

September 28, 1995

Federal Express

Mr. Michael Stogner
New Mexico Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505

Re: Vaughn #30
2510'FSL, 1570'FWL Section 28, T-26-N, R-6-W, Rio Arriba County, NM
API #30-039-21969

Dear Mr. Stogner:

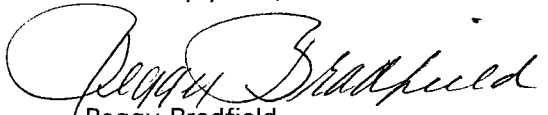
This is a request for administrative approval for a non-standard gas well location in both the Blanco Mesa Verde and Ensanada Mesa Gallup pools. This well was originally drilled as a single Dakota well.

Meridian Oil Inc. has recompleted the Vaughn #30 in the Mesa Verde and Gallup pools and temporarily abandoned the Gallup and Dakota zones. To comply with the New Mexico Oil Conservation Division rules, Meridian is submitting the following for your approval of this non-standard location:

1. C-102 plat showing location of the well;
2. Plats showing offset owners/operators;
3. Affidavit of notification of offset owners/operators;
4. Copy of Well Completion Log for original completion.

A copy of this application is being submitted to all offset owners/operators by certified mail with a request that they furnish your Santa Fe office with a Waiver of Objection, and return one copy to this office.

Sincerely yours,


Peggy Bradfield
Regulatory/Compliance Administrator

WAIVER

_____ hereby waives objection to Meridian Oil Inc.'s application for non-standard location for the Vaughn #30 as proposed above.

By: _____ Date: _____

xc: Caulkins Oil Co.
Robert L. Bayless
Merrion Oil & Gas Corp
Conoco Inc.

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-107
Revised February 21, 1992
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-039-21969		2 Pool Code 72319/96321/71599		3 Pool Name Blanco Mesaverde/Ensenada Mesa Gal/Basin Dakota		
4 Property Code 7227		5 Property Name VAUGHN			6 Well Number 30	
7 OGRID No. 14538		8 Operator Name MERIDIAN OIL INC.			9 Elevation 6421'	

10 Surface Location

UL or lot no. K	Section 28	Township 26-N	Range 6-W	Lot Idn	Feet from the 2510	North/South line SOUTH	Feet from the 1570	East/West line WEST	County R.A.
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11 Bottom Hole Location If Different From Surface

UL or lot no. W/320-W/320-40	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.
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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

<p>1570'</p> <p>2510'</p> <p>640 acre Section</p>	<p>*Not resurveyed, prepared from a plat surveyed by Fred B. Kerr Jr. Dated July 11, 1978.</p>	<p>17 OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</p> <p>Signature Peggy Bradfield</p> <p>Printed Name Regulatory Affairs</p> <p>Title</p> <p>12-12-94</p> <p>Date</p>
		<p>18 SURVEYOR CERTIFICATION</p> <p>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.</p> <p>11-30-94</p> <p>Date of Survey</p> <p>Signature and Seal of Professional Surveyor:</p> <p>NEALE C. EDWARDS REGISTERED 8857</p> <p>Certificate Number</p>

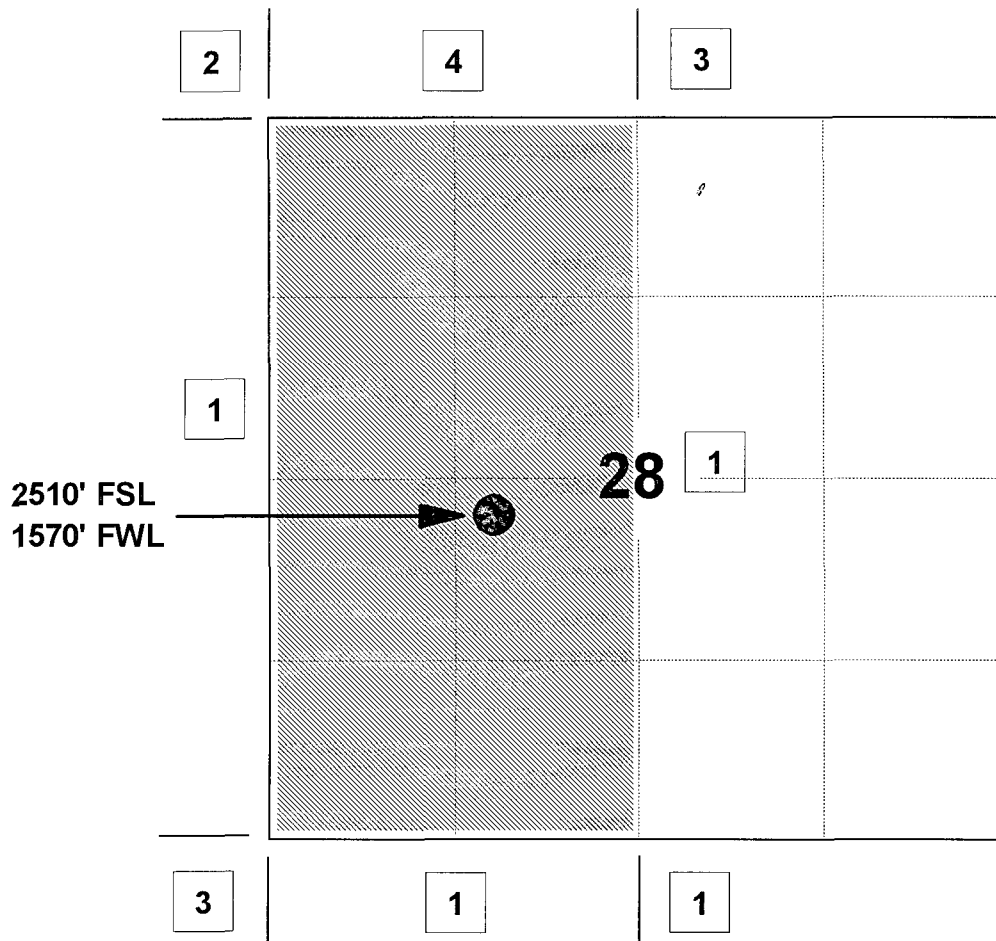
MERIDIAN OIL INC

VAUGHN #30

OFFSET OPERATOR \ OWNER PLAT

Unorthodox Mesaverde Well Location

Township 26 North, Range 6 West



1) Meridian Oil Inc

2) Meridian Oil Inc &

Caulkins Oil Co.

2100 Colorado Bank Building, Denver, CO 80202

3) Meridian Oil Inc &

Robert L. Bayless

PO Box 168, Farmington, NM 87499

Merrion Oil & Gas Corp.

PO Box 840, Farmington, NM 87499

4) Conoco, Inc

PO Box 951063, Houston, TX 75395-1063 &

Caulkins Oil Co.

2100 Colorado Bank Building, Denver, CO 80202

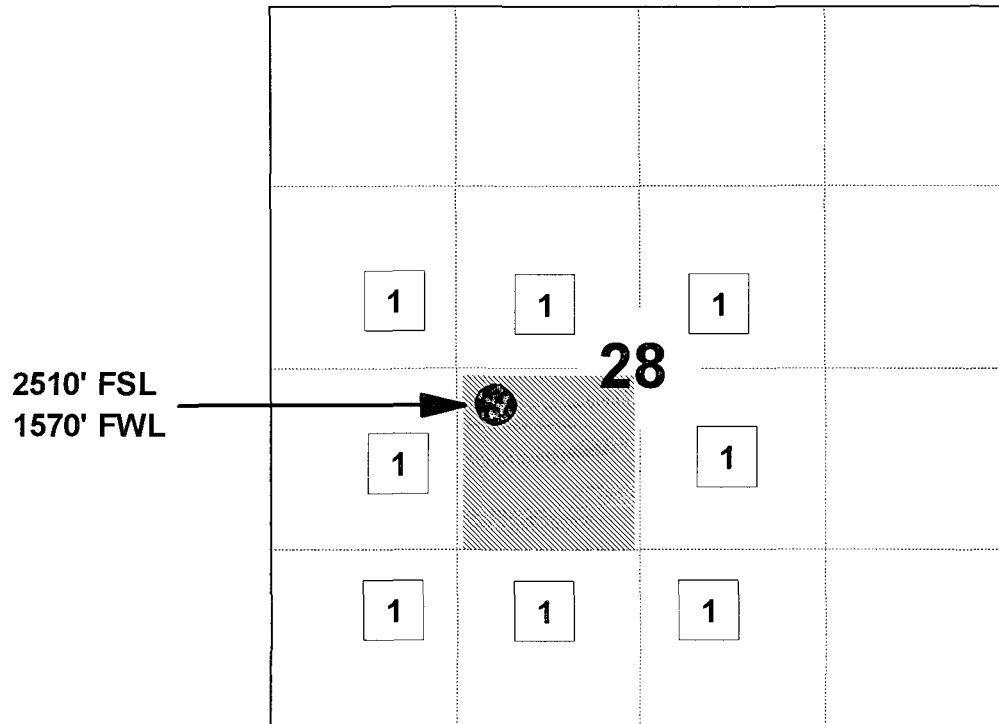
MERIDIAN OIL INC

VAUGHN #30

OFFSET OPERATOR \ OWNER PLAT

Unorthodox Gallup Well Location

Township 26 North, Range 6 West



1) Meridian Oil Inc

Re: Vaughn #30
2510'FSL, 1570'FWL Section 28, T-26-N, R-6-W, Rio Arriba County, NM
API #30-039-21969

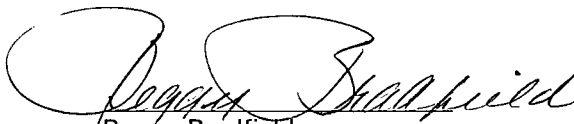
I hereby certify that the following offset owners/operators have been notified by certified mail of our application for administrative approval for non-standard well location of the above well.

Caulkins Oil Co.
2100 Colorado Bank Building
Denver, CO 80202

Robert L. Bayless
PO ox 168
Farmington, NM 87499

Merrion Oil & Gas
PO Box 840
Farmington, NM 87499

Conoco Inc.
PO Box 951063
Houston, TX 75395-1063



Peggy Bradfield
Regulatory/Compliance Administrator

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

(See other
instructions
reverse side)Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> Other _____										5. LEASE DESIGNATION AND SERIAL NO. SF079266	
b. TYPE OF COMPLETION: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> Other _____										6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR El Paso Natural Gas Company										7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR Box 289, Farmington, New Mexico 87401										8. FARM OR LEASE NAME Vaughn	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 2510'S, 1570'W At top prod. interval reported below At total depth										9. WELL NO. 30	
14. PERMIT NO. _____ DATE ISSUED _____										10. FIELD AND POOL, OR WILDCAT Basin Dakota	
15. DATE SPUDDED 8-5-79 16. DATE T.D. REACHED 8-17-79 17. DATE COMPL. (Ready to prod.) 10-17-79 18. ELEVATIONS (DF, RKL, RT, GR, ETC.)* 6421' GL										11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Sec. 28, T-26-N, R-6-W N.M.P.M.	
20. TOTAL DEPTH, MD & TVD 7280' 21. PLUG, BACK T.D., MD & TVD 7263' 22. IF MULTIPLE COMPL., HOW MANY* _____ 23. INTERVALS DRILLED BY _____ ROTARY TOOLS _____ CABLE TOOLS _____										12. COUNTY OR PARISH _____ 13. STATE _____	
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 6924-7208' (Dakota)										19. ELEV. CASINGHEAD _____	
26. TYPE ELECTRIC AND OTHER LOGS RUN CDL-GR; IEL; Temp. Survey										25. WAS DIRECTIONAL SURVEY MADE No	
27. WAS WELL CORED No											
28. CASING RECORD (Report all strings set in well)											
CASING SIZE		WEIGHT, LB./FT.		DEPTH SET (MD)		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED	
9 5/8"		36#		221'		13 3/4"		224 cf.			
4 1/2"		10.5&11.6#		7280'		7 7/8" & 8 3/4"		1000 cf.			
29. LINER RECORD											
SIZE		TOP (MD)		BOTTOM (MD)		SACKS CEMENT*		SCREEN (MD)			
30. TUBING RECORD											
SIZE		DEPTH SET (MD)		PACKER SET (MD)							
2 3/8"		7187'									
31. PERFORATION RECORD (Interval, size and number) 6924, 7006, 7013, 7020, 7038, 7050, 7081, 7131, 7138, 7162, 7170, 7178, 7201, 7208' W/1 SPZ.											
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.											
DEPTH INTERVAL (MD)				AMOUNT AND KIND OF MATERIAL USED							
6924-7208'				111,000#sd, 115,000 gal. wtr.							
33. PRODUCTION											
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) After Frac Gauge 965 MCF/D						WELL STATUS (Producing or shut-in) Shut-In			
DATE OF TEST		HOURS TESTED		CHOKE SIZE		PROD'N. FOR TEST PERIOD		OIL—BBL.		GAS—MCF.	
10-17-79											
FLOW. TUBING PRESS.		CASING PRESSURE		CALCULATED 24-HOUR RATE		OIL—BBL.		GAS—MCF.		WATER—BBL.	
SI 612		SI 2272									
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)										TEST WITNESSED BY H. McDaniels	
35. LIST OF ATTACHMENTS											
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records											
SIGNED <u>A. G. Duico</u>				TITLE <u>Drilling Clerk</u>				DATE <u>October 23, 1979</u>			

*(See Instructions and Spaces for Additional Data on Reverse Side)

'95 00 5 AM 8 52

September 28, 1995

Federal Express

Mr. Michael Stogner
New Mexico Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505

Re: Vaughn #30
2510'FSL, 1570'FWL Section 28, T-26-N, R-6-W, Rio Arriba County, NM
API #30-039-21969

Dear Mr. Stogner:


This is a request for administrative approval for a non-standard gas well location in both the Blanco Mesa Verde and Ensanada Mesa Gallup pools. This well was originally drilled as a single Dakota well.

Meridian Oil Inc. has recompleted the Vaughn #30 in the Mesa Verde and Gallup pools and temporarily abandoned the Gallup and Dakota zones. To comply with the New Mexico Oil Conservation Division rules, Meridian is submitting the following for your approval of this non-standard location:

1. C-102 plat showing location of the well;
2. Plats showing offset owners/operators;
3. Affidavit of notification of offset owners/operators;
4. Copy of Well Completion Log for original completion.

A copy of this application is being submitted to all offset owners/operators by certified mail with a request that they furnish your Santa Fe office with a Waiver of Objection, and return one copy to this office.

Sincerely yours,


Peggy Bradfield
Regulatory/Compliance Administrator

WAIVER

Caulkins Oil Co. hereby waives objection to Meridian Oil Inc.'s application for non-standard location for the Vaughn #30 as proposed above.

By: Robert L. Vergara Date: 10-4-95

xc: Caulkins Oil Co.
Robert L. Bayless
Merrion Oil & Gas Corp
Conoco Inc.

OIL CONSERVATION DIVISION
RECEIVED
'95 OCT 12 AM 8 52

September 28, 1995

Federal Express

Mr. Michael Stogner
New Mexico Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505

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2510'FSL, 1570'FWL Section 28, T-26-N, R-6-W, Rio Arriba County, NM
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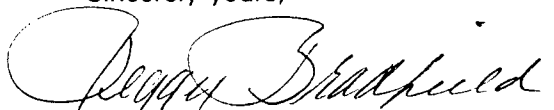
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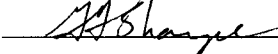
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Sincerely yours,

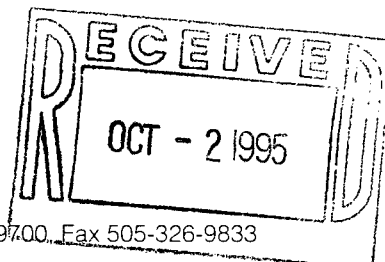

Peggy Bradfield
Regulatory/Compliance Administrator

WAIVER

Merrion Oil & Gas hereby waives objection to Meridian Oil Inc.'s application for non-standard location for the Vaughn #30 as proposed above.

By:  Date: 10-7-95

xc: Caulkins Oil Co.
Robert L. Bayless
Merrion Oil & Gas Corp
Conoco Inc.



'95 OCT 2 AM 8 52

September 28, 1995

Federal Express

Mr. Michael Stogner
New Mexico Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505

Re: Vaughn #30
2510'FSL, 1570'FWL Section 28, T-26-N, R-6-W, Rio Arriba County, NM
API #30-039-21969

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Sincerely yours,


Peggy Bradfield
Regulatory/Compliance Administrator

WAIVER

_____ hereby waives objection to Meridian Oil Inc.'s application for non-standard location for the Vaughn #30 as proposed above.

By: 

Date: 9.29.95

xc: Caulkins Oil Co.
Robert L. Bayless
Merrion Oil & Gas Corp
Conoco Inc.

Mike Stogner

From: Ernie Busch
To: Mike Stogner
Subject: MERIDIAN OIL INC.(NSL)
Date: Friday, October 13, 1995 2:36PM
Priority: High

VAUGHN #30
2510' FSL; 1570' FWL
K-28-26N-06W
RECOMMEND: APPROVAL

95 SEP 22 AM 8 52
Form 160-4
(October 1990)
DIVISION

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

FOR APPROVED
OMB NO. 1004-0137
EXEMPT DOCUMENT J.L. 1991

SE-079266

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DEW ☐ OTHER ☐
2. TYPE OF COMPLETION: NEW WELL ☐ WORK OVER ☐ REPAIR ☐ PLUG BACK ☐ DIPP. CREEP ☒ OTHER ☐
3. NAME OF OPERATOR: Meridian Oil Inc
4. ADDRESS AND TELEPHONE NO.: PO Box 4289, Farmington, NM 87499 (505) 326-9700

5. LOCATION OF WELL (Report location clearly and in accordance with any state requirements):
At surface 2510' ESL, 1570' FWL
At top prod. interval reported below
At total depth

6. PERMIT NO.: DHC R-10239
7. DATE ISSUED: 55 SEP -6 PM 1:52

8. COUNTY OR PARISH: Rio Arriba
9. STATE: NM

10. DATE SPUDDED: 8/5/79
11. DATE T.D. REACHED: 8-17-79
12. DATE COMPL. (Ready to prod.): 7-30-95
13. ELEVATIONS (OF. HRR. ST. OR ETC.): 6421 GR

14. TOTAL DEPTH, MD & TVD: 7280
15. PLUG BACK T.D., MD & TVD: 7263 CIBP @ 5280
16. IF MULTIPLE COMPL. INTERVALS DRILLED BY: 0-7280

17. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD):
4875-5140 Mesaverde

18. TYPE ELECTRIC AND OTHER LOGS RUN: CRI, CCI, CR

19. TYPE WELL: No

20. CASING RECORD (Report all strings set in well):

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT
9 5/8	36#	221	13 3/4	224 cu. ft.	
4 1/2	10.5# & 11.6#	7280	7 7/8 & 8 3/4	1000 cu. ft.	

21. LINE RECORD

SIZE	TOP (MD)	BOTTOM (MD)	BACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER
					2 3/8	4830	CIBP @ CIBP @

22. TUBING RECORD

23. PERFORATION RECORD (If drilled, give one number):
4875, 4886, 4892, 4898, 4904, 4910, 4912, 4942
4958, 4961, 4963, 4964, 5001, 5003, 5005, 5007
5019, 5064, 5074, 5140

24. ACID SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL
4875-5140	1333 bbl 30# x-link gel
	104,000# 16/30 Brady sd
	15,206# 16/30 resin sd

25. PRODUCTION

26. DATE FIRST PRODUCTION: 7-30-95
27. PRODUCTION METHOD (Flowing, gas lift, pumping—give end type of pump): Flowing
28. WELL STATUS (If flowing, give rate): ST

29. DATE OF TEST: 7-30-95
30. HOURS TESTED: 1029
31. CHOKER SIZE: Pitot Gauge
32. PROD. FOR TEST PERIOD: 1029
33. OIL—GAL. GAS—MCF. WATER—GAL. GAS—GAL. E

34. FLOW, TUBING PERIOD. CASING PERIOD. CALCULATED 24-HOUR RATE: ST 996 ST 1000
35. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.):

36. LIST OF ATTACHMENTS: To be sold

37. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

SIGNED: [Signature] TITLE: Regulatory Administrator

DATE: SEP 12 1995

OFFICE: FARMINGTON DISTRICT OFFICE

* (See instructions and Specs for Additional Data on Reverse Side)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

NMCOO

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. **Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement". Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES:

SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CURED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.

38.

GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
P.C.	2641'	
M.V.	4306'	
P.L.	4867'	
Gallup	6046'	
G.H.	6800'	
Graneros	6853'	
Dakota	6999'	

'95 SEP 22 AM 8 52

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

FOR APPROVED
OMB NO. 1004-0157
EFFECTIVE DATE: JAN. 1991

U.S.A. DESIGNATION AND SERIAL

SF-C 9266

6. IF INDIAN, ALLOTTEE OR TRIBE

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DEW <input type="checkbox"/>	2. NAME OF OPERATOR Meridian Oil Inc	3. ADDRESS AND TELEPHONE NO. PO Box 4289, Farmington, NM 87499 (505) 326-9700	4. LOCATION OF WELL (Report location clearly and in accordance with any state requirements): At surface 2510' FSL, 1570' FWL At top prod. interval reported below At total depth	5. PERMIT NO. DHC R-10239	6. DATE ISSUED	7. UNIT AGREEMENT NAME	8. FARM OR LEASE NAME, WZ Vaughn #30	9. API WELL NO. 30-039-21969	10. Blanco MV/Basin DK (Ensenada Mesa Gallup)	11. SEC., T., R., M., OR BLOCK AND OR AREA Sec. 28, T-26-N, R-6	12. COUNTY OR PARISH Rio Arriba	13. STATE NM		
15. DATE SPUDDED 8/5/79	16. DATE T.D. REACHED 8-17-79	17. DATE COMPL. (Ready to prod.) 7-30-95	18. ELEVATIONS (OF. RAIL, ST. CR, ETC.): 6421 GR	19. SLEV. CASING	20. TOTAL DEPTH, MD & TVD 7280	21. PLUMB BACK T.D., MD & TVD 7263 CIBP @ 6800	22. IF MULTIPLE COMPL., HOW MANY? 1	23. INTERVALS DRILLED BY 0-7280	24. ROTARY TOOLS	25. CABLE T.	26. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, TANK—(MD AND TVD) 6112-6380 Gallup	27. WAS BIRM. COMPLET. M.	28. TYPE ELECTRIC AND OTHER LOGS RUN CBL-CCL-CR	29. WAS WELL-CT No

OIL CON. DIV.

CASING RECORD (Report all strings set in well)

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT
9 5/8	36#	221	13 3/4	224 cu. ft.	
4 1/2	10.5# & 11.6#	7280	7 7/8 & 8 3/4	1000 cu. ft.	

LINER RECORD					TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	BACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PERIOD
					2 3/8	4889	CIBP @
							CIBP @

31. PREPARATION RECORD (Interval, size and number):
6112, 6170, 6190, 6205, 6235, 6248, 6268,
6292, 6304, 6321, 6362, 6380

32. ACID, SHOT, FRACTURE CEMENT SQUEEZE, ETC.	
DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL
6112-6380	74,700# 20/40 Tempered
	1202 bbl 30# x-link gel

33. PRODUCTION							
DATE FIRST PRODUCTION 7-30-95		PRODUCTION METHOD (Flowing, gas lift, pumps—size and type of pump) Flowing				WELL STATUS (Producing, shut-in) ST	
DATE OF TEST 7-30-95	HOURS TESTED	CHOKED SIZE	PROD'N. FOR TEST PERIOD	OIL—GAL.	GAS—MCF.	WATER—GAL.	GAS—GAL. &
					188 Pitot Gauge		
FLOW, TUBING FLOW—	CASING FLOW—	CALC. TEST 24-H	OIL—GAL.	GAS—MCF.	WATER—GAL.	OIL GROSS—GAL.	
ST 996	ST 1000						
34. DISPOSITION OF GAS (Sold, used for fuel, vent, etc.) To be sold							

35. LIST OF ATTACHMENTS None		36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.	
SIGNED: <i>[Signature]</i>	TITLE: Regulatory Administrator	DATE: 8-31-95	

ACCEPTED FOR RECORD

SEP 12 1995

*(See Instructions and Spaces for Additional Data on Reverse Side)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. **Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool. **Item 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES			38. GEOLOGIC MARKERS				
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TOP	TRUE VERT. DEPTH
				P.C.	2641'		
				M.V.	4306'		
				P.L.	4867'		
				Gallup	6046'		
				G.H.	6800'		
				Graneros	6853'		
				Dakota	6999'		

submitted in lieu of Form 3160-5

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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OIL CONSERVATION DIVISION
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Sundry Notices and Reports on 95 AUG 31 PM 1:46

1. Type of Well
GAS

2. Name of Operator
MERIDIAN OIL

3. Address & Phone No. of Operator
PO Box 4289, Farmington, NM 87499 (505) 326-9700

4. Location of Well, Footage, Sec., T, R, M
2510' FSL, 1570' FWL, Sec. 28, T-26-N, R-6-W, NMPM

DHC R-10239

5. Lease Number
SF-079266
6. If Indian, All. or
Tribe Name
7. Unit Agreement Name
8. Well Name & Number
Vaughn #30
9. API Well No.
30-039-21969
10. Field and Pool
Blanco MV/Basin DK/
Ensenada Mesa Gallup
11. County and State
Rio Arriba Co, NM

12. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA

Type of Submission

Type of Action

<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input checked="" type="checkbox"/> Subsequent Report	<input checked="" type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Other -	

13. Describe Proposed or Completed Operations

7-17-95 MIRU. ND WH. NU BOP. TIH, tag fill @ 7209'. Blow well & CO. TOOH w/228 jts 2 3/8" tbg. RU, ran 3 3/4" gauge ring to 6900'. Set 4 1/2" CIBP @ 6800'. TIH w/4 1/2" pkr, set @ 6780'. Roll hole w/105 bbl 2% Kcl wtr. PT CIBP & tbg to 3500 psi/10 min, OK. PT csg to 1200 psi, failed.

7-18-95 Made multiple tool settings, isolate csg leak @ 2789-2821'. PT csg @ 2821-6800' to 1200 psi/10 min, OK. Establish injection into leak w/5 bbl 2% Kcl wtr. Release pkr, TOOH. TIH to 2822', pump 10 bbl wtr. Pump 25 sx Micro Matrix cmt @ 2512-2822' Displace w/9.75 bbl wtr. Reverse out tbg w/18 bbl wtr. Reverse out 2 bbl cmt colored wtr. Pressure up to 1500 psi. SI. WOC. Release pressure TOOH w/tbg. TIH. WOC.

7-19-95 TIH, drill cmt @ 2500-2830'. Roll hole w/2% Kcl wtr. PT csg to 1200 psi/15 min, OK. TOOH. RU, ran CBL-CCL-GR @ 0-6790'. Cmt intervals @ 6064-6790', 3970-5500 1184-2844'. RD. RU, ran Depole Sonic log @ 4700-5200', 5950-6780'.

7-20-95 TIH, spot 500 gal 10% acetic acid across Gallup zone. TOOH. RU, perf Gallup @ 6112, 6170, 6190, 6205, 6235, 6248, 6268, 6292, 6304, 6321, 6362, 6380 w/12 holes total. RIH w/4 1/2" pkr, set @ 6428'. Acidize w/1500 gal 10% acetic aci Release pkr. Reset pkr @ 5880'. Frac Gallup w/74,700# 20/40 tempered DC sd, 1202 bbl 30# x-link gel. SI for gel break.

Continued on back

14. I hereby certify that the foregoing is true and correct.

Signed [Signature] Title Regulatory Administrator Date 7/31/95

(This space for Federal or State Office use)

APPROVED BY _____ Title _____ Date _____

CONDITION OF APPROVAL, if any:

ACCEPTED FOR RECORD

SEP 12 1995

WOCG

FARMINGTON DISTRICT OFFICE
BY [Signature]

7-21-95 CO after frac.
 7-22-95 Blow well & CO. TOOH. TIH w/CIBP, set @ 5250'. RD. Load hole w/2% Kcl wtr. TIH w/pkr, set @ 2853'. PT csg & CIBP to 3700 psi/10 min, OK. Release pkr, reset @ 5114'. Spot 400 gal 10% Hcl. TOOH. RU, perf Mesaverde w/1 SPF @ 4875, 4886, 4892, 4898, 4904, 4910, 4912, 4942, 4958, 4961, 4963, 4965, 5001, 5003, 5005, 5007, 5019, 5064, 5074, 5140 w/20 holes total. RD. Acidize w/1500 gal 10% Hcl. Frac Mesaverde w/1383 bbl 30# x-link gel, 104,000# 16/30 Brady sd, 15,206# 16/30 resin sd. SI for sd to set.
 7-23-95 SI. CO after frac. TOOH w/pkr. Blow well & CO.
 7-24-95 Blow well & CO. Drill on CIBP, push to 5270', bit hung. TIH w/fishing tools. Top of fish @ 5109'. Blow well clean.
 7-25/28-95 Fishing.
 7-29-95 Fishing. TOOH w/fishing tools.
 7-30-95 TOOH w/48 jts 2 3/8" tbg. TIH w/155 jts 2 3/8" 4.7# J-55 EUE tbg, landed @ 4889'. ND BOP. NU WH. RD. Rig released.

Well will produce as a Mesaverde single. Gallup is temporarily abandoned w/CIBP @ 52⁷0';
 Dakota is temporarily abandoned w/CIBP @ 6800'.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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Sundry Notices and Reports on Wells

1. Type of Well

GAS

2. Name of Operator

MERIDIAN OIL

3. Address & Phone No. of Operator

PO Box 4289, Farmington, NM 87499 (505) 326-9700

4. Location of Well, Footage, Sec., T, R, M

2510'FSL, 1570'FWL, Sec.28, T-26-N, R-6-W, NMPM

5. Lease Number

SF-079266

6. If Indian, All. or

Tribe Name

7. Unit Agreement Name

8. Well Name & Number

Vaughn #30

9. API Well No.

30-039-21969

10. Field and Pool

Blanco MV/Basin DK/
WC;Ensenada Mesa Gal

11. County and State

Rio Arriba Co, NM

12. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA

Type of Submission

Type of Action

☒ Notice of Intent☐ Abandonment☐ Change of Plans☐ Subsequent Report☒ Recompletion☐ New Construction☐ Final Abandonment☐ Plugging Back☐ Non-Routine Fracturing☐ Casing Repair☐ Water Shut off☐ Altering Casing☐ Conversion to Injection☐ Other -

13. Describe Proposed or Completed Operations

It is intended to workover the subject wellbore according to the attached procedure, pertinent data sheet, and wellbore diagram. The Dakota will be temporarily abandoned, the Gallup and the Mesaverde will be recompleted and commingled after an extended flow period per the blanket downhole commingle order R-10239 dated November 14, 1994. This work will occur in the 1995 calendar year.

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DEC 19 1994

OIL CON. DIV.
DIST. 3

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OIL CONSERVATION DIV.
DEC 12 PM 3:30

RECEIVED
OIL CONSERVATION DIV.

14. I hereby certify that the foregoing is true and correct.

Signed [Signature] (TEM3) Title Regulatory Affairs Date 12/7/94

(This space for Federal or State Office use)

APPROVED BY

Title

Date

CONDITION OF APPROVAL, if any:

25 8

APPROVED

DEC 13 1994

DISTRICT MANAGER

NMOC

**STATE OF NEW MEXICO
ENERGY, MINERALS, AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION**

**IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
DIVISION FOR THE PURPOSE OF
CONSIDERING:**

**CASE NO. 11038
Order No. R-10239**

**APPLICATION OF MERIDIAN OIL INC.
FOR DOWNHOLE COMMINGLING, RIO
ARRIBA COUNTY, NEW MEXICO.**

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 8:15 a.m. on August 18, 1994, at Santa Fe, New Mexico, before Examiner David R. Catanach.

NOW, on this 14th day of November, 1994, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS THAT:

(1) Due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.

(2) The applicant, Meridian Oil Inc., seeks exceptions from Division General Rule 303(C) to establish, on an area wide basis, authorization for downhole commingling of Dakota, Mesaverde and Gallup production in the wellbores of existing or subsequently drilled wells anywhere within Sections 26 through 30, 33, 34, and the S/2 of 35, all in Township 26 North, Range 6 West, NMPM, Rio Arriba County, New Mexico.

(3) The subject area is comprised of two separate Federal leases, the Vaughn Federal Lease (NM-602), which consists of Sections 26 through 29, and the Klein Federal Lease (NM-601), which consists of Sections 30, 33, 34 and the S/2 of 35.

(4) The evidence presented indicates that the interest ownership underlying the Vaughn Federal Lease is common, and the interest ownership underlying the Klein Federal Lease is common.

(5) According to applicant's testimony, it currently operates within the Klein-Vaughn Lease area:

- 26- Basin-Dakota Gas Pool producing wells
- 7- Blanco-Mesaverde Gas Pool producing wells
- 1- Undesignated Gallup producing well

(6) The applicant's proposed plan of operation for the Klein-Vaughn Lease area is as follows:

- a) the Basin-Dakota Gas Pool producing wells which are currently producing at or below a pre-determined economic threshold will be temporarily abandoned in the Dakota formation, and each well will be completed and tested in the Mesaverde and Gallup formations. After sufficient production information is obtained to establish an allocation formula, all three formations will be commingled in the wellbore;
- b) existing Blanco-Mesaverde Gas Pool wells will not be commingled with either the Dakota or Gallup formations;
- c) approximately five new wells will be drilled within the Klein-Vaughn Lease area and will initially be dually completed as Mesaverde and commingled Dakota/Gallup producers. At such time as these wells become uneconomic, they will be commingled in the Mesaverde, Dakota and Gallup formations.

(7) The twenty-four Basin-Dakota Gas Pool producing wells the applicant proposes to commingle are as follows:

<u>WELL NAME</u>	<u>WELL LOCATION</u>
Vaughn No. 8	Unit A, 26-26N-6W
Vaughn No. 12E	Unit C, 26-26N-6W
Vaughn No. 12	Unit K, 26-26N-6W
Vaughn No. 8E	Unit P, 26-26N-6W
Vaughn No. 13	Unit A, 27-26N-6W
Vaughn No. 14E	Unit D, 27-26N-6W
Vaughn No. 14	Unit K, 27-26N-6W
Vaughn No. 15	Unit A, 28-26N-6W
Vaughn No. 30E	Unit D, 28-26N-6W
Vaughn No. 30	Unit K, 28-26N-6W

Vaughn No. 15E	Unit P, 28-26N-6W
Vaughn No. 31	Unit B, 29-26N-6W
Vaughn No. 32E	Unit D, 29-26N-6W
Vaughn No. 31E	Unit I, 29-26N-6W
Vaughn No. 32	Unit K, 29-26N-6W
Klein No. 28E	Unit C, 33-26N-6W
Klein No. 26	Unit H, 33-26N-6W
Klein No. 28	Unit K, 33-26N-6W
Klein No. 19	Unit A, 34-26N-6W
Klein No. 19E	Unit C, 34-26N-6W
Klein No. 24E	Unit I, 34-26N-6W
Klein No. 24	Unit L, 34-26N-6W
Klein No. 27	Unit K, 35-26N-6W
Klein No. 27E	Unit O, 35-26N-6W

(8) The evidence presented indicates that twenty-two of the twenty-four above-described Dakota producing wells are currently marginal with production averaging approximately 88 MCF gas per day.

(9) The Vaughn Well Nos. 12E and 14 are currently non-marginal with production averaging approximately 419 MCF gas per day, however, applicant testified that these wells, as well as the other Dakota producing wells within the Klein-Vaughn Lease area, are experiencing liquid loading problems which would be greatly alleviated by the proposed downhole commingling.

(10) The current average production from Blanco-Mesaverde Gas Pool wells within the Klein-Vaughn Lease area is approximately 351 MCF gas per day.

(11) The single Gallup producing well within the Klein-Vaughn Lease area currently produces at a rate of approximately 45 MCF gas per day.

(12) The evidence and testimony indicate that the present wellbore configurations of the existing Dakota producers within the Klein-Vaughn Lease area precludes completing these wells as dual producers.

(13) The applicant's geologic evidence and testimony indicate that:

- a) the Klein-Vaughn Lease area is located on the southwest edge of the Blanco-Mesaverde Gas Pool;

- b) the only member of the Mesaverde formation which has potential for gas production in the Klein-Vaughn Lease area is the Point Lookout, and, due to the non-homogeneous nature of the Point Lookout, there is limited potential for further production;
- c) there is potential for Gallup production throughout the Klein-Vaughn Lease area, however, such production is likely to be marginal, as evidenced from the recent completion of the Klein Well No. 28E which is capable of producing approximately 45 MCF gas per day.
- d) the Basin-Dakota is fully developed within the Klein-Vaughn Lease area with the exception of Section 30 and the SE/4 of Section 33.

(14) The expected producing rates within the Mesaverde and Gallup formations within the Klein-Vaughn Lease area are insufficient to justify drilling stand alone wells to recover these reserves.

(15) The proposed downhole commingling is necessary in order for the applicant to economically recover Blanco-Mesaverde and Undesignated Gallup Pool reserves underlying the Klein-Vaughn Lease area.

(16) The applicant further demonstrated through its evidence and testimony that within the wells it proposes to commingle within the Klein-Vaughn Lease area:

- a) there will be no crossflow between the commingled pools;
- b) none of the commingled zones exposes the others to damage by produced liquids;
- c) the fluids from each zone are compatible with the other;
- d) the bottomhole pressure of the lower pressure zones should not be less than 50 percent of the bottomhole pressure of the higher pressure zone adjusted to a common datum; and,
- e) the value of the commingled production is not less than the sum of the values of the individual production.

(17) No interest owner and/or offset operator appeared at the hearing in opposition to the application.

(18) The downhole commingling of the twenty-four wells described in Finding No. (7) above in the Dakota, Mesaverde and Gallup formations will allow the applicant the opportunity to recover additional gas reserves from the Klein-Vaughn Lease area which may otherwise not be recovered, thereby preventing waste, and will not violate correlative rights.

(19) The applicant further seeks to establish an administrative procedure whereby the Supervisor of the Aztec District Office of the Division may approve the downhole commingling of subsequently drilled wells within the Klein-Vaughn Lease area provided that the wells meet a certain economic threshold, and that sufficient information is presented to establish an allocation formula.

(20) There are relatively few new drills which will be subsequently downhole commingled within the Klein-Vaughn Lease area.

(21) Obtaining Division approval as per Division Rule No. 303(C) for a relatively few number of wells within the Klein-Vaughn Lease area does not represent an excessive regulatory burden on the applicant.

(22) The applicant should be required to obtain approval to downhole commingle Dakota, Mesaverde and Gallup production within the wellbores of subsequently drilled wells within the Klein-Vaughn Lease area from the Santa Fe Office of the Division upon submittal of the data required by Division Rule No. 303(C).

(23) The applicant should consult with the supervisor of the Aztec District Office of the Division subsequent to the completion of testing operations on the subject wells in order to determine a proper allocation of production.

(24) The operator should immediately notify the supervisor of the Aztec district office of the Division any time any of the subject wells have been shut-in for seven consecutive days and shall concurrently present, to the Division, a plan for remedial action.

IT IS THEREFORE ORDERED THAT:

(1) The applicant, Meridian Oil Inc., is hereby authorized to commingle gas production from the Basin-Dakota, Blanco-Mesaverde and Undesignated Gallup Gas Pools within the following described wells in Rio Arriba County, New Mexico:

<u>WELL NAME</u>	<u>WELL LOCATION</u>
Vaughn No. 8	Unit A, 26-26N-6W
Vaughn No. 12E	Unit C, 26-26N-6W
Vaughn No. 12	Unit K, 26-26N-6W
Vaughn No. 8E	Unit P, 26-26N-6W
Vaughn No. 13	Unit A, 27-26N-6W
Vaughn No. 14E	Unit D, 27-26N-6W
Vaughn No. 14	Unit K, 27-26N-6W
Vaughn No. 15	Unit A, 28-26N-6W
Vaughn No. 30E	Unit D, 28-26N-6W
Vaughn No. 30	Unit K, 28-26N-6W
Vaughn No. 15E	Unit P, 28-26N-6W
Vaughn No. 31	Unit B, 29-26N-6W
Vaughn No. 32E	Unit D, 29-26N-6W
Vaughn No. 31E	Unit I, 29-26N-6W
Vaughn No. 32	Unit K, 29-26N-6W
Klein No. 28E	Unit C, 33-26N-6W
Klein No. 26	Unit H, 33-26N-6W
Klein No. 28	Unit K, 33-26N-6W
Klein No. 19	Unit A, 34-26N-6W
Klein No. 19E	Unit C, 34-26N-6W
Klein No. 24E	Unit I, 34-26N-6W
Klein No. 24	Unit L, 34-26N-6W
Klein No. 27	Unit K, 35-26N-6W
Klein No. 27E	Unit O, 35-26N-6W

(2) The applicant shall consult with the supervisor of the Aztec District Office of the Division subsequent to the completion of testing the subject wells in order to determine a proper allocation of production.

(3) The operator shall immediately notify the supervisor of the Aztec district office of the Division any time any of the subject wells have been shut-in for seven consecutive days and shall concurrently present, to the Division, a plan for remedial action.

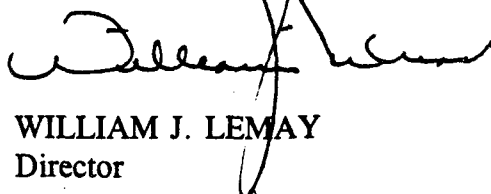
(4) Approval to downhole commingle subsequently drilled wells within the Klein-Vaughn Lease area shall be obtained from the Santa Fe Office of the Division upon submittal of the data required by Division Rule No. 303(C).

(5) Jurisdiction is hereby retained for the entry of such further orders as the Division may deem necessary.

CASE NO. 11038
Order No. R-10239
Page -7-

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION



WILLIAM J. LEMAY
Director

S E A L