*

23 ⁴⁵ *See id.* at 00469.

24 ⁴⁶ *See id.* at 01044.

25 ⁴⁷ There are 30 active oil fields and gas fields totally or partially within the HFO geographic
26 management area.

27 ⁴⁸ *See id.* at 01044.

28 ⁴⁹ *See id.* at 00469.

1 these existing oil fields, and are classified as “high potential,” “virtually all of the lands that were
2 leased in the past also met the same criteria and yet were never developed.”⁵⁰

3 The EA did not discuss fracking in great detail beyond noting that it was “not relevant to
4 the analysis of impacts... because the reasonable foreseeable development scenario anticipates very
5 little (if any) disturbance to the human environment.”⁵¹ BLM reserved its analysis of the impacts
6 of fracking until applications for a permit to drill (“APD”) were submitted because as it saw it,
7 analyzing site-specific impacts would be more feasible.⁵²

8 The EA did, however, briefly discuss “existing credible scientific evidence” concerning
9 fracking.⁵³ The EA noted that the EPA studied the issue of fracking in 2004, predicting that by
10 2020 shale gas would comprise over 20% of the total U.S. gas supply.⁵⁴ The EA also quoted a
11 2010 U.S. House of Representatives Appropriation Conference Committee, which identified the
12 need for a focused study on the potential impact of fracking on “drinking water, human health, and
13 the environment.”⁵⁵ The EPA announced in March 2010 that it would study the potential impacts
14 of fracking on drinking water,⁵⁶ and that although so far there was no direct evidence of
15 contamination of drinking water due to fracking, there is potential risk for contamination because
16 fracking brings certain fluid chemicals and naturally occurring materials in the geologic formation
17 to the surface where it could mix with water sources.⁵⁷

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⁵⁰ *See id.* at 01044.

22 ⁵¹ *See id.* at 01036.

23 ⁵² *See id.* at 01037.

24 ⁵³ *See id.*

25 ⁵⁴ *See id.* at 01040.

26 ⁵⁵ *Id.*

27 ⁵⁶ *See id.*

28 ⁵⁷ *See id.* at 01039-40.

D. Finding of No Significant Impact (June 2011)

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2 Also on June 16, 2011, relying on the analysis contained within the EA, BLM's Acting
3 California State Director executed a Finding of No Significant Impact ("FONSI"), announcing his
4 determination that the proposed action would not result in any significant environmental impact
5 requiring further analysis under NEPA.⁵⁸ BLM analyzed the context and intensity of the proposed
6 action under the factors set forth in the Council on Environmental Quality's ("CEQ") criteria for
7 significance, but found that none of the factors warranted further NEPA review.⁵⁹ Following
8 issuance of the final EA and FONSI, BLM issued its final Decision Record ("Decision Record"),
9 documenting BLM's decision to offer for competitive oil and gas lease auction eight parcels
10 encompassing the 2,703 acres of federal mineral estate.⁶⁰ In the Decision Record, BLM again
11 emphasized that a further NEPA review would be conducted at the APD stage and "[a]lthough a
12 lessee generally has the right to develop a lease, BLM retains the authority to require proposals to
13 be relocated or redesigned in such a way as to protective sensitive resources."⁶¹

E. Protests Against the Sale

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16 Before the lease sale took place, environmental groups and nearby municipalities expressed
17 concern over the potential impacts of the lease sale. The lease areas within Monterey County are
18 part of the Salinas River watershed and "play an important role in recharging fresh water
19 aquifers."⁶² One lease is directly adjacent to the San Antonio Reservoir while another is near the
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24 ⁵⁸ *See id.* at 00959-63.

25 ⁵⁹ *See id.*; *see also* 40 C.F.R. § 1508.27.

26 ⁶⁰ *See* AR 00953-58, 07865.

27 ⁶¹ *See id.* at 00955.

28 ⁶² *See id.* at 01013.

1 Nacimiento Reservoir and Salinas River.⁶³ While the Fresno leases are not as close to sensitive
 2 water resources as the Monterey ones, BLM acknowledges that they are on largely “undeveloped
 3 lands with environmental resources important” to the region, including “[l]imited quantities of high
 4 quality water.”⁶⁴

5 The planning area of the lease sale is also a habitat for many species protected under the
 6 Endangered Species Act. Among those are the endangered San Joaquin kit fox, blunt-nosed
 7 leopard lizard, and California condor, and threatened South Central Coast steelhead.⁶⁵ BLM’s EA
 8 confirmed that leopard lizards have been spotted on the leased acres⁶⁶ and that all the leases in
 9 Monterey County are within the range of the California condor.⁶⁷

10
 11 Given the increasing applications of and the growing concerns over fracking’s impact on
 12 the environment, numerous groups, including Plaintiffs, as well as the Monterey County
 13 government itself, publicly protested the lease sale.⁶⁸ On July 22, 2011, the Monterey County sent
 14 BLM the following:

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 16 In our May 6, 2011 letter to the Bureau of Land Management, we expressed our
 17 concerns with deficiencies in the environmental review for the proposed
 18 Competitive Oil and Gas Lease Sale pending September 14, 2011. That letter
 19 expressed that Monterey County had not been consulted in the preparation of the
 20 EA, and that there were substantive deficiencies in the Environmental Assessment.⁶⁹

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 22 ⁶³ See *id.* at 08094.

23 ⁶⁴ See *id.* at 00980.

24 ⁶⁵ See *id.* at 01018, 01023, 07958.

25 ⁶⁶ See *id.* at 00934, 07996.

26 ⁶⁷ See *id.* at 01020.

27 ⁶⁸ See *id.* at 05961-06207, 06221-07494, 08021-23.

28 ⁶⁹ *Id.* at 08021.

1 In the letter, the Monterey County voiced its concerns on “the potential to induce seismic activity
2 and the lack of scientific study related to potential impacts to drinking water and groundwater.”⁷⁰
3 Moreover, “Monterey County [was] very concerned for the potential changes in Aesthetics and
4 Water Quality and [did] not believe that the EA provides sufficient protections for these
5 resources.”⁷¹

6 After the issuance of the Decision Record, Plaintiffs filed a protest of the lease sale,
7 asserting that BLM’s EA was inadequate and that a detailed environmental impact statement
8 (“EIS”) was required.⁷² On September 9, 2011, BLM issued a 16-page decision dismissing the
9 protest and providing its rationale for its decision.⁷³

11 **F. Lease Sales**

12 On September 14, 2011, BLM successfully auctioned leases in three parcels: a 2,343-acre
13 parcel in Monterey County, a 200-acre parcel in Fresno County, and a 40-acre parcel in Fresno
14 County.⁷⁴ On September 20, 2011, BLM sold the remaining 120-acre parcel in Monterey County
15 “over the counter.”⁷⁵ The four parcels, covering approximately 2,700 acres of land, were labeled
16 Parcel CA 9-11-1, Parcel CA 9-11-2, Parcel CA 9-11-3, and Parcel CA 3-114.⁷⁶ BLM issued all
17 four leases with its “standard” stipulations as well as three Special Stipulations.⁷⁷ All four parcels
18 contain Special Stipulation No. 1 (Endangered Species Stipulation) and Special Stipulation No. 2
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21 ⁷⁰ *Id.*

22 ⁷¹ *Id.*

23 ⁷² *See id.* at 07898.

24 ⁷³ *See id.* at 08062.

25 ⁷⁴ *See id.* at 08089.

26 ⁷⁵ *See id.* at 05542.

27 ⁷⁶ *See id.* at 03591-03600.

28 ⁷⁷ *See id.* at 09368-9404.

1 (Cultural Resource Stipulation).⁷⁸ Parcels CA 9-11-3 and CA 3-11-4 contain Stipulation No. 3, a
 2 “No Surface Occupancy” (“NSO”) stipulation, which precludes the lessee from using, or even
 3 occupying the surface of the leased land without additional specific authorization from BLM.⁷⁹
 4 Parcels CA 9-11-1 and CA 9-11-2 do not contain this stipulation.⁸⁰

5 II. LEGAL STANDARDS

6 Summary judgment under Rule 56(c) of the Federal Rules of Civil Procedure is appropriate
 7 where “there is no genuine issue as to any material fact and [] the moving party is entitled to
 8 judgment as a matter of law.” Where the district court is reviewing an agency determination under
 9 the Administrative Procedures Act (“APA”),⁸¹ the scope of the court’s review is “confined to the
 10 administrative record” and the court generally does not engage in fact finding.⁸² As there are no
 11 disputes of material fact, summary judgment is the appropriate vehicle for resolution of this case.
 12 The court must determine, based on the administrative record, whether BLM’s “decision was based
 13 on consideration of the relevant factors, or whether its actions were arbitrary, capricious, an abuse
 14 of discretion or otherwise not in accordance with the law.”⁸³

15 With the goal of “declar[ing] a national policy which will encourage productive and
 16 enjoyable harmony between man and his environment,” the National Environmental Policy Act
 17 (“NEPA”)⁸⁴ establishes two concrete mandates for federal agencies such as the BLM. First, it
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21 ⁷⁸ *See id.*

22 ⁷⁹ *See id.* at 09394, 09404.

23 ⁸⁰ *See id.* at 09368-75, 09380-84.

24 ⁸¹ 5 U.S.C. § 706.

25 ⁸² *Sierra Forest Legacy v. U.S. Forest Serv.*, 652 F. Supp. 2d 1065, 1074 (N.D. Cal. 2009).

26 ⁸³ *Blue Mountains Biodiversity Project v. Blackwood*, 161 F.3d 1208, 1211 (9th Cir. 1998) (internal
 27 quotation marks and citation omitted).

28 ⁸⁴ 42 U.S.C. §§ 4321 *et seq.*

1 places an obligation on federal agencies to take a “hard look” at “every significant aspect of the
2 environmental impact of a proposed action.”⁸⁵ Second, it requires the agency to inform the public
3 that it indeed has taken environmental considerations into account before taking action.⁸⁶ This is
4 accomplished by requiring federal agencies to prepare a detailed EIS for all proposals of major
5 federal actions “significantly affecting the quality of the human environment.”⁸⁷

6 The Mineral Leasing Act of 1920 (“MLA”)⁸⁸ allows BLM to grant leases for the
7 “economically sound and stable” development of federal mineral resources, including gas and oil,
8 on public or private lands where the federal government controls subsurface mineral estates.⁸⁹
9 Leases of this kind must follow the procedures set forth in the MLA and accompanying
10 regulations. Among other things, the MLA requires that “[a]ll leases of lands containing oil or
11 gas... shall be subject to the condition that the lessee will, in conducting his explorations and
12 mining operations, use all reasonable precautions to prevent waste of oil or gas developed in the
13 land.”⁹⁰

14 III. DISCUSSION

15 At the outset, the court must emphasize what lies before it, and what does not. What is
16 before it is the legal question of whether the BLM actions at issue in this case were “arbitrary,
17 capricious, an abuse of discretion, or otherwise not in accordance with the law.”⁹¹ What is not is
18 the policy question of whether fracking in the Monterey Shale or anywhere else is a good thing or a
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22 ⁸⁵ *Baltimore Gas & Elec. Co. v. Natural Res. Def. Council, Inc.*, 462 U.S. 87, 97 (1983).

23 ⁸⁶ *See id.*

24 ⁸⁷ 42 U.S.C. § 4332(C).

25 ⁸⁸ 30 U.S.C. §§ 181 *et seq.*

26 ⁸⁹ 30 U.S.C. § 21(a).

27 ⁹⁰ 30 U.S.C. § 225.

28 ⁹¹ 5 U.S.C. § 706.

1 bad thing. At all times in its review of the pending motions, the court bears in mind that it is the
 2 BLM that is the recognized expert in this field, not the court. At the same time, while this review
 3 is deferential to the agency’s recognized expertise in the field, the court must not “rubber-stamp”
 4 agency decisions.⁹² Instead, the court must ensure that the agency has taken a “hard look” at the
 5 environmental consequences, “carefully reviewing the record to ascertain whether the agency
 6 decision is founded on a reasoned evaluation of the relevant factors.”⁹³

7
 8 **A. National Environmental Policy Act**

9 Plaintiffs' first challenge to the disputed leases focuses on BLM’s obligations under NEPA.
 10 BLM argues that its obligation to conduct NEPA analysis had not yet accrued, and even if it did, it
 11 satisfied this obligation by conducting an EA and finding the proposed action carried no significant
 12 environmental impact requiring a full EIS.

13 **1) BLM Was Required To Conduct A NEPA Analysis for the Non-NSO Leases**

14 As a preliminary matter, BLM argues that at least for two of the parcels, the need for
 15 preparing any NEPA analysis at all had not ripened. The federal regulations explicitly require that
 16 review under the NEPA process be timely.⁹⁴ Agencies are required to conduct this review at the
 17 “earliest possible time” to allow for proper consideration of environmental values and “head off
 18 potential conflicts.”⁹⁵ This ensures that the statement can make an “important contribution to the
 19 decisionmaking process” and will not merely be used to justify a decision that has already been
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 24 ⁹² *Ocean Advocates v. U.S. Army Corps of Engineers*, 402 F.3d 846, 859 (9th Cir. 2005).

25 ⁹³ *Wetlands Action Network v. U.S. Army Corps of Engineers*, 222 F.3d 1105, 1115 (9th Cir. 2000)
 (abrogated on other grounds by *Wilderness Soc. v. U.S. Forest Serv.*, 630 F.3d 1173 (9th Cir.
 26 2011)).

27 ⁹⁴ *See Pit River Tribe v. U.S. Forest Serv.*, 469 F.3d 768, 785 (9th Cir. 2006).

28 ⁹⁵ 40 C.F.R. § 1501.2.

1 made.⁹⁶ A review should be prepared at a time when the decisionmakers “retain a maximum range
2 of options.”⁹⁷ Interpreting the relevant statutory language, the Ninth Circuit has ruled that the
3 obligation to produce a review arises when there is any “irreversible and irretrievable commitments
4 of resources.”⁹⁸

5 A BLM-issued lease for oil and gas gives the lessee the right to drill and produce, subject to
6 the terms of the agreement. Any plan for drilling must be submitted through the Application for
7 Permit to Drill (“APD”) process. Regulation of the APD process is outlined in 43 CFR § 3101.1-2,
8 which defines what reasonable measures BLM can require. These include relocating the proposed
9 drilling up to 200 meters, delaying surface disturbance or drilling up to 60 days, or requiring
10 special reclamation measures. But generally, “the BLM cannot deny a lessee the right to drill once
11 a lease is issued unless the action is in direct conflict with another existing law.”⁹⁹

12 In *Conner v. Burford*, the Ninth Circuit addressed exactly the type of BLM leases at issue
13 here – leases with No Surface Occupancy provisions (“NSO leases”) and all other leases, termed
14 “non-NSO leases.” The court found that the NSO leases absolutely prohibited any surface
15 disturbing activities and were more akin to a right of refusal than an actual lease for drilling. The
16 NSO leases therefore did not constitute an “irretrievable commitment of resources.”¹⁰⁰ Alteration
17 of the NSO lease provision, however, would constitute such a commitment requiring preparation of
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⁹⁶ 40 C.F.R. § 1502.5.

23 ⁹⁷ *Conner v. Burford*, 848 F.2d 1441, 1446 (9th Cir. 1988) (citing 42 U.S.C. § 4332(C)(v) which
24 requires an EIS to include a statement of “any irreversible and irretrievable commitments of
25 resources which would be involved in the proposed action should it be implemented.”).

26 ⁹⁸ *Id.* at 1446.

27 ⁹⁹ AR 00977.

28 ¹⁰⁰ *Conner*, 848 F.2d at 1447-48.

1 an EIS.¹⁰¹ By contrast, non-NSO leases, even if subject to substantial government regulation, do
2 constitute an “irretrievable commitment of resources.”¹⁰² As a result, unless the lease reserves to
3 the agencies an “absolute right to deny exploitation of those resources,” the sale of the non-NSO
4 leases at step two constitutes the go or no-go point where NEPA analysis becomes necessary.¹⁰³

5 Of the leases sold by BLM, two are clearly and properly categorized as NSO leases,
6 containing a provision preventing any surface-disturbing activities. Under *Conner*, these were
7 merely rights of first refusal and did not result in an “irretrievable commitment of resources.”
8 Regarding these two leases, no obligation to conduct NEPA analysis arose at this time.
9

10 The two other parcels do not contain NSO provisions. The BLM points out that these
11 leases do contain other provisions, including Stipulation No. 1, that allow BLM to deny all surface
12 disturbing activities if threatened and endangered species (“T&E species”) are found on the lands
13 during inventories, unless a lawful alternative is submitted.¹⁰⁴ But although BLM correctly argues
14 these provisions reserve it significant regulatory power, the provisions are simply not equivalent to
15 the NSO provisions addressed in *Conner*. In particular, although BLM retains authority to enforce
16 existing laws to protect T&E species, BLM does not retain absolute authority to preclude any
17 surface disturbing activities that do not protect T&E species. As Plaintiffs correctly point out, if
18 NEPA analysis is postponed to the APD stage, and BLM finds that drilling will severely impact
19 water, air, or other non-endangered wildlife species, Stipulation No. 1 will not allow BLM to deny
20 drilling rights based on those impacts. BLM may have some ability to require mitigation or
21 relocation of the activity, but it will not be able to unilaterally deny the permit. While a footnote in
22 *Conner* notes that even NSO leases may nevertheless permit certain access to oil and gas reserves
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25 ¹⁰¹ *See id.*

26 ¹⁰² *Id.* at 1448-49.

27 ¹⁰³ *Pit River Tribe*, 469 F.3d at 782-83.

28 ¹⁰⁴ AR 09383.

1 through directional drilling or well spacing, *Conner* is clear that the hallmark of a non-NSO lease
 2 that triggers NEPA review is, as here, BLM's lack of authority to unilaterally deny the permit based
 3 on any surface activity whatsoever. The sale of a non-NSO oil or gas lease therefore constitutes the
 4 “point of commitment” because the government no longer has the absolute ability to prohibit
 5 potentially significant impact on the surface environment. BLM's own decision to undertake an
 6 EA and FONSI does little to undermine the conclusion that it triggered an obligation to conduct a
 7 NEPA analysis when it issued the non-NSO leases. In sum, because BLM will no longer hold the
 8 full range of options for dealing with surface activities after selling the non-NSO leases, BLM was
 9 required to conduct a thorough NEPA analysis to determine whether the sale would have a
 10 substantial environmental impact.

11
 12 **2) BLM Unreasonably Concluded That The Leases Would Have No “Significant
 13 Environmental Impact”**

14 As the time for NEPA analysis was triggered by the proposal for the sale of the two non-
 15 NSO leases, BLM had to analyze whether the proposal might have significant environmental
 16 impact. BLM contends that its EA and FONSI established convincing reasons that there would be
 17 no such impact.

18 “Some proposed federal actions categorically require the preparation of an EIS. If the
 19 proposed action does not categorically require the preparation of an EIS, the agency must prepare
 20 an EA to determine whether the action will have a significant effect on the environment.”¹⁰⁵ “If the
 21 agency finds based on a less formal and less rigorous ‘environmental assessment’ that the proposed
 22 actions will not significantly affect the environment, the agency can issue a finding of No
 23 Significant Impact (“FONSI”) in lieu of the EIS.”¹⁰⁶ The FONSI must contain a “convincing
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 27 ¹⁰⁵ *Kern v. United States Bureau of Land Mgmt.*, 284 F.3d 1062, 1067 (9th Cir. 2002).

28 ¹⁰⁶ *Conner*, 848 F.2d at 1446 (citing 40 C.F.R. § 1508.13).

1 statement of reasons” why the project’s impacts are insignificant.¹⁰⁷ “The statement of reasons is
 2 crucial to determining whether the agency took a ‘hard look’ at the potential environmental impact
 3 of a project.”¹⁰⁸ Standing together, the FONSI and EA must be “sufficient to establish the
 4 reasonableness of th[e] decision not to prepare an EIS.”¹⁰⁹ As the court has already noted, although
 5 BLM’s factual analysis in its area of expertise should be approached with substantial deference, the
 6 court must nevertheless evaluate whether these factual determinations, and the underlying logic,
 7 were premised on reasonable assumptions.¹¹⁰ Conversely, to prevail on a claim that the agency
 8 violated its statutory duty to prepare an EIS, a plaintiff need not show that significant effects will in
 9 fact occur. It is enough for the plaintiff to raise substantial questions whether a project may have a
 10 significant effect on the environment.”¹¹¹

12 In evaluating the significance of the impact of the proposed action, the agency must
 13 consider both the context of the action as well as the intensity.¹¹² “Context ... delimits the scope of
 14 the agency's action, including the interests affected.”¹¹³ “[T]he significance of an action must be
 15 analyzed in several contexts such as society as a whole (human, national), the affected region, the
 16 affected interests, and the locality.”¹¹⁴ For site-specific actions, significance usually depends on

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 19 ¹⁰⁷ 40 C.F.R. § 1501.4; *Blue Mountains Biodiversity Project*, 161 F.3d at 1211.

20 ¹⁰⁸ *Blue Mountains Biodiversity Project*, 161 F.3d at 1212 (internal quotation marks and citation
 21 omitted).

22 ¹⁰⁹ *Ctr. for Biological Diversity v. Nat'l Highway Traffic Safety Admin.*, 538 F.3d 1172, 1215 (9th
 23 Cir. 2008) (internal quotations omitted).

24 ¹¹⁰ *Cf. Ocean Advocates*, 402 F.3d at 859 (arbitrary and capricious standard involves evaluation of
 25 whether agency “articulated a rational connection between the facts found and the choice made”).

26 ¹¹¹ *Id.*

27 ¹¹² 40 C.F.R. § 1508.27.

28 ¹¹³ *Ctr. for Biological Diversity*, 538 F.3d at 1185.

¹¹⁴ 40 C.F.R. § 1508.27.

1 the impact of the action on the locale rather than the world as whole.¹¹⁵ The undisputed locale here
 2 was the area surrounding the leases in Monterey and Fresno counties.

3 Intensity is determined by scrutinizing ten factors, as described in 40 C.F.R. § 1508.27:

4 (1) Impacts that may be both beneficial and adverse. A significant effect may exist even
 5 if the Federal agency believes that on balance the effect will be beneficial.

6 (2) The degree to which the proposed action affects public health or safety.

7 (3) Unique characteristics of the geographic area such as proximity to historic or
 8 cultural resources, park lands, prime farmlands, wetlands, wild and scenic rivers, or
 9 ecologically critical areas.

10 (4) The degree to which the effects on the quality of the human environment are likely
 11 to be highly controversial.

12 (5) The degree to which the possible effects on the human environment are highly
 13 uncertain or involve unique or unknown risks.

14 (6) The degree to which the action may establish a precedent for future actions with
 15 significant effects or represents a decision in principle about a future consideration.

16 (7) Whether the action is related to other actions with individually insignificant but
 17 cumulatively significant impacts. Significance exists if it is reasonable to anticipate a
 18 cumulatively significant impact on the environment. Significance cannot be avoided by
 19 terming an action temporary or by breaking it down into small component parts.

20 (8) The degree to which the action may adversely affect districts, sites, highways,
 21 structures, or objects listed in or eligible for listing in the National Register of Historic
 22 Places or may cause loss or destruction of significant scientific, cultural, or historical
 23 resources.

24 (9) The degree to which the action may adversely affect an endangered or threatened
 25 species or its habitat that has been determined to be critical under the Endangered
 26 Species Act of 1973.

27 (10) Whether the action threatens a violation of Federal, State, or local law or
 28 requirements imposed for the protection of the environment.

The presence of any one of these factors may be sufficient to require an EIS.¹¹⁶

NEPA requires that BLM evaluate all reasonably foreseeable environmental effects of its
 actions.¹¹⁷ These include both direct effects, caused by the action and occurring at the same time
 and place, and indirect effects, which are caused by the action and are either later in time or farther

¹¹⁵ *See id.*

¹¹⁶ *See Ocean Advocates*, 402 F.3d at 865; *Barnes v. U.S. Dept. of Transp.*, 655 F.3d 1124, 1140 (9th Cir. 2011); *Nat'l Parks & Conservation Ass'n v. Babbitt*, 241 F.3d 722, 731 (9th Cir. 2001) (disapproved on other grounds).

¹¹⁷ *See Metropolitan Edison Co. v. People Against Nuclear Energy*, 460 U.S. 766, 772 (1983).

1 removed in distance, “but are still reasonably foreseeable.”¹¹⁸ The test of whether an effect is
2 reasonably foreseeable is measured similarly to that of tort law’s proximate cause doctrine –
3 whether there is a “reasonably close causal relationship” between the agency’s action and the
4 environmental effect.¹¹⁹

5 Here, BLM based its analysis of the lease sale on the projection that only one well would be
6 drilled across the four parcels to be leased.¹²⁰ BLM came to this conclusion by observing that in
7 the last 20 years, none of the lease sales in the HFO boundary have had any production wells
8 drilled on them. BLM did note, however, that the lands were considered “high potential” and oil
9 prices are now “significantly higher” now than in the past, so more drilling might occur. BLM
10 expressed doubt that exploratory wells would yield oil. Based on this data, BLM concluded that
11 only one exploratory well would result from the leased area.¹²¹

12 While BLM argues that this conclusion borne out of past data was reasonable, logically this
13 projection fails to take into account all “reasonably foreseeable” possibilities as required by NEPA.
14 BLM plainly limits its analysis to one scenario – a lessee drills an exploratory well, no oil is found,
15 and the lessee halts all further exploration. While this may have been reasonable in the past, the
16 record before the agency teaches that it was not reasonable by the time the non-NSO leases were
17 issued. Even BLM itself has acknowledged that fracking activity in the United States has increased
18 dramatically in recent years.¹²² But rather than engaging in this reality by at least considering what
19 impact might result from fracking on the leased lands, whatever its ultimate conclusion, BLM
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23 _____
24 ¹¹⁸ 40 C.F.R. § 1508.8.

25 ¹¹⁹ See *Metropolitan Edison Co.*, 460 U.S. at 774.

26 ¹²⁰ AR 01044 (“we would expect no more than one well total on all of these parcels.”).

27 ¹²¹ *Id.* at 01046.

28 ¹²² See *id.* at 01038.

1 chose simply to ignore it, asserting that “these issues are outside the scope of this EA because they
 2 are not under the authority or within the jurisdiction of the BLM.”¹²³ If nothing else, it is unclear
 3 exactly how the issue of the environmental impact of fracking could lie outside BLM's
 4 "jurisdiction" when NEPA plainly assigns all studying all environmental impacts of its own
 5 decision to BLM. Put another way, if not within BLM's jurisdiction, then whose?

6 Even so, the precedent of this Circuit makes clear that BLM was unreasonable in
 7 categorically refusing to consider an effect that bears "reasonably close causal relationship" to the
 8 action at issue.¹²⁴ Past might turn out to be prologue in that future development will track the
 9 limited development to date. But evidence within its own EA shows another possibility that at
 10 least bears the minimum "necessary close causal relationship" sufficient to trigger consideration in
 11 the Ninth Circuit. This evidence shows that in just the past few years fracking has been combined
 12 with horizontal drilling and other modern technologies to provide access to previously unattainable
 13 shale oil such as that in the four parcels of Monterey shale at issue. According to the House Report
 14 referenced by the EA, the combination of fracking and horizontal drilling has resulted in a spike in
 15 natural gas production in the U.S. of 21,577 billion cubic feet in 2010, a level of production not
 16 achieved since the 1970s.¹²⁵ BLM also noted the EPA's study predicting that by 2020 shale gas

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 21 ¹²³ See *id.* at 01080-81.

22 ¹²⁴ *Ocean Advocates*, 402 F.3d at 867-68; see also *Metropolitan Edison Co.*, 460 U.S. at 773
 23 (holding that to determine whether NEPA requires an agency to consider a particular effect, courts
 24 must “look at the relationship between that effect and the change in the physical environment
 25 caused by the major federal action at issue.”). Cf. *San Luis Obispo Mothers for Peace v. Nuclear
 26 Regulatory Comm'n*, 449 F.3d 1016, 1035 (9th Cir. 2006). BLM suggests that *San Luis Obispo*
 27 was limited to its particular circumstances, in which the court held that that it was unreasonable for
 28 the Nuclear Regulatory Commission to categorically refuse to consider terrorist attacks in
 reviewing an application for proposed interim spent fuel storage installation. But nothing in the
 case law since *San Luis Obispo* suggests such a limited application of its standard. See *Ctr. for
 Biological Diversity*, 538 F.3d at 1179. Even economic effects may be relevant “when they are
 ‘interrelated’ with ‘natural or physical environmental effects.’” *Geertson Seed Farms v. Johanns*,
 Case No. 06-01075 CRB, 2007 WL 518624, at *7 (N.D. Cal. Feb. 13, 2007) (citations omitted).

¹²⁵ See AR 09045.

1 would comprise over 20% of the total U.S. gas supply.¹²⁶ Certainly there was significant increased
 2 interest in oil and gas drilling in the Monterey shale, which is what led to the 2012 sale. Based on
 3 the evidence BLM itself observed, it was not reasonable for BLM to consider only a single
 4 exploratory well scenario solely based on past data.¹²⁷ This “cursory and inconsistent treatment”
 5 was arbitrary and capricious.¹²⁸

6 BLM also asserts that because the EA was tiered to the regional management plan for the
 7 general area encompassing the lease sale, no specific EIS for the leases was necessary. “Tiering, or
 8 avoiding detailed discussion by referring to another document containing the required discussion,
 9 is expressly permitted.”¹²⁹ “A comprehensive programmatic impact statement generally obviates
 10 the need for a subsequent site-specific or project-specific impact statement, unless new and
 11 significant environmental impacts arise that were not previously considered.”¹³⁰ But here, the
 12 emergence of fracking raises potential concerns that were not considered by the 2006 PRMP/FEIS.
 13 In fact, the PRMP/FEIS makes no explicit mention of fracking at all. BLM suggests in its papers
 14 that the PRMP/FEIS somehow implicitly considered fracking in its RFD projection of how many
 15 wells would be drilled on BLM lands, as fracking has been used in California for at least thirty
 16 years. BLM's own statements, however, that it lacked “jurisdiction” to consider the fracking that
 17 has emerged today certainly suggests that even BLM did not believe this was true. Even if it were
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21 ¹²⁶ *See id.* at 00908.

22 ¹²⁷ *Cf. Greater Yellowstone Coal., Inc. v. Servheen*, 665 F.3d 1015, 1026-27 (9th Cir. 2011)
 23 (applying the arbitrary and capricious standard for purposes of the Administrative Procedures Act
 24 and the Environmental Protection Act, the court found that it was not rational for the agency to rely
 25 on past data from before the “epidemic of mountain pine beetles” to predict future trends of the
 grizzly population).

26 ¹²⁸ *Blue Mountains Biodiversity Project*, 161 F.3d at 1213-14.

27 ¹²⁹ *Kern*, 284 F.3d at 1073 (citing 40 C.F.R. § 1502.20).

28 ¹³⁰ *Salmon River Concerned Citizens v. Robertson*, 32 F.3d 1346, 1356 (9th Cir. 1994).

1 true, that analysis is inadequate. The evidence before BLM showed that the scale of fracking in
2 shale-area drilling today involves risks and concerns that were not addressed by the PRMP/FEIS’
3 general analysis of oil and drilling development in the area.¹³¹ Because the PRMP/FEIS does not
4 address these concerns that are specific to these “new and significant environmental impacts,”
5 further environmental analysis was necessary.¹³²

6 BLM finally argues that at this stage, the exact scope and extent of drilling that will involve
7 fracking is unknown, so NEPA analysis, if any, should be conducted when there is a site-specific
8 proposal. But “the basic thrust” of NEPA is to require that agencies consider the range of possible
9 environmental effects before resources are committed and the effects are fully known.¹³³
10 “Reasonable forecasting and speculation is thus implicit in NEPA, and we must reject any attempt
11 by agencies to shirk their responsibilities under NEPA by labeling any and all discussion of future
12 environmental effects as ‘crystal ball inquiry.’”¹³⁴

13
14 On this record, it was unreasonable for BLM not to at least consider reasonable projections
15 of drilling in the area that include fracking operations, or else limit its sale to leases with NSO
16 provisions that would permit it to prohibit all surface disturbances until more specific information
17 becomes available.
18

19 This unreasonable lack of consideration of how fracking could impact development of the
20 disputed parcels went on to unreasonably distort BLM's assessment of at least three of the
21 "intensity" factors in its FONSI. First, BLM erroneously held that the leases were not highly
22 controversial. A proposal is highly controversial when “substantial questions are raised as to
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25 ¹³¹ See AR 00001-00668.

26 ¹³² *Salmon River Concerned Citizens*, 32 F.3d at 1356.

27 ¹³³ *City of Davis v. Coleman*, 521 F.2d 661, 676 (9th Cir. 1975).

28 ¹³⁴ *Id.* See also *N. Plains Res. Council v. Surface Transp. Bd.*, 668 F.3d 1067, 1079 (9th Cir. 2011).

1 whether a project... may cause significant degradation” of a resource.¹³⁵ A substantial dispute may
 2 concern the “size, nature, or effect” of the action.¹³⁶ If evidence is raised prior to the preparation of
 3 the FONSI that “casts serious doubt upon the reasonableness of an agency’s conclusions,” then the
 4 burden shifts to the agency to demonstrate why those responses “do not create a public
 5 controversy.”¹³⁷

6 There was clearly a controversy here regarding the nature of the drilling to occur on the
 7 leases and the potential impacts drilling would impose on the nearby communities. Monterey
 8 County objected strenuously to the lease sale, citing its water agency’s opinion that fracking would
 9 put municipal water supplies at risk. Many environmental groups and concerned citizens residing
 10 in nearby communities also protested the lease sale on the basis of fracking’s potential threats to
 11 public health and safety. Although mere opposition to the project does not in itself create a
 12 controversy, “the volume of comments from and the serious concerns raised by federal and state
 13 agencies specifically charged with protecting the environment [may] support a finding that an EIS”
 14 is necessary.¹³⁸ BLM did not acknowledge these concerns, stating only that “[n]o anticipated
 15 effects have been identified that are scientifically controversial.”¹³⁹

16 In response, BLM asserts the now-familiar argument that there is no controversy because
 17 any degradation of the local environment from fracking should be discussed, if ever, when there is
 18 a site-specific proposal. But the Ninth Circuit has specifically disapproved of this as a reason for
 19 holding off on preparing an EIS, holding that “[t]he government’s inability to fully ascertain the
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 24 ¹³⁵ *Nw. Env'tl. Def. Ctr. v. Bonneville Power Admin.*, 117 F.3d 1520, 1536 (9th Cir. 1997).

25 ¹³⁶ *Blue Mountains Biodiversity Project*, 161 F.3d at 1212.

26 ¹³⁷ *Nat'l Parks & Conservation Ass'n*, 241 F.3d at 736.

27 ¹³⁸ *California v. U.S. Dept. of Transp.*, 260 F. Supp. 2d 969, 973 (N.D. Cal. 2003).

28 ¹³⁹ AR 00961.

1 precise extent of the effects of [the activity] is not, however, a justification for failing to estimate
2 what those effects might be before irrevocably committing to the activity.”¹⁴⁰

3 Second, BLM erroneously analyzed the potential effect of the leases on public health and
4 safety. Although Plaintiffs argue a variety risks to public health and safety from fracking on the
5 leased lands, including air quality, oil spills, water contamination, and water shortages, the court
6 finds the risk of water pollution to be the most compelling and the most supported by the record.
7 Certain parcels included in the lease sale are located in close proximity to San Antonio Reservoir,
8 an important water resource for the Salinas Valley. The lease areas are also a part of the Salinas
9 River watershed, which “play[s] an important role in recharging fresh aquifers.”¹⁴¹ These
10 freshwater sources supply water for nearby communities and agriculture.¹⁴² As noted above,
11 Monterey County raised concerns about potential contamination.

12 The potential risk for contamination from fracking, while unknown, is not so remote or
13 speculative to be completely ignored. Although BLM notes in its EA that “[t]o date, there is no
14 direct evidence that communities where hydraulic fracturing has been allowed have had any issues
15 with contamination of drinking water,” this treatment is insufficient in light of the EA’s own
16 observations of the potential dangers of contamination. The EA referenced studies by the U.S.
17 House and the EPA noting that fracking has potential risks of contaminating nearby water supplies
18 with harmful chemicals. Fracking liquid contains chemicals that are known to be possible
19 carcinogens, possible human health risks, or hazardous air pollutants.¹⁴³ These risks, combined
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23 ¹⁴⁰ *Conner*, 848 F.2d at 1450. *See also N. Alaska Env’tl. Ctr. v. Kempthorne*, 457 F.3d 969, 974
24 (9th Cir. 2006) (holding that regarding a BLM sale of non-NSO leases, preparation of an EIS was
25 “undeniably required” and should assess the general impact of drilling on the environment even
while rejecting plaintiffs’ arguments that the EIS should have contained more site-specific
analysis).

26 ¹⁴¹ AR 01013.

27 ¹⁴² *See id.* at 00126-130, 01013, 01034.

28 ¹⁴³ *See id.* at 09044.

1 with the parcels' proximity to certain important water resources, should have been properly
2 considered.

3 Third, BLM erroneously discounted the uncertainty from fracking that may be resolved by
4 further data collection. "Preparation [of an EIS] is mandated where uncertainty may be resolved by
5 further collection of data, or where collection of such data may prevent speculation on potential
6 effects."¹⁴⁴ The FONSI addressed only potential impacts on protected wildlife and plant species,
7 noting that the parcels were similar to other parcels in HFO, and the same lease stipulations were
8 shown to be effective in minimizing impact.¹⁴⁵ But as acknowledged in the data BLM itself
9 presented, fracking may pose risks to water used for municipalities and agriculture. BLM never
10 collected any data particular to the region affected by the leases, instead opting to summarize
11 general data about fracking (much of it raising substantial concerns about the impact of fracking)
12 before dismissing the issue as outside of its jurisdiction.¹⁴⁶

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14 Ultimately, BLM argues that the effects of fracking on the parcels at issue are largely
15 unknown. The court agrees. But this is precisely why proper investigation was so crucial in this
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20 ¹⁴⁴ *Native Ecosystems Council v. U.S. Forest Serv.*, 428 F.3d 1233, 1240 (9th Cir. 2005) (internal
21 quotations omitted).

22 ¹⁴⁵ See AR 00962.

23 ¹⁴⁶ Plaintiffs also argue that the proposed action may adversely affect an endangered or threatened
24 species or its habitat. While it is true that the area in question serves as a habitat for several
25 identified endangered species, such as the California condor, blunt-nosed leopard lizard, South
26 Central Coast steelhead, and the San Joaquin kit fox, the RMP/FEIS and the EA both addressed
27 mitigation of oil drilling activity to aid preservation of these species. The record is unclear as to
28 whether potential fracking operations would pose unique threats to impact endangered or
threatened species not considered by the RMP/FEIS. Nevertheless, BLM implemented stipulations
that would adequately protect these species even with these unknowns. Stipulation No. 1 reserves
to BLM all rights to regulate, require relocation, and even deny projects based on the presence of
T&E species. Unlike the other concerns raised by Plaintiffs, the preservation of T&E species was
properly addressed by the lease terms.

1 case. BLM's dismissal of any development scenario involving fracking as "outside of its
2 jurisdiction"¹⁴⁷ simply did not provide the "hard look" at the issue that NEPA requires.

3 **3) Remedy**

4 "[C]ourts have discretion to formulate equitable relief to remedy a NEPA violation"¹⁴⁸ and
5 should aim to "approximate what would have happened had the agencies used the proper
6 procedures" at the time of the lease sale.¹⁴⁹ Possible avenues of relief include enjoining further
7 surface-disturbing activity pending EIS analysis, or invalidating the improperly-granted leases.¹⁵⁰
8 Although Plaintiffs request that the court invalidate the lease sale, they provide no authority
9 establishing the court's authority to do so while the lessees stand absent from this suit. Moreover,
10 the parties have not provided briefing as to which remedy would be more appropriate in this case,
11 leaving the court to guess as to the equitable concerns at play here.¹⁵¹ Rather than guess at the right
12 at the appropriate remedy, the court instead orders the parties to meet and confer and submit an
13 appropriate judgment on or before April 15, 2013.

14 **B. Mineral Leasing Act**

15 As a separate matter, Plaintiffs also argue that the lease sale was flawed because BLM
16 violated the substantive provisions of the MLA. The MLA provides the following:

17 *All leases of lands containing oil or gas, made or issued under the provisions of this chapter,*
18 *shall be subject to the condition that the lessee will, in conducting his explorations and*
19 *mining operations, use all reasonable precautions to prevent waste of oil or gas developed*
20 *in the land, or the entrance of water through wells drilled by him to the oil sands or oil-*
21 *bearing strata, to the destruction or injury of the oil deposits.*¹⁵²

22 _____
23 ¹⁴⁷ See AR 01080-81.

24 ¹⁴⁸ *Pit River Tribe v. U.S. Forest Serv.*, 615 F.3d 1069, 1084 (9th Cir. 2010).

25 ¹⁴⁹ See *id.* at 1081.

26 ¹⁵⁰ See *id.*

27 ¹⁵¹ See *id.* at 1080-81 (noting that relief for a NEPA violation is subject to traditional equitable
28 principles).

¹⁵² 30 U.S.C. § 225 (emphasis added).

1 BLM has satisfied this requirement by providing in its leases terms that require the lessee to
 2 conduct operations and employ “reasonable precautions” to prevent waste:

3 Sec. 4. Diligence, rate of development, unitization, and drainage – Lessee must exercise
 4 *reasonable diligence* in developing and producing, and must *prevent unnecessary damage*
 5 *to, loss of, or waste of leased resources*.

6 Sec. 6. Conduct of operations – Lessee must conduct operations in a manner that *minimizes*
 7 *adverse impacts to the land, air, and water, to cultural biological visual, and other*
 8 *resources*, and to other land uses or users. Lessee must take *reasonable measures* deemed
 9 necessary by lessor to accomplish the intent of this section. To the extent consistent with
 lease rights granted, such measures may include, but are not limited to, modification to
 siting or design of facilities, timing of operations, and specification of interim and final
 reclamation measures...¹⁵³

10 These lease terms included in all four of the leases at issue are substantially similar to the MLA
 11 language and act to require the lessee to use reasonable measures in her activities to prevent waste
 12 of resources.

13 Plaintiffs nevertheless assert that BLM violated the MLA “by failing to ensure via lease
 14 terms that lessees take all reasonable precautions to prevent emissions of natural gas.”¹⁵⁴

15 Plaintiffs’ argument appears to be that BLM should have incorporated specific lease terms
 16 requiring lessees to take specific actions to minimize waste. For example, BLM could have
 17 required lessees to regularly replace packing rings and piston rods, requiring state-of-the-art rod-
 18 packing technology, and replacing wet seals used on compressors with dry seals.¹⁵⁵

19 Although these technologies may certainly prevent waste and may be economically viable,
 20 as Plaintiffs suggest, the MLA cannot be read to impose a mandate for BLM to require lessees to
 21 employ certain technologies. The plain language of the MLA requires that “all leases” shall be
 22 “subject to the condition” outlined in the lease language. Put another way, the MLA requires that
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 26 ¹⁵³ AR 09370, 09378, 09387, 09397 (emphasis added).

27 ¹⁵⁴ Docket No. 28 at 44.

28 ¹⁵⁵ *See id.* at 38.

1 the leases contain the language requiring the lessee to use reasonable precautions to avoid waste.
 2 Nothing in the language suggests that courts may affirmatively compel BLM to require lessees to
 3 employ certain technologies, however reasonable or economically viable.

4 In fact, the Supreme Court has specifically disapproved of courts directing affirmative
 5 agency action when no specific mandate exists, or the law grants the agency significant discretion
 6 in choosing the means to carry out the statute. In *Norton v. Southern Utah Wilderness Alliance*, the
 7 Supreme Court ruled that a claim challenging an agency action under Section 706(1) of the APA
 8 may proceed only “where a plaintiff asserts that an agency failed to take a *discrete* agency action
 9 that it is *required* to take.”¹⁵⁶ When the agency has discretion in implementing a statute, the court
 10 may compel the agency to enact, but cannot specify what that particular action should be.¹⁵⁷ The
 11 same rationale applies here. The MLA merely provides that a certain lease provision must be
 12 included. As long as BLM has satisfied that obligation, the court may not intrude on BLM’s
 13 discretion by otherwise dictating what terms must be included in the lease.
 14

15 IV. CONCLUSION

16 Plaintiffs’ motion for summary judgment is GRANTED and BLM’s motion is DENIED as
 17 to the NEPA claims. Plaintiffs’ motion for summary judgment is DENIED and BLM’s motion is
 18 GRANTED as to the MLA claims.

19 IT IS SO ORDERED.

20 Dated: March 31, 2013

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 23 
 24 PAUL S. GREWAL
 25 United States Magistrate Judge

26
 27 ¹⁵⁶ 542 U.S. 55, 64 (2004) (emphasis original).

28 ¹⁵⁷ *See id.*