

DATE: 8/25/98	SUSPENSE: 9/14/98	ENGINEER: MS	LOGGED BY: NW	TYPE: NSL
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
 - Engineering Bureau -
 2040 South Pacheco, Santa Fe, NM 87505



ADMINISTRATIVE APPLICATION COVERSHEET

THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATION FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

[NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location]
 [DD-Directional Drilling] [SD-Simultaneous Dedication]
 [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
 [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
 [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
 [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
 [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Directional Drilling

☒ NSL ☐ NSP ☐ DD ☐ SD

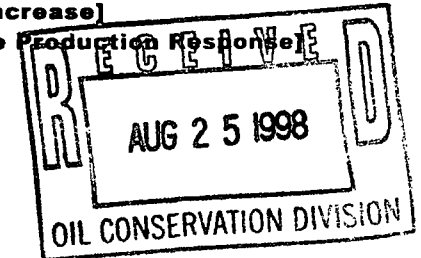
Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement

☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery

☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR



[2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or ☐ Does Not Apply

[A] ☐ Working, Royalty or Overriding Royalty Interest Owners

[B] ☐ Offset Operators, Leaseholders or Surface Owner

[C] ☐ Application is One Which Requires Published Legal Notice

[D] ☒ Notification and/or Concurrent Approval by BLM or SLO
 U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office

[E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,

[F] ☐ Waivers are Attached

[3] **INFORMATION / DATA SUBMITTED IS COMPLETE** - Certification

I hereby certify that I, or personnel under my supervision, have read and complied with all applicable Rules and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, RI, ORRI) is common. I understand that any omission of data (including API numbers, pool codes, etc.), pertinent information and any required notification is cause to have the application package returned with no action taken.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Print or Type Name

Signature

Title

Date

BURLINGTON RESOURCES

SAN JUAN DIVISION

August 20, 1998

Federal Express

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

Re: Canyon Largo Unit #388
2040'FSL, 1525'FWL, Section 3, T-25-N, R-6-W, Rio Arriba County
30-039-25277

Dear Mr. Stogner:

This is a request for administrative approval for a non-standard gas well location in the Otero Chacra pool.

Burlington Resources intends to plug and abandon the Blanco Mesa Verde pool in the Canyon Largo Unit #388 and recomplete in the Otero Chacra pool. A cast iron bridge plug will be set at 5240' above the directionally drilled section (see attached wellbore diagram) and cement placed on the bridge plug to plug and abandon the Mesa Verde.

Production from the Otero Chacra is included in a 160 acre gas spacing unit comprising of the southwest quarter (SW/4) of Section 3. This well was originally drilled and completed in the Blanco Mesa Verde pool under Order R-9911, which included the non-standard location and the horizontal drilling to 2462'FSL, 683'FEL in Section 3, T-25N, R-6-W.

To comply with the New Mexico Oil Conservation Division rules, we are submitting the following for your approval of this non-standard location:

1. C-102 plat showing location of the well;
2. Copy of Well Completion Log for original completion;
3. Plat showing offset owners/operators – Burlington is the offset operator;
4. Order R-9911

Please let me know if you have any questions concerning this application.

Sincerely yours,



Peggy Bradfield
Regulatory/Compliance Administrator

xc: New Mexico Oil Conservation Division – Aztec
Bureau of Land Management – Farmington

District Office, Hobbs, NM 88241-1900

State of New Mexico
Energy, Minerals & Natural Resources Dept.Form C-102
Revised February 01, 1994

District Office, Artesia, NM 88211-0719

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

District Office, Aztec, NM 87410

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

93 JUL 14 AM 9:36 AMENDED REPORT

District Office, Santa Fe, NM 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-039-25277		Pool Code 82329/72319		Pool Name Otero Chacra/Blanco Mesaverde					
Property Code 6886		Property Name CANYON LARGE UNIT						Well Number 388	
MID No. 14538		Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY						Elevation 5740	
10 Surface Location									
Section 3	Township 25N	Range 6W	Lot 2040	Feet from the 2040	North/South line SOUTH	Feet from the 1625	East/West line WEST	County RIO ARriba	
11 Bottom Hole Location if Different From Surface									
Section 3	Township 25N	Range 6W	Lot 2452	Feet from the 2452	North/South line SOUTH	Feet from the 583	East/West line EAST	County RIO ARriba	
12 Cemented Acres		13 Joint or Infill		14 Consolidation Code		15 Order No.			

NO DOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

<p>NOT RESURVEYED, PREPARED FROM A PLAT DATED 3-26-93 BY NEALE C. EDWARDS</p>		<p>OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><i>Peggy A. Bradfield</i> Signature</p> <p>Peggy A. Bradfield Printed Name</p> <p>Regulatory Administrator Title</p> <p>Date</p>	
<p>1625'</p> <p>2040'</p> <p>2640 2040 600</p>		<p>SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from valid notes of actual survey made to me or under my supervision and that the same is true and correct to the best of my belief.</p> <p>JUNE 25, 1998 Date of Survey</p> <p><i>Neale C. Edwards</i> Signature and Seal</p> <p>NEALE C. EDWARDS NEW MEXICO 6852 Professional Surveyor</p> <p>Certificate No. 6852</p>	

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

FOR APPROVED
OMB NO. 1004-0137
Expires: December 31, 1991

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other ☐
b. TYPE OF COMPLETION: NEW WELL ☐ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. CONVR. ☐ Other ☐ 070 FARMINGTON, NM

2. NAME OF OPERATOR
Meridian Oil Inc Unit K

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 2040' FSL, 1625' FWL
At top prod. interval reported below
At total depth 2462' FSL, 683' FEL
Sec 3, T-25-N, R-6-W

CONFIDENTIAL

14. PERMIT NO. DD R-9911

DATE ISSUED

5. LEASE DESIGNATION AND SERIAL NO.
SE-078885

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
Canyon Largo Unit

8. FARM OR LEASE NAME, WELL NO.
Canyon Largo Unit #388

9. API WELL NO.
30-039-25277

10. FIELD AND POOL, OR WILDCAT
Blanco Mesaverde

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
Sec 3, T-25-N, R-6-W

12. COUNTY OR PARISH
Rio Arriba

13. STATE
NM

15. DATE SPUDDED 8-27-93 16. DATE T.D. REACHED 9-14-93 17. DATE COMPL. (Ready to prod.) 2-25-94 18. ELEVATIONS (OF RKB, RT, GR, ETC.)* 6741 GR 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 5404-MD 5100 TVD 21. PLUG, BACK T.D., MD & TVD 22. IF MULTIPLE COMPL., HOW MANY* 23. INTERVALS DRILLED BY 10-5404 ROTARY TOOLS CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 25. WAS DIRECTIONAL SURVEY MADE

5190-5196 Mesaverde
26. TYPE ELECTRIC AND OTHER LOGS RUN GR 27. WAS WELL CORED No

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 PULLED
9 5/8	36#	226	12 1/4	236 cu.ft.	
7	23#	5335	7 7/8	1753 cu.ft.	

LINER RECORD					TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	BACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 7/8	5229	

31. PREPARATION RECORD (Interval, size and number)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
5190-5196		DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
			None

23. PRODUCTION							
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
		Flowing				SI	
DATE OF TEST	HOURS TESTED	CHOKER SIZE	PROD'N. FOR TEST PERIOD	OIL—BSL.	GAS—MCF.	WATER—BSL.	GAS-OIL RATIO
11-30-93	3	3/4			TSTM		
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BSL.	GAS—MCF.	WATER—BSL.	OIL GRAVITY-API (CORR.)	
	SI-492			TSTM			

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) TEST WITNESSED BY

35. LIST OF ATTACHMENTS To be Sold

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

SIGNED [Signature] TITLE Regulatory Affairs DATE 8-24-94

*(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.

OPERATOR

BY

BURLINGTON RESOURCES OIL AND GAS COMPANY

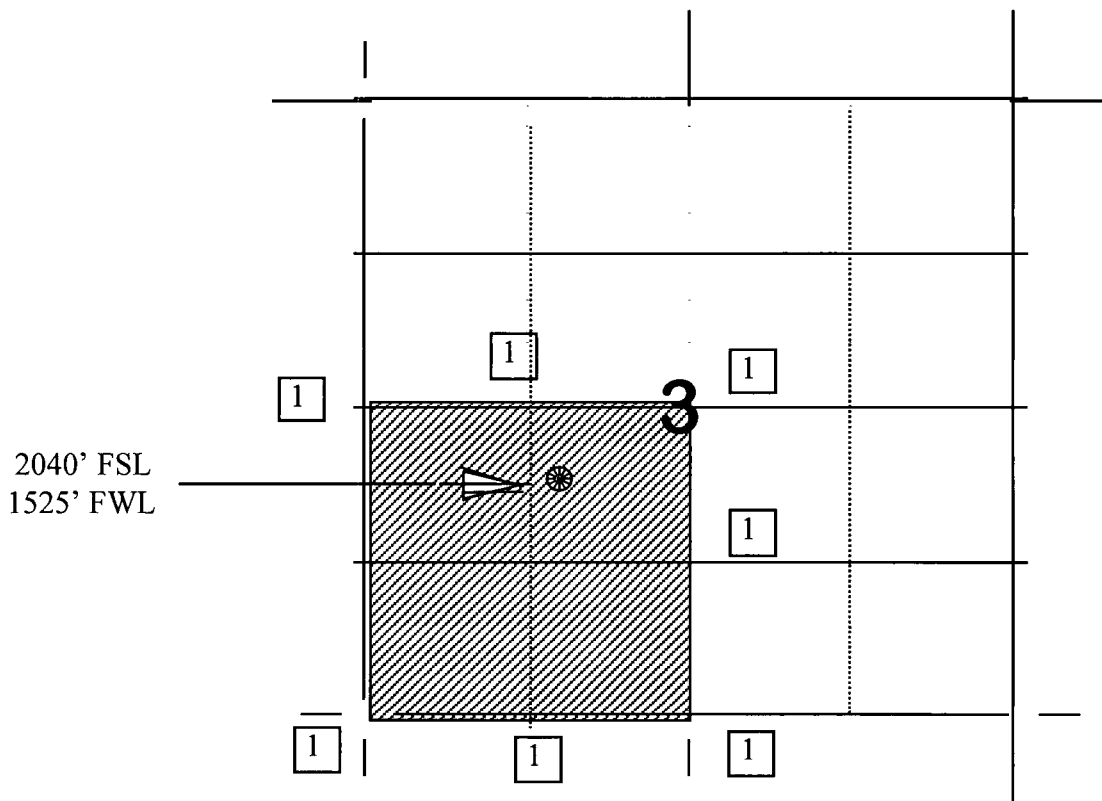
OFFSET OPERATOR/OWNER PLAT

Canyon Largo Unit #388

Non Standard Location

Chacra Formation Well

Township 25 North, Range 6 West



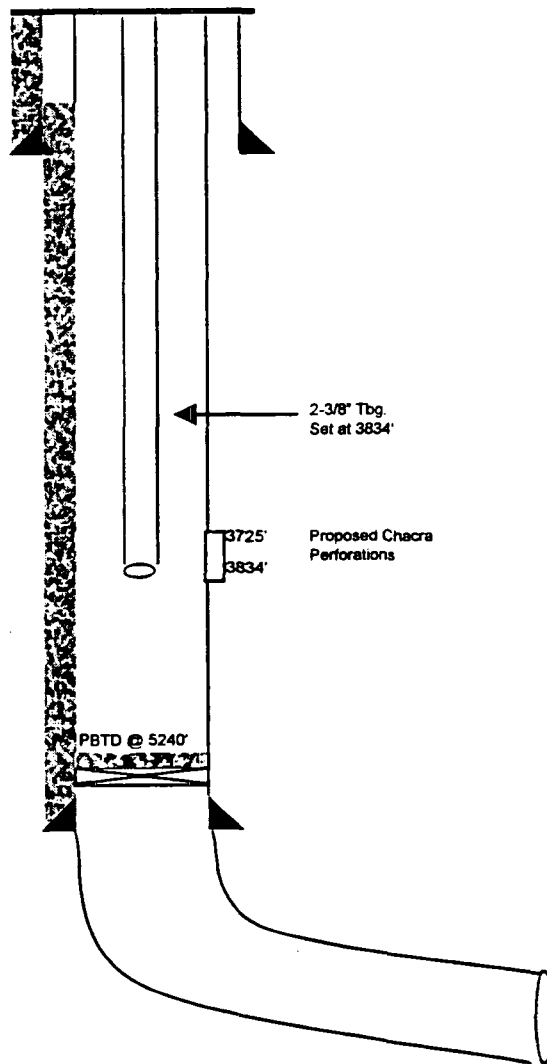
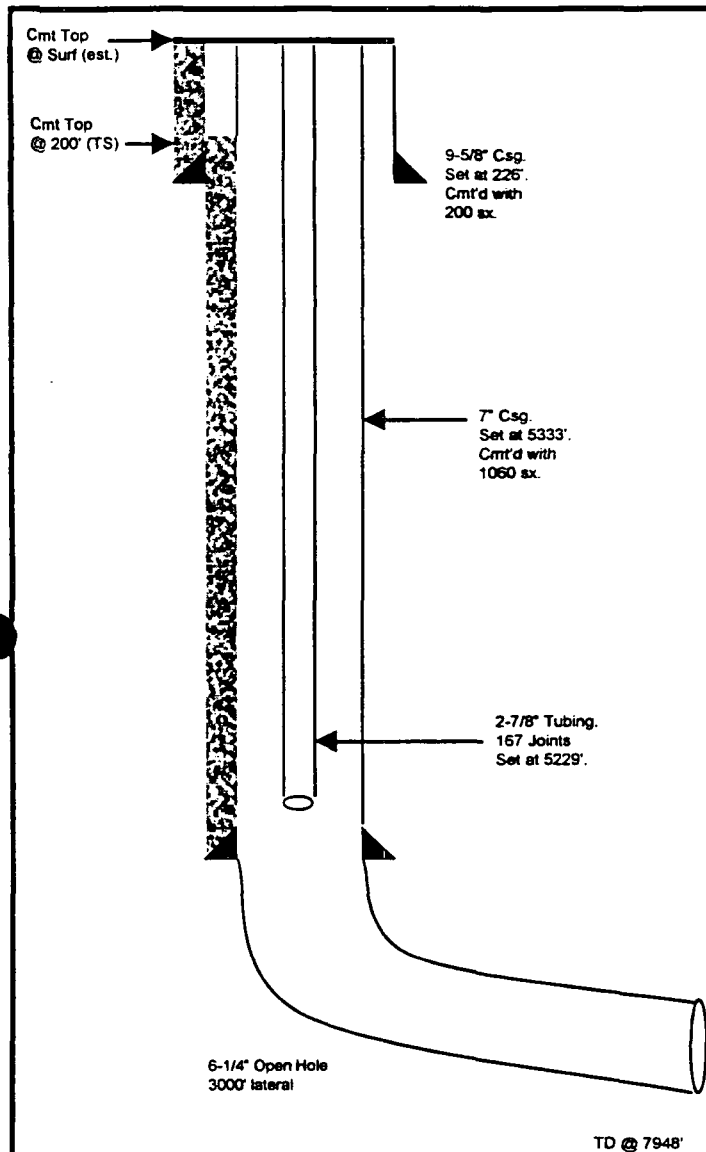
1) Burlington Resources

Canyon Largo Unit #388

Lat: 36° - 25.59816'/Long: 107° - 27.46032'
Unit K, Section 3, T25N, R6W
Rio Arriba County, NM

Current Schematic

Proposed Schematic



Blm
NSP

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. 10729
Order No. R-9911

APPLICATION OF MERIDIAN OIL INC.
FOR A HIGH ANGLE/HORIZONTAL DIRECTIONAL
DRILLING PILOT PROJECT, SPECIAL OPERATING
RULES THEREFOR, A SPECIAL PROJECT GAS
ALLOWABLE AND A NON-STANDARD GAS SPACING
AND PRORATION UNIT, RIO ARriba COUNTY,
NEW MEXICO.

RECEIVED
JUN 15 1993
OIL CON. DIV
DIST. 3

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 8:15 a.m. on May 20, 1993, at Santa Fe, New Mexico, before Examiner David R. Catanach.

NOW, on this 10th day of June, 1993, 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 authority to initiate a high angle/horizontal directional drilling pilot project in the Blanco-Mesaverde Pool underlying all of Section 3, Township 25 North, Range 6 West, NMPM, Rio Arriba County, New Mexico, thereby creating a non-standard 642.52-acre gas spacing and proration unit for said pool.

(3) The applicant proposes to drill its Canyon Largo Unit Well No. 388 from a standard surface location 2040 feet from the South line and 1625 feet from the West line (Unit K) of Section 3 in the following unconventional manner:

Drill vertically to a depth of approximately 4,707 feet, kick off from the vertical at this depth and drill in an east-northeast direction building angle to approximately 88 degrees so as to penetrate the upper portion of the Point Lookout formation at a true vertical depth of approximately 5,095 feet. Continue drilling horizontally a distance of approximately 2,600 feet.

(4) The applicant further seeks:

- a) the adoption of special operating provisions and rules within the pilot project area including the designation of a prescribed area limiting the horizontal displacement of said well's producing interval such that it can be no closer than 790 feet from the outer boundary of Section 3;
- b) approval of a 642.52-acre non-standard gas spacing and proration unit comprising all of Section 3;
- c) a special project gas allowable calculated by utilizing an acreage factor of 2.0 in the gas allowable formula.

(5) The proposed well is located within the boundaries of the Blanco-Mesaverde Pool and is therefore subject to the Special Rules and Regulations for said pool and the General Rules for the Prorated Gas Pools of New Mexico, both contained within Division Order No. R-8170, as amended.

(6) According to applicant's geologic evidence, the proposed well is located at the southwest edge of the Blanco-Mesaverde Pool. The proposed well is designed to test the effectiveness of horizontal drilling in recovering gas from an area of the pool which has limited potential for gas recovery from conventional vertical wellbores.

(7) The potentially productive zone in the subject wellbore is the Point Lookout interval. The Point Lookout interval is characterized by natural fractures oriented in a north-northeast south-southwest direction.

(8) Through its evidence and testimony, the applicant demonstrated that the proposed horizontal wellbore should encounter a substantially greater number of natural fractures within the Point Lookout interval than would a conventional wellbore, which should substantially increase the productivity of the subject well and which should ultimately result in the recovery of a greater amount of gas from the proposed project area, thereby preventing waste.

(9) The evidence further indicates that the subject wellbore, which should traverse both the W/2 and E/2 of Section 3, should effectively drain and develop all of Section 3.

(10) There is currently no other wellbore in Section 3 producing from the Blanco-Mesaverde Pool.

(11) The proposed well is located within the Canyon Largo Unit, a federal exploratory unit formed in 1953 which is currently operated by the applicant.

(12) The applicant is the only working interest owner in Section 3.

(13) Merrion Oil and Gas Corporation and Robert Bayless, the only two offset operators, were notified of the application in this case and did not appear at the hearing in opposition.

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

(15) The aforementioned prescribed area limiting the horizontal displacement of the wellbore would allow for flexibility, serve to minimize risk, maximize the success of such a completion, and would serve to protect correlative rights.

(16) In the interest of conservation, prevention of waste, and protection of correlative rights, the application of Meridian Oil Inc. for a high angle/horizontal directional drilling project should be approved.

(17) The subject well and project area should be assigned a gas allowable calculated by utilizing an acreage factor of 2.0 in the gas allowable formula for the Blanco-Mesaverde Pool.

(18) The applicant should be required to determine the actual location of the kick-off point prior to commencing directional drilling operations. Also, the applicant should be required to conduct a directional survey on the lateral portion of the wellbore during or after completion of drilling operations.

(19) The applicant should notify the supervisor of the Aztec district office of the Division of the date and time of conductance of any directional surveys in order that the same may be witnessed.

(20) The applicant should be required to submit copies of all directional surveys conducted on the subject well to both the Santa Fe and Aztec offices of the Division.

IT IS THEREFORE ORDERED THAT:

(1) The applicant, Meridian Oil Inc., is hereby authorized to initiate a high angle/horizontal directional drilling pilot project in Section 3, Township 25 North, Range 6 West, NMPM, Rio Arriba County, New Mexico, by drilling its Canyon Largo Unit Well No. 388 from a standard surface location 2040 feet from the South line and 1625 feet from the West line (Unit K) of Section 3 in the following unconventional manner:

Drill vertically to a depth of approximately 4,707 feet, kick off from the vertical at this depth and drill in an east-northeast direction building angle to approximately 88 degrees so as to penetrate the upper portion of the Point Lookout formation at a true vertical depth of approximately 5,095 feet. Continue drilling horizontally a distance of approximately 2,600 feet.

PROVIDED HOWEVER THAT, no portion of the horizontal portion of the wellbore shall be located closer than 790 feet from the outer boundary of the project area.

(2) All of Section 3 shall be dedicated to the above-described well forming a non-standard 642.52-acre gas spacing and proration unit, also hereby approved.

(3) The subject well and project area shall be assigned a gas allowable calculated by utilizing an acreage factor of 2.0 in the gas allowable formula for the Blanco-Mesaverde Pool.

(4) The applicant shall determine the actual location of the kick-off point prior to commencing directional drilling operations. Also, the applicant shall conduct a directional survey on the lateral portion of the wellbore during or after completion of drilling operations.

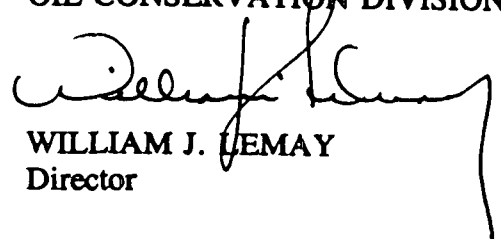
(5) The applicant shall notify the supervisor of the Aztec district office of the Division of the date and time of conductance of any directional surveys in order that the same may be witnessed.

(6) The applicant shall submit copies of all directional surveys conducted on the subject well to both the Santa Fe and Aztec offices of the Division.

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

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

CMD :
OG5SECT

ONGARD
INQUIRE LAND BY SECTION

09/02/98 08:57:42
OGOIV -EMDY
PAGE NO: 2

Sec : 03 Twp : 25N Rng : 06W Section Type : NORMAL

L 40.00 Federal owned U	K 40.00 Federal owned U A A	J 40.00 Federal owned U A	I 40.00 Federal owned U
M 40.00 Federal owned U A	N 40.00 Federal owned U	O 40.00 Federal owned U	P 40.00 Federal owned U

PF01 HELP
PF07 BKWD

PF02
PF08 FWD

PF03 EXIT
PF09 PRINT

PF04 GoTo
PF10 SDIV

PF05
PF11

PF06
PF12

CMD :
OG6ACRE

ONGARD
C102-DEDICATE ACREAGE

09/02/98 08:58:23
OGOIV -EMDY
Page No : 1

API Well No : 30 39 25277 Eff Date : 07-30-1998
Pool Idn : 82329 OTERO CHACRA (GAS)
Prop Idn : 6886 CANYON LARGO UNIT Well No : 388
Spacing Unit : 50810 OCD Order : Simultaneous Dedication:
Sect/Twp/Rng : Acreage : 160.00 Revised C102? (Y/N) :
Dedicated Land:

S	Base	U/L	Sec	Twp	Rng	Acreage	L/W	Ownership	Lot	Idn
	K		3	25N	06W	40.00	N	FD		
	L		3	25N	06W	40.00	N	FD		
	M		3	25N	06W	40.00	N	FD		
	N		3	25N	06W	40.00	N	FD		

E0043: Record found; Authority denied to MODIFY/ADD

PF01 HELP	PF02	PF03 EXIT	PF04 GoTo	PF05	PF06 CONFIRM
PF07 BKWD	PF08 FWD	PF09	PF10 LAND	PF11 NXTSEC	PF12 RECONF

CMD :
OG6IWCM

ONGARD
INQUIRE WELL COMPLETIONS

09/02/98 08:58:16
OGOIV -EMDY

API Well No : 30 39 25277 Eff Date : 07-30-1998 WC Status : A
Pool Idn : 82329 OTERO CHACRA (GAS)
OGRID Idn : 14538 BURLINGTON RESOURCES OIL & GAS CO
Prop Idn : 6886 CANYON LARGO UNIT

Well No : 388
GL Elevation: 6741

	U/L	Sec	Township	Range	North/South	East/West	Prop/Act (P/A)
	---	---	-----	-----	-----	-----	-----
B.H. Locn : K	3	25N	06W	FTG 2040 F S	FTG 1625 F W		P

Lot Identifier:

Dedicated Acre: 160.00

Lease Type : F

Type of consolidation (Comm, Unit, Forced Pooling - C/U/F/O) :

PF01 HELP	PF02	PF03 EXIT	PF04 GoTo	PF05	PF06
PF07	PF08	PF09	PF10 NEXT-WC	PF11 HISTORY	PF12 NXTREC

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

(See other in-
structions on
reverse side)FOR APPROVED
OMB NO. 1004-0137

Expires: December 31, 1991

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> Other <input type="checkbox"/>		2. NAME OF OPERATOR BURLINGTON RESOURCES OIL & GAS COMPANY		9. API WELL NO. 130-039-25277	
3. TYPE OF COMPLETION: NEW WELL <input type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input checked="" type="checkbox"/> DIFF. RESVR <input checked="" type="checkbox"/> Other <input type="checkbox"/>		4. ADDRESS AND TELEPHONE NO. PO BOX 4289, Farmington, NM 87499 (505) 326-9700		10. FIELD AND POOL OR WILDCAT Loter Chacra/Blanco Mesaverde	
5. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 2040'FSL, 1625'FWL. At top prod. interval reported below At total depth		6. PERMIT NO. DATE ISSUED		11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Sec. 3, T-25-N, R-6-W	
7. DATE SPUDDED 8-27-93		8. DATE T.D. REACHED 9-14-93		12. COUNTY OR PARISH Rio Arriba	
9. DATE COMPLETION (Ready to prod.) 7-30-98		10. ELEVATIONS (OF, RKB, RT, BR, ETC.)* 6741 GR		13. STATE New Mexico	
11. TOTAL DEPTH, MD & TVD TMD: 5404, TVD 5100		12. PLUG BACK T.D., MD & TVD CIBP @ 5202 w/cmt		13. IF MULTIPLE COMPLET. HOW MANY*	
14. PRODUCTION INTERVAL (S) OF THIS COMPLETION-TOP, BOTTOM, NAME (MD AND TVD)* 3729-3842 Chacra		15. WAS DIRECTIONAL SURVEY MADE		16. WAS WELL CORED No	
27. TYPE ELECTRIC AND OTHER LOGS RUN CNL-GR, CBL-CCL-GR					
28. CASING RECORD (Report all strings set in well)					
CASING SIZE/GRADE		WEIGHT, LB./FT.		DEPTH SET (MD)	
9 5/8		36#		226	
7		23#		5335	
29. LINER RECORD					
SIZE		TOP (MD)		BOTTOM (MD)	
30. TUBING RECORD					
SIZE		DEPTH SET (MD)		PACKER SET (MD)	
2 3/8		3851			
31. PERFORATION RECORD (Interval, size and number) 3729, 3731, 3734, 3735, 3736, 3739, 3746, 3839, 3840, 3842					
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.					
DEPTH INTERVAL (MD)		AMOUNT AND KIND OF MATERIAL USED			
3729-3842		434 bbl 25# linear gel, 82,000# 20/40 Arizona sd			
		803,740 SCF N2			
33. PRODUCTION					
DATE FIRST PRODUCTION 7-30-98		PRODUCTION METHOD (Flowing, gas lift, pumping—Size and type of pump) Flowing			WELL STATUS (Producing or shut-in) SI
DATE OF TEST 7-30-98		HOURS TESTED		CHOKE SIZE	
FLOW, TUBING PRESS.		CASING PRESSURE		CALCULATED 24-HOUR RATE	
		SI 290			
34. DISPOSITION OF GAS (Sold, used for fuel, vented, 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

Nancy Olthoff

TITLE Regulatory Administrator

ACCEPTED FOR RECORD
DATE 8-6-98

*(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.

FARMINGTON DISTRICT OFFICE

37. SUMMARY OF LOGGING (When an interval is tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

38.

GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
Ojo Alamo	2158'	2390'	White, cr-gr ss.	Ojo Alamo	2158'	
Kirtland	2390'	2615'	Gry sh interbedded w/tight, gry, fine-gr ss.	Kirtland	2390'	
Fruitland	2615'	2855'	Dk gry-gry carb sh, coal, grn silts, light-med gry, tight, fine gr ss.	Fruitland	2615'	
Pictured Cliffs	2855'	2900'	Br-gry, fine grn, tight ss.	Pic. Cliffs	2855'	
Mesa Verde	4515'	4530'	Med-dark gry, fine gr ss, carb sh & coal	Mesa Verde	4515'	
Menefee	4530'	5073'	Med-dark gry, fine gr ss, carb sh & coal	Menefee	4530'	
Point Lookout	5073'		Med-light gry, very fine gr ss w/frequent sh breaks in lower part of formation	Pt. Lookout	5073'	

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Sundry Notices and Reports on Wells

1. Type of Well
GAS

2. Name of Operator

**BURLINGTON
RESOURCES**

OIL & GAS COMPANY

3. Address & Phone No. of Operator

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

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

2040' FSL, 1625' FWL, Sec. 3, T-25-N, R-6-W, NMPM

7. Unit Agreement Name

Lease Number

SF-078885

If Indian, All. or
Tribe Name

Canyon Largo Unit

Well Name & Number

Canyon Largo U #388

API Well No.

30-039-25277

10. Field and Pool

Otero Cha/Blanco MV

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

7-23-98 MIRU. ND WH. NU BOP. TOOH w/167 jts 2 7/8" tbg. TIH w/gauge ring to 5205'.
(Verbal approval to set CIBP @ approximately 5205' from Steve Mason, BLM).
TOOH. TIH w/7" CIBP, set @ 5143'. TOOH. TIH ran CBL-CCL-GR @ 740-5143',
TOC @ 1100'. Ran CNL-GR @ 3000-4000'. TOOH. SDON.

7-24-98 TIH w/6 1/4" bit to CIBP @ 5143'. Push CIBP to 5203'. Establish circ. Drill
on CIBP, lost circ. Dried up wellbore. Drill to 5321'. SDON.

7-25-98 TOOH. TIH w/CIBP, set @ 5202'. Pump 9 sx Class "B" neat cmt on top of CIBP.
TOOH to 3850'. Circ hole clean. Spot 300 gal 15% HCl @ 3677-3850'. TOOH.
TIH, perf lower Chacra w/2 SPF @ 3729, 3731, 3734, 3735, 3736, 3739, 3746,
3839, 3840, 3842' w/20 0.3" diameter holes total. Acidize w/1000 gal 15%
HCl. SD for Sunday.

7-27-98 Frac lower Chacra w/434 bbl 25# linear gel, 82,000# 20/40 Arizona sd, 803,740
SCF N2. SI for gel break. CO after frac.

7-28/29-98 Blow well & CO.

7-30-98 Blow well & CO. TOOH. TIH w/123 jts 2 3/8" 4.7# J-55 EUE tbg, landed @ 3851'.
ND BOP. NU WH. RD. Rig released.

Well will produce as a single Chacra. The Mesaverde formation is plugged and abandoned.

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

Signed *Sam D. Dard* Title Regulatory Administrator Date 8/3/98
no

(This space for Federal or State Office use)

APPROVED BY _____ Title _____

CONDITION OF APPROVAL, if any: _____

Date _____

ACCEPTED FOR RECORD

AUG 19 1998

FARMINGTON DISTRICT OFFICE

NMCCS

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
BLM

Sundry Notices and Reports on Wells

98 JUL 14 AM 9:36

1. Type of Well
GAS

2. Name of Operator

**BURLINGTON
RESOURCES**

OIL & GAS COMPANY

3. Address & Phone No. of Operator

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

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

2040' FSL, 1625' FWL, Sec. 3, T-25-N, R-6-W, NMPM

5. Lease Number

SF - 078885

6. If Indian, All. or
Tribe Name

7. Unit Agreement Name
Canyon Largo Unit

8. Well Name & Number

Canyon Largo Unit #388

9. API Well No.

30-039-25277

10. Field and Pool

Blanco MV/Otero Chacra

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 recompleate the subject well in the Chacra formation and plug and abandon the Mesaverde formation according to the attached procedure and wellbore diagram.

RECEIVED
JUL 17 1998
OIL CON. DIV.
DIST. 3

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

Signed *Regina B. Shadfield* Title Regulatory Administrator Date 7/13/98
VKH

(This space for Federal or State Office use)

APPROVED BY /s/ Duane W. Spencer Title _____ Date JUL 15 1998

CONDITION OF APPROVAL, if any:

Hold C-104 FOR NSL

11000

District Office
PO Box 100 Hobbs, NM 88241-1900

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised February 11, 1994

District Office
PO Box 100 Artesia, NM 88211-0719

OIL CONSERVATION DIVISION

Submit to Appropriate District Office

State Lease - 4 Copies
Fee Lease - 3 Copies

District Office
1000 W. Prozac Rd., Aztec, NM 87410

PO Box 2088
Santa Fe, NM 87504-2088

98 JUL 14 AM 9:36 ☐ AMENDED REPORT

District Office
PO Box 100 Santa Fe, NM 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-039-25277		Pool Code 82329/72319		Pool Name Otero Chacra/Blanco Mesaverde					
Property Code 6886		Property Name CANYON LARGE UNIT						Well Number 388	
Record No. 14538		Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY						Elevation 5741	
10 Surface Location									
Section 3	Township 25N	Range 6W	Lot Idn	Feet from the 2040	North/South line SOUTH	Feet from the 1625	East/West line WEST	County RIO ARriba	
11 Bottom Hole Location If Different From Surface									
Section 3	Township 25N	Range 6W	Lot Idn	Feet from the 2462	North/South line SOUTH	Feet from the 683	East/West line EAST	County RIO ARriba	
12 General Survey		13 Joint or Infill		14 Consolidation code		15 Order No.			

NO LEASABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	<p>10 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><i>Peggy A. Bradfield</i> Signature</p> <p>Peggy A. Bradfield Printed Name</p> <p>Regulatory Administrator Title</p> <p>_____ Date</p>
	<p>12 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>JUNE 25, 1998 Date of Survey</p> <p>_____ Signature and Seal of Surveyor</p> <p>NEALE C. EDWARDS NEW MEXICO 6857 REGISTERED PROFESSIONAL SURVEYOR</p> <p>_____ Certificate Number</p>

Canyon Largo Unit #388
Chacra Recompletion Procedure
Unit K, Section 3, T25N, R6W
Lat: 36° - 25.59816' Long: 107° - 27.46032'

It is intended to recomplete the Chacra in this shut in Mesaverde completion. The Chacra will be sand fracture stimulated in a single stage with a total of 82,000 lbs 20/40 sand using a 70Q 25 lb linear gel for transport.

Canyon Largo Unit #388 is currently a 1998 demand well.

1. Inspect location and test rig anchors, if necessary. Comply with all NMOC, BLM, Forestry & BR rules and regulations. Dig flowback pit or set flowback tank. Haul to location a 4100' inspected 2-3/8" tubing string, 5 joints 2-7/8" tubing and 3, 400 bbl frac tanks.
2. MIRU. Record and report SI pressures on tubing, casing and bradenhead. Fill frac tanks with 2% KCL. Lay blowdown line. Blow well down and kill with 2% KCL water as necessary. ND WH and NU BOP with flow tee and stripping head. Test operation of rams. NU blooie line and 2-7/8" relief line.
3. TOOH with 2-7/8", 6.5 lb/ft Mesaverde production string set at \pm 5229'. Stand back 2-7/8" production string.
4. RU logging company. Run gauge ring for 7", 23 lb/ft casing to 5300'. RIH with 7" CIBP and set at 5290'. Fill casing. Run GR-CBL-CCL from PBTD to top of cement with 1000 psi surface pressure. Bleed off pressure. Run GR-CNL log from 4000 to 3000'. Evaluate CBL and send log copies to drilling and production. Good cement bond must exist across Chacra (3600-3900') to continue. RD logging company.
5. RIH with 7" packer and 2 joints of 2-7/8". Set packer for wellhead isolation. Pressure test casing and CIBP to 4000 psi (90% burst). Bleed off pressure. Release packer and TOOH. TIH with open ended 2-7/8" tubing string to top of CIBP. PU additional 2-7/8" joints as needed.
6. RU pumping contractor. Spot 9 sx cement (~50') on top of CIBP. PUH and reverse circulate tubing clean. PUH to 3840' and spot 300 gals 15% HCL across Chacra perf interval 3725-3840'. RD pumping contractor. TOOH. LD 2-7/8" tubing pulled from well. Stand back one 2-7/8" stand for wellhead isolation.

All acid on this well to contain the following additives per 1000 gals.

2 gal	HAI-81M	Corrosion inhibitor
5 gal	FE-1A	Iron Control
5 gal	FE-2A	Iron Control
1 gal	SSO-21	Surfactant
1 gal	Cla Sta XP	Clay control

7. **Contact J. L. Dobson at 599-4026 to confirm perforation depths. Perforation depths may change based on the GR-CNL.**

Canyon Largo Unit #388
1998 Discretionary Chacra Recompletion

8. RU wireline services. RIH with 3-1/8" select fire carrier guns loaded with Owens 3125306P HSC 12 gm charges set at 2 SPF. (Av. perf diameter - 0.30", Av. pen. -17.48" in concrete). Perf the lower Chacra with **20 holes** from top down. RD wireline services.

3725', 3727', 3729', 3734', 3736', 3738', 3742', 3825', 3832', 3834'
9. RIH with 7" packer and 2 joints 2-7/8" tubing for wellhead isolation. Set packer.
10. RU stimulation company. Hold a tailgate safety meeting. Pressure test surface treating lines to 5000 psi. Breakdown Chacra with 1000 gals 15% HCL acid. Evenly space **40, 7/8" 1.3 sp gr RCN perf balls** throughout the job for diversion. Attempt to ball off to 3800 psi. Record ISIP. Use same acid additives as in Step 6. RD stimulation company.
11. Release packer and TOOH. RU wireline. RIH with junk basket to PBTD. Record recovery and number of hits. RD wireline. TIH with 7" packer and 2 joints 2-7/8" tubing for wellhead isolation. Set packer.
12. RU stimulation company. **Maximum surface treating pressure is 4000 psi.** Fracture stimulate Chacra down the 7" casing with 55,000 gals of 70 quality foam using 25 lb linear gel as the base fluid and 82,000 lbs 20/40 Arizona sand. Pump at **50 BPM**. Monitor surface treating pressures, rate, foam quality and sand concentration with computer van. **Sand is to be tagged with 3 RA tracers.** Estimated treating pressure is 3186 psi. Estimated casing friction is negligible. Treat per the following schedule:

Stage	Downhole Foam Volume (gals)	Clean Gel Volume (gals)	N2 Volume (MSCF)	Sand Volume (lbs)
Pad	10,000	3,000	161.0	
0.5 ppg	4,000	1,200	64.3	2,000
1.0 ppg	10,000	3,000	160.8	10,000
2.0 ppg	10,000	3,000	160.6	20,000
3.0 ppg	10,000	3,000	160.5	30,000
4.0 ppg	5,000	1,500	80.2	20,000
Flush	5,994	1,798	96.5	0
Totals	54,994	16,498	883.9	82,000

Treat frac fluid w/ the following additives per 1000 gallons:

* 0.18 lb/M	BE-6	Biocide
* 6.25 gal/M	LGC-8	Gel
* 5.0 gal/M	AQF-2	Foamer
* 1.0 gal/M	SSO-21	Surfactant
* 0.5 lb/M	GBW-3	Breaker
* 0.5 lb/M	SP	Breaker

Shut well in after frac and record ISIP, 5, 10 and 15 shut-in pressure. RD stimulation company.

13. Flow well back after 30 minutes to 1 hour through a choke manifold. Open well to pit, starting with a 10/64" choke. If minimal sand is being produced, change to a larger choke size (16/64"). If choke plugs off, shut well in and remove obstruction from choke and return to flowback. Continue increasing choke size and cleaning well up until fluid returns

Canyon Largo Unit #388
1998 Discretionary Chacra Recompletion

- are negligible. Once pressures allow, release packer and TOOH. LD 2-7/8" tubing and packer.
14. PU and TIH with notched collar on 2-3/8" tbg. Blow well clean with air/mist to 4000'. PUH and continue to alternate between natural flow and blow periods for clean up. **Obtain pitot gauges when possible.** Continue to blow well clean with air/mist until water production is less than 1 BPH and sand production is a trace or less. TOOH.
15. Rabbit and TIH with an expendable check, one joint 2-3/8" tubing, standard seating nipple and remaining 2-3/8" tubing. Tag 4000' for sand fill up. If needed, circulate sand off bottom with air. PUH and land tubing at bottom perforation. ND BOP. NU WH. Pump off expendable check. Contact Production Operations for well tie-in. RDMO.
16. RU Pro-Technics. Run After-Frac log from 3850-3700'. RD Pro-Technics.

Recommended: J. L. Dobson
Production Engineer

Approved: Bruce W. Bony 6-17-99
Drilling Superintendent

Approved: [Signature]
Team Leader

VENDORS:

Fracturing:	Dowell	325-5096
Wireline:	Basin	327-5244
RA Tag:	Pro-Technics	326-7133

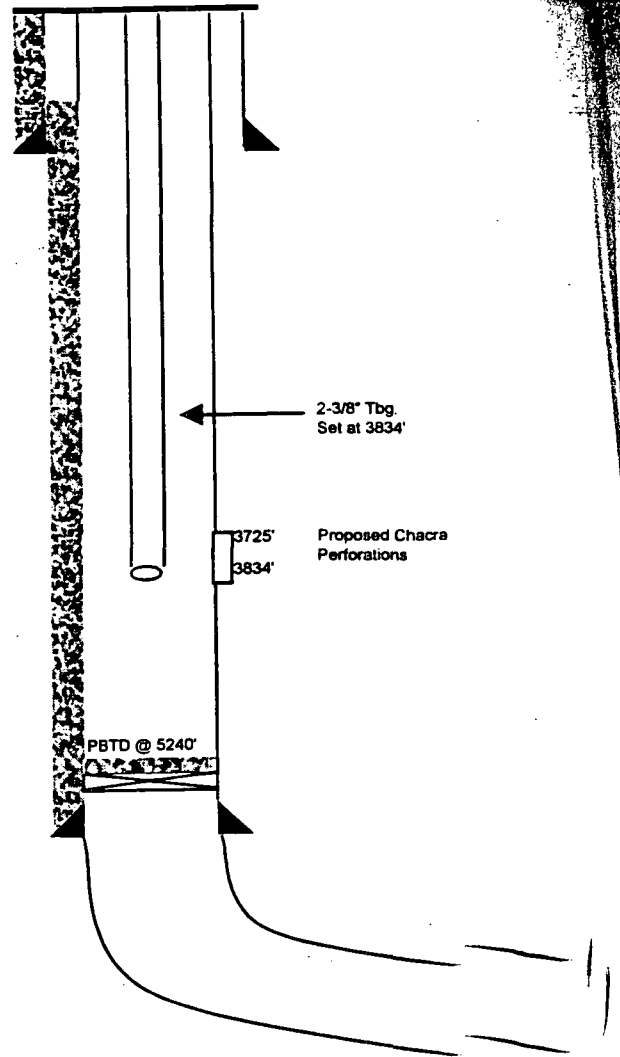
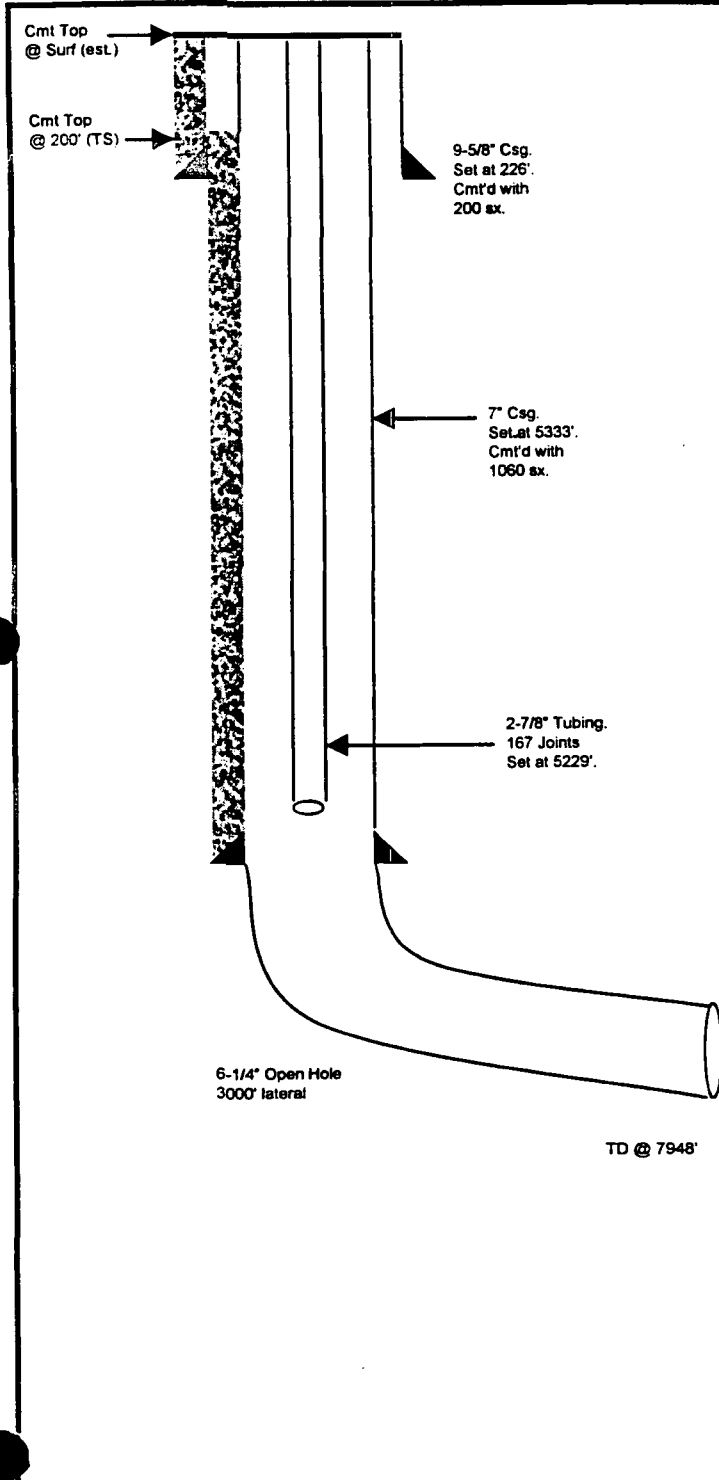
Jennifer Dobson	599-4026 (work)	564-3244 (home)	324-2461 (pager)
-----------------	-----------------	-----------------	------------------

Canyon Largo Unit #388

Lat: 36° - 25.59816'/Long: 107° - 27.46032'
Unit K, Section 3, T25N, R6W
Rio Arriba County, NM

Current Schematic

Proposed Schematic



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
BLM

Sundry Notices and Reports on Wells

98 APR -9 PM 1:16

1. Type of Well
GAS

070 FARMINGTON, NM

5. Lease Number
SF - 078885
6. If Indian, All. or
Tribe Name

2. Name of Operator

**BURLINGTON
RESOURCES**

OIL & GAS COMPANY

7. Unit Agreement Name
Canyon Largo Unit

3. Address & Phone No. of Operator

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

8. Well Name & Number
Canyon Largo Unit #388

9. API Well No.
30-039-25277

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

2040' FSL, 1625' FWL, Sec. 3, T-25-N, R-6-W, NMPM

10. Field and Pool
Blanco Mesaverde

11. County and State
Rio Arriba Co, NM

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

Type of Submission

☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment

Type of Action

☐ Abandonment ☐ Change of Plans
☒ Recompletion ☐ New Construction
☐ 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 recomplate the subject well in the Chacra formation
during 1998.

RECEIVED
APR 27 1998
BLM

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

Signed Duane W. Spencer Title Regulatory Administrator Date 4/9/98
VKH

(This space for Federal or State Office use)
APPROVED BY Duane W. Spencer Title _____

Date APR 24 1998

CONDITION OF APPROVAL, if any:

Held C-104 for NGL & Plat
②

District I
PO Box 1980, Hobbs, NM 88241-1980

District II
P.O 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

Form C-104
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office
5 Copies

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

☐ AMMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator Name and Address Burlington Resources Oil & Gas PO Box 4289 Farmington, NM 87499		² OGRID Number 14538
		³ Reason for Filing Code CO - 7/11/96
⁴ API Number 30-039-25277	⁵ Pool Name BLANCO MESAVERDE (PRORATED GAS	⁶ Pool Code 72319
⁷ Property Code 006886	⁸ Property Name CANYON LARGO UNIT	⁹ Well Number #388

II. ¹⁰ Surface Location

UI or lot no. K	Section 3	Township 025N	Range 006W	Lot.Idn	Feet from the 2040	North/South Line S	Feet from the 1625	East/West Line W	County RIO ARriba
--------------------	--------------	------------------	---------------	---------	-----------------------	-----------------------	-----------------------	---------------------	----------------------

¹¹ Bottom Hole Location

UI or lot no.	Section	Township	Range	Lot.Idn	Feet from the	North/South Line	Feet from the	East/West Line	County
¹² Lse Code	¹³ Producing Method Code		¹⁴ Gas Connection Date		¹⁵ C-129 Permit Number		¹⁶ C-129 Effective Date		¹⁷ C-129 Expiration Date

III. Oil and Gas Transporters

¹⁸ Transporter OGRID 7057	¹⁹ Transporter Name and Address EL PASO FIELD SERVICES P.O. BOX 1492 EL PASO, TX 79978	²⁰ POD	²¹ O/G G	²² POD ULSTR Location and Description K-03-T025N-R006W

IV. Produced Water

²³ POD	²⁴ POD ULSTR Location and Description
-------------------	--

V. Well Completion Data

²⁵ Spud Date	²⁶ Ready Date	²⁷ TD	²⁸ PBSD	²⁹ Perforations
³⁰ Hole Size	³¹ Casing & Tubing Size	³² Depth Set	³³ Sacks Cement	

VI. Well Test Data

³⁴ Date New Oil	³⁵ Gas Delivery Date	³⁶ Test Date	³⁷ Test Length	³⁸ Tbg. Pressure	³⁹ Csg. Pressure
⁴⁰ Choke Size	⁴¹ Oil	⁴² Water	⁴³ Gas	⁴⁴ AOF	⁴⁵ Test Method

⁴⁶ I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature: *Dolores Diaz*

Printed Name:
Dolores Diaz
Title:
Production Associate

Date:
7/11/96
Phone:
(505) 326-9700

OIL CONSERVATION DIVISION

Approved by: Frank T. Chavez

Title: District Supervisor

Approved Date: July 11, 1996

⁴⁷ If this is a change of operator fill in the OGRID number and name of the previous operator
14538 Meridian Oil Production

Previous Operator Signature	Printed Name	Title	Date
Signature: <i>Dolores Diaz</i>	Dolores Diaz	Production Associate	7/11/96

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

FOR APPROVED
OMB NO. 1004-0137
Expires: December 31, 1991

CONCESSION DESIGNATION AND SERIAL NO.

SE 078885

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

00:27 AM 8 52

7. UNIT AGREEMENT NAME

Canyon Largo Unit

8. FARM OR LEASE NAME, WELL NO.

Canyon Largo Unit #388

9. API WELL NO.

30-039-25277

10. FIELD AND POOL, OR WILDCAT

Blanco Mesaverde

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

Sec 3, T-25-N, R-6-W

12. COUNTY OR PARISH

Rio Arriba

13. STATE

NM

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other ☐ 04 AUG 24 PM 2:40

b. TYPE OF COMPLETION:

NEW WELL ☐WORK OVER ☐DEEP-EN ☐PLUG BACK ☐DIFF. REMV. ☐

070-FARMINGTON, NM

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

2040' FSL, 1625' FWL

At top prod. interval reported below

At total depth 2462' FSL, 683' FEL

Sec 3, T-25-N, R-6-W

DD R-9911

14. PERMIT NO.

DATE ISSUED

15. DATE STUDDER 8-27-93 16. DATE T.D. REACHED 9-14-93 17. DATE COMPL. (Ready to prod.) 2-25-94 18. ELEVATIONS (OF. RKB, RT. GR, ETC.)* 6741 GR 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 5404-MD 5100 TVD 21. PLUG. BACK T.D., MD & TVD 22. IF MULTIPLE COMPL., HOW MANY* 23. INTERVALS DRILLED BY 10-5404 ROTARY TOOLS CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 25. WAS DIRECTIONAL SURVEY MADE

5190-5196 Mesaverde

26. TYPE ELECTRIC AND OTHER LOGS RUN

GR N/A

27. WAS WELL CORRED

No

28. 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 PULLED
9 5/8	36#	226	12 1/4	236 cu.ft.	
7	23#	5335	7 7/8	1753 cu.ft.	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 7/8	5229	

30. TUBING RECORD

31. PERFORATION RECORD (Interval, size and number)

5190-5196

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
	None

33.* DIST. 31 PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)
DATE OF TEST 11-30-93	HOURS TESTED 3	CHOKED SIZE 3/4
PROD'N. FOR TEST PERIOD	Flowing	SI
FLOW. TUBING PRESS.	CASING PRESSURE SI-492	CALCULATED 24-HOUR RATE
OIL—BSL.	GAS—MCF. TSTM	WATER—BSL.
OIL GRAVITY-API (CORR.)		

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

To be Sold

TEST WITNESSED BY

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

TITLE Regulatory Affairs

DATE 8-24-94

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

AUG 20 1994

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, flowing and shut-in pressures, and recoveries):

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	GEOLOGIC MARKERS		
				NAME	MEAS. DEPTH	TOP TRUE VERT. DEPTH

Ojo Alamo	2158'	2390'	White, cr-gr ss.			
Kirtland	2390'	2615'	Gry sh interbedded w/tight, gry, fine-gr ss.			
Fruitland	2615'	2855'	Dk gry-gry carb sh, coal, grn silts, light-med gry, tight, fine gr ss.	Ojo Alamo	2158'	
Pictured Cliffs	2855'	2900'	Bn-Gry, fine grn, tight ss.	Kirtland	2390'	
				Fruitland	2615'	
				Pic.Cliffs	2855'	
				Mesa Verde	4515'	
Mesa Verde	4515'	4530'	Med-dark gry, fine gr ss, carb sh & coal	Menefee	4530'	
Menefee	4530'	5073'	Med-dark gry, fine gr ss, carb sh & coal	Pt.Lookout	5073'	
Point Lookout	5073'		Med-light gry, very fine gr ss w/frequent sh breaks in lower part of formation			

Cut 13 sidewall Cores @ 5359, 5360, 5449, 5450, 5476, 5478, 5479, 5480, 5599, 5600, 5649, 5650, 5719

OIL CONSERVATION

ED

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

RECEIVED
BLM

94 00

AM 8 52

Sundry Notices and Reports on Wells 94 FEB 25 PM 2:18

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
2040' FSL, 1625' FWL Sec. 3, T-25-N, R-6-W, NMPM

5. Lease Number
SF-078885

6. If Indian, All. or
Tribe Name

7. Unit Agreement Name

8. Well Name & Number
Canyon Largo Unit
Canyon Largo U 388

9. API Well No.
30-039-25277

10. Field and Pool
Blanco MV Ext

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

~~Confidential~~

02-23-94 MOL&RU. ND WH. NU BOP. TOOH w/tbg.

02-24-94 TIH, tag @ 6087'. Cut 13 sidewall cores 5359-5719'. TOOH.

02-25-94 TOOH w/tools. Recovered 11 of 14 cores cut. Ran 167 jts 2 7/8", 6.5#, J-55 8rd EUE tbg landed @ 5229'. F nipple @ 5189'. Perf'd jts 5190-5196'. ND BOP. NU WH. Released rig.

RECEIVED

MAR 08 1994

OIL CON. DIV.
DIST. 3

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

Signed [Signature] Title Regulatory Affairs Date 2/25/94

(This space for Federal or State Office use)

APPROVED BY _____ Title _____

CONDITION OF APPROVAL, if any:

ACCEPTED FOR RECORD

Date

MAR 07 1994

FARMINGTON DISTRICT OFFICE

BY [Signature]

OIL CONSERVATION DIVISION
RECEIVEDUNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

94 OCT 21 AM 8 52

Sundry Notices and Reports on Wells

1. Type of Well
GAS

RECEIVED

OCT 7 1993

2. Name of Operator

MERIDIAN OIL OIL CON. DIV.
DIST. 2

3. Address & Phone No. of Operator

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

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

2040' FSL, 1625' FWL Sec. 3, T-25-N, R-6-W, NMPM

93 SEP 15 PM 3:01

070 FARMINGTON, NM

5. Lease Number
SF-078885
6. If Indian, All. or
Tribe Name

7. Unit Agreement Name

Canyon Largo Unit
8. Well Name & Number
Canyon Largo U #3889. API Well No.
30-039-2527710. Field and Pool
Blanco MV Ext11. 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

~~Confidential~~

09-14-93 TD 5404' MD, 5100' TVD. Ran 7", 23# csg landed @ 5335'. Stage tool @ 3050'. Cmt first stage w/310 sx Class "G" 65/35 Poz w/2% calcium chloride, 6% gel, 0.5% FLA, and 0.25 pps celloflake (549 cu.ft.), tail w/100 sx Class "G" neat w/1% calcium chloride (115 cu.ft.). Cement second stage w/550 sx Class "G" 65/35 Poz w/2% calcium chloride, 6% gel, 0.25 pps celloflake and 0.5% FLA (974 cu.ft.), tail w/100 sx Class "G" neat w/1% calcium chloride (115 cu.ft.). Circ trace of cmt to surface. PT 1500 psi, ok.

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

Signed [Signature] Title Regulatory Affairs Date 9/15/93

(This space for Federal or State Office use)

ACCEPTED FOR RECORD

APPROVED BY _____ Title _____ Date _____

CONDITION OF APPROVAL, if any:

SEP 16 1993

FARMINGTON DISTRICT OFFICE

BY [Signature]

NMCCD

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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
2040' FSL, 1625' FWL Sec. 3, T-25-N, R-6-W, NMPM

5. Lease Number
SF-078885

6. If Indian, All. or
Tribe Name

7. Unit Agreement Name
Canyon Largo Unit

8. Well Name & Number
Canyon Largo U #388

9. API Well No.
30-039-25277

10. Field and Pool
Blanco MV Ext

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

RECEIVED
SEP 1 0 1993

SEP 1 0 1993

~~CONFIDENTIAL~~

OIL CON. DIV.
DIST. 3

08-27-93 TD 231'. Spud @ 5:15 pm 08-27-93. Drl surface hole. Ran 5 jts
9 5/8", 36.0#, K-55 ST&C csg set @ 226'. Cmt w/200 ss Class "G"
w/3% calcium chloride (236 cu.ft.), circ 15 bbl cmt to surface.

RECEIVED
BLM
SEP - 2 PM 3:43
FARMINGTON, NM

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

Signed [Signature] Title Regulatory Affairs Date 9/2/93

(This space for Federal or State Office use)

APPROVED BY _____ Title _____

DATE FOR RECORD
Date _____

CONDITION OF APPROVAL, if any:

FARMINGTON DISTRICT OFFICE

BY [Signature]

submitted in lieu of Form 3160-5

OIL CONSERVATION DIVISION
RECEIVED

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

9400-27 07 6 52

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
2040'FSL, 1625'FWL Sec.3, T-25-N, R-6-W, NMPM

5. Lease Number
SF-078885
6. If Indian, All. or
Tribe Name
7. Unit Agreement Name
Canyon Largo Unit
8. Well Name & Number
Canyon Largo U 388
9. API Well No.
30-039-25277
10. Field and Pool
Blanco MV Ext
11. County and State
Rio Arriba Co, NM

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

Type of Submission

☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment

Type of Action

☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other -
☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut off
☐ Conversion to Injectio

13. Describe Proposed or Completed Operations

Confidential

It is intended to sidewall core this well between 5359-6100'.

~~CONFIDENTIAL~~

RECEIVED
FEB 23 1994
OIL CONSERVATION
DIVISION

070 FARMINGTON, NM

94 FEB 23 AM 11:28

RECEIVED
BLM

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

Signed Regan Bradfield Title Regulatory Affairs Date 2/23/94

(This space for Federal or State Office use)

APPROVED BY _____ Title _____

CONDITION OF APPROVAL, if any:

APPROVED

FEB 25 1994

DISTRICT MANAGER

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

Form C-104
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office
5 Copies

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

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

Operator name and Address Meridian Oil Inc. PO Box 4289 Farmington, NM 87499		OGRID Number 14538	
DD R-9911		Reason for Filing Code New Well	
API Number 30-039-25277	Pool Name Blanco Mesaverde	Pool Code 72319	
Property Code 6886	Property Name Canyon Largo Unit	Well Number 388	

II. Surface Location

UI or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	3	25N	6W		2040'	South	1625'	West	Rio Arriba

Bottom Hole Location

UI or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	3	25N	6W		2462	South	683	East	Rio Arriba
Lease Code F	Producing Method Code F	Gas Connection Date		C-129 Permit Number		C-129 Effective Date		C-129 Expiration Date	

III. Oil and Gas Transporters

Transporter OGRID	Transporter Name and Address	POD	O/G	POD ULSTR Location and Description
014546	Meridian Oil Inc. PO Box 4289, Farmington, NM	2813068	O	
888029	El Paso Natural Gas Company	2813069	G	

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SEP 28 1994

IV. Produced Water

POD	POD ULSTR Location and Description
2813070	

OIL CON. DIV.
DIST. 3

V. Well Completion Data

Spud Date	Ready Date	TD	PBTD	Perforations
8-27-93	2-25-94	5404-MD 5100-TVD		5190-5196
Hole Size	Casing & Tubing Size	Depth Set	Sacks Cement	
12 1/4	9 5/8	226	236 cu. ft.	
7 7/8	7	5335	1753 cu. ft.	
	2 7/8	5229		

VI. Well Test Data

Date New Oil	Gas Delivery Date	Test Date	Test Length	Tbg. Pressure	Csg. Pressure
		2-25-94	3		SI 492
Choke Size	Oil	Water	Gas	AOF	Test Method
3/4			TSTM		F

I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature: *Peggy Bradfield*

Printed name: Peggy Bradfield

Title: Regulatory Representative

Date: 8-24-94

Phone: 505-326-9700

OIL CONSERVATION DIVISION

9/27/94
Approved by: *[Signature]*

Title: SUPERVISOR DISTRICT 3

Approval Date: SEP 27 1994


If this is a change of operator fill in the OGRID number and name of the previous operator

Previous Operator Signature	Printed Name	Title	Date
-----------------------------	--------------	-------	------

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CONSERVATION DIVISION
RECEIVED

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	5. Lease Number SF-078885	
1b. Type of Well GAS	6. If Indian, All. or Tribe	
2. Operator MERIDIAN OIL	7. Unit Agreement Name Canyon Largo Unit	
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name Canyon Largo Unit	
4. Location of Well 2040' FSL, 1625' FWL at surface 2640' FSL, 790' FEL at Total Depth Latitude 36° 25' 36", Longitude 107° 27' 29"	9. Well Number 388	
10. Field, Pool, Wildcat Blanco Mesa Verde EXT	11. Sec, Twn, Rge, Mer. K Sec 3, T-25-N, R-6-W NMPM	
14. Distance in Miles from Nearest Town 18 miles to Counselors Post, NM	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1625'	17. Acres Assigned to Well 642.36	16. Acres in Lease 2403.320
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 450'	20. Rotary or Cable Tools Rotary	19. Proposed Depth 5166' TVD 7927' MD
21. Elevations (DF, FT, GR, Etc.) 6741' GR	22. Approx. Date Work will Start 2nd quarter 1993	23. Proposed Casing and Cementing Program See Operations Plan attached
24. Authorized by:  Regional Drilling Engineer	Date 6/1/93	

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY _____ TITLE _____ DATE _____

Archaeological Report to be submitted
Threatened and Endangered Species Report to be submitted
NOTE: This format is issued in lieu of U.S. BLM Form 3160-3

APPROVED
AS AMENDED

JUN 15 1993

DISTRICT MANAGER

R-9911 E

UNCOO

Consent to Assignment
County Office
State Lease - 4 copies
Fee Lease - 3 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

RECEIVED Form C-182
BLM Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

93 JUN 10 PM 3:17

070 FARMINGTON, NM

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Arama, NM 88210

DISTRICT III
1000 Rio Arriba Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator Meridian Oil Inc.		Lease Canyon Largo Unit		Well No. 388
Unit Letter K	Section 3	Township 25 North	Range 6 West	County NM/RA Rio Arriba
Actual Footage Location of Well: 2040 feet from the South line and 1625 feet from the West line				
Current Level Elev. 6741'	Producing Formation Mesa Verde	Pool Blanco EXT	Dedicated Acreage: 642.36 Acres	

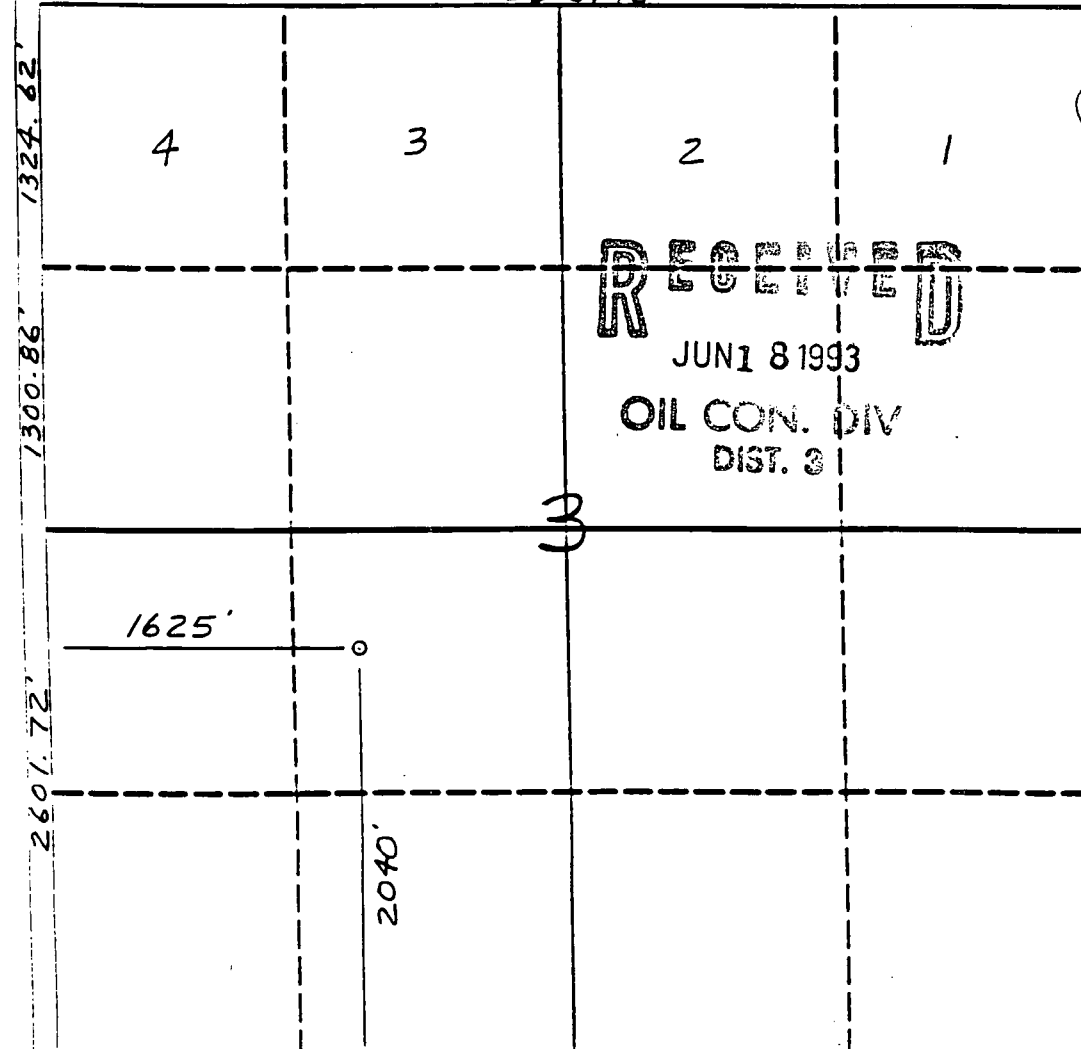
- Outline the acreage dedicated to the subject well by colored pencil or ink on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.?

☒ Yes ☐ No If answer is "yes" type of consolidation: unitization

If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.)

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, force-pooling, or otherwise) or until a non-standard unit, encompassing such interest, has been approved by the Division.

5300.46'



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 Rep.

Position

Meridian Oil Inc.

Company

5-27-93

Date

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief. 3-26-93

Date Surveyed

NEEDLE C. EDWARDS

Signature

Professional Surveyor

8857

Commission No.

June 3, 1993

OPERATIONS PLAN

Well Name: Canyon Largo Unit #388
Location: 2040'FSL, 1625'FWL, Section 3, T-25-N, R-6-W
 Rio Arriba County, New Mexico
 Latitude 36° 25' 36", Longitude 107° 27' 29"
Formation: Blanco Mesa Verde
Elevation: 6741'GL

<u>Formation Tops:</u>	<u>Top</u>	<u>Bottom</u>	<u>Contents</u>
Surface	San Jose	2158'	
Ojo Alamo	2158'	2390'	aquifer
Kirtland	2390'	2615'	
Fruitland	2615'	2855'	gas
Pictured Cliffs	2855'	2900'	
Lewis	2900'	3712'	gas
Chacra	3712'	4515'	
Cliff House	4515'	4530'	aquifer
Menefee	4530'	5073'	
Point Lookout	5073'		gas
Total Depth	5166' TVD	7927' MD	

Logging Program: Mud log from 4500' to Total Depth
 MWD-GR from KOP to Total Depth

Mud Program:

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Vis.</u>	<u>Fluid Loss</u>
0- 200'	Spud	8.4-8.9	40-50	no control
200- 7927' MD	Non-dispersed	8.4-9.0	30-60	no control

Drilling:

Surface/Intermediate Hole:

Drill to surface casing point of 200' and set 9 5/8" casing. Mud drill from 200' to intermediate total depth. The well will be drilled vertically to a kick off point depth of 4707'. At this point the well will deviate at 15.0 degrees/100 feet to 84 degrees (80 degrees azimuth). At this point (5104' TVD, 5440' MD) 7", 23.0#, N-80/K-55 casing will be set (see wellbore schematic).

<u>TVD</u>	<u>MD</u>	<u>Vertical Section</u>	<u>Hole Size</u>	<u>Notes</u>
200'	200'	0'	12 1/4"	9 5/8" casing set
4707'	4707'	0'	8 3/4"	Kick off point
5104'	5440'	513'	8 3/4"	7" casing set

Production Hole:

Drill out cement/shoe of 7" casing, unload hole with air/mist. Drill (with air/mist) holding 84 degrees to a total depth of 5166' TVD (7927' MD). Run 4 1/2" perforated and plugged liner from 4800' MD to 7927' MD.

TVD	MD	Vertical Section	Hole Size	Notes
5104'	5440'	366'	8 3/4"	Begin air drilling
5166'	7927'	3000'	6 1/4"	Run 4 1/2" liner

Materials:

Casing Program:

Hole Size (inches)	Measured Depth (ft)	TVD (ft)	Casing Size (in)	Weight (lbs/ft)	Grade
12 1/4"	200'	200'	9 5/8"	32.3	H-40
8 3/4"	4707'	4707'	7"	23.0	K-55
8 3/4"	5440'	5104'	7"	23.0	N-80
6 1/4"	(4800-7927')	5166'	4 1/2"	10.5	K-55

Casing Equipment:

9 5/8" surface casing - sawtooth guide shoe.

7" intermediate casing - cement nose guide shoe on bottom, float collar one joint off bottom, cementing stage tool set at 3000'. Centralizers spaced as follows: (15) spaced every fourth joint from bottom, (1) at joint below stage tool, (19) spaced every fourth joint above stage tool to surface. Two turbolizing type centralizers, one below and one into the Ojo Alamo at 2158'.

4 1/2" production liner - 7" x 4 1/2" liner hanger, guide shoe.

Tubing:

7900' of 2 3/8", 4.7#, J-55 8rd EUE tubing with seating nipple one joint off bottom and an expendable check valve on bottom.

Wellhead Equipment:

9 5/8" x 7" x 2 3/8" - 11" (2000 psi) wellhead assembly.

Cementing

9 5/8" surface casing - use 106 sx of Class "B" cement with 1/4#/sx flocele and 3% calcium chloride (125 cu.ft. of slurry, 100% excess to circulate to surface). WOC 12 hrs. Test casing to 700 psi.

7" intermediate casing -

First stage - lead with 350 sx 65/35 Class "B" poz with 6% gel and 2% calcium chloride. Tail with 100 sx of Class "B" with 2% calcium chloride (738 cu.ft. of slurry, 100% excess to cover stage tool at 3000'.

7" intermediate casing (cont'd.) -

Second stage - lead with 780 sx 65/35 Class "B" poz with 6% gel and 2% calcium chloride. Tail with 100 sx of Class "B" with 2% calcium chloride (1498 cu.ft. of slurry, 100% excess to circulate to surface). WOC 12 hrs. Test casing to 1500 psi.

4 1/2" production liner - liner set at 4800'. Pre-perforated and plugged from 5440' MD to 7927' MD.

BOP and Tests

Surface to intermediate TD - 11", 2000 psi double gate BOP stack (Reference Figure #1). Prior to drilling out surface casing, test rams and casing to 700 psi for 30 minutes.

Intermediate TD to Total Depth - 10" nominal, 2000 psi (minimum) double gate BOP stack (Reference Figure #1). Prior to drilling out intermediate casing, test rams and casing to 1500 psi (minimum) for 30 minutes.

Surface to Total Depth - choke manifold (Reference Figure #2).

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

Additional Information

- This gas is dedicated.
- Section 3 is dedicated to this well.
- New casing will be utilized.
- Pipe movement (reciprocation) will be done if hole conditions permit.
- No abnormal pressure zones are expected.