10727 3

TOTAL MINATOME CORPORATION

May 23, 1997

Burlington Resources, Inc. 3535 East 30th St. P.O. Box 4289 Farmington, New Mexico 87499-4289 Attention: James J. Strickler

MAY 3 0 1997

PRODUCTION ACCTG.

Re: N

Marcotte #2

Pennsylvanian formation Section 8, T31N-R10W San Juan County, New Mexico

Gentlemen:

Total Minatome Corporation (TMC) agrees to participate in the above referenced well per the terms and conditions of the Farmout and Operating Agreement dated November 27, 1951, between Brookhaven Oil Company and San Juan Production Company, as amended and supplemented.

Enclosed is one fully executed copy of your participation letter dated April 22, 1997 on behalf of TMC.

Sincerely.

Deborah J. Gilchrist

Landman

NMOCD Case No. 11808 NMOCD Case No. 11809

Exhibit No. 6

Submitted by: Total Minatome Corp.

July 10, 1997



BURLINGTON RESOURCES

SAN JUAN DIVISION

April 22, 1997

PS 4-25

CERTIFIED MAIL-RETURN RECEIPT

RECEIVED

To Working Interest Owners (see list below)

APR 2 5 1997

LAND ADMINISTRATION

RE: Marcotte #2 Well

Pennsylvanian formation Proposed depth 14,000' ALL Section 8, T31N-R10W 639.78 acres, more or less San Juan County, New Mexico

Gentlemen:

Burlington Resources Oil & Gas Company (Burlington) proposed to drill and complete the captioned well in the Pennsylvanian formation. The approximate location is 1540' FSL, 935' FEL (NE/SE) Section 8, T31N-R10W, with a proposed depth of 14,000'. Attached for your consideration and approval is one (1) copy of our Well Cost Estimate to drill and complete the subject well for \$2,316,973.00. Our records indicate the ownership of the well and AFE share to be as follows:

Company	GWI	AFE Share
Burlington	9.310450%	\$ 215,721.00
Conoco Inc.	9.310450%	\$ 215,720.00
Amoco Production Company	68.073400%	\$1,577,242.00
Total Minatome Corp.	4.652200%	\$ 107,790.00
Cross Timbers Oil Co.,. LP	3.374700%	\$ 78,191.00
Lee Wayne Moore and JoAnn	2.251700%	\$ 52,171.00
Montgomery Moore, Trustees		
George William Umbach	1.416600%	\$ 32,822.00
Robert Warren Umbach	1.416600%	\$ 32,822.00
Lowell White Family Trust	.048460%	\$ 1,123.00
Walter A. Steele	.048460%	\$ 1,123.00
Estate of G. W. Hannett	.040380%	\$ 936.00
T. G. Cornish	.032300%	\$ 748.00
Patricia Hueter	.008100%	\$ 188.00
Mary Emily Voller	.008100%	\$ 188.00
A. T. Hannett	008100%	\$ 188.00
	100.000000%	\$2,316.973.00

Working Interest Owners April 22, 1997 Page 2

An Operating Agreement is enclosed for your review and approval.

If you wish to participate in the drilling of the above referenced well, please verify your interest and return the following within thirty (30) days to the undersigned:

- 1. One (1) executed copy of this letter
- 2. One (1) executed copy of the Well Cost Estimate
- 3. One (1) executed signature page for the Operating Agreement dated April 1, 1997

Your prompt attention to this proposal is requested as we plan to begin operations in the near future. Please advise in writing if you do not wish to participate.

Very truly yours,

James R. J. Strickler, CPL Senior Staff Landman

(505) 326-9756

JRS:11

The undersigned	hereby elects this	23	day of	MAY	, 1997, to
participate in an	l pay its proportio	nate sh	are of the	well costs f o	¥ the drilling
	f the Marcotte #2,				
	and Operating Ag				
Brookhaven Oil	Company and San	Juan P	roduction	Company a	is amended and
supplemented NAN	X/OWNER: Tor	ALA	MINATOM	E CORNOR	CATION
BY:	5 1			 .	
D1:					—— " <i>></i>
TITLE:	Vice Presider	\sim t			OW

Meridian Oil Inc. Facilities Estimate

Well Name:	Marcotte #2	Prepared By:	C.E. Lane CR X
Location:	Sec 8, T31N R10W	Date:	3/17/97
AFE Type:	01-Exploration	Approved By:	
Formation:	Pennsylvanian	Date:	
		Tangible Costs	
	- · · · · · · · ·		

	Estimated Days:	Total
Account		Estimated
Number		Cost
247		
02	Labor-Contract, Roustabout, Consultants	15,000
03	Company Vehicles	0
80	Location, Roads & Canals	0
12	Overhead	0
17	Damages, Property Losses	0
20	Equip. Coating and Insulation	0
26	SWD Filtering	0
27	Separators	0
28	Gas Sweetening	0
29	Pumping Units	0
31	Prime Mover	0
32	Tanks	9,500
33	Metering Equipment	15,000
34	Flow Line	0
35	Compressors	0
36	Building	0
39	Flowlines, Piping, Valves & Fittings	, 11,000
43	Safety	0
44	Technical Contract Svc.	0
47	Rental Compressors & Maintenance	0
48	Rental Equipment	0
49	Cathodic Protection	12,000
50	Right Of Way	2,500
51	Minor Pipelines	2,333
53	Surface Pumps	0
54	Electrical Accessories	
55	Miscellaneous-Facility Expense	0
57	Pulling Unit Costs	
60	Oper. Owned Equip/Facilities	
62	Env. Compliance-Assessment	
63	Env. Compliance (Remediation)	0
68	Direct Labor	0
69	Benefits	0
70	Payroll Taxes and Insurance	0
70 72	Overhead (Contingency 5%)	0
	Freight/Transportation	
73		
81	Tubing	0 0
82	Rods	. 0
83	Downhole Pumps	0
84	Alternative Artificial Lift Equip.	
86	Convent Artificial Lift Wellhead Equip.	0
88 05	Communication Systems	0
95	Employee Meals	0
96	Gas Dehydrator	54,000

0

0

Meridian Oil Inc. Completion Estimate

Compici			
	tion Estimate		a -
Marcone #2		Prepared By:	C.E. Lane C /3
31N-10W-Sec 8		Date:	3/17/97
New Drill - 01		Approved By:	311111
		Approved by: Date:	 -
Pennsylvanian		Date:	
Intan	gible Costs		
			Total
Estimated Days: 15			Estimated
			Cost
Location, Roads or Canals			\$100
Construction and Maintenance			\$5,000
Surface Restoration			\$9,000
Move-in, Move-out			\$6,250
			\$0
Fees of Contractor - Footage	 		
Fees of Contractor - Daywork			\$59,950
Fire and Safety Equip.			\$8,500
Drilling Fluid System - Liquids			
Gas and Air Drilling			\$25,000
			· · · · · · · · · · · · · · · · · · ·
Specialty Fluids and Chemicals			\$500
Salt/Brine Water			\$2,500
Onsite Disposal Svc.			
Fresh Water			\$15,000
Bits			\$750
Primary Cement & Svc's			50
Remedial Cementing			\$2,000
Fuel / Electricity			\$2,250
BOP & Wellhead Rentals(Surface)			\$6,000
Drill Work String Rentals			\$1,500
Fishing Tool Rentals			\$0
Tank Rentals			\$4,000
Other Rental			\$3,500
Transportation			\$2,250
Offsite Disposal Service		· - · · · · · · · · · · · · · · · · · ·	
Tubular Inspection		······	\$1,000
Cased Hole Services		· · · · · · · · · · · · · · · · · · ·	\$30,000
Production Testing			
Swabbing & Coiled Tubing			
Stimulation			\$10,000
Fracturing			\$50,000
Casing Crews and Laydown			
Gravel Pack/Sand Control			
BOP Testing		····	
Consultants			\$10,650
Technical Contract Svc.			
Roustabout Labor			\$3,000
Miscellaneous			\$450
Communication Systems			\$500
			\$2,200
Packer Rental			-44-04
Packer Rental Pumping Charges			
Pumping Charges			
Pumping Charges Oper, Owned Equip/Facilities			
Pumping Charges Oper, Owned Equip/Facilities Env. Compliance-Assessment			
Pumping Charges Oper, Owned Equip/Facilities Env. Compliance-Assessment Env. Compliance (Remediation)			
Pumping Charges Oper, Owned Equip/Facilities Env. Compliance-Assessment Env. Compliance (Remediation) Company Vehicles			
Pumping Charges Oper, Owned Equip/Facilities Env. Compliance-Assessment Env. Compliance (Remediation) Company Vehicles Direct Labor			
Pumping Charges Oper, Owned Equip/Facilities Env. Compliance-Assessment Env. Compliance (Remediation) Company Vehicles Direct Labor Benefits			
Pumping Charges Oper. Owned Equip/Facilities Env. Compliance-Assessment Env. Compliance (Remediation) Company Vehicles Direct Labor Benefits Payroll Taxes and Insurance			
Pumping Charges Oper. Owned Equip/Facilities Env. Compliance-Assessment Env. Compliance (Remediation) Company Vehicles Direct Labor Benefits Payroll Taxes and Insurance Company Supervisor			
Pumping Charges Oper. Owned Equip/Facilities Env. Compliance-Assessment Env. Compliance (Remediation) Company Vehicles Direct Labor Benefits Payroll Taxes and Insurance Company Supervisor Employee Expense			
Pumping Charges Oper. Owned Equip/Facilities Env. Compliance-Assessment Env. Compliance (Remediation) Company Vehicles Direct Labor Benefits Payroll Taxes and Insurance Company Supervisor Employee Expense Employee Meals			54150
Pumping Charges Oper, Owned Equip/Facilities Env. Compliance-Assessment Env. Compliance (Remediation) Company Vehicles Direct Labor Benefits Payroll Taxes and Insurance Company Supervisor Employee Expense Employee Meals Total Intangibles			\$261,850
Pumping Charges Oper, Owned Equip/Facilities Env. Compliance-Assessment Env. Compliance (Remediation) Company Vehicles Direct Labor Benefits Payroll Taxes and Insurance Company Supervisor Employee Expense Employee Meals Total Intangibles Tangible Costs			
Pumping Charges Oper. Owned Equip/Facilities Env. Compliance-Assessment Env. Compliance (Remediation) Company Vehicles Direct Labor Benefits Payroll Taxes and Insurance Company Supervisor Employee Expense Employee Meals Total Intangibles Tangible Costs Casing			\$0
Pumping Charges Oper. Owned Equip/Facilities Env. Compliance-Assessment Env. Compliance (Remediation) Company Vehicles Direct Labor Benefits Payroll Taxes and Insurance Company Supervisor Employee Expense Employee Meals Total Intangibles Tangible Costs Casing Tubing and Tiebacks			\$0 \$72,223
Pumping Charges Oper. Owned Equip/Facilities Env. Compliance-Assessment Env. Compliance (Remediation) Company Vehicles Direct Labor Benefits Payroll Taxes and Insurance Company Supervisor Employee Expense Employee Meals Total Intangibles Total Intangibles Tangible Costs Casing Tubing and Tiebacks Packers and Bridge Plugs			\$0
Pumping Charges Oper. Owned Equip/Facilities Env. Compliance-Assessment Env. Compliance (Remediation) Company Vehicles Direct Labor Benefits Payroll Taxes and Insurance Company Supervisor Employee Expense Employee Meals Total Intangibles Tangible Costs Casing Tubing and Tiebacks Packers and Bridge Plugs Casing/Liner Equipment			\$0 \$72,223 \$25,000
Pumping Charges Oper, Owned Equip/Facilities Env. Compliance-Assessment Env. Compliance (Remediation) Company Vehicles Direct Labor Benefits Payroll Taxes and Insurance Company Supervisor Employee Expense Employee Meals Total Intangibles Tangible Costs Casing Tubing and Tiebacks Packers and Bridge Plugs Casing/Liner Equipment Tubing Equipment			\$0 \$72,223 \$25,000
Pumping Charges Oper. Owned Equip/Facilities Env. Compliance-Assessment Env. Compliance (Remediation) Company Vehicles Direct Labor Benefits Payroll Taxes and Insurance Company Supervisor Employee Expense Employee Meals Total Intangibles Tangible Costs Casing Tubing and Tiebacks Packers and Bridge Plugs Casing/Liner Equipment	ige, and tree		\$0 \$72,223 \$25,000

Total Completion Cost

EL

\$407,073

TOTAL MINATOME CORPORATION

May30, 1997

Burlington Resources, Inc.

3535 East 30th St.

P.O. Box 4289

Farmington, New Mexico 87499-4289

Attention: James J. Strickler

Re:

Scott #24

Pennsylvanian formation Section 9, T31N-R10W

San Juan County, New Mexico

Gentlemen:

Total Minatorna Corporation (TMC) agrees to participate in the above efferenced well per the terms and conditions of the Farmout and Operating Agreement dated November 27, 1951, between Brookhaven Oil Company and San Juan Production Company, as amended and supplemented.

Enclosed is one fully executed copy of your participation letter dated April 29, 1997 on behalf of TMC.

Sincerely,

Deborah J. Gilchri

Landman

NMOCD Case No. 11808 NMOCD Case No. 11809

Exhibit No. _______ Submitted by: Total Minatome Corp.

July 10, 1997



SAN JUAN DIVISION

April 29, 1997

CERTIFIED MAIL-RETURN RECEIPT

To Working Interest Owners (see attached Exhibit "A")

RE: Scott # 24 Well
Pennsylvanian formation
Proposed depth 14,000'
ALL Section 9, T3 IN-R10W
636.01 acres, more or less
San Juan County, New Mexico

Gentlemen:

Burlington Resources Oil & Gas Company (Burlington) proposed to drill and complete the captioned well in the Pennsylvanian formation at a legal location in the NW/4 (SE/4 NW/4) of Section 9, T31N-R10W, with a proposed depth of 14,000'. Attached for your consideration and approval is one (1) copy of our Well Cost Estimate to drill and complete the subject well for \$2,316,973.00.

The ownership schedule for the subject well is listed on the attached Exhibit "A".

An Operating Agreement is enclosed for your review and approval.

If you wish to participate in the drilling of the above referenced well, please verify your interest and return the following within thirty (30) days to the undersigned:

- 1. One (1) executed copy of this letter
- 2. One (I) executed copy of the Well Cost Estimate
- 3. One (1) executed signature page for the Operating Agreement dated April 1, 1997.

Scott #24 Well April 29, 1997 Page 2

Your prompt attention to this proposal is requested as we plan to begin operations in the near future. Please advise in writing if you do not wish to participate.

Very truly yours,

James R. J. Strickler, CPL Senior Staff Landman

(505) 326-9756

JRS:dg scott24

	997, to
participate in and pay its proportionate share of the actual well-costs	for the
drilling and completion of the Scott #24, as correctly shown on Exhib	it "A".
subject to the terms of the November 27, 1951 Farmout and C	perating Agreement
by and between Brookhaven Oil Company and San Juan Producti	on Company as
COMPANY/OWNER:	supplemented.
BY:	, d sappromise
BI:	
TITLE:	

BURLINGTON RESOURCES

May 22, 1997

RECEIVE

MAY-2-7-1997

SAN JUAN DIVISION

VIA FACSIMILE

LAND ADMINISTRATION

Total Minatome Corporation Attn: Ms. Deborah Gilchrist, Land Manager 2 Houston Center, Suite 2000 P.O. Box 4326 Houston, TX 77210-4326

RE: GLA-46 - AMENDMENT

MARCOTTE 2

SECTION 8, T32N, R10W ARCH ROCK PROSPECT

SAN JUAN COUNTY, NEW MEXICO

Dear Ms. Gilchrist:

This is in reference to Burlington Resources Oil & Gas Company's (Burlington) acreage support request letter to Total Minatome Corporation (Total), dated February 7, 1997, and GLA-46 amendment letter dated April 1, 1997. So far, GLA-46 owners, with the exception of Total, have agreed to support the subject well by either farming out their interest or participating and executing our proposed JOA. Burlington requests that Total proceed along with the other GLA-46 owners to either:

- 1. Participate in the subject well and execute our proposed JOA submitted to you on April 1, 1997, said JOA shall be limited in depths below the Dakota formation, or
- 2. Farmout your interest in the Arch Rock prospect as outlined in Exhibit "A" to the April 1, 1997 letter.

Historically, it is clear the November 27, 1951, farmout/operating agreement, known as GLA-46, covered the Pictured Cliffs and Mesaverde formations. All other formations were handled by amendment on a Ad Hoc basis. This agreement was never intended to cover deep gas exploration as indicated by past experience. The agreement incidentally has been amended over thirty (30) times to illustrate this point. Burlington and the other GLA-46 owners consistent with a spirit of cooperation and historic practice have amended the GLA accordingly.

Burlington does not agree with your interpretation of the agreement which allows you to be carried or effectively bring down the project on the subject well. A reasonable industry participation is evidenced by the 81.25% of the GLA-46 owners who have entered the amendment to the agreement. Burlington has worked diligently for over one year in putting together this extremely complex land area to drill this well. We hope that your management will support us in the drilling of a very speculative and expensive project by agreeing to either options one or two above.

We look forward to hearing from you soon, since time is of the essence to go forward with the drilling of this well. If you should have any questions, please call me at (505) 326-9756.

Very truly yours,

James R.J. Strickler,

Senior Staff Landman

NMOCD Case No. 11808 NMOCD Case No. 11809

Exhibit No. 8

Submitted by: Total Minatome Corp.

July 10, 1997

Total_2.doc

JRS:mt

BURLINGTON RESOURCES

SAN JUAN DIVISION

April 1, 1997

Total Minatome Corporation Attn: Ms. Deborah Gilchrist, Land Manager 2 Houston Center, Suite 2000 P.O. Box 4326 Houston, TX 77210-4326 ECEIVED

APR 6 # 1997

LAND ADMINISTRATION

RE: GLA-46
Amendment
San Juan County, New Mexico

Dear Ms. Gilchrist:

On November 27, 1951, Brookhaven Oil Company and San Juan Production Company entered into an Operating Agreement pertaining to certain lands in San Juan County, New Mexico. Said Agreement, as amended, provided for the drilling of Mesaverde wells by San Juan Production Company and the recovery of Brookhaven's share of the cost of drilling such wells subject to the limitations and in accordance with the provisions of said Agreement.

Total Minatome Corporation (Total) in consideration for Burlington Resources Oil & Gas Company (Burlington) showing Total proprietary geology, 2D and 3D seismic for the purpose of exploring and drilling for a deep gas Pennsylvanian well located in the SE/4 of Section 8, T31N, R10W, (Arch Rock Prospect) San Juan County, New Mexico, agrees to amend the November 27, 1951 Operating Agreement. Total and Burlington shall set a mutually agreeable time and place to show Total management the Arch Rock prospect geology and seismic which will include a data and well package, on or before April 19, 1997. Total, after said prospect review shall have a fifteen (15) day election period to either 1) participate in the drilling and completion of a Pennsylvanian well in Section 8, T31N, R10W, San Juan County, New Mexico, or 2) Farmout its interest in the Arch Rock Prospect on those certain terms and conditions outlined on Exhibit "A" to this Letter Agreement.

By this Letter Total Minatome Corporation as successors in interest to Lear Petroleum Partners Operating Company, L.P. (formerly Brookhaven Oil Company) and Burlington Resources Oil & Gas Company (formerly El Paso Gas Company) as successor in interest to San Juan Production Company, do hereby evidence the Amendment to the Operating Agreement dated November 27, 1951 as amended to provide for the following:

NMOCD Case No. 11808 NMOCD Case No. 11809 Exhibit No. Total Minatome April 1, 1997 Page 2

Total agrees to amend the Operating Agreement dated November 27, 1951, by deleting paragraphs 5-14, Exhibit "C" (Accounting Procedure) and the August 8, 1986 Letter Agreement (Gas Balancing Agreement) in its entirety, and replacing with the attached Exhibit "B", AAPL Model Form 610 1982 Operating Agreement. Said Operating Agreement provides among other things with the following:

- 1. 400% Non-Consent Penalty
- 2. \$25,000 Limitation of Expenditure
- 3. 1984 COPAS Accounting Procedure
- 4. The Preferential Right to Purchase Provision deleted
- 5. Gas Balancing Agreement.
- 6. Effective Date, April 1, 1997

Please evidence your acceptance of the foregoing by signing and returning a copy of this letter to the undersigned within fifteen (15) days of your receipt.

Yours very truly,

Burlington Resources Oil & Gas Company

James R.J. Strickler Senior Staff Landman

JRS/dg amend_27

Agreed to and Accepted this ______day of _______, 1997.

TOTAL MINATOME CORPORATION

By:		
Title		

EXHIBIT "A"

TOTAL MINATOME CORPORATION ARCH ROCK PROSPECT

	GROSS	NET
	ACRES	ACRES
Township 31 North, Range 10 West, N.M.P.M.		
Section 3: Lot 4 North and West of River	1.00	0.429
Lot 4 South and East of River	39.00	6.673
Lots 5 thru 9, S/2 NW/4	259.51	48.658
Section 4: Lot 5, E/2 SW/4,	118.64	22.245
NW/4 SW/4 and Part SW/4 NW/4	50.00	8.856
Section 8: Lots 1,2,4 and 5	158.74	29.764
Section 9: Lots 1,2, NE/4 NW/4	120.55	22.603
Section 13: Lots 3 and 4	69.21	11.537
Section 14: Lot 10,	40.51	6.753
SW/4 NW/4, NW/4 SW/4, E/2SW/4	160.00	30.000
Section 15: SE/4 NW/4	40.00	7.500
Section 16: NW/4 NE/4, SE/4 NE/4, SE/4 NW/4 NW/4 SW/4, SE/4 SW/4, NW/4 SE/4, SE/4 SE/4, SW/4 SE/4,	280.00	47.836
SW/4 SE/4	40.00	40.00
Section 17: Lots 1 thru 10	404.63	75.868
Section 23: NW/4 NE/4,	40.00	14.835
NE/4 NW/4,	40.00	6.834
NE/4 SE/4	40.00	7.500
Section 24: NW/4 SW/4	40.00	7.500
Township 31 North, Range 11 West, N.M.P.M.	`	
Section 2: SE/4 SW/4	40.00	10.000
Township 32 North, Range 10 West, N.M.P.M.		
Section 31: Lots 5,6,11,12,13,14,19 and 20	318.46	59.711
San Juan County, New Mexico		
Total Gross Acres	2,300.25	
	Gross Acres, More or Less	
Total Net Acres	429.102	
	Net Acres, More or Less	

^{*}Insofar and only insofar as said lands and leases covers depths below the base of the Mesaverde Formation.

^{*}It is the intent of Total Minatome Corporation (Total) to Farmout all their Leasehold, Right, Title and interest of Total's in the described Lands and Leases in this Exhibit "A", whether such Exhibit "A" fails to include or inaccurately sets forth the description of Lands or interest under the subject Lands and Leases.

Mx - 36002

, Not	CE OF STAKING to be used in place of	97 FEB 21 FM	1: 2°E	Lease Number SF-078604
	ication for Permit to Drill Form Oil Well () Gas Well (X)	m 3160-3) 070 FARLLNGIC Other () Specify	N, MI	If Indian, Allottee or Tribe Name
2.	Name of Operator MERIDIAN OIL INC.		8.	Unit Agreement Name
3.	Name of Specific Contact Person Peggy Bradfield	1	9.	Farm or Lease Name Marcotte
4.	Address & Phone No. of Operator PO Box 4289, Farmington, NM 8		10.	Well No.
5.	Surface Location of Well SE/4		11.	Field or Wildcat Name
:	Attach a) Sketch showing road, pad dimension pit. b) Topographical or cable map showing laroad, and leases be	other accept- location, access		Sec., TN, RW Sec 8, T-31-N, R-10-W
15.		16. Estimated Well Depth		
	Additional Information (as apprand telephone number) - Bureau	of Land Management '		
18.	signed Signy Shan hul		,	Date: 02-21-97
Note	predrill inspection and notify you flagged prior to the onsite. Operators must consider the follow the potential	u accordingly. The locat	cion must	

recial lease stipulations, as applicable, are available elsewhere in this office and will be made

NMOCD Case No. 11808

NMOCD Case No. 11809 Exhibit No. _____

Submitted by: Total Minatome Corp. July 10, 1997

b) Cultural Resources (archaeology)

vailable upon request.

c) Federal Right of Way or Special Use Permit

Project Location: Numerous wellties within the Ratherford Unit

EA Log # NM	<u>-070-97-3112</u>
Lease/Serial #_	
File Code	

FINDING OF NO SIGNIFICANT IMPACT AND DECISION OF RECORD

Project:

Deep Drilling Tast of the Pennsylvania/Mississippian Formations

Applicant:

Burlington Resources

Address:

P.O. Box 4289 Farmington, NM 87499

BLM Office

Farmington District Office Phone # (505) 599-8900

FINDING OF NO SIGNIFICANT IMPACT

Impact identification and analysis of approving the project and/or alternative(s) have been completed. A complete and comprehensive environmental analysis has been conducted. Completion of the environmental assessment, and the implementation of required stipulations and/or mitigating measures will result in (projected) impacts to resource values being restored to pre-project conditions and/or acceptable post-project standards. Further analysis in an environmental impact statement is not needed at this time. Prior to full field development, an environmental impact statement may be required.

RECORD OF DECISION

<u>DECISION</u>: Based upon the analysis, it is my decision to approve the proposed action for Burlington Resources to build a well pad, drill and complete the Marcotte # 2 gas well. This decision incorporates mitigation and stipulations as addressed in the Environmental Analysis which will mitigate unavoidable long and short term impacts of this action.

RATIONAL: This determination is made considering the following factors:

- 1. The effects on the human environment have not been controversial in the past and the public has not voiced opposition to new wells being drilled in this area. There is a high probability of encountering H2S during the drilling and completion of the well, which will be mitigated according to Oil and Gas Order #6.
- 2. Cumulative or secondary effects on soil erosion, cultural resources, wildlife resources and habitat, air quality, and visual impacts were considered and found acceptable with mitigation. Partial reclamation will occur during the production phrase of this well. If the well proves to be productive, full reclamation will occur after final abandonment.
- 3. Federal and State of New Mexico Threatened and Endangered species have been considered. There are no known Federal or State listed species in the area of the proposed action.
- 4. A cultural and historic resource level 3 inventory has been conducted on the area that was identified as the proposed action. Impacts to cultural and historic resources will be avoided and/or mitigated. This will be done under the direction of the Farmington District's Cultural Resources Staff.

5. The scope of this action, alternatives, and impacts have been considered in relation to 40 CFR 1508.25. The direct, indirect, and cumulative impacts have been considered in relation to 40 CFR 1508.8 and will not affect the quality of the human environment.

Senior Technical Specialist, Environmental Compliance

Date 6/2/97

Senior Technical Specialist, Environmental Compliance

Date 4/3/97

Associate DM for L&RR Reviewed by

FIELD INSPECTION SHEET

Operator Buling ton	Date 3-3-97
	By C
Lesse # SF-07860H	CER 97-291
Formation COAAA	County, State Son Jun DM
	Location 1540 FCL 935 FET
Pool Depth 14000	s. 8 1.3/ N. R. 10 W.
Circulation Med. (mud Gas Air)	Tourselles and 12 True No.
Road Length	Location moved? Yes (No
WidthCut	From: To:
NEW REHAB W/W P/L	Laydown Signature From Pit Foot
New Road on lease length	Pad Size 400' X 340
New Road off lease R/W length	Paint Green Seed II
Existing Road R/W Needed?	Start Date 5/1/97 Drill Time 200
Length	CUT S' DIRECTION SE
Inspected P/L on lease: Yes No	FILL 23' DIRECTION 16 1950
Length Width	WATER SOURCE Francis Atte Duny Ci
SURFACE UNDERGROUND	DWELLING Alahe
HIGH LOW pressure	WELL Scott#14
Inspected off Lease/Unit Pipeline: Yes No	UTILITY ROW
Length Width	WATER
Surface Ownership	ARCH PALEO
Topography Rolling Gills	RMPT&E
Existing Vegetation DJ Sige	SMA
galeta	NAMES OF INDIVIDUALS ON JOINT INSPECTION
soft Cav	Mike Entergovard - Eco sphere
Slope 16	THIS CONTRACTOR OF THE PARTY OF
Drainage Month and West	
Land Use TMEING A MINPIPEL	
Special Stipulations:	
Compact in 1 tout 145 In	•
fill who ill	
Ct kail to day a to	
- Stockfile (res to Chill Max Ch)	
- ilse for till remain, recruce sic	ibe, 1 8 1 72 6
Kernite tence	n t
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to seal botton	
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tor I rollab	Control of the second
1161	J. 1961 Call Call Call Call Call Call Call Cal
48 hour notification for let	
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BLM CONDITIONS OF APPROVAL

Operator Burlington Resources O&G Co.	Well Name 2 Marcotte
Legal Location 1540' FSL/ 935' FEL	Sec. <u>8</u> T. <u>31 N.</u> R. <u>10 W.</u>
Lease Number SF-078604	Field Inspection Date 3/3/97

The following conditions of approval will apply to this well unless a particular Surface Managing Agency or private surface owner has supplied to BLM and the operator a contradictory environmental stipulation. The failure of the operator to comply with these requirements may result in the assessment of liquidated damages or penalties pursuant to 43 CFR 3163.1 or 3163.2. A copy of these conditions of approval shall be present on the location during construction, drilling and reclamation activity.

An agreement between operator and fee land owner will take precedence over BLM surface stipulations unless (In reference to 43 CFR Part 3160) 1) BLM determines that the operator's actions will affect adjacent Federal or Indian surface, or 2) the operator does not maintain well area and lease premises in a workmanlike manner with due regard for safety, conservation and appearance, or 3) no such agreement exists, or 4) in the event of well abandonment, minimal Federal restoration requirements will be required.

- 1. Upgrade existing access road leading to proposed well pad.
- 2. Cut and chip all trees to be used as mulch for the fill slope rehab.
- 3. The reserve pit will be constructed then it will be determined how to line this pit.
- 4. The allotrnent boundary fence will be rerouted around the pad on the west side, this will be constructed on the top of the fill slope.
- 5. The operator or his contractor will contact the BLM Farmington District Office, Environmental Compliance Staff, at (505) 599-8900, approximately 48 hours prior to construction activities.
- 6. The top δ inches of soil material will be stripped and stockpiled on the north side of the location for reserve pit reclamation.
- 7. Pits and/or pad will be constructed long and narrow, or to conform to natural contour of terrain, so as to avoid the hill side on the east and the hazard of pit failure.
- 8. The final cut slope shall not exceed a 3:1 ratio. The final fill slope shall not exceed a 2:1 ratio. The fill slope on the west side will be terraced and compacted in one foot lifts. To obtain this ratio, pits and slopes shall be backsloped into the pad upon completion of drilling and prior to setting production equipment. Construction slopes can be much steeper during drilling, but will be contoured to the above final slopes upon reclamation.
- 9. All above ground structures shall be painted to blend with the natural color of the landscape. The paint used shall be: Federal 595a-34127 (Juniper Green).

LOCATION AND ACCESS ROAD

1. Well area and lease premises will be maintained in a workmanlike manner with due regard to safety, conservation and appearance. All liquid waste, completion fluids and drilling products associated

with oil and gas operations will be contained and then buried in place, or removed and deposited in an approved disposal site.

- 2. Surface disturbance and vehicular traffic will be limited to the approved location and approved access road.
- 3. Mud pits and blow pits will be constructed so as not to leak, break or allow discharge of liquids or produced solids. At least half of the capacity of the reserve pit must be in cut. The top of the outside wall of reserve pit should be smoothed-off with a minimum of one blade width. The pit should have adequate capacity to maintain 2 feet of free board. Pits are not to be located in natural drainages. Pit walls are to be "walked down" by a crawler type tractor following construction and prior to usage. Any plastic material used to line pits must be removed to below-ground level before pits are covered. The final grade of reserve pit (after reclamation) shall allow for drainage away from pit area.
- 4. All unguarded pits (reserve/production/blow pits) containing liquids will be fenced with woven wire. Drilling pits will be fenced on three sides and once the rig leaves location, the fourth side will be fenced. All fencing must be a legal fence in accordance with New Mexico State Law. Liquids in pits will be allowed to evaporate, or be properly disposed of, before pits are filled and recontoured. (This office will be notified 24 hours prior to fluid hauling). Under no circumstances will pits be cut and drained. Aeration of pit fluids must be confined within pit area. Upon completion of the well the reserve pit will be covered with screening or netting and remained covered until the pit is reclaimed. All production pits 16 feet in diameter or larger will be covered with screening or netting.
- 5. No gravel or other related minerals from new or existing pits on Federal land will be used in construction of roads, well sites, etc., without prior approval from the Surface Managing Agency.
- 6. Berms or firewalls will be constructed around all storage facilities sufficient in size to contain the storage capacity of tanks, or the combined capacity of tanks if a rupture could drain more than one tank. Berm walls will be compacted with appropriate equipment to assure proper construction.
 - 7. All roads on public land must be maintained in good passable condition.
- 8. Use of pesticides and herbicides shall comply with the applicable Federal and State laws. Pesticides and herbicides shall be used only in accordance with their registered uses and within limitations imposed by the Secretary of the Interior. Prior to the use of pesticides, Holder shall obtain from the Authorized Officer (AO) written approval of a plan showing the type and quantity of material to be used, pest(s) to be controlled, method of application, location of storage and disposal of containers, and any other information deemed necessary by the AO. Emergency use of pesticides shall be approved in writing by the AO prior to use.
- 9 Holder shall be responsible for weed control on disturbed areas within the limits of the well pad and associated road. Holder is responsible for consultation with the AO and/or local authorities for acceptable weed control methods within limits imposed in the conditions of approval.

II. <u>CULTURAL RESOURCES (ARCHAEOLOGY)</u>

1. DISCOVERY OF CULTURAL RESOURCES IN THE ABSENCE OF MONITORING: If, in its operations, operator/holder discovers any previously unidentified historic or prehistoric cultural resources, then work in the vicinity of the discovery will be suspended and the discovery promptly reported to BLM District Manager. BLM will then specify what action is to be taken. If there is an approved "discovery

plan" in place for the project, then the plan will be executed. In the absence of an approved plan, BLM will evaluate the significance of the discovery and consult with the State Historic Preservation Officer in accordance with 36 CFR Section 800.11. Minor recordation, stabilization, or data recovery may be performed by BLM or a permitted cultural resources consultant. If warranted, more extensive treatment by a permitted cultural resources consultant may be required of the operator/holder prior to allowing the project to proceed. Further damage to significant cultural resources will not be allowed until any required treatment is completed. Failure to notify the BLM about a discovery may result in civil or criminal penalties in accordance with the Archeological Resources Protection Act of 1979 (as amended).

- 2. DISCOVERY OF CULTURAL RESOURCES DURING MONITORING: If monitoring confirms the presence of previously unidentified cultural resources, then work in the vicinity of the discovery will be suspended and the monitor will promptly report the discovery to BLM District Manager. BLM will then specify what action is to be taken. If there is an approved "discovery plan" in place for the project, then the plan will be executed. In the absence of an approved plan, BLM will evaluate the significance of the discovery and consult with State Historic Preservation Officer in accordance with 36 CFR Section 800.11. Minor recordation, stabilization, or data recovery may be performed by BLM or a permitted cultural resources consultant. If warranted, more extensive treatment by a permitted cultural resources consultant may be required of operator/holder prior to allowing the project to proceed. Further damage to significant cultural resources will not be allowed until any required treatment is completed.
- 3. DAMAGE TO SITES: If, in its operations, operator/holder damages, or is found to have damaged any previously documented or undocumented historic or prehistoric cultural resources, excluding "discoveries" as noted above, the operator/holder agrees at his/her expense to have a permitted cultural resources consultant prepare and have executed a BLM approved data recovery plan. Damage to cultural resources may result in civil or criminal penalties in accordance with the Archeological Resources Protection Act of 1979 (as amended).

III. RESEEDING AND ABANDONMENT

SEED MIX NO. 2--BLM

Crested Wheatgrass(Agropyton desertorum)	3 lbs
Fourwing Saltbush (dewinged)(Atriplex canescens)	2 lbs
Russian Wildrye (Elymus junceus)	
Indian Ricegrass(Orysopsis hymenoides)	2 lbs
Western Wheatgrass(Agropyron smithii)	2 1bs

Species shall be planted in pounds of pure live seed per acre:

Present Pure Live Seed (PLS) = Purity X Germination/100 Two lots of seed can be compared on the basis of PLS as follows:

Source No. One (poor quality)		Source No. two	Source No. two (better quality)		
Purity	50 percent	Purity	80 percent		
Germination	40 percent	Germination	63 percent		
Percent PLS	20 percent	Percent PLS	50 percent		
5 lb. bulk seed required to		2 lb. bulk see	2 lb. bulk seed required to		
make I lb. PLS. make I lb. I		LS.			

The seed mixture used must be certified. There shall be <u>NO</u> primary or secondary noxious weeds in the seed mixture.

Seed labels from each bag shall be available for inspection while seeding is being accomplished.

Seeding shall be accomplished between July 1 and September 15 (later date may be extended on a case-by-case basis with Authorized Officer approval). Seeding shall be repeated if a satisfactory stand is not obtained as determined by the Authorized Officer upon evaluation after the second growing season.

Compacted areas shall be ripped to a depth of 12 inches and disked to a depth of six inches before seeding. Seed with a disk-type drill with two boxes for various seed sizes. Drill rows shall be eight to ten inches apart. Seed shall be planted at not less than one-half inch deep or more than one inch deep. Seeder shall be followed with a drag, packer, or roller to ensure uniform coverage of the seed, and adequate compaction. Drilling shall be done on the contour where possible, not up and down the slope.

Where slopes are too steep for contour drilling a "cyclone" hand seeder or similar broadcast seeder shall be used. Seed shall then be covered to the depth described above by whatever means is practical, i.e. hand raked. If the seed is not covered, the prescribed seed mixture amount (pounds/acre/PLS) will be doubled.

If, upon abandonment of wells, the retention of access road is not considered necessary for the management and multiple use of the natural resources, it will be ripped a minimum of 12" in depth. After ripping, water bars will be installed. All ripped surfaces are to be protected from vehicular travel by construction of a dead end ditch and earthen barricade at the entrance to these ripped areas. (Reseeding of affected areas may be required.)

1/93

BLM REPORT NO: 97(11) 071F-JOB CODE: 1310

UNITED STATES DEPARTMENT OF THE INTERIOR FARMINGTON DISTRICT

RECORD OF REVIEW - CULTURAL RESOURCE REPORT COVER SHEET
(The National Historic Preservation Act of 1966, as ammended)
(The National Environmental Policy Act of 1969, as ammended)
(The Federal Land Policy and Management Act of 1976)

(The Federal Land Policy and Management Act of 1976)
1. Description of Report:
Date of Inventory 2/16/97 Institution Arbiles
Date of Report 2/21/97 Institution Ref. # 1037
Date Received by BLM $6/3/97$ Antiquities Permit * $97-2910-96$
Author Tohn Kershner Project Sponsor Burlington
Undertaking (list each action with T, R, Sec., Map, report recommendations, etc.)
Marcott #2 Cedar Hil
Lec 8, T31N RIOW
1540 FSL 935 FEL
Area Surveyed: 620 x 700;
No cultural Resources.
and the second of the second o
Report Summary: BLM Land Other Total
Acres Inventoried
Sites Recorded Prev.Recorded Sites Sites Avoided Sites Treated

2. Results of Review: Reviewer:	BLM Report No. 47(111) 07/	E
Field Check: Date Results:	1	
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Date Accepted by BLM 6/3/97 Date Revisions Accepted	Date Not Accepted by BLM	:
Date Revisions Accepted	Date Recommendations Changed .	
3. Consultation with Multiple Use Staff	<u>E</u>	
Specialist	Date	···
4. Consultation with the State Historic	: Preservation Officer	
SHPO Comments:		
5. Action Summary	Stipulations attached	•
PROCEED with action		
· ·		
WITHOLD action until: applicant responds to changes		•
non-Federal lands are surveyed		;
SHPO comments are received		:
APPLICANT Abandoned project	_	
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7 Harris Managar	3,27	
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State Historic Preservation Officer		

page 2



United States Department of the Interior

FISH AND WILDLIFE SERVICE

97 APR 21 Rewinded to Ecological Services Field Office 2105 Osuna NE 070 FARMINGTONAIM Querque, New Mexico 87113 Phone: (505) 761-4525 Fax: (505) 761-4542

April 17, 1997

Cons. #2-22-97-I-214

Mike Fitzgerald, Projects Manager Ecosphere Environmental Services, Inc. 5850 East Main Street, Suite B Farmington, New Mexico 87402

Dear Mr. Fitzgerald:

This responds to your March 17, 1997, letter requesting a species list for the Burlington Resources proposed Marcotte #2 Natural Gas Well Pad Project in San Juan County, New Mexico. The proposed project involves construction of a well pad on 4.59 acres in an area adjacent to an existing well pad site, on public lands managed by the Bureau of Land Management, Farmington District. Due to staffing constraints, we are unable to provide a species list specific to your immediate project area. However, a list of endangered, threatened, and candidate species, and species of concern that may be found in San Juan County where the proposed project is located is enclosed. Under the Endangered Species Act (Act), it is the responsibility of the Federal action agency or its designated representative to determine whether the proposed action "may affect" any listed or proposed species.

Candidates are those species for which the U.S Fish and Wildlife Service (Service) has sufficient information on their biological status and threats to propose them as endangered or threatened, but for which issuance of a proposed rule is precluded by work on higher priority species. Species of concern include those for which further biological research and field study are needed to resolve their conservation status. Candidate species and species of concern have no legal protection under the Act and are included in this document for planning purposes only. However, the Service is concerned and would appreciate receiving any status information that is available or gathered on these species.

Wetlands, riparian vegetation, and the above listed species' sensitive habitats on or near the site should be protected. If adverse impacts cannot be avoided, we would appreciate discussing your project in more detail. We suggest you contact the New Mexico Department of Game and Fish and the New Mexico Energy, Minerals, and Natural Resources Department, Forestry and Resources Conservation Division for information concerning fish, wildlife, and plants of State concern.



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Farmington District Office 1235 La Plata Highway Farmington, New Mexico 87401



1N REPLATREFER TO: 3162.3-1 (070)

Burlington Resources O&G Company 2 Marcotte Santa Fe 078604 NEI/48EI/4 Sec. 8, T. 31 N., R. 10 W. San Juan County, New Mexico

Above Data Required on Well Sign

GENERAL REQUIREMENTS FOR OIL AND GAS OPERATIONS ON FEDERAL AND INDIAN LEASES

In addition to those requirements set forth in the laws, regulations and Onshore Orders, these requirements apply generally to all oil and gas operations on Federal and Indian leases. They apply specifically to the above-described well. Special requirements that apply and are effective for this well, if any, are check-marked in Section VII of these General Requirements. The failure of the operator to comply with these requirements and the filing of required reports will result in strict enforcement of 43 CFR 3163.1 or 3163.2.

I. GENERAL

- A. Full compliance with all applicable laws, regulations, and Onshore Orders, with the approved Permit to Drill, and with the approved Surface Use and Operations Plan is required. Lessees and/or operators are fully accountable for the actions of their contractors and subcontractors.
- B. Each well shall have a well sign in legible condition from spud date to final abandonment. The sign should show the operator's name, lease serial number, or unit name, well number, location of the well, and whether lease is Tribal or allotted, (see 43 CFR 3162.6(b)).
- C. A complete copy of the approved Application for Permit to Drill, along with any conditions of approval, shall be available to authorized personnel at the drill site whenever active drilling operations are under way.
- D. For Wildcat wells only, a drilling operations progress report is to be submitted, to the BLM-District Office, weekly from the spud date until the well is completed and the Well Completion Report (Form 3160-4) is filed. The report should be on 8 1/2 x 11 inch paper, and each page should identify the well by; operator's name, well number, location and lease number.
- E. As soon as practical, notice is required of all blowouts, fires and accidents involving life-threatening injuries or loss of life. (See NTL-3A).

- F. Prior approval by the BLM-Authorized Officer (Drilling and Production Section) is required for variance from the approved drilling program and before commencing plugging operations, plug back work, casing repair work, corrective cementing operations, or suspending drilling operations indefinitely. Emergency approval may be obtained orally, but such approval is contingent upon filing of a notice of intent (on a Sundry Notice, Form 3160-5) within three business days (original and three copies on Federal leases and an original and four copies on Indian leases).
- G. The Area Manager's Office (Inspection and Enforcement Section, phone number (505) 599-8907) is to be notified at least 24 hours in advance of any cementing or plugging operations so that a BLM representative may witness the operations.
- H. Unless drilling operations are commenced within one year, approval of the Application for Permit to Drill will expire. A written request for a six month extension may be granted if submitted prior to expiration.
- I. From the time drilling operations are initiated and until drilling operations are completed, a member of the drilling crew or the toolpusher shall maintain rig surveillance at all times, unless the well is secured with blowout preventers or cement plugs.

IL REPORTING REQUIREMENTS

- A. For reporting purposes, all leases, communitization agreements or unit agreements are to be referenced by the numbers and prefixes affixed to the respective contract documents by the issuing agency at the time of issue.
- B. The following reports shall be filed with the BLM-Authorized Officer within 30 days after the work is completed:
- 1. Original and three copies on Federal and Original and four copies on Indian leases of Sundry Notice (Form 3160-5), giving complete information concerning:
- a. Setting of each string of casing. Show size and depth of hole, grade and weight of casing, depth set, depth of any and all cementing tools that are used, amount (in cubic feet) and types of cement used, whether cement circulated to surface and all cement tops in the casing annulus, casing test method and results, and the date work was done. Show spud date on first report submitted.
- b. Intervals tested, perforated (include; size, number and location of perforations), acidized, or fractured; and results obtained. Show date work was done (a Sundry Notice is not required if a Completion Report is submitted within 30 days of the operation).
- c. Subsequent Report of Abandonment, showing the manner in which the well was plugged, including depths where casing was cut and pulled, intervals (by depths) where cement plugs were placed, and dates of the operations.
- 2. Well Completion Report (Form 3160-4) will be submitted within 30 days after well has been completed.
- a. Initial Bottom Hole Pressure (BHP) for the producing formations. Show the BHP on the completion report. The pressure may be: 1) measured with a bottom hole bomb, or; 2) calculated based on shut in surface pressures (minimum seven day buildup) and fluid level shot.

3. A cement evaluation log if cement is not circulated to surface.

III. DRILLER'S LOG

A. The following shall be entered in the daily driller's log: 1) Blowout preventer pressure tests, including test pressures and results. 2) Blowout preventer tests for proper functioning, 3) Blowout prevention drills conducted, 4) Casing run, including size, grade, weight, and depth set, 5) How pipe was cemented, including amount of cement, type, whether cement circulated to surface, location of cementing tools, etc., 6) Waiting on cement time for each casing string, 7) Casing pressure tests after cementing, including test pressure and results and 8) Estimated amounts of oil and gas recovered and/or produced during drillstem tests.

IV. GAS FLARING

- A. Gas produced from this well may not be vented or flared beyond an initial, authorized test period of ____*__days or 50 MMcf following its (completion) (recompletion), whichever first occurs, without the prior, written approval of the authorized officer. Should gas be vented or flared without approval beyond the test period authorized above, you may be directed to shut-in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted, and you shall be required to compensate the lessor for that portion of the gas vented or flared without approval which is determined to have been avoidably lost.
- * 30 days, unless a longer test period specifically is approved by the authorized officer. The 30-day period begins when the casing is first perforated for cased holes, and when Total Depth (TD) is reached for open hole completion.

V. SAFETY

- A. All rig heating stoves are to be of the explosion-proof type.
- B. Rig safety lines are to be installed.
- C. Hard hats must be utilized.

VI. CHANGE OF PLANS OR ABANDONMENT

- A. Any change of plans required in order to mitigate unanticipated conditions encountered during drilling operations, will require approval as set forth in Section I.F.,
- B. If the well is dry it is to be plugged in accord with 43 CFR 3162.3-4, approval of the proposed plugging program is required as set forth in Section I.F.. The report should show the total depth reached, the reason for plugging, and the proposed intervals, by depths, where cement plugs are to be placed, type of plugging mud, etc. A Subsequent Report of Abandonment is required as set forth in Section II.B.1.c..
- C. Unless a well has been properly cased and cemented, or properly plugged, the drilling rig must not be moved from the drillsite without prior approval from the BLM-Authorized Officer

VII. SPECIAL STIPULATIONS

The following special requirements apply and are effective when checked:

- A. A Communitization Agreement covering the acreage dedicated to the well must be filed for approval with the Bureau of Land Management, Farmington District Office, Branch of Reservoir Management, 1235 La Plata Highway, Farmington, New Mexico 87401. The effective date of the agreement must be Prior to any sales.
- B. The Branch Chief for the FDO Branch Of Drilling & Production (the Authorized Officer) requires testing all components of well control systems at the pressure requirements set forth in Onshore Oil and Gas Order No. 2, Section III. A. 1., plus a 30% safety factor, and does not elect to utilize the discretionary authority for requiring the testing of selected components at the A. P. L working pressures.

Z C. Note Attachments.

Please Note: the BOP AND RELATED EQUIPMENT OHEAK LISTS for the required izems that were omitzed in the drilling plan.