UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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070 FARMINGTON, NM

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

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OCT 11 1994
OIL CON. DIV.
DIST. 3

1a. Type of Work: DRILL
1b. Type of Well: GAS
2. Operator: MERIDIAN OIL (14538)
3. Address & Phone No. of Operator: PO Box 4289, Farmington, NM 87499
(505) 326-9700
4. Location of Well: 240'FSL, 340'FEL
Latitude 36° 33' 24", Longitude 107° 53' 33"
5. Lease Number: SF-077386A
6. If Indian, All. or Tribe:
7. Unit Agreement Name:
8. Farm or Lease Name: 7199 Johnson ~~DCT~~
9. Well Number: # 3
API # 30-045-29203
10. Field, Pool, Wildcat: Basin Ft Coal/ 71629
Fulcher Kutz PC 77200
11. Sec., Twn, Rge, Mer.: P Sec 21, T-27-N, R-10-W NMPM
12. County: San Juan
13. State: NM
14. Distance in Miles from Nearest Town: 9 miles to Bloomfield
15. Distance from Proposed Location to Nearest Property or Lease Line: 240'
16. Acres in Lease:
17. Acres Assigned to Well: 320 (E/2) 160 (NE/4)
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease: 1300'
19. Proposed Depth: 2150'
20. Rotary or Cable Tools: Rotary
21. Elevations (DF, FT, GR, Etc.): 6115'GR
22. Approx. Date Work will Start: 4th quarter 1994
23. Proposed Casing and Cementing Program: See Operations Plan attached

OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS"

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

24. Authorized by: _____ Regional Drilling Engineer — Date: 8/23/94

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

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Archaeological Report submitted by Archaeological Contract Arch. Tech. Report #569 dated 6-24-94
Threatened and Endangered Species Report submitted by Ecosphere Environmental Services dated 6-25-94
NOTE: This format is issued in lieu of U.S. BLM Form 3160-3

APPROVED AS AMENDED
OCT 06 1994
DISTRICT MANAGER

NMOCD

R-10233

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form C-10
Revised February 21, 199
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copie
Fee Lease - 3 Copie

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
30-045-29203	71629/77200	Basin Fruitland Coal/Fulcher Kutz Pictured Cliffs

Property Code	Property Name	Well Number
7199	Johnson ~~POW~~	#3

OGRID No.	Operator Name	Elevation
14538	MERIDIAN OIL INC.	6115'

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	21	27 N	10 W		240	South	340	East	S.J.

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

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
e/320-160			

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

16

USA SF-043260-B

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DIST. 3

21

USA SF-077386-A

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OIL CON. DIV.
DIST. 3

340'
240'

17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief

Peggy Bradfield
Signature

Peggy Bradfield
Printed Name

Regulatory Affairs
Title

10-19-94
Date

18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by m or under my supervision, and that the same is true and correct to the best of my belief.

5-27-94
Date of Surv

Signature and Seal of Professional Surveyor:

NEW MEXICO
6857
REGISTERED LAND SURVEYOR

6857
Certificate Number

August 23, 1994

OPERATIONS PLAN

Well Name: Johnson POW #1
Location: 240'FSL, 340'FEL, Section 21, T-27-N, R-10-W
San Juan County, New Mexico
Latitude 36° 33' 24", Longitude 107° 27' 33"
Formation: Basin Fruitland Coal
Elevation: 6115'GL

Formation:	Top	Bottom	Contents
Surface	Nacimiento	894'	
Ojo Alamo	894'	1008'	aquifer
Kirtland	1008'	1593'	
Fruitland	1593'	1880'	gas
Fruitland Coal	1718'	1848'	gas
Pictured Cliffs	1880'	2056'	gas & salt water
Lewis	2056'		
Total Depth	2150'		

Logging Program: Mud logs from 1300' to Total Depth.
Dens/Neut/GL; Dens/GR; Micro/GR
Ind/GR/SP: surface-TD

Mud Program:

Interval	Type	Weight	Vis.	Fluid Loss
0- 200'	Spud	8.4-8.9	40-50	no control
200-2150'	Non-dispersed	8.4-9.5	30-60	no control

Casing Program:

Hole Size	Depth Interval	Csg.Size	Wt.	Grade
12 1/4"	0 - 200'	8 5/8"	24.0#	K-40
7 7/8"	0 - 2150'	5 1/2"	15.5#	K-55

Tubing Program:

	0 - 2150'	2 3/8"	4.7#	J-55

Float Equipment: 8 5/8" surface casing - saw tooth guide shoe. Centralizers will be run in accordance with Onshore Order #2.

5 1/2" production casing - float shoe on bottom. Three centralizers run every other joint above shoe. Two centralizers run every 3rd joint to the base of the Ojo Alamo @ 1008'. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 1008'. Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

Wellhead Equipment: 8 5/8" x 5 1/2" x 2 3/8" x 11" 2000 psi xmas tree assembly.

Cementing:

8 5/8" surface casing - cement with 175 sx Class "B" cement with 1/4# flocele/sx and 3% calcium chloride (189 cu.ft. of slurry, 100% excess to circulate to surface). WOC 12 hrs. Test casing to 600 psi/30 minutes.

5 1/2" production casing - Lead w/354 sx of 65/35 Class "B" Poz w/6% gel, 2% calcium chloride, 5# gilsonite/sx and 1/4# flocele/sx. Tail w/100 sx Class "B" w/2% calcium chloride (745 cu.ft. of slurry, 100% excess to circulate to surface). WOC 12 hrs. If cement does not circulate to surface, a temperature log will be run after 8 hours to determine TOC.

BOP and tests:

Surface to TD - 11" 2000 psi (minimum double gate BOP stack (Reference Figure #1 and #2). Prior to drilling out surface casing, test rams to 600psi/30 min.

Completion - 6" 2000 psi (minimum) double gate BOP stack (Reference Figure #2). Prior to completion operations, test rams and casing to 2000 psi/15 min.

From surface to TD - choke manifold (Reference Figure #3).

Pipe rams will be actuated to least once each day and blind rams actuated once each trip to test proper functioning. An upper kelly cock valve with handle and drill string safety valves to fit each drill string will be maintained and available on the rig floor.

Additional information:

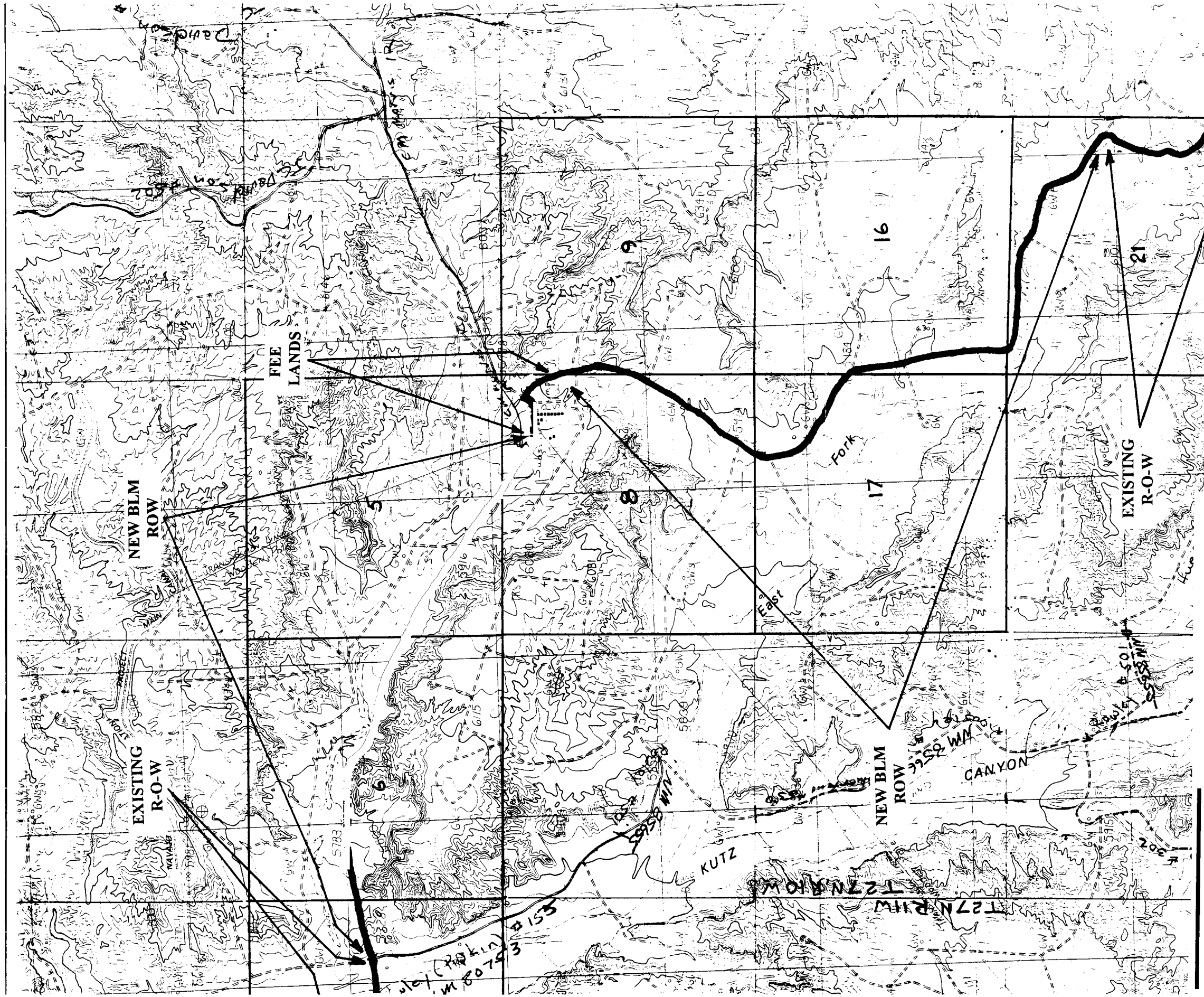
* This well will be drilled through the Pictured Cliffs, the PC will be tested, a retrievable bridge plug set between PC and basal Fruitland Coal. The basal coal and upper Fruitland Coal will be well tested and then produced for approximately 6 months, using a dual packer/dual pressure gauge configuration. The well will ultimately be used as a pressure observation well.

* This well was presented before the New Mexico Oil Conservation Division in hearing August 4, 1994 for the above procedure, and for non-standard location purposes.

* Anticipated pore pressure for the Fruitland is 300 psi.

* New casing will be utilized.

* Pipe movement (either rotation or reciprocation) will be done if hole conditions permit.



MERIDIAN OIL INC
JOHNSON POW #1
T 27 N, R 10 W

200' New Construction

T27N, R10W

Section	21:	SESE	200'
		SENE	1000'
		N2NE	1900'
		N2NW	2400'
	16:	W2SW	2700'
		SWNW	600'
	17:	SENE	800'
		N2NE	1600'
	8:	SWSE	500'
		E2SE	2600'
	9:	SWNW	800'
	8:	NWNE	1100'
	5:	SWSE	400'
		S2SW	1800'
		NWSW	1400'
	6:	NESE	1600'
		SWNE	1700'
		S2NW	2800'

T27N, R11W

1:	SENE	1300'

Remaining BLM roads are covers by ROW's NM 90081 & NM 80753

APD MAP #1