

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT


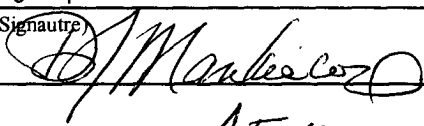
FORM APPROVED
OMB NO. 1004-0136
Expires January 31, 2004

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. Jicarilla Contract 152	
1b. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name Jicarilla Apache	
2. Name of Operator Energen Resources Corporation		7. Unit or CA Agreement Name and No.	
3a. Address 2198 Bloomfield Highway - Farmington, NM 87401		8. Lease Name and Well No. Jicarilla 152W 4B	
3b. Phone No. (include area code) 505-325-6800		9. API Well No. 30-039-29294	
4. Location of Well (Report location clearly and in accordance with any State requirements)* At surface 730' FNL, 1960' FWL At proposed prod. zone		10. Field and Pool, or Exploratory Blanco MV/Basin DK	
14. Distance in miles and direction from nearest town or post office* 23 miles northwest of Lindrith, NM		11. Sec., T., R., M., or Blk. and Survey or Area C - Sec. 05, T26N-R05W NMPM	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drg. unit line, if any) 730'		12. County or Parish Rio Arriba	
16. No. of Acres in lease 1278.8		13. State NM	
17. Spacing Unit dedicated to this well 319.6/W 1/2		18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 1260'	
19. Proposed Depth 7636'		20. BLM/BIA Bond No. on file	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 6554' GL		22. Approximate date work will start* December 2004	
23. Estimated duration 12 days		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. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan | 5. Operator certification. |
| 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). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

25. Signature 	Name (Printed/Typed) Doug Thomas	Date 06/29/04
Title Drilling Superintendent		
Approved by (Signature) 	Name (Printed/Typed) AFM	Date 1/18/06
Title Office		


Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*(Instructions on Reverse)



NMOC

AFMSS	
Adjud	
Engr	
Geol	
Surf	
Appvl	

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-102
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-039-29294		*Pool Code 72319 / 71599	*Pool Name BLANCO MESAVERDE / BASIN DAKOTA
*Property Code 21949	*Property Name JICARILLA 152W		*Well Number 4B
*OGRID No. 162928	*Operator Name ENERGEN RESOURCES CORPORATION		*Elevation 6554'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	5	26N	5W		730	NORTH	1960	WEST	RIO ARriba

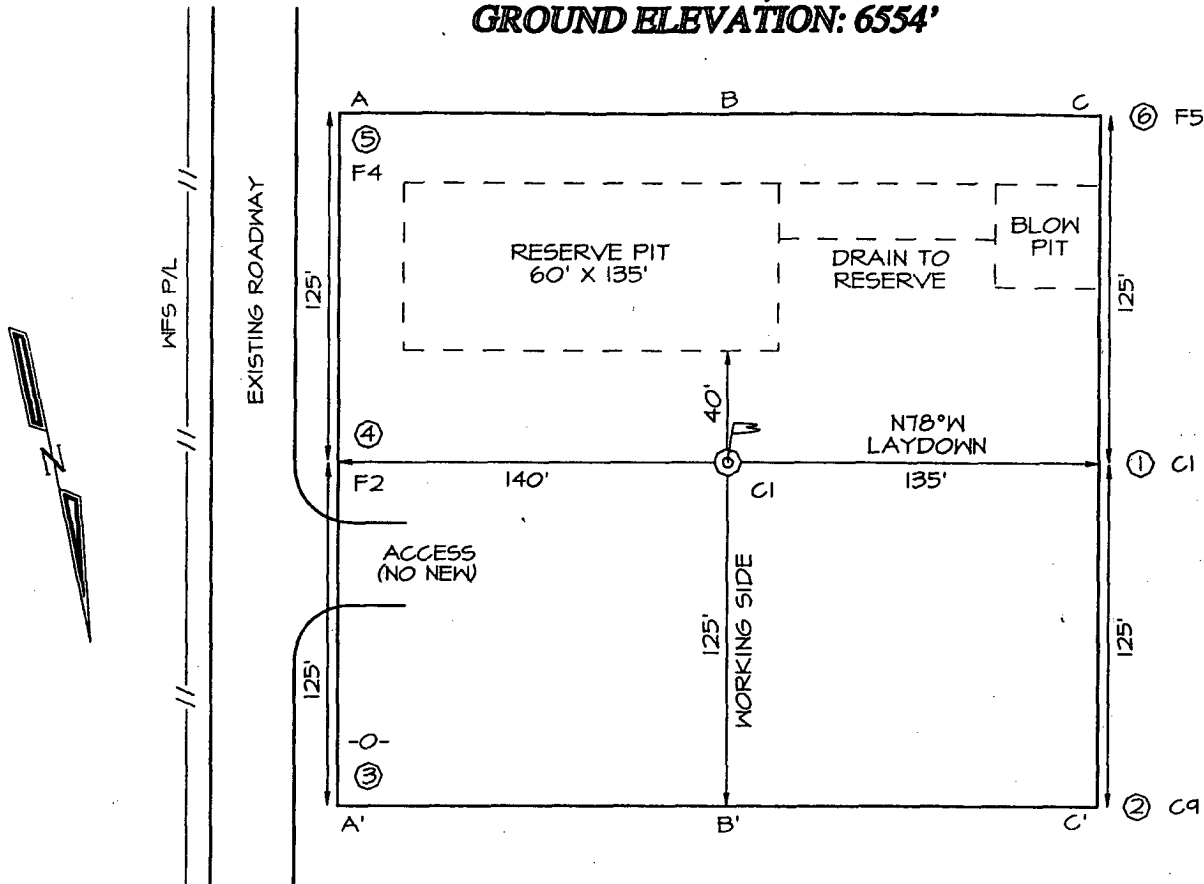
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
¹² Dedicated Acres 319.61 Acres - (W/2)					¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.		

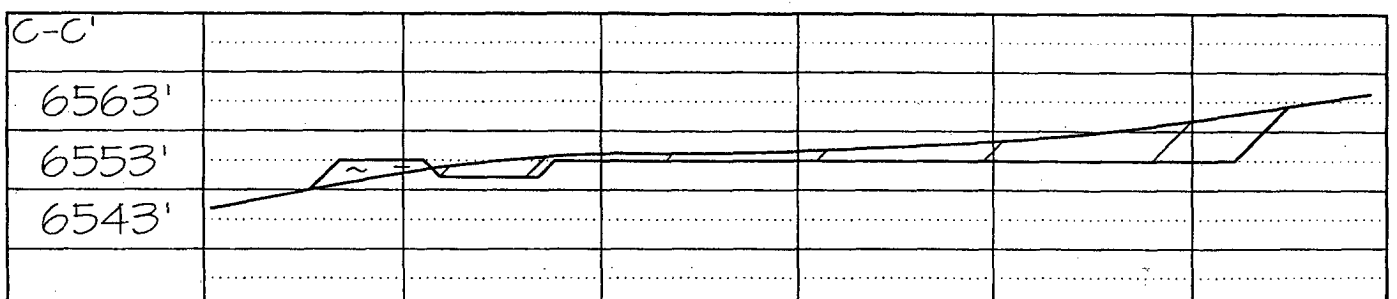
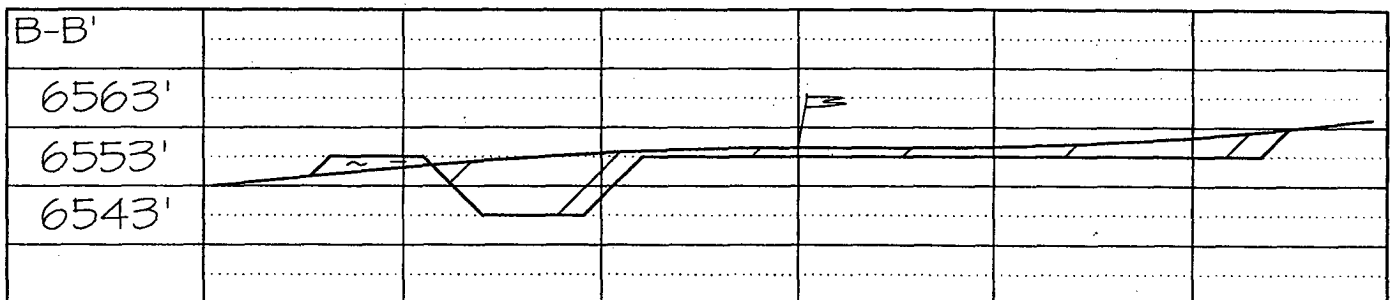
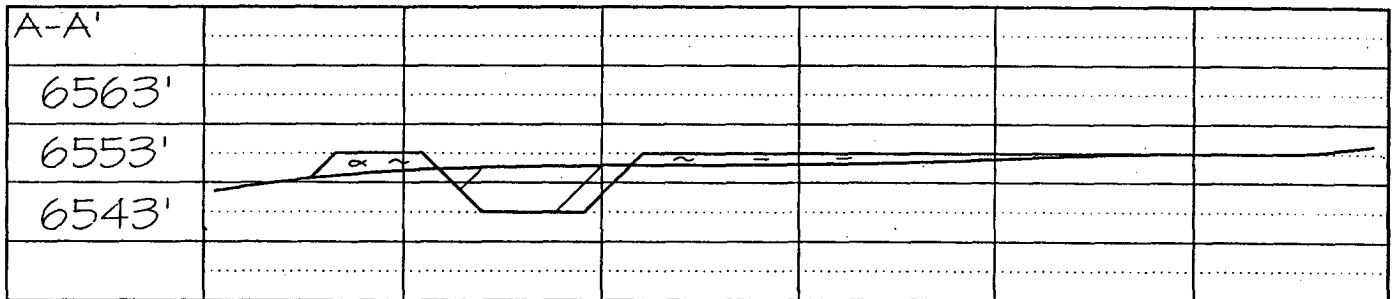
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

¹⁶ 		¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Signature <u>Don Graham</u> Printed Name <u>Don Graham</u> Title <u>Production Superintendent</u> Date <u>6-28-04</u>
¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Date of Survey: <u>AUGUST 8, 2003</u> Signature and Seal of Professional Surveyor <u>JASON C. EDWARDS</u> Certificate Number <u>15269</u>		

ENERGEN RESOURCES CORPORATION JICARILLA 152W #4B
730' FNL & 1960' FWL, SECTION 5, T26N, R5W, NMPM
RIO ARriba COUNTY, NEW MEXICO
GROUND ELEVATION: 6554'



LATITUDE: 36°31'18"
LONGITUDE: 107°23'03"
 DATUM: NAD1927



OPERATIONS PLAN

WELL NAME: Jicarilla 152W #4B

LOCATION: 730' FNL, 1960' FWL, Section 5, T26N, R5W, Rio Arriba, New Mexico

FIELD: Blanco Mesaverde/Basin Dakota

ELEVATION: 6554' GL

FORMATION TOPS:

Surface	San Jose	Huerfanito Benonite	3666
Nacimiento	1631	Cliff House	4846
Ojo Alamo	2536	Menefee	4971
Kirtland	2756	Point Lookout	5381
Fruitland	2971	Mancos Sh	5711
Pictured Cliffs	3191		
Lewis	3361		
Total Depth			7636

LOGGING PROGRAM:

Open Hole Logs:

Surface to intermediate: None

Inter TD to total depth: Temp/HRI/CNT, LDT/GR

Mud Logs: 3600' to total depth

Coring: None

Natural Gauges: Every 500' from intermediate TD to total depth

MUD PROGRAM: Fresh water low solids mud from surface to intermediate TD. Air/mist from intermediate casing point to total depth.

CASING PROGRAM:

<u>HOLE SIZE</u>	<u>DEPTH</u>	<u>CSG SIZE</u>	<u>WT.</u>	<u>GRADE</u>
12-1/4"	200'	9-5/8"	32.3#	H-40
8-3/4"	3561'	7"	20#	J-55
6-1/4"	3411'-7636'	4-1/2"	10.5#	J-55

TUBING PROGRAM:

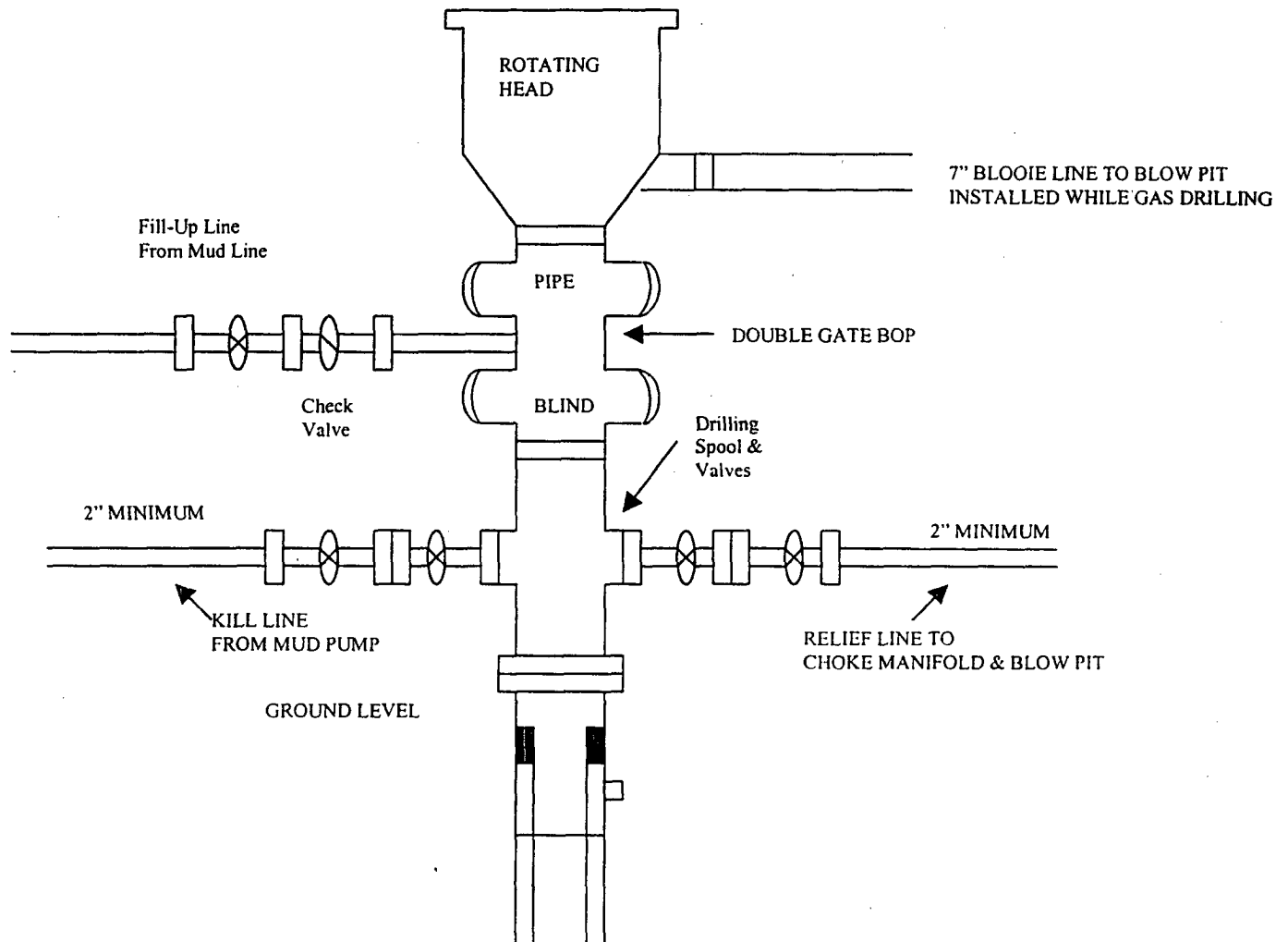
7616'	2 3/8"	4.7#	J-55
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WELLHEAD: 11" 3000 x 9 5/8" casing head. 11" 3000 x 7 1/16" 3000 xmas tree.

ENERGEN RESOURCES CORPORATION

Mesa Verde / Dakota Well

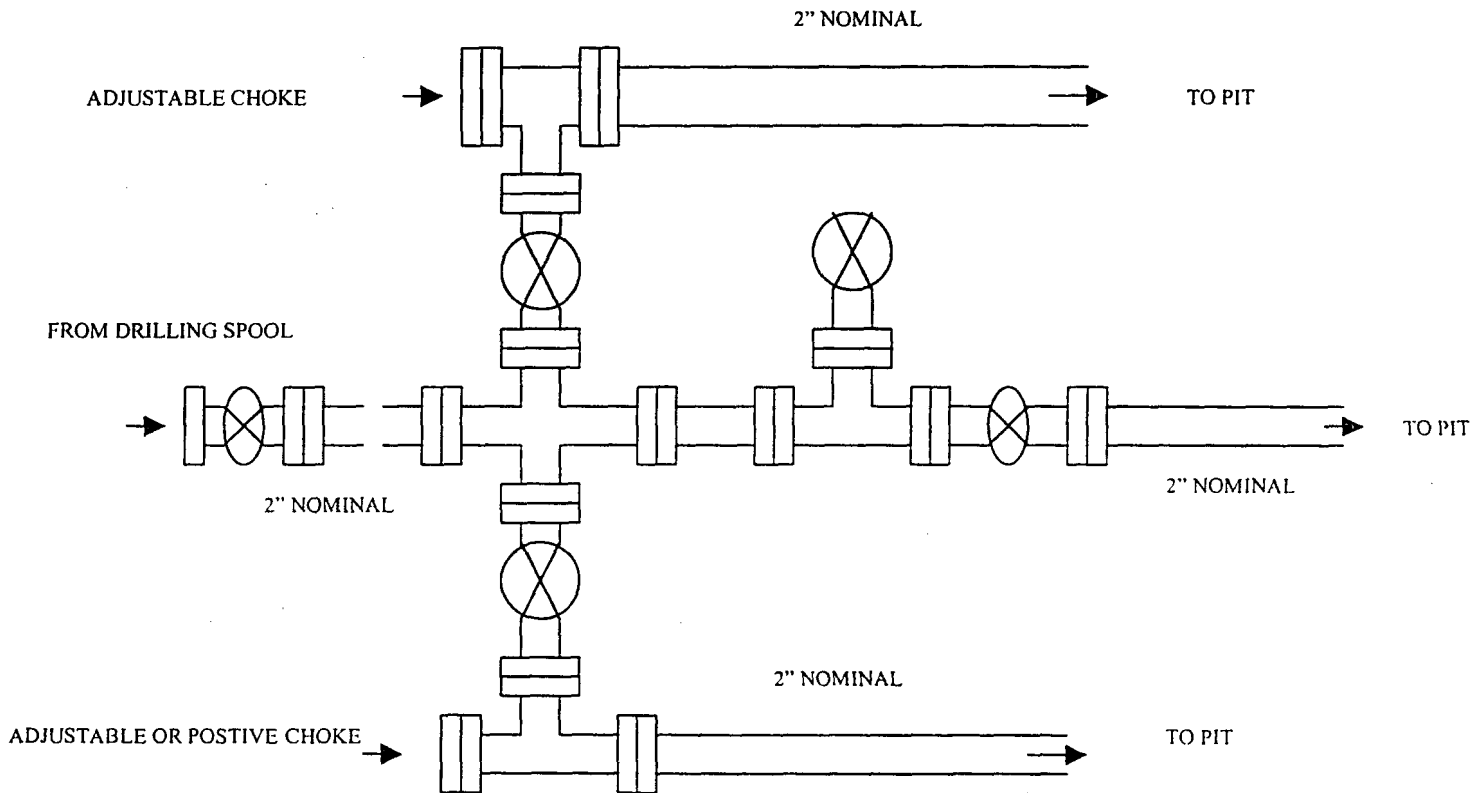
BOP Configuration



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.