1b. Type of Well   Oil Well   X  Gas Well   Other   Single Zone   X Multiple Zone   T. Unit or CA Agreement Name and No.	(August 1999)	В	BUREAU OF LA	AND MANAGEM	1ENT				Expires: N	November 30, 200	)0
D. Type of Well   Oil Well     Gas Well   Other   Single Zone   Multiple Zone   T. Unit or CA. Agreement Name and No.	APPLICATION FOR PERMIT TO DRILL OR REENTER						5.	Lease Serial No.	07948	<u> </u>	
Name of Operator  Engreen Resources Corporation  3. Address Resources Corporation  4. Location of Welf (Report location clearly and in accordance with my State equirements)*  4. Location of Welf (Report location clearly and in accordance with my State equirements)*  4. Location of Welf (Report location clearly and in accordance with my State equirements)*  4. Location of Welf (Report location florance from nearest town or post office*  At proposed grod. zone  4. Location of Welf (Report location from nearest town or post office*  At proposed grod. zone  4. Location to make and direction from nearest town or post office*  Nine (9) miles NE of Gobernador. New Mexico  15. Distance from proposed of location to nearest well, drilling, completed, applied for, on this lease, n.  (Also to nearest well, drilling, completed, applied for, on this lease, n.  2700'  21. Elevations (Show whether DF, KDB, RT, GL, etc.  22. Approximate date work will start*  23. Elevations (Show whether DF, KDB, RT, GL, etc.  24. Attachments  24. Attachments  25. Signusture  Name (PrintedTypoul)  Doug Thomas  7/11/02  10. State from proposed location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office)  Name (PrintedTypoul)  Name (PrintedTypoul)  Doug Thomas  7/11/02  10. Supplication approval does not warrant or certify that the applicant holds legal or equitable title to those reports information and/or plans as may be required by the author of operations thereon.  Name (PrintedTypoul)  Doug Thomas  7/11/02  10. State State of Supplication approval does not warrant or certify that the applicant holds legal or equitable title to those reports information and/or plans as may be required by the author of operations thereon.  Name (PrintedTypoul)  Name (PrintedTypoul)  Doug Thomas  7/11/02	a. Type of Work	a X	PRILL	REENT	ER			6	If Indian, Allotee	or Tribe Name	
Energen Resources Corporation 3b. Address 2198 Bloomfield Hichway: Farminaton New Mexico 2198 Bloomfield Hichway: Farminaton New Mexico 3b. Phone No. (Include area code) 4. Location of Welf (Report Location clearly and to accordance with any State equirements)*  At surface 1425 FNL, 1235 FEL At proposed prod. zone  14. Distance in miles and direction from nearest town or post office*  Nine (9) miles NE of Gobernador. New Mexico  15. Distance from proposed clearly and in accordance with any State equirements)*  16. No of Acres in lease (Alton to nearest property of itsea line. B. (Alton to nearest well, drilling, completed, applied fro, no this lease, ft. 2700'  21. Elevations (Show whether DF, KDB, RT, GL. etc. 22. Approximate date work will start* 24. Attachments  The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form.  1. Well plat certified by a registered surveyor.  2. A Drilling Plan 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).  Name (PrintedTyped)  Doug Thomas  7/11/02  Title  Office  Name (PrintedTyped)  Doug Thomas  7/11/02  Title  Office  Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowlingly and willfully to make to any department or agency of the Unito State, any false, Settious or fraudulent statements or representations as a only matter within its jurisdiction.	lb. Type of Well	Oil Well	X Gas Well	Other	Sir	ngle Zone	Multiple Zor	ne 7	Unit or CA Agree	ment Name and N	Vo.
3a. Address 2198. Bloomfield Highway: Farmington New Mexico 4. Location of Well (Report location clearly and in accordance with any State equirements) 4. Location of Well (Report location clearly and in accordance with any State equirements) 4. Location of Well (Report location clearly and in accordance with any State equirements) 4. Location of Well (Report location clearly and in accordance with any State equirements) 4. Location of more and direction from nearest town or post office* Alt proposed prod. zone 4. Distance in miles and direction from nearest town or post office* Nine (9) miles NE of Gobernador, New Mexico  15. Distance from proposed* location to nearest property or lease line, (if any) 4. Substance from proposed location* 15. Distance from proposed location* 16. No. of Acres in lease 17. Spacing Unit declicated to this well 18. Distance from proposed location* 19. Proposed Depth 10. Blambath Bond No. on file 19. Proposed Depth 10. Blambath Bond No. on file 19. Proposed Depth 10. Blambath Bond No. on file 19. Proposed Depth 10. Blambath Bond No. on file 19. Proposed Depth 10. Blambath Bond No. on file 19. Proposed Depth 10. Blambath Bond No. on file 19. Proposed Depth 10. Blambath Bond No. on file 19. Proposed Depth 10. Blambath Bond No. on file 19. Proposed Depth 10. Blambath Bond No. on file 19. Proposed Depth 10. Blambath Bond No. on file 10. Blambath Bond No. on file 11. Well plat certified by a registered surveyor. 20. A Drilling Plan 21. A Drilling Plan 22. A Drilling Plan 23. Signulature 24. A Drilling Plan 25. Signulature 26. A Drilling Plan 26. Depth Bond No. on file 27. A Drilling Plan 28. Signulature 29. Signulature 29. Signulature 29. Signulature 29. Signulature 29. Name (Printed/Typed) 20. Depth Bond No. on file 29. Proposed Depth 20. Depth Bond No. on file 29. Proposed Depth Signal Plan 29. Depth Bond No. on file 29. Proposed Depth Signal Plan 29. Depth Bond No. on file 29. De	•					2	002 AUG -I	AM 18	Lease Name and V	Well No.	
219. Bloomfield History Control Court of Courty and in accordance with any State equirements)*  At surface 1425* FRL  At proposed prod. zone  Bit. and Survey or At proposed location to nearest property or lease line. ft. 22 county or Parsh   13. State   13. State   13. State   15. Spacing Unit dedicated to this well   24. Space   24. Space   24. Space   24. Space   25. Space		rces Corpora	ation			3b. Phone No.	(include area co	ode)			
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At proposed prod. zone    1. Sec., T., R. M., or Bik. and Survey or At H Sec. 28, T30N, R4W     14. Distance in miles and direction from nearest town or post office*     15. Distance from proposed*     16. No. of Acres in lease     17. Spacing Unit dedicated to this well     18. Distance from proposed location* to nearest group try or lease line, if any)     18. Distance from proposed location* to nearest group try or lease ine, fit.     19. Proposed Depth   20. BLM/BIA Bond No. on file     19. Proposed Depth   20. BLM/BIA Bond No. on file     19. Proposed Depth   20. BLM/BIA Bond No. on file     10. Blance from proposed location* to nearest group try or lease ine, fit.     19. Proposed Depth   20. BLM/BIA Bond No. on file     21. Elevations (Show whether DF, KDB, RT, GL, etc.   22. Approximate date work will start*     23. Estimated duration     24. Attachments     24. Attachments     25. Well plat certified by a registered surveyor.     26. A Distance from proposed location*     27. Well plat certified by a registered surveyor.     28. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office)     3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office)     3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office)     4. Bond to cover the operations unless covered by an existing bornd on file (see Item 20 above).     25. Signusture   Name (Printed/Typed)     26. Department of the Printed/Typed)     27. Date   Date     28. Disposable of the Cities	4. Location of Well	(Report location c	clearly and in acc	ordance with any St	ate equi						
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15. Distance from proposed* focation to nearest property or lease line, ft. (Also to nearest ground to nearest property or lease line, ft. (Also to nearest ground time, if any)   1235'   1819.52'	T D lotalion in Tillion in				idor.	New Mexico	)	- 1	•	l <sub>NM</sub>	
Property or lease line, fit. (Also to nearest drg. until line, if any)  18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, fit.  2700'  270		pposed*		<u> </u>				-			
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DRILLING OPERATIONS AGAINST AG	(instructions on Rev	,	PERATIONS AUTH COMPLIANCE W	HORIZED ARÊ JITH ATTACHED		Thi	s action is subje	ect to tech	nical or -		

DEFACINENT OF THE INTERIOR

"GENERAL REQUIREMENTS".

(August 1999)

procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

OCIO-4001 OVI GIVIO

District II PO Crawer DO, Artesia, NM 88211-0719

District III 1000 Fio Brazos Rd. Aztec. NM 87410

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe. NM 87504-2088 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

ree Lease - 3 Copies

AMENDED REPORT

District IV PO Box 2088, Santa Fe. NM 87504-2088

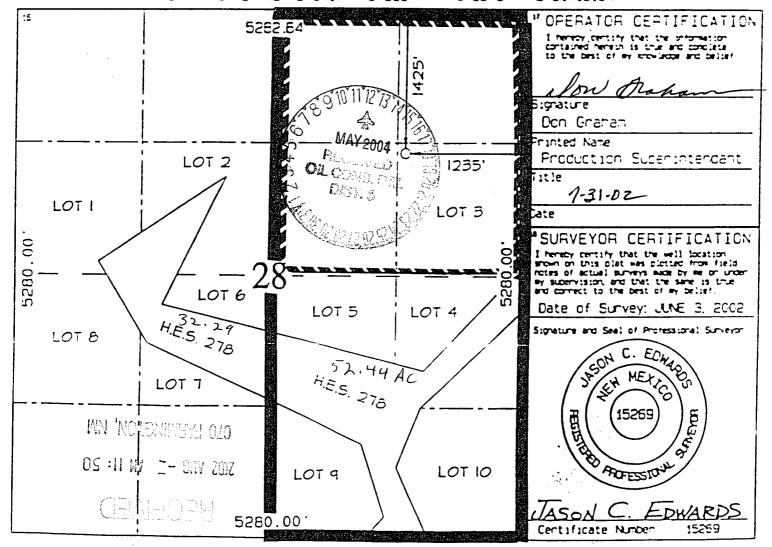
## WELL LOCATION AND ACREAGE DEDICATION PLAT

. 1	'API Number.	Pool Code	Pool Name	
	30039-27	058 72400 / 71629	BLANCO PICTURED CLIFFS, EAST / BASIN	FRUITLAND COAL
	Procenty Code		Property Name	*Kell Number
	21185	<del>Videostania</del> nas republicado de 1220 (1700 - 120)	CARSON	12
İ	'CGRID No.		*Operation Name	*£levation
	162928	ENERGE	N RESOURCES CORPORATION	7584

<sup>10</sup> Surface Location

H H	<b>Section</b> 28	30N	AW AW	Lat lan	1425	NORTH	feet from the 1235	EAST	CIR ABIRA
u or en ro	Section	11 E	3ottom	Hole L	ocation I	f Different	From Sunf	ace Emv=nc 1ye	Carty
d Dicinated Acres	100.0	Acres Acres		- FL	Outpet on Shrill	" Cornec (soler) soler Code	* 3-3 KC		

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



#### **OPERATIONS PLAN**

WELL NAME: Carson #12

LOCATION: 1425' FNL, 1235' FEL, Section 28, T30N, R4W, Rio Arriba County, NM

FIELD: East Blanco Pictured Cliffs ELEVATION: 7584' GL

#### **FORMATION TOPS:**

Surface	San Jose
Nacimiento	2491
Ojo Alamo	3706
Kirtland	3926
Fruitland	4106
Pictured Cliffs	4326
Lewis	4691
Total Depth	4776

### **LOGGING PROGRAM**:

Open Hole Logs:

Surface to TD: HRI/SP/GR, CNT/LDT/MLT, MRIL

Mud Logs: None Coring: None

Natural Gauges: None

MUD PROGRAM: Fresh water low solids mud from surface to T. D. 9.0-9.2 PPG.

### **CASING PROGRAM:**

<b>HOLE SIZE</b>	<u>DEPTH</u>	CSG SIZE	<u>WT.</u>	GRADE
12 ¼"	200'	9 5/8"	32.3#	H-40
7 7/8"	4776'	5 1/2"	15.5#	J-55

#### **TUBING PROGRAM:**

4700 2 3/8" 4.7# J-55

WELLHEAD: 9 5/8" 2000 x 5 1/2" Larkin Fig. 92 casing head. 5-1/2" 2000 x 2" tubing head.

#### **BOP SPECIFICATIONS:**

An 11" 2000 psi minimum double gate BOP stack (Figure 1) will be used following nipple up of casing head. During air drilling operations, a Shaffer Type 50 or equivalent rotating head will be installed on top of the stack. A 2" nominal, 2000 psi minimum choke manifold will be used. An upper Kelly Cock valve with handle available and drill string valve to fit each drill string will be available on the rig floor during drilling operations.

## **CEMENTING:**

9 5/8" surface casing - Cement with 110 sks Class B Cement with ¼# flocele/sk and 2% calcium chloride (130 cu. ft. of slurry, 100% excess to circulate to surface). WOC 12 hrs. Test casing to 600# for 30 minutes.

Texas Pattern Guide Shoe on bottom.

### 5 1/2" production casing:

First Stage - cement with 160 sks Class B with 2% Calcium Chloride, 10% Gilsonite and 1/4# flocele/sks (202 cu. ft. of slurry, 50% excess to circulate stage tool @ 4000).

Second Stage - cement with 510 sks 65/35 Class B Poz with 6% gel, 2% calcium chloride, 10% gilsonite, and ½# flocele/sk. Tail with 50 sks Class B w/2% calcium chloride, 10% gilsonite and ½# flocele/sk. (1040 cu. ft. of slurry, 50% excess to circulate to surface). WOC 12 hrs.

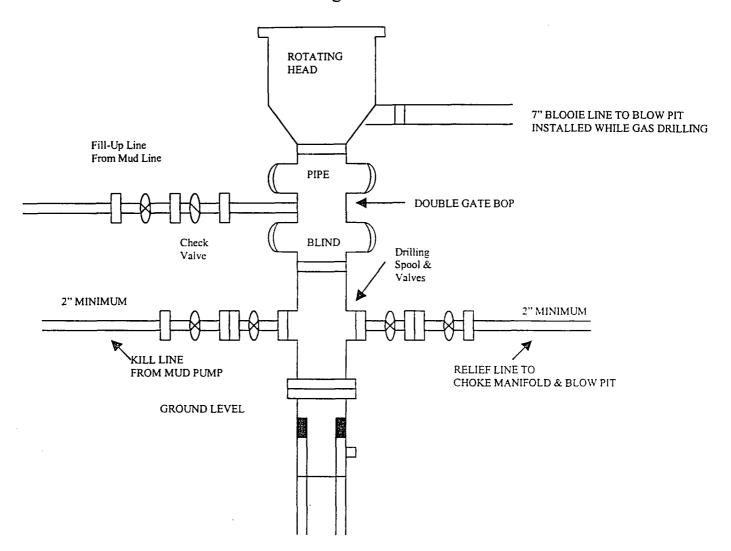
Cement nose guide shoe on bottom with a self-fill insert float valve on top of shoe joint. 8 bow spring centralizers spaced every 3rd joint off bottom. One bow spring centralizer below and eight above stage tool at 4000. Two turbolating centralizers at the base of the Ojo Alamo.

#### **OTHER INFORMATION:**

- 1) No abnormal temperatures or pressures are anticipated.
- 2) If lost circulation is encountered, sufficient LCM will be added to the mud system to maintain well control.
- 3) This gas is dedicated.
- 4) Anticipated pore pressure for the Fruitland is 900 psi and the Pictured Cliffs is 1000 psi.

# **ENERGEN RESOURCES CORPORATION**

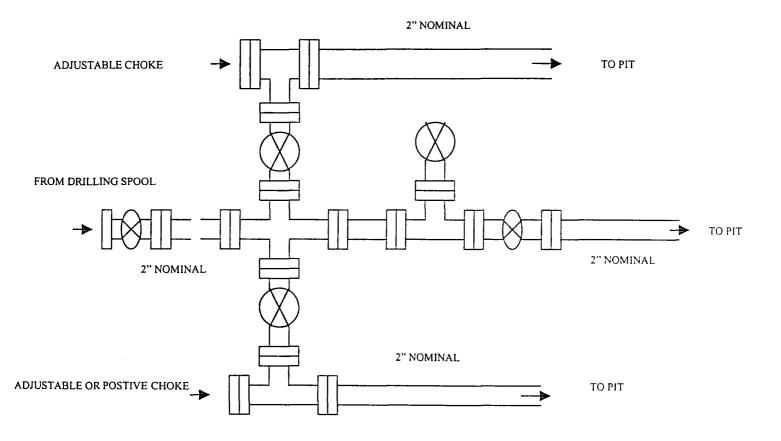
Mesa Verde / Dakota Well BOP Configuration



Minimum BOP installation for a Mesaverde well from Surface to Total Depth. 11' Bore, 2000 psi minimum working pressure double Gate BOP to be equipped with blind and pipe rams. A Schaffer Type 50 or equivalent rotating head to be installed on the top of The BOP. All equipment is 2000 psi working pressure or greater.

# **ENERGEN RESOURCES CORPORATION**

Choke Manifold Configuration 2M psi System



Minimum choke manifold installation from surface to Total Depth. 2" minimum, 2000 psi working pressure equipment with two chokes.

