

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

State of New Mexico  
Energy, Minerals & Natural Resources Department

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

Form C-101  
Revised February 10, 1994  
Instructions on back  
Submit to Appropriate District Office  
State Lease - 6 Copies  
Fee Lease - 5 Copies

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUG BACK, OR ADD A ZONE

Operator Name and Address. <b>MACK ENERGY CORPORATION</b> P.O. BOX 960 ARTESIA, NM 88211-0960		OGRID Number 013837
Property Code 15854	Property Name Big George State	API Number 30-015-78759
Well No. 3		

7 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	12	17	28		1650	SOUTH	1650	EAST	EDDY

8 Proposed Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Proposed Pool 1 SWD;CISCO 96099					Proposed Pool 2				

Work Type Code N	Well Type Code S	Cable/Rotary R	Lease Type Code S	Ground Level Elevation 3710'
Multiple NO	Proposed Depth 8800	Formation CISCO	Contractor LARUE DRILLING	Spud Date 12-5-95

21 Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17 1/2"	13 3/8"	54#	300'	350 SX	CIRC
12 1/2"	8 5/8"	24#	2670'	1500 SX	CIRC
7 7/8"	5 1/2"	17#	8800'	1000 SX	CIRC

22 Describe the proposed program. If this application is to DEEPEN or PLUG BACK give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

Mack energy proposes to drill to 300', run 13 3/8" casing and cement. Drill to 2670', run 8 5/8" casing and cement. Drill to 8800', run 5 1/2" casing and cement. Perf Cisco formation, run 2 7/8" plastic coated tbg w/trump packer. Set Packer at 8600'. Circ corrosion inhibited fluid. Set packer test casing to 500#. Put well on as SWD.

Post ID-1  
12-29-95  
New loc & API

SWD# 611

I hereby certify that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Crissa D. Carter</i>		OIL CONSERVATION DIVISION	
Printed name: Crissa D. Carter		Approved by: ORIGINAL SIGNED BY TIM W. GUM	
Title: Production Clerk		Title: DISTRICT II SUPERVISOR	
Date: 11-29-95		Approval Date: 12/20/95	Expiration Date: 6/20/96
Phone: (505) 748-1288		Conditions of Approval: Attached <input type="checkbox"/>	

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

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

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

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-102  
Revised February 10, 1994  
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OIL CONSERVATION DIVISION

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number <b>30-015-28759</b>	Pool Code <b>96099</b>	Pool Name <b>SWD;Cisco</b>
Property Code <b>15854</b>	Property Name <b>BIG GEORGE STATE</b>	Well Number <b>X2 3</b>
OGRID No. <b>013837</b>	Operator Name <b>MACK ENERGY CORPORATION</b>	Elevation <b>3710'</b>

Surface Location

UL or lot No. <b>J</b>	Section <b>12</b>	Township <b>17 S</b>	Range <b>28 E</b>	Lot Idn	Feet from the <b>1650</b>	North/South line <b>SOUTH</b>	Feet from the <b>1650</b>	East/West line <b>EAST</b>	County <b>EDDY</b>
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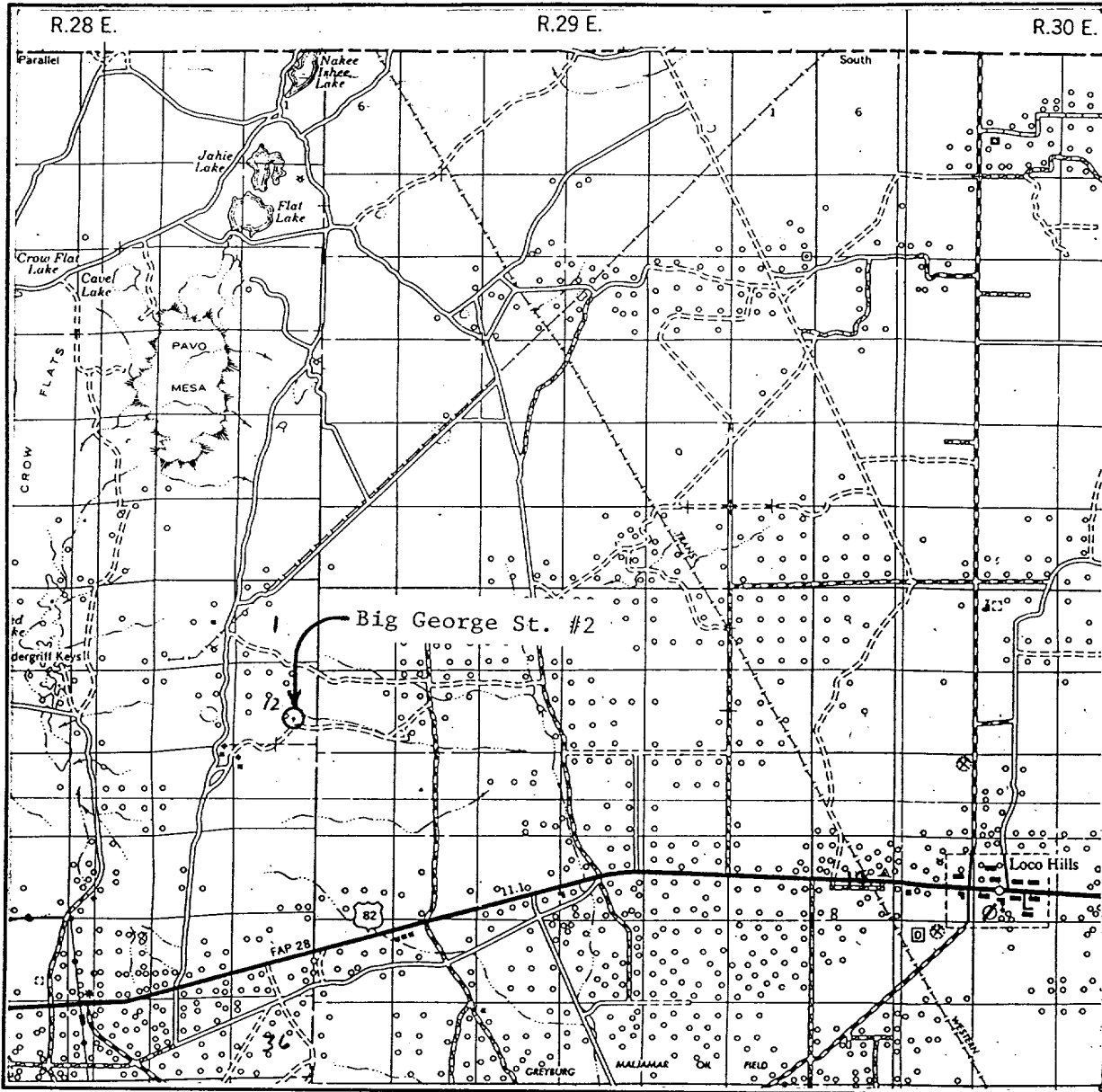
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres		Joint or Infill	Consolidation Code	Order No.					

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

	<b>OPERATOR CERTIFICATION</b> <i>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</i>   Signature Crissa D. Carter Printed Name Production Clerk Title 11-29-95 Date	
	<b>SURVEYOR CERTIFICATION</b> <i>I hereby certify that the well location shown on this plat was plotted from field notes of actual survey, or under my supervision and the same is true and correct.</i>  Date Surveyed <b>3239</b> Signature & Seal of Professional Surveyor  W.O. Nurn 94-11-1780	
	Certificate No. JOHN W. WEST, 676 RONALD J. EIDSON, 3239	

# VICINITY MAP



SCALE: 1" = 2 MILES

SEC. 12 TWP. 17 S RGE. 28 E

SURVEY N.M.P.M.

COUNTY Eddy STATE N.M.

DESCRIPTION 1650' FSL & 1650' FEL

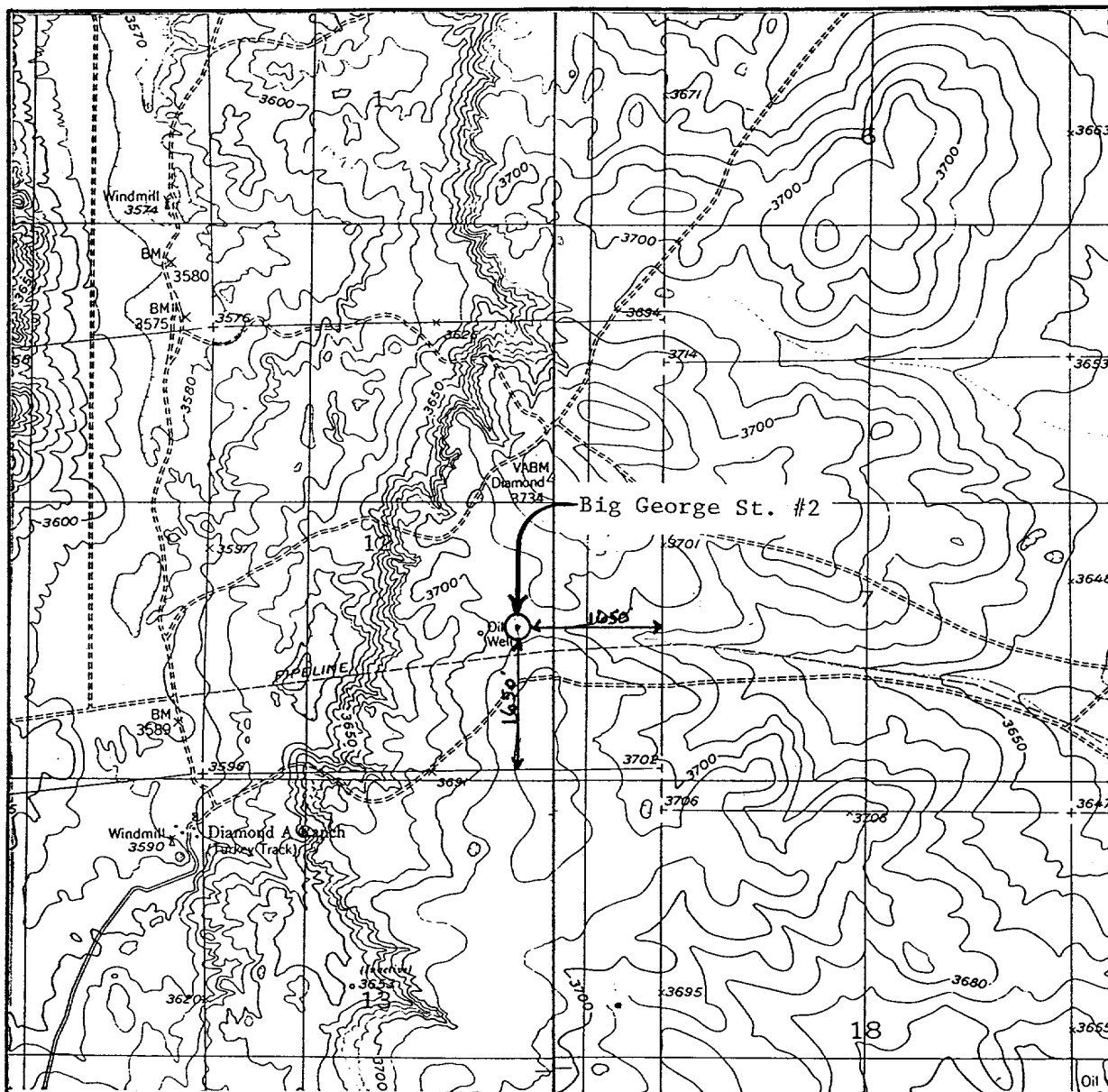
ELEVATION 3710'

OPERATOR Mack Energy Corp.

LEASE Big George State No. 2

**JOHN WEST ENGINEERING**  
**HOBBS, NEW MEXICO**  
**(505) 393-3117**

# LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL 10'

SEC. 12 TWP. 17 S RGE. 28 E

SURVEY N.M.P.M.

COUNTY Eddy STATE N.M.

DESCRIPTION 1650' FSL & 1650' FEL

ELEVATION 3710'

OPERATOR Mack Energy Corp.

LEASE Big George State No. 2

U.S.G.S. TOPOGRAPHIC MAP

Red Lake

**JOHN WEST ENGINEERING**  
**HOBBS, NEW MEXICO**  
**(505) 393-3117**

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PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico  
Energy, Minerals & Natural Resources Department  
**OIL CONSERVATION DIVISION**  
PO Box 2088  
Santa Fe, NM 87504-2088

Form C-104  
Revised February 10, 1994  
Instructions on back  
Submit to Appropriate District Office  
5 Copies

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

Operator Name and Address <b>MACK ENERGY CORPORATION P.O. BOX 960 ARTESIA, NM 88211-0960</b>		OGRID Number <b>013837</b>
		Reason for Filing Code <b>NW</b>
API Number <b>30-015-28759</b>	Pool Name <b>SWD, CISCO</b>	Pool Code <b>96099</b>
Property Code <b>15854</b>	Property Name <b>Big George State</b>	Well Number <b>3</b>

II. Surface Location

UL or lot no. <b>J</b>	Section <b>12</b>	Township <b>17S</b>	Range <b>28E</b>	Lot. Idn	Feet from the <b>1650</b>	North/South Line <b>South</b>	Feet from the <b>1650</b>	East/West Line <b>East</b>	County <b>Eddy</b>
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Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West Line	County
Lease Code <b>S</b>	Producing Method Code	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

IV. Produced Water

POD	POD ULSTR Location and Description

V. Well Completion Data

Spud Date <b>4/11/97</b>	Ready Date <b>5/14/97</b>	TD <b>8409</b>	PBTD <b>8376</b>	Perforations <b>8377-8409 Open Hole</b>
Hole Size <b>17 1/2</b>	Casing & Tubing Size <b>13 3/8</b>	Depth Set <b>289</b>	Sacks Cement <b>350</b>	
<b>11</b>	<b>8 5/8</b>	<b>2663</b>	<b>900</b>	
<b>7 7/8</b>	<b>5 1/2</b>	<b>8360</b>	<b>1150</b>	
	<b>2 7/8</b>	<b>8234</b>		

VI. Well Test Data

Date New Oil	Gas Delivery Date	Test Date	Test Length	Tbg. Pressure	Csg. Pressure
Choke Size	Oil	Water	Gas	A O F	Test Method

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: <i>Crissa D. Carter</i>		OIL CONSERVATION DIVISION Approved by: <b>ORIGINAL SIGNED BY TIM W. GUM</b> Title: <b>DISTRICT II SUPERVISOR</b> Approval Date: <b>JUN 6 1997</b>	
Printed name: <b>Crissa D. Carter</b>			
Title: <b>Production Clerk</b>			
Date: <b>5/22/97</b>	Phone: <b>(505)748-1288</b>		

If this is a change of operator fill in the OGRID number and name of the previous operator.		Name:	OGRID #:
Previous Operator Signature	Printed Name	Title	Date

Submit to Appropriate  
District Office  
State Lease - 6 copies  
Fee Lease - 5 copies  
DISTRICT I  
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811 South First, Artesia, NM 88210

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

State of New Mexico  
Energy, Minerals and Natural Resources Department

**OIL CONSERVATION DIVISION**  
2040 South Pacheco  
Santa Fe, New Mexico 87505

Form C-105  
Revised 1-1-89

CISI  
BLM  
BWM  
SKM

WELL APINO.
30-015-28759
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEB <input type="checkbox"/>
6. State Oil & Gas Lease No. V-3138

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

1. Type of Well: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> OTHER <u>SWD</u>	7. Lease Name or Unit Agreement Name  Big George State
b. Type of Completion: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> Deepen <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESER. <input type="checkbox"/> OTHER <input type="checkbox"/>	8. Well No. 3
2. Name of Operator Mack Energy Corporation	9. Pool name or Wildcat SWD, Cisco
3. Address of Operator P.O. Box 960, Artesia, NM 88211-0960	

4. Well Location Unit Letter <u>J</u> : <u>1650</u> Feet From The <u>South</u> Line and <u>1650</u> Feet From The <u>East</u> Line Section <u>12</u> Township <u>17S</u> Range <u>28E</u> NMPM <u>Eddy</u> County					
10. Date Spudded 4/11/97	11. Date TD Reached 4/29/97	12. Date Compl. (Ready to Prod.) 5/14/97	13. Elevations (DF & RKB, RT, GR, etc.) 3724 KB	14. Elev. Casinghead 3710	
15. Total Depth 8409	16. Plug Back TD 8376	17. If Multiple Compl. How Many Zones?	18. Intervals Drilled B	Rotary Tools Yes	Cable Tools
19. Producing Interval(s), of this completion - Top, Bottom, Name 8377-8409, CISCO					20. Was Directional Survey Made Yes
21. Type Electric and Other Logs Run GAMMA RAY, NEUTRON, CEMENT BOND LOG					22. Was Well Cored No

**CASING RECORD (Report all strings set in well)**

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8	54	289	17 1/2	Circ, 350 sxs	NONE
8 5/8	24	2663	11	Circ, 900 sxs	NONE
5 1/2	17	8360	7 7/8	475, 1150 sxs	NONE

24. LINER RECORD					25. TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2 7/8"	8234	

26. Perforation record (interval, size, and number)  8377-8409 Open Hole	27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.	
	DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
	8377-8409	Natural

**PRODUCTION**

28. Date First Production		Production Method (Flowing, gas lift, pumping - Size and type pump)				Well Status (Prod. or Shut-in)	
Date of Test	Hours Tested	Choke Size	Prod'n For Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - (Corr.)	
29. Disposition of Gas (Sold, used for fuel, vented, etc.)						Test Witnessed By	

30. List Attachments

31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Signature Crissa D. Carter Printed Name Crissa D. Carter Title Production Clerk Date 5/22/97

Deviation surveys taken on Mack Energy Corporation's Big George #3 well  
in Eddy County, New Mexico:

<u>Depth</u>	<u>Degree</u>
290	.75
729	.75
1182	.75
1652	.25
2151	1.25
2245	.75
2670	1.00
3150	.75
3650	.75
4121	.25
4619	.75
5153	.75
5649	1.25
5897	1.00
6174	.50
6547	1.00
6794	1.75
7242	.75
7713	1.00
8179	.50

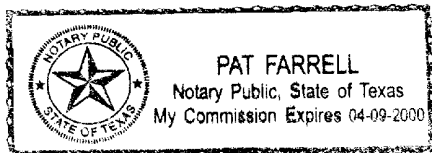
I hereby certify that I have personal knowledge of the facts placed on this  
sheet and that such information given above is true and complete.

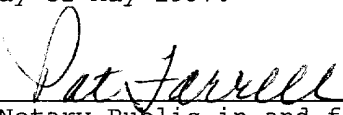
  
\_\_\_\_\_  
Norton Drilling Company

Before me, the undersigned authority, on this day personally appeared John  
W. Norton, known to me to be the person whose name is subscribed hereto, who,  
after being duly sworn, on oath states that he is the drilling contractor  
of the well identified in this instrument and that such well was not  
intentionally deviated from the vertical whatsoever.

  
\_\_\_\_\_  
John W. Norton

SWORN AND SUBSCRIBED TO before me this 7th day of May 1997.



  
\_\_\_\_\_  
Notary Public in and for  
Lubbock County, Texas.

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

DISTRICT II  
811 South First, Artesia, NM 88210

DISTRICT III  
1000 Rio Brazos Rd, Aztec, NM 87410

OIL CONSERVATION DIVISION  
2040 South Pacheco  
Santa Fe, New Mexico 87505

WELL API NO. 30-015-28759
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No. B-3138
7. Lease Name or Unit Agreement Name Big George State
8. Well No. 3
9. Pool name or Wildcat SWD

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS).	
1. Type Of Well: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>	
2. Name of Operator Mack Energy Corporation	
3. Address of Operator P.O. Box 960, Artesia, NM 88211-0960	
4. Well Location Unit Letter <u>J</u> : <u>1650</u> Feet From The <u>South</u> Line and <u>1650</u> Feet From The <u>East</u> Line Section <u>12</u> Township <u>17S</u> Range <u>28E</u> NMPM <u>Eddy</u> County	
10. Elevation (Show whether DF, RKB, RT, GR, etc.) 3710' GR	

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>		CASING TEST AND CEMENT JOB <input checked="" type="checkbox"/>	
OTHER: <input type="checkbox"/>		OTHER <input checked="" type="checkbox"/>	TD, Cement Long String Csg

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

04/30/97 T.D. 7 7/8" Hole @ 8409. RIH w/guide shoe, Packer Stage collar (Davis Lynch) & 195 jts 5 1/2" 17# J-55 LT&C. Land casing @ 8377'. Top of Packer Stage collar @ 8360' & DV Tool @ 4487'. RU BJ & pump capacity of csg. Drop bomb & wait 45 min. Pressure up on packer until Packer opened @ 600#. Broke Circulation w/55 bbls, Cemented 1st stage with 400 sx 35/65 6, 3# salt, 1/4# CF, & 200 sx 50/50 C Poz, 2% gel, 5/10 FL-25, 5# salt. Open DV Tool Circ Hole for 8 hours did not circulate out any cement. Cemented 2nd stage with 450 sx 35/65 6, 3# salt, 1/4# CF, & 100 sx 50/50 C Poz, 2% gel, 5/10 FL-25, 5# salt. Did not Circulate cement to surface. WOC 12 hrs, Ran Temperature Survey and found TOC @ 475'. WOC tstd csg to 600# for 20 minutes - held okay.

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

SIGNATURE Robert C Chase TITLE Vice President DATE 5/6/97

TYPE OR PRINT NAME Robert C Chase TELEPHONE NO. 748-1288

(This space for State Use)

ORIGINAL SIGNED BY TIM W. GUM  
DISTRICT II SUPERVISOR

APPROVED BY TIM W. GUM TITLE DISTRICT II SUPERVISOR DATE MAY 14 1997

CONDITIONS OF APPROVAL, IF ANY:



Submit 3 Copies  
to Appropriate  
District Office

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-103  
Revised 1-1-89

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

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811 South First, Artesia, NM 88210

DISTRICT III  
1000 Rio Brazos Rd, Aztec, NM 87410

OIL CONSERVATION DIVISION  
2040 South Pacheco  
Santa Fe, New Mexico 87505

WELL API NO. 30-015-28759
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No. B-3138

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS).	
1. Type Of Well: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>	7. Lease Name or Unit Agreement Name Big George State
2. Name of Operator Mack Energy Corporation	8. Well No. 3
3. Address of Operator P.O. Box 960, Artesia, NM 88211-0960	9. Pool name or Wildcat SWD
4. Well Location Unit Letter <u>J</u> : <u>1650</u> Feet From The <u>South</u> Line and <u>1650</u> Feet From The <u>East</u> Line Section <u>12</u> Township <u>17S</u> Range <u>28E</u> NMPM <u>Eddy</u> County	
10. Elevation (Show whether DF, RKB, RT, GR, etc.) 3710' GR	

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data			
NOTICE OF INTENTION TO		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>		CASING TEST AND CEMENT JOB <input checked="" type="checkbox"/>	
OTHER: <input type="checkbox"/>		OTHER <u>TD, cmt csg</u> <input checked="" type="checkbox"/>	

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

4/11/97 7 a.m. Spud 17 1/2" Hole. TD 17 1/2" Hole at 290', rig up run 13 3/8" csg. would not go past 173', POH Rig up and run reamer.

4/12/97 POH with drill pipe and reamer and bit, Ran 7 joints 13 3/8" 54# ST&C K-55. Landed casing at 289'. BJ Service Cement with 350 sacks Class C 2% CaCl, Circ 5 sacks, Plug down at 3:30 a.m. WOC 18 hours. Tested csg to 1800# f/30 minutes - held okay.

4/16/97 TD 11" hole at 2670', POH with drill pipe and collars and bit, RIH with 64 joints 8 5/8" 32# ST&C J-55 csg. Landed casing at 2663'. BJ Cement with 650 sacks 35/65 6# gel, 6# Salt 1/4# flocele tail in with 250 sacks Class C with 2% CaCl, Circ 121 sacks. WOC 18 hours, Tested csg to 1800# f/30 minutes - held okay.

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

SIGNATURE Robert C. Chase TITLE Vice President DATE 4/17/97  
TYPE OR PRINT NAME Robert C Chase TELEPHONE NO. 748-1288

(This space for State Use)

ORIGINAL SIGNED BY TIM W. GUM  
DISTRICT II SUPERVISOR

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE APR 28 1997

CONDITIONS OF APPROVAL, IF ANY:

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APPLICATION FOR PERMIT TO DRILL, RE-ENTER, **RECEIVED** OR ADD A ZONE

Operator Name and Address Mack Energy Corporation P.O. Box 960 Artesia, NM 88211-0960		OGRID Number 013837
Property Code 015854		API Number 30-015-28759
Property Name Big George State		Well No. 3

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	12	17S	28E		1650	South	1650	East	Eddy

Proposed Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J									
Proposed Pool 1					Proposed Pool 2				

Work Type Code	Well Type Code	Cable/Rotary	Lease Type Code	Ground Level Elevation
N	S	R	S	3710'
Multiple	Proposed Depth	Formation	Contractor	Spud Date
N	8800'	Cisco	Norton	4/1/97

Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17 1/2	13 3/8	48	300	350	CIRC
12 1/4	8 5/8	32	2670	1500	CIRC
7 7/8	5 1/2	17	8450	Suff. to Circ	CIRC

Describe the proposed program. If this application is to DEEPEN or PLUG BACK give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

Mack Energy proposes to Drill a Salt Water Disposal as follows: Drill 17 1/2" hole to 300', run 13 3/8" casing and cement. Drill to 2670', run 8 5/8" casing and cement. Drill to 8450', run casing and cement. Drill out of 5 1/2" to 8800', run 2 7/8" plastic coated tubing with Halliburton Trump packer. Set packer at 8400'. Put well on as SWD.

\*See Attached BOP Schematic.

I hereby certify that the information given above is true and complete to the best of my knowledge and belief Signature <i>Crissa D. Carter</i>		OIL CONSERVATION DIVISION	
Printed name: Crissa D. Carter		Approval by: <b>ORIGINAL SIGNED BY TIM W. GUM</b>	
Title: Production Clerk		Title: <b>DISTRICT II SUPERVISOR</b>	
Date: 3/17/97		Approval Date: 3-24-97	Expiration Date: 3-24-98
Phone: (505)748-1288		Conditions of Approval: Attached <input type="checkbox"/>	

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

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

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

State of New Mexico  
Energy, Minerals and Natural Resources Department

RECEIVED

Form C-102  
Revised February 10, 1994  
Instruction on back  
Submitted to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

MAR 18 1997

OIL CONSERVATION DIVISION

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

OIL CON. DIV.

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code 96099	Pool Name SWD;Cisco
Property Code 15854	Property Name BIG GEORGE STATE	Well Number XX 3
OGRID No. 013837	Operator Name MACK ENERGY CORPORATION	Elevation 3710'

Surface Location

UL or lot No. J	Section 12	Township 17 S	Range 28 E	Lot Idn	Feet from the 1650	North/South line SOUTH	Feet from the 1650	East/West line EAST	County EDDY
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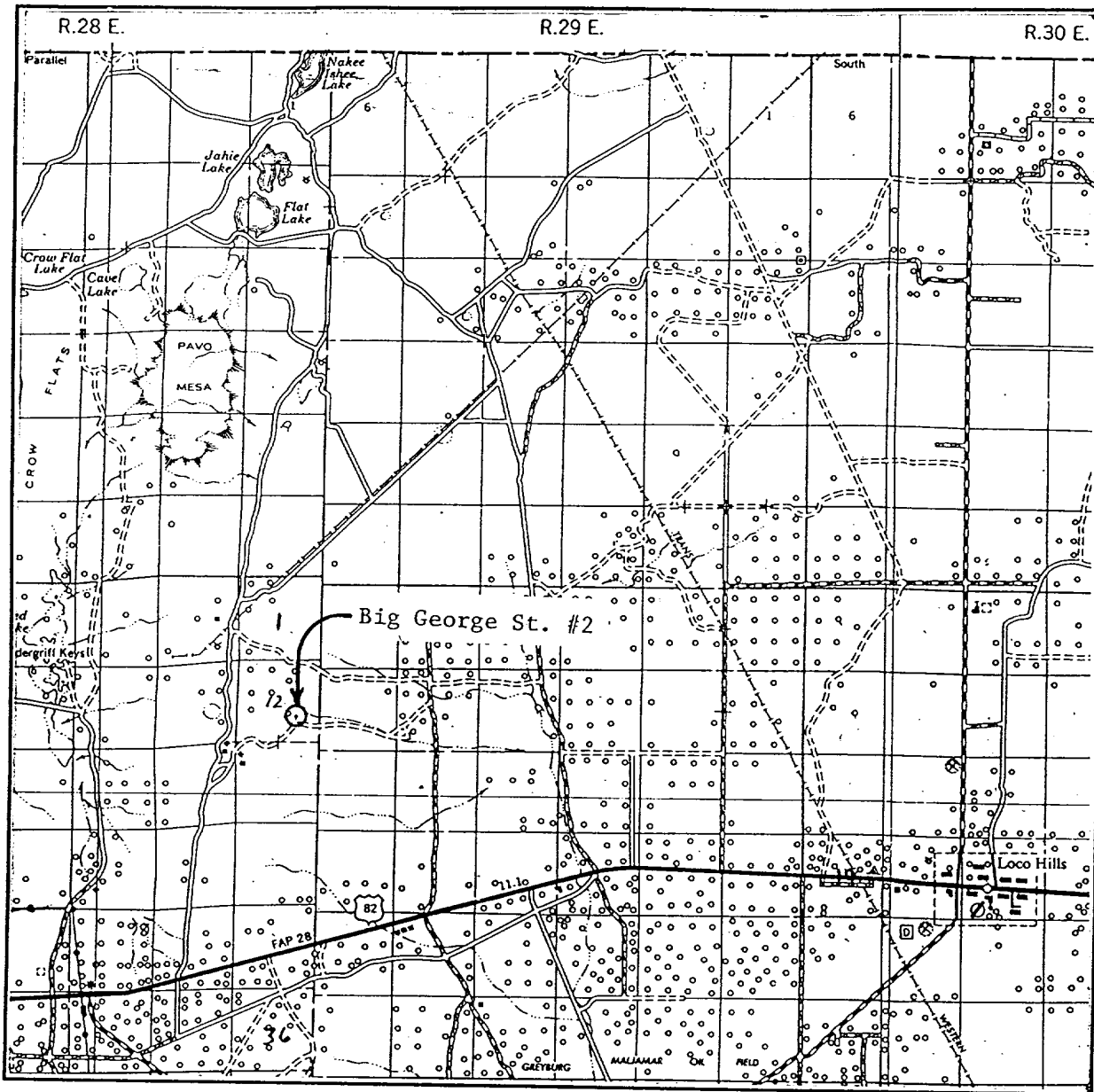
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joint or Infill	Consolidation Code	Order No.						

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

				OPERATOR CERTIFICATION	
				I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.	
				Signature <i>Crissa D. Carter</i>	
				Printed Name Crissa D. Carter	
				Title Production Clerk	
				Date 11-29-95	
				SURVEYOR CERTIFICATION	
				I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made under my supervision, and that the same are true and correct to the best of my knowledge and belief.	
				Date Surveyed 3239	
				Signature & Seal of Professional Surveyor <i>Ronald J. Eidson</i>	
				W.O. Num. 94-11-1780	
				Certificate No. JOHN W. WEST, 676 RONALD J. EIDSON, 3239	

# VICINITY MAP



SCALE: 1" = 2 MILES

SEC. 12 TWP. 17 S RGE. 28 E

SURVEY N.M.P.M.

COUNTY Eddy STATE N.M.

DESCRIPTION 1650' FSL & 1650' FEL

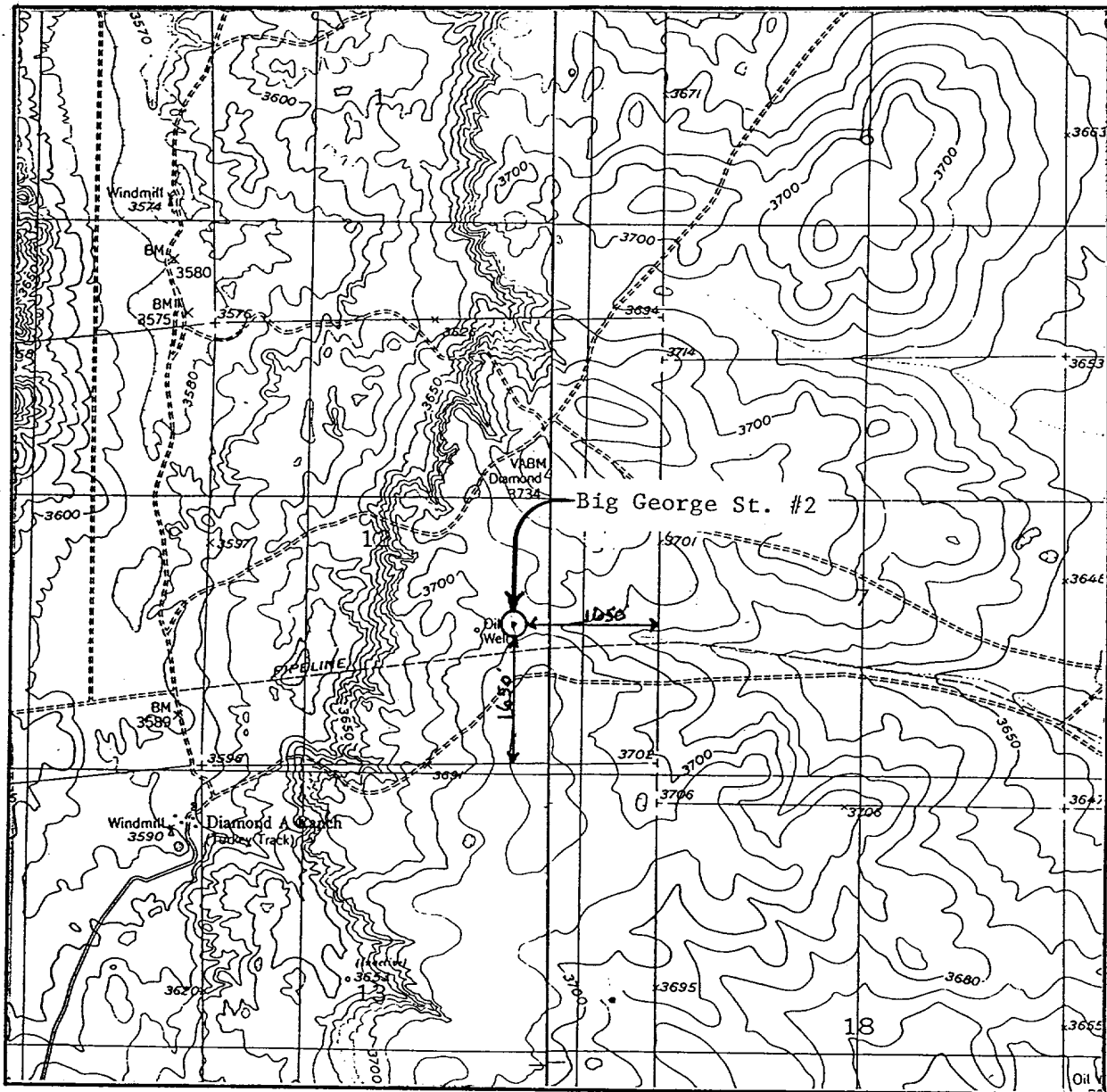
ELEVATION 3710'

OPERATOR Mack Energy Corp.

LEASE Big George State No. 2

**JOHN WEST ENGINEERING**  
**HOBBS, NEW MEXICO**  
**(505) 393-3117**

# LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL 10'

SEC. 12 TWP. 17 S RGE. 28 E

SURVEY N.M.P.M.

COUNTY Eddy STATE N.M.

DESCRIPTION 1650' FSL & 1650' FEL

ELEVATION 3710'

OPERATOR Mack Energy Corp.

LEASE Big George State No. 2

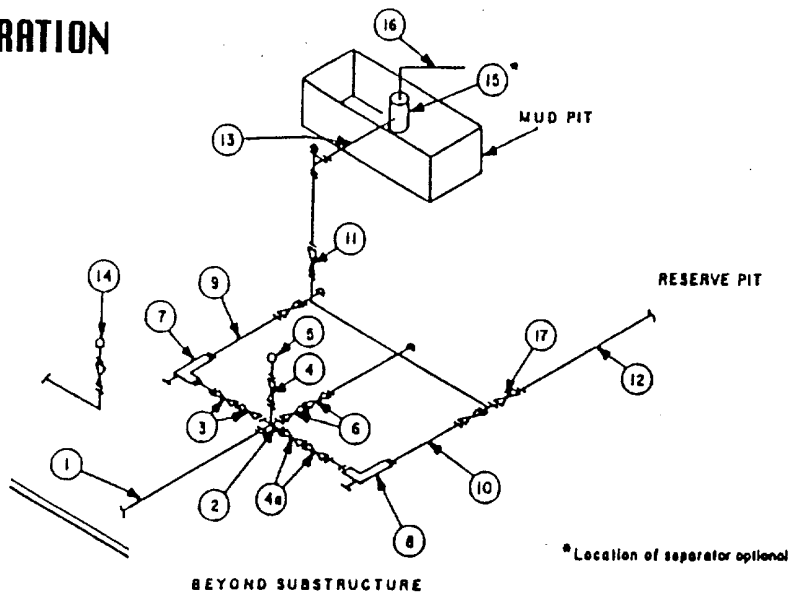
U.S.G.S. TOPOGRAPHIC MAP

Red Lake

**JOHN WEST ENGINEERING  
HOBBS, NEW MEXICO  
(505) 393-3117**

**MINIMUM CHOKE MANIFOLD**  
 3,000, 5,000 and 10,000 PSI Working Pressure  
*2M will be used or greater*  
 3 MWP - 5 MWP - 10 MWP

**MACK ENERGY CORPORATION**  
**EXHIBIT #1-A**



MINIMUM REQUIREMENTS										
No.		3,000 MWP			5,000 MWP			10,000 MWP		
		I.D.	NOMINAL	RATING	I.D.	NOMINAL	RATING	I.D.	NOMINAL	RATING
1	Line from drilling spool		3"	3,000		3"	5,000		3"	10,000
2	Cross 3"x3"x3"x2"			3,000			5,000			
	Cross 3"x3"x3"x3"									10,000
3	Valves (1) Gate <input type="checkbox"/> Plug <input type="checkbox"/> (2)	3-1/8"		3,000	3-1/8"		5,000	3-1/8"		10,000
4	Valve Gate <input type="checkbox"/> Plug <input type="checkbox"/> (2)	1-13/16"		3,000	1-13/16"		5,000	1-13/16"		10,000
4a	Valves (1)	2-1/16"		3,000	2-1/16"		5,000	3-1/8"		10,000
5	Pressure Gauge			3,000			5,000			10,000
6	Valves Gate <input type="checkbox"/> Plug <input type="checkbox"/> (2)	3-1/8"		3,000	3-1/8"		5,000	3-1/8"		10,000
7	Adjustable Choke (3)	2"		3,000	2"		5,000	2"		10,000
8	Adjustable Choke	1"		3,000	1"		5,000	2"		10,000
9	Line		3"	3,000		3"	5,000		3"	10,000
10	Line		2"	3,000		2"	5,000		3"	10,000
11	Valves Gate <input type="checkbox"/> Plug <input type="checkbox"/> (2)	3-1/8"		3,000	3-1/8"		5,000	3-1/8"		10,000
12	Lines		3"	1,000		3"	1,000		3"	2,000
13	Lines		3"	1,000		3"	1,000		3"	2,000
14	Remote reading compound standpipe pressure gauge			3,000			5,000			10,000
15	Gas Separator		2'x5'			2'x5'			2'x5'	
16	Line		4"	1,000		4"	1,000		4"	2,000
17	Valves Gate <input type="checkbox"/> Plug <input type="checkbox"/> (2)	3-1/8"		3,000	3-1/8"		5,000	3-1/8"		10,000

(1) Only one required in Class 3M.

(2) Gate valves only shall be used for Class 10M.

(3) Remote operated hydraulic choke required on 5,000 psi and 10,000 psi for drilling.

**EQUIPMENT SPECIFICATIONS AND INSTALLATION INSTRUCTIONS**

1. All connections in choke manifold shall be welded, studded, flanged or Cameron clamp of comparable rating.
2. All flanges shall be API 6B or 6BX and ring gaskets shall be API RX or BX. Use only BX for 10 MWP.
3. All lines shall be securely anchored.
4. Chokes shall be equipped with tungsten carbide seats and needles, and replacements shall be available.
5. Choke manifold pressure and standpipe pressure gauges shall be available at the choke manifold to assist in regulating chokes. As an alternate with automatic chokes, a choke manifold pressure gauge shall be located on the rig floor in conjunction with the standpipe pressure gauge.
6. Line from drilling spool to choke manifold should be as straight as possible. Lines downstream from chokes shall make turns by large bands or 90° bends using bull plugged tees.

# MINIMUM BLOWOUT PREVENTER REQUIREMENTS

2,000 psi Working Pressure

2 MWP

## MACK ENERGY CORPORATION EXHIBIT #1-A

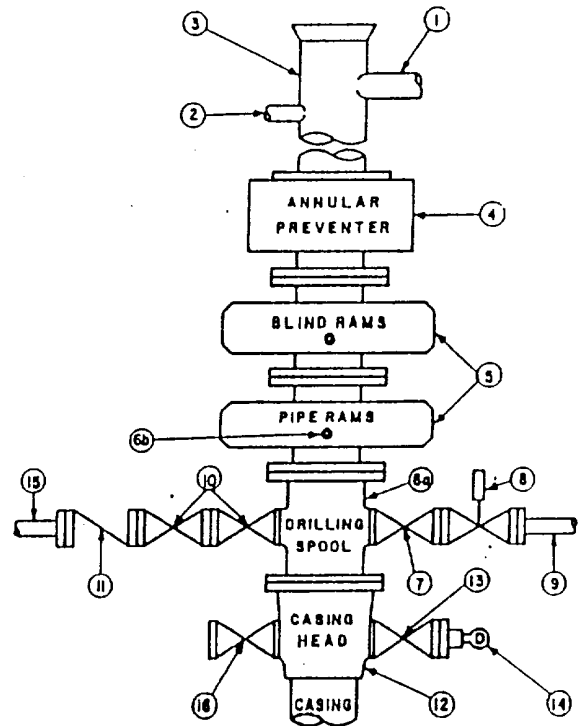
### STACK REQUIREMENTS

No.	Item	Min. I.D.	Min. Nominal
1	Flowline		
2	Fill up line		2"
3	Drilling nipple		
4	Annular preventer		
5	Two single or one dual hydraulically operated rams		
6a	Drilling spool with 2" min. kill line and 3" min choke line outlets		2" Choke
6b	2" min. kill line and 3" min. choke line outlets in ram. (Alternate to 6a above.)		
7	Valve <input type="checkbox"/> Gate <input type="checkbox"/> Plug <input type="checkbox"/>	3-1/8"	
8	Gate valve—power operated	3-1/8"	
9	Line to choke manifold		3"
10	Valves <input type="checkbox"/> Gate <input type="checkbox"/> Plug <input type="checkbox"/>	2-1/16"	
11	Check valve	2-1/16"	
12	Casing head		
13	Valve <input type="checkbox"/> Gate <input type="checkbox"/> Plug <input type="checkbox"/>	1-13/16"	
14	Pressure gauge with needle valve		
15	Kill line to rig mud pump manifold		2"

### OPTIONAL

16	Flanged valve	1-13/16"	
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CONFIGURATION A



### CONTRACTOR'S OPTION TO FURNISH:

1. All equipment and connections above bradenhead or casinghead. Working pressure of preventers to be 2,000 psi, minimum.
2. Automatic accumulator (80 gallon, minimum) capable of closing BOP in 30 seconds or less and, holding them closed against full rated working pressure.
3. BOP controls, to be located near drillers position.
4. Kelly equipped with Kelly cock.
5. Inside blowout preventer or its equivalent on derrick floor at all times with proper threads to fit pipe being used.
6. Kelly saver-sub equipped with rubber casing protector at all times.
7. Plug type blowout preventer tester.
8. Extra set pipe rams to fit drill pipe in use on location at all times.
9. Type RX ring gaskets in place of Type R.

### MEC TO FURNISH:

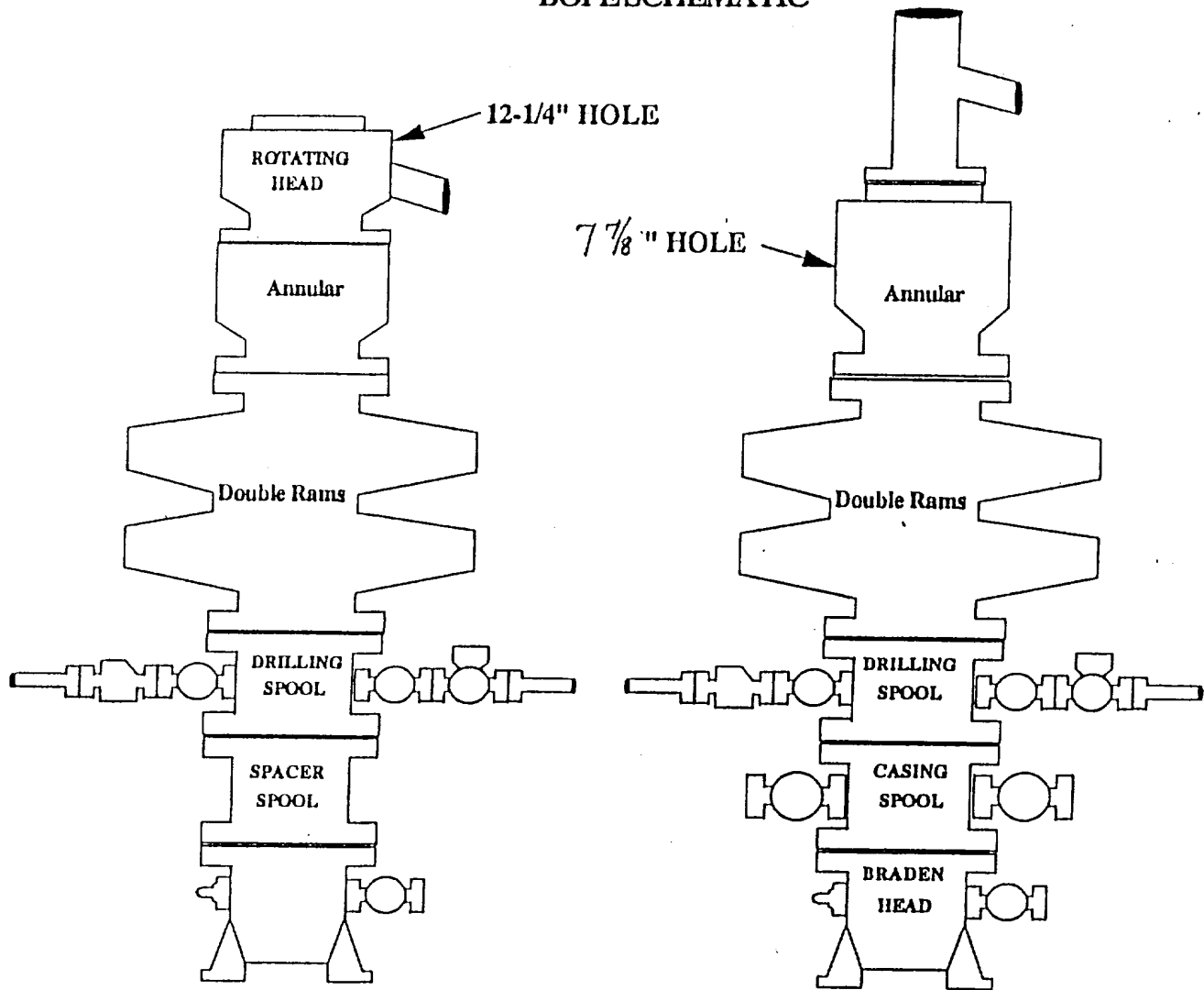
1. Bradenhead or casinghead and slide valves.
2. Wear bushing, if required.

### GENERAL NOTES:

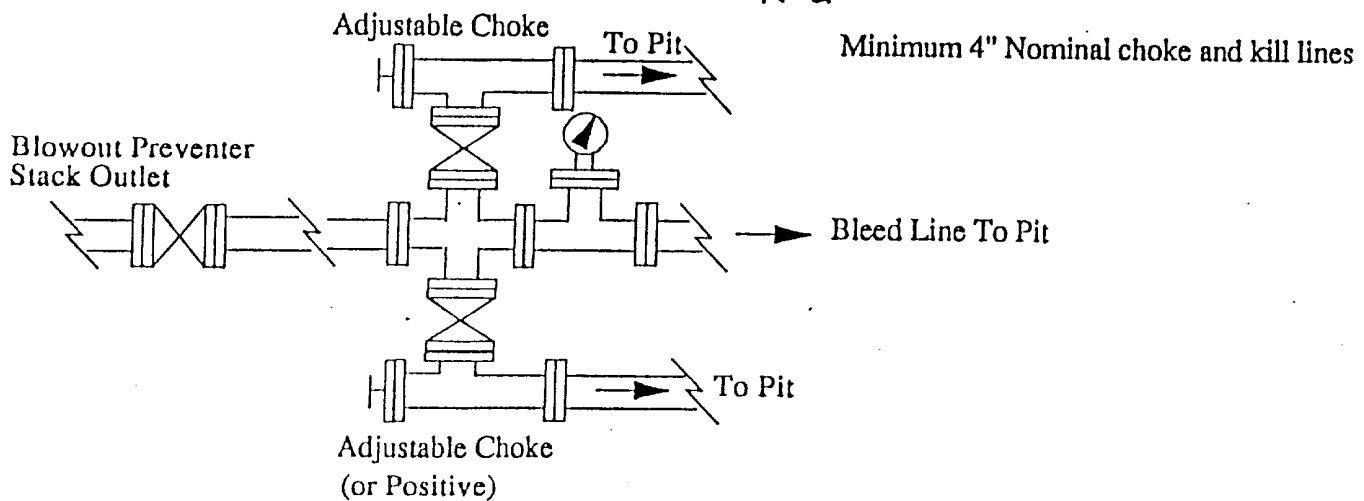
1. Deviations from this drawing may be made only with the express permission of MEC's Drilling Manager.
2. All connections, valves, fittings, piping, etc., subject to well or pump pressure must be flanged (suitable clamp connections acceptable) and have minimum working pressure equal to rated working pressure of preventers up through choke. Valves must be full opening and suitable for high pressure mud service.
3. Controls to be of standard design and each marked, showing opening and closing position.
4. Chokes will be positioned so as not to hamper or delay changing of choke beans. Replaceable parts for adjustable choke, other bean sizes, retainers, and choke wrenches to be conveniently located for immediate use.
5. All valves to be equipped with handwheels or handles ready for immediate use.
6. Choke lines must be suitably anchored.

7. Handwheels and extensions to be connected and ready for use.
8. Valves adjacent to drilling spool to be kept open. Use outside valves except for emergency.
9. All seamless steel control piping (2,000 psi working pressure) to have flexible joints to avoid stress. Hoses will be permitted.
10. Casinghead connections shall not be used except in case of emergency.
11. Do not use kill line for routine fill-up operations.

# BOPE SCHEMATIC



Choke Manifold Requirement (2000 psi WP)  
NO ANNULAR REQ'D



**MACK ENERGY CORPORATION**  
EXHIBIT #1-A



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

State of New Mexico  
Energy, Minerals & Natural Resources Department

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

Form C-101  
Revised February 10, 1994  
Instructions on back  
Submit to Appropriate District Office  
State Lease - 6 Copies  
Fee Lease - 5 Copies

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUG BACK, OR ADD A ZONE

Operator Name and Address. <b>MACK ENERGY CORPORATION</b> P.O. BOX 960 ARTESIA, NM 88211-0960		OGRID Number 013837
Property Code 15854	Property Name Big George State	API Number 30-015-28759
		Well No. 3

7 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	12	17	28		1650	SOUTH	1650	EAST	EDDY

8 Proposed Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Proposed Pool 1 SWD;CISCO 96099					Proposed Pool 2				

Work Type Code N	Well Type Code S	Cable/Rotary R	Lease Type Code S	Ground Level Elevation 3710'
Multiple NO	Proposed Depth 8800	Formation CISCO	Contractor LARUE DRILLING	Spud Date 12-5-95

21 Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17 1/2"	13 3/8"	54#	300'	350 sx	CIRC
12 1/2"	8 5/8"	24#	2670'	1500 sx	CIRC
7 7/8"	5 1/2"	17#	8800'	1000 sx	CIRC

22 Describe the proposed program. If this application is to DEEPEN or PLUG BACK give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

Mack energy proposes to drill to 300', run 13 3/8" casing and cement. Drill to 2670', run 8 5/8" casing and cement. Drill to 8800', run 5 1/2" casing and cement. Perf Cisco formation, run 2 7/8" plastic coated tbg w/trump packer. Set Packer at 8600'. Circ corrosion inhibited fluid. Set packer test casing to 500#. Put well on as SWD.

Post ID-1  
12-29-95  
New boe & API

SWD# 611

23 I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

Signature:

*Crissa D. Carter*

Printed name:

Crissa D. Carter

Title:

Production Clerk

Date:

11-29-95

Phone:

(505) 748-1288

OIL CONSERVATION DIVISION

Approved by:

ORIGINAL SIGNED BY TIM W. GUM

Title:

DISTRICT II SUPERVISOR

Approval Date:

12/20/95

Expiration Date:

6/20/96

Conditions of Approval:

Attached ☐

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

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-102  
Revised February 10, 1994  
Instruction on back  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

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

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

OIL CONSERVATION DIVISION

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number <b>30-015-28759</b>	Pool Code <b>96099</b>	Pool Name <b>SWD;Cisco</b>
Property Code <b>15854</b>	Property Name <b>BIG GEORGE STATE</b>	Well Number <b>X2 3</b>
OGRID No. <b>013837</b>	Operator Name <b>MACK ENERGY CORPORATION</b>	Elevation <b>3710'</b>

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<b>J</b>	<b>12</b>	<b>17 S</b>	<b>28 E</b>		<b>1650</b>	<b>SOUTH</b>	<b>1650</b>	<b>EAST</b>	<b>EDDY</b>

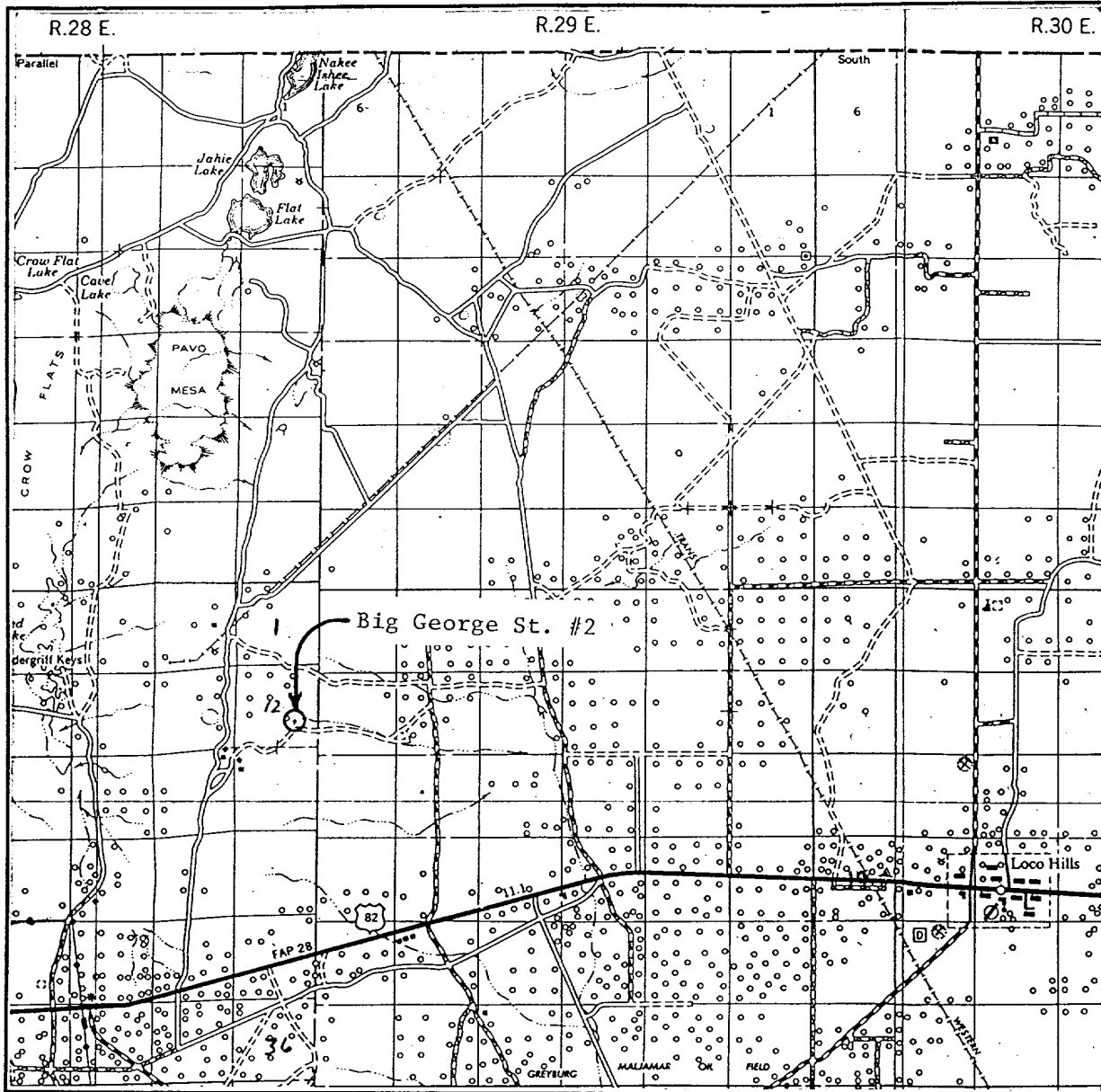
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres		Joint or Infill		Consolidation Code		Order No.			

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

	<b>OPERATOR CERTIFICATION</b>  I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.   Signature Crissa D. Carter Printed Name Production Clerk Title 11-29-95 Date	
	<b>SURVEYOR CERTIFICATION</b>  I hereby certify that the well location shown on this plat was plotted from field notes of actual survey, made by me or under my supervision, and that the same is true and correct to the best of my belief.   Date Surveyed: <b>OCTOBER 13, 1994</b> Signature & Seal of Professional Surveyor W.O. Num. <b>94-11-1780</b>	
	Certificate No. <b>JOHN W. WEST, 676</b> <b>RONALD J. EIDSON, 3239</b>	

# VICINITY MAP



SCALE: 1" = 2 MILES

SEC. 12 TWP. 17 S RGE. 28 E

SURVEY N.M.P.M.

COUNTY Eddy STATE N.M.

DESCRIPTION 1650' FSL & 1650' FEL

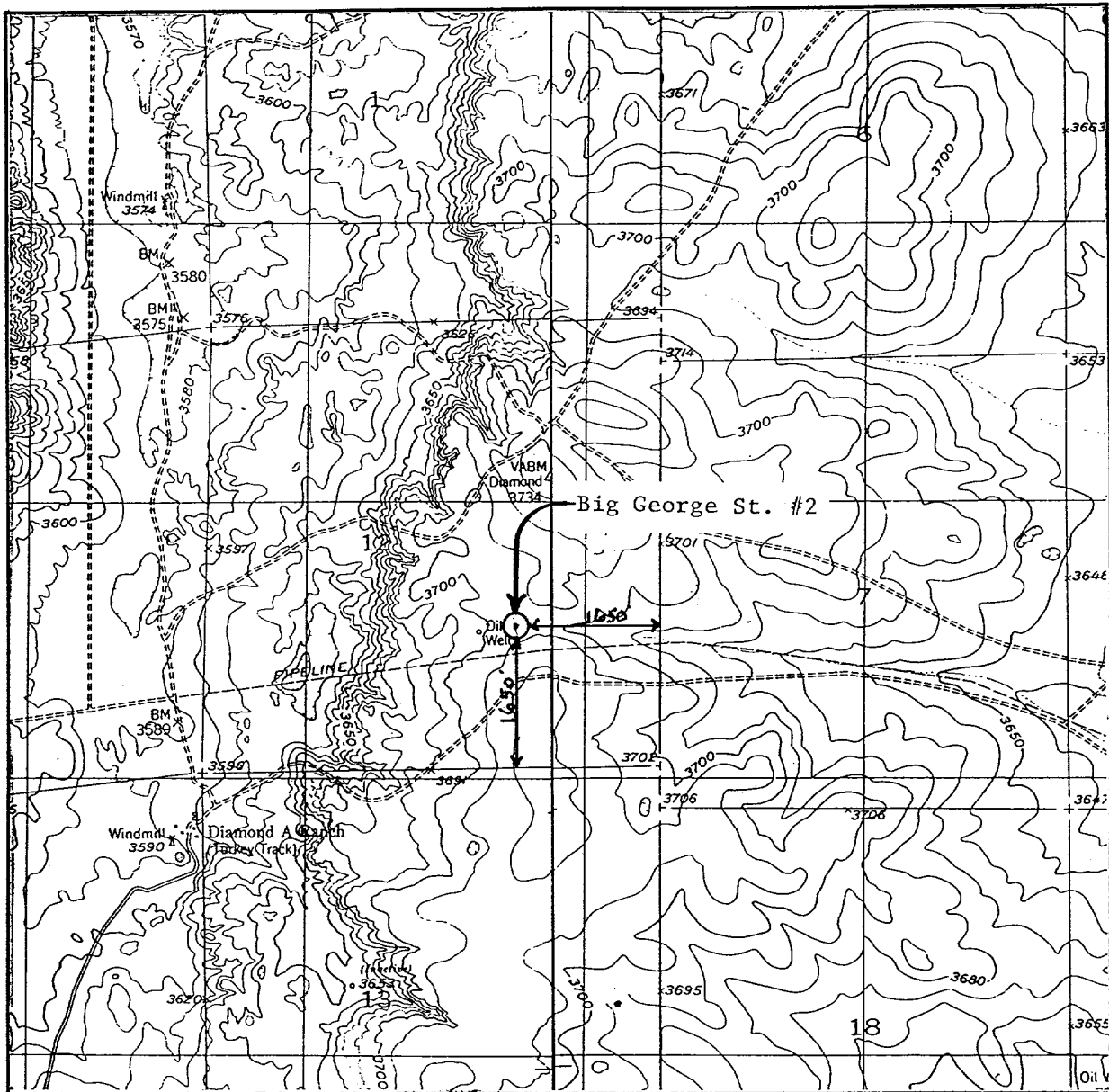
ELEVATION 3710'

OPERATOR Mack Energy Corp.

LEASE Big George State No. 2

**JOHN WEST ENGINEERING**  
**HOBBS, NEW MEXICO**  
**(505) 393-3117**

# LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL 10'

SEC. 12 TWP. 17 S RGE. 28 E

SURVEY N.M.P.M.

COUNTY Eddy STATE N.M.

DESCRIPTION 1650' FSL & 1650' FEL

ELEVATION 3710'

OPERATOR Mack Energy Corp.

LEASE Big George State No. 2

U.S.G.S. TOPOGRAPHIC MAP

Red Lake

**JOHN WEST ENGINEERING**  
**HOBBS, NEW MEXICO**  
**(505) 393-3117**