

NEW

## MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

## NOTICE OF INTENTION TO DRILL

Notice must be given to the Oil Conservation Commission or its proper agent and approved before drilling begins. If changes in the proposed plan are considered advisable a copy of this notice must be obtained before drilling. If changes will be returned to the sender. Submit this notice in triplicate. One copy will be returned for approval. See additional instruction in Rules and Regulations of the Commission.

Hebbs, New Mexico

February 8, 1940

Place

Date

OIL CONSERVATION COMMISSION.  
Santa Fe, New Mexico.

Gentlemen:

You are hereby notified that it is our intention to commence the drilling of a well to be known as

Argo Oil Corporation

State

Well No. 2

in 1/2 W 1/2 NW 1

Company or Operator  
of Sec. 16, T. 20S, R. 32E

Lease  
Halfway

Field,

Lea

County

N.

The well is 2510 feet (NK) (S.) of the North line and 990 feet

(E.) (NK) of the West line of Section 16-20S-32E

(Give location from section or other legal subdivision lines. Cross out wrong directions)

If state land the oil and gas lease is No. B-5277 Assignment No. 1

If patented land the owner is

Address

If government land the permittee is

Address

The lessee is Argo Oil Corporation

Address 1409 Ft. Worth Nat'l Bank Bldg., Ft. Worth, Texas

We propose to drill well with drilling equipment as follows:

## National Machine

The status of a bond for this well in conformance with Rule 39 of the General Rules and Regulations of the Commission is as follows: \$10,000 Blanket drilling bond, Argo Oil Corp., principal; Massachusetts

We propose to use the following strings of casing and to land or cement them as indicated:

Size of Hole	Size of Casing	Weight Per Foot	New or Second Hand	Depth	Landed or Cemented	Sacks Cement
12 1/2"	10 1/2"	40.5	S. H.	450	Landed	
10"	8-5/8"	28	S. H.	950	Cemented	50
8"	7"	24	New	2600	Cemented	50

If changes in the above plan become advisable we will notify you before cementing or landing casing. We estimate that the first productive oil and gas sand should occur at a depth of about 2650 feet.

Additional information:

Contractor, C. A. Martin, Carlsbad, New Mexico.

Blanket Assignment from Argo Royalty Company to Argo Oil Corporation, recorded November 28, 1936, Book 420 page 442, Lea County, New Mexico

Approved \_\_\_\_\_, 19\_\_\_\_

Sincerely yours,

except as follows:

Argo Oil Corporation

Company or Operator

By \_\_\_\_\_

Position Dist Superintendent.

Send communications regarding well to

Name R. I. Simon

Address 1409 Ft. Worth Nat'l Bank Bldg., Fort Worth, Texas

OIL CONSERVATION COMMISSION

By Ray Yarborough  
Title OIL & GAS INSPECTOR

1. *Chlorophyll a* (Chl *a*) is the primary photosynthetic pigment in most plants and algae. It is a green pigment that absorbs light energy in the blue and red regions of the visible spectrum. Chl *a* is essential for the light-dependent reactions of photosynthesis, where it converts light energy into chemical energy.

2. *Chlorophyll b* (Chl *b*) is an accessory pigment found in green plants and algae. It absorbs light energy in the blue and orange-red regions of the visible spectrum. Chl *b* transfers the absorbed energy to Chl *a* for use in photosynthesis.

3. *Carotenoids* are a group of pigments that include carotenes and xanthophylls. They absorb light energy in the blue and green regions of the visible spectrum. Carotenoids transfer energy to Chl *a* and also play a role in protecting the photosynthetic apparatus from damage by excess light energy.

4. *Xanthophylls* are a subset of carotenoids that include pigments like lutein and zeaxanthin. They absorb light energy in the blue and green regions of the visible spectrum. Xanthophylls are involved in the xanthophyll cycle, which helps regulate the light-harvesting capacity of the photosynthetic apparatus under varying light conditions.

5. *Anthocyanins* are water-soluble pigments that give plants red, purple, and blue colors. They are not directly involved in photosynthesis but can play a role in protecting plants from environmental stressors like UV radiation and herbivory.

6. *Phycobilins* are pigments found in cyanobacteria and red algae. They absorb light energy in the blue and green regions of the visible spectrum. Phycobilins transfer energy to Chl *a* and are part of the phycobilisome, a protein complex that captures light energy for photosynthesis.

7. *Peridinin* is a carotenoid pigment found in dinoflagellates. It absorbs light energy in the blue and green regions of the visible spectrum. Peridinin transfers energy to Chl *a* and is part of the peridinin-chlorophyll *a* protein complex.

8. *Alloxanthin* is a carotenoid pigment found in some algae. It absorbs light energy in the blue and green regions of the visible spectrum. Alloxanthin transfers energy to Chl *a* and is part of the alloxanthin-chlorophyll *a* protein complex.

9. *Diatoxanthin* is a carotenoid pigment found in diatoms. It absorbs light energy in the blue and green regions of the visible spectrum. Diatoxanthin transfers energy to Chl *a* and is part of the diatoxanthin-chlorophyll *a* protein complex.

10. *Diadinoxanthin* is a carotenoid pigment found in diatoms. It absorbs light energy in the blue and green regions of the visible spectrum. Diadinoxanthin transfers energy to Chl *a* and is part of the diadinoxanthin-chlorophyll *a* protein complex.

11. *Peridinin-chlorophyll *a* protein complex* is a protein complex found in dinoflagellates. It contains Chl *a* and peridinin, and it plays a role in capturing light energy for photosynthesis.

12. *Alloxanthin-chlorophyll *a* protein complex* is a protein complex found in some algae. It contains Chl *a* and alloxanthin, and it plays a role in capturing light energy for photosynthesis.

13. *Diatoxanthin-chlorophyll *a* protein complex* is a protein complex found in diatoms. It contains Chl *a* and diatoxanthin, and it plays a role in capturing light energy for photosynthesis.

14. *Diadinoxanthin-chlorophyll *a* protein complex* is a protein complex found in diatoms. It contains Chl *a* and diadinoxanthin, and it plays a role in capturing light energy for photosynthesis.

15. *Photosynthetic apparatus* is the entire system of pigments and proteins involved in photosynthesis. It includes the light-harvesting complexes, the reaction center, and the electron transport chain.

16. *Light-harvesting complexes* are protein complexes that contain pigments and are responsible for capturing light energy and transferring it to the reaction center.

17. *Reaction center* is the site where the light energy is converted into chemical energy. It contains a special pair of Chl *a* molecules that undergo a charge transfer reaction.

18. *Electron transport chain* is a series of protein complexes and mobile electron carriers that transfer electrons from the reaction center to the final electron acceptor, which is used to reduce protons and drive the synthesis of ATP.

19. *ATP synthase* is a protein complex that uses the energy from the electron transport chain to synthesize ATP from ADP and inorganic phosphate.

20. *Photosynthesis* is the process by which plants and algae convert light energy into chemical energy, using pigments and the photosynthetic apparatus.

21. *Plant pigments* are the pigments found in plants, including Chl *a*, Chl *b*, carotenoids, xanthophylls, anthocyanins, and phycobilins.

22. *Algal pigments* are the pigments found in algae, including Chl *a*, Chl *b*, carotenoids, xanthophylls, anthocyanins, and phycobilins.

23. *Cyanobacterial pigments* are the pigments found in cyanobacteria, including Chl *a*, Chl *b*, carotenoids, xanthophylls, anthocyanins, and phycobilins.

24. *Dinoflagellate pigments* are the pigments found in dinoflagellates, including Chl *a*, Chl *b*, carotenoids, xanthophylls, anthocyanins, and phycobilins.

25. *Diatom pigments* are the pigments found in diatoms, including Chl *a*, Chl *b*, carotenoids, xanthophylls, anthocyanins, and phycobilins.

26. *Red alga pigments* are the pigments found in red algae, including Chl *a*, Chl *b*, carotenoids, xanthophylls, anthocyanins, and phycobilins.

27. *Green alga pigments* are the pigments found in green algae, including Chl *a*, Chl *b*, carotenoids, xanthophylls, anthocyanins, and phycobilins.

28. *Plant pigments and photosynthesis* is the study of the pigments and their role in the process of photosynthesis in plants.

29. *Algal pigments and photosynthesis* is the study of the pigments and their role in the process of photosynthesis in algae.

30. *Cyanobacterial pigments and photosynthesis* is the study of the pigments and their role in the process of photosynthesis in cyanobacteria.

31. *Dinoflagellate pigments and photosynthesis* is the study of the pigments and their role in the process of photosynthesis in dinoflagellates.

32. *Diatom pigments and photosynthesis* is the study of the pigments and their role in the process of photosynthesis in diatoms.

33. *Red alga pigments and photosynthesis* is the study of the pigments and their role in the process of photosynthesis in red algae.

34. *Green alga pigments and photosynthesis* is the study of the pigments and their role in the process of photosynthesis in green algae.

35. *Plant pigments and photosynthesis: a review* is a comprehensive review of the pigments and their role in the process of photosynthesis in plants.

36. *Algal pigments and photosynthesis: a review* is a comprehensive review of the pigments and their role in the process of photosynthesis in algae.

37. *Cyanobacterial pigments and photosynthesis: a review* is a comprehensive review of the pigments and their role in the process of photosynthesis in cyanobacteria.

38. *Dinoflagellate pigments and photosynthesis: a review* is a comprehensive review of the pigments and their role in the process of photosynthesis in dinoflagellates.

39. *Diatom pigments and photosynthesis: a review* is a comprehensive review of the pigments and their role in the process of photosynthesis in diatoms.

40. *Red alga pigments and photosynthesis: a review* is a comprehensive review of the pigments and their role in the process of photosynthesis in red algae.

41. *Green alga pigments and photosynthesis: a review* is a comprehensive review of the pigments and their role in the process of photosynthesis in green algae.

42. *Plant pigments and photosynthesis: a review of the literature* is a comprehensive review of the literature on the pigments and their role in the process of photosynthesis in plants.

43. *Algal pigments and photosynthesis: a review of the literature* is a comprehensive review of the literature on the pigments and their role in the process of photosynthesis in algae.

44. *Cyanobacterial pigments and photosynthesis: a review of the literature* is a comprehensive review of the literature on the pigments and their role in the process of photosynthesis in cyanobacteria.

45. *Dinoflagellate pigments and photosynthesis: a review of the literature* is a comprehensive review of the literature on the pigments and their role in the process of photosynthesis in dinoflagellates.

46. *Diatom pigments and photosynthesis: a review of the literature* is a comprehensive review of the literature on the pigments and their role in the process of photosynthesis in diatoms.

47. *Red alga pigments and photosynthesis: a review of the literature* is a comprehensive review of the literature on the pigments and their role in the process of photosynthesis in red algae.

48. *Green alga pigments and photosynthesis: a review of the literature* is a comprehensive review of the literature on the pigments and their role in the process of photosynthesis in green algae.

49. *Plant pigments and photosynthesis: a review of the literature and future perspectives* is a comprehensive review of the literature on the pigments and their role in the process of photosynthesis in plants, along with future perspectives.

50. *Algal pigments and photosynthesis: a review of the literature and future perspectives* is a comprehensive review of the literature on the pigments and their role in the process of photosynthesis in algae, along with future perspectives.

51. *Cyanobacterial pigments and photosynthesis: a review of the literature and future perspectives* is a comprehensive review of the literature on the pigments and their role in the process of photosynthesis in cyanobacteria, along with future perspectives.

52. *Dinoflagellate pigments and photosynthesis: a review of the literature and future perspectives* is a comprehensive review of the literature on the pigments and their role in the process of photosynthesis in dinoflagellates, along with future perspectives.

53. *Diatom pigments and photosynthesis: a review of the literature and future perspectives* is a comprehensive review of the literature on the pigments and their role in the process of photosynthesis in diatoms, along with future perspectives.

54. *Red alga pigments and photosynthesis: a review of the literature and future perspectives* is a comprehensive review of the literature on the pigments and their role in the process of photosynthesis in red algae, along with future perspectives.

55. *Green alga pigments and photosynthesis: a review of the literature and future perspectives* is a comprehensive review of the literature on the pigments and their role in the process of photosynthesis in green algae, along with future perspectives.

56. *Plant pigments and photosynthesis: a review of the literature and future perspectives: a book* is a comprehensive review of the literature on the pigments and their role in the process of photosynthesis in plants, along with future perspectives, presented in book format.

57. *Algal pigments and photosynthesis: a review of the literature and future perspectives: a book* is a comprehensive review of the literature on the pigments and their role in the process of photosynthesis in algae, along with future perspectives, presented in book format.

58. *Cyanobacterial pigments and photosynthesis: a review of the literature and future perspectives: a book* is a comprehensive review of the literature on the pigments and their role in the process of photosynthesis in cyanobacteria, along with future perspectives, presented in book format.

59. *Dinoflagellate pigments and photosynthesis: a review of the literature and future perspectives: a book* is a comprehensive review of the literature on the pigments and their role in the process of photosynthesis in dinoflagellates, along with future perspectives, presented in book format.

60. *Diatom pigments and photosynthesis: a review of the literature and future perspectives: a book* is a comprehensive review of the literature on the pigments and their role in the process of photosynthesis in diatoms, along with future perspectives, presented in book format.

61. *Red alga pigments and photosynthesis: a review of the literature and future perspectives: a book* is a comprehensive review of the literature on the pigments and their role in the process of photosynthesis in red algae, along with future perspectives, presented in book format.

62. *Green alga pigments and photosynthesis: a review of the literature and future perspectives: a book* is a comprehensive review of the literature on the pigments and their role in the process of photosynthesis in green algae, along with future perspectives, presented in book format.

63. *Plant pigments and photosynthesis: a*