

RECEIVED

Form 3160-3
(August 2007)

AUG 07 2012

FORM APPROVED
OMB No. 1004-0137
Expires July 31, 2010

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Farmington Field Office
Bureau of Land Management

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No. JIC 146
6. If Indian, Allottee or Tribe Name JICARILLA APACHE NATION
7. If Unit or CA Agreement, Name and No.
8. Lease Name and Well No. JICARILLA 2505-3H 14E
9. API Well No. 30-039- 31139
10. Field and Pool, or Exploratory LINDRITH GALLUP-DAKOTA, WEST
11. Sec., T. R. M. or Blk. and Survey or Area SHL: SWSW (M) 3-25N-5W NMPM BHL: NWSW (L) 4-25N-5W NMPM
12. County or Parish RIO ARriba
13. State NM
14. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 380' (at closest perf & at BHL)
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 1306' (Jicarilla 146 21R, a Chacra & DK well)
16. No. of acres in lease 2,557.20
17. Spacing Unit dedicated to this well N2S2 4-25n-5w (= 160 acres)
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 1306' (Jicarilla 146 21R, a Chacra & DK well)
19. Proposed Depth 6,465' TVD 11,482' MD
20. BLM/BIA Bond No. on file BIA nationwide LPM4138175
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 6,654' GL
22. Approximate date work will start* 09/15/2012
23. Estimated duration 7 WEEKS

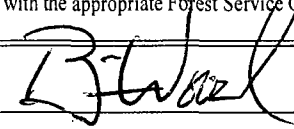
24. Attachments

RCVD OCT 24 '12

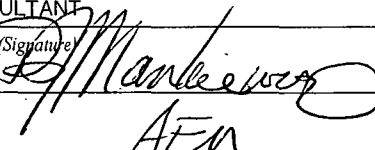
The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form:

OIL CONS. DIV.
DIST. 3

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification
- Such other site specific information and/or plans as may be required by the BLM.

25. Signature 	Name (Printed/Typed) BRIAN WOOD (505 466-8120)	Date 08/04/2012
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Title CONSULTANT (FAX 505 466-9682)		
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Approved by (Signature) 	Name (Printed/Typed) A. F. O.	Date 10/22/12
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Title A. F. O.	Office FFO
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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.

(Continued on page 2)

*(Instructions on page 2)

BLM'S APPROVAL OR ACCEPTANCE OF THIS ACTION DOES NOT RELIEVE THE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATIONS ON FEDERAL AND INDIAN LANDS

Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel.
This includes synthetic oils

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

A COMPLETE C-144 MUST BE SUBMITTED TO AND APPROVED BY THE NMOCD FOR: A PIT, CLOSED LOOP SYSTEM, BELOW GRADE TANK, OR PROPOSED ALTERNATIVE METHOD, PURSUANT TO NMOCD PART 19.15.17, PRIOR TO THE USE OR CONSTRUCTION OF THE ABOVE APPLICATIONS.

FEB 07 2013 ca

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

DISTRICT I
1625 N. French Dr., Hobbs, N.M. 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

DISTRICT II
811 S. First St., Artesia, N.M. 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, N.M. 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, N.M. 87505
Bureau of Land Management

Form C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

SEP 17 2012

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039- 31139	² Pool Code 39189	LINDRITH GALLUP-DAKOTA, WEST
⁴ Property Code	⁵ Property Name JICARILLA 2505-3H	⁶ Well Number 14E
⁷ OGRID No. 287508	⁸ Operator Name BILL BARRETT CORPORATION UNDER OPERATING AGREEMENT WITH ENERVEST MESA, LLC & EV PROPERTIES, LP	⁹ Elevation 6654

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
M	3	25 N	5 W		1212	SOUTH	176	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
L	4	25 N	5 W		2310	SOUTH	380	WEST	RIO ARriba

¹² Dedicated Acres 640*	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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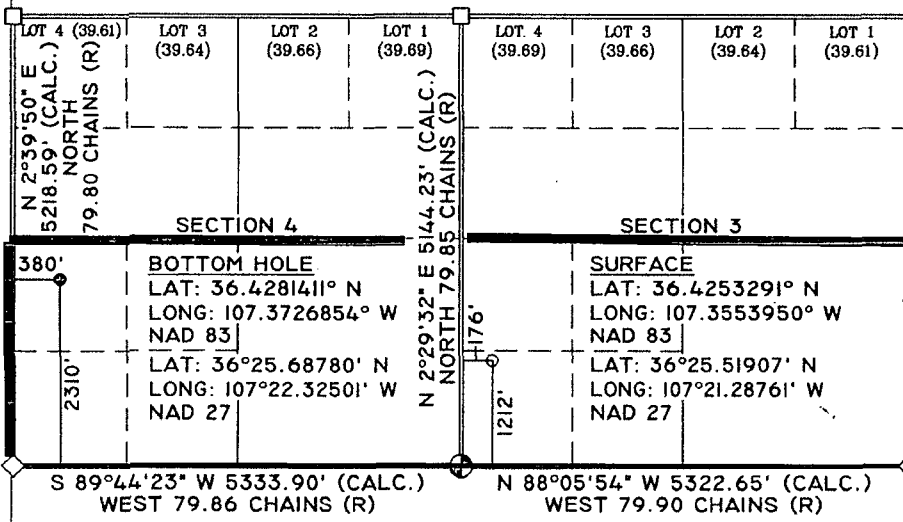
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16

LEGEND:

- = SURFACE LOCATION
- = BOTTOM HOLE LOCATION
- ⊙ = FOUND STONE MOUND
- ◇ = D.P. SECTION CORNER
- = S.P. SECTION CORNER

*Project Area = S2 Sections 3 & 4



17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Brian Wood 8-4-12
Signature Date
Printed BRIAN WOOD
E-mail Address brian@permitswest.com

18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of a survey made by me or under my supervision, and that the same are true and correct to the best of my belief.

05/02/12
Date of Survey
Signature and Seal of Professional Surveyor



14831
Certificate Number 7-10-2012



Bill Barrett Corporation

COMPANY DETAILS: BILL BARRETT CORP

Calculation Method: Minimum Curvature
Error System: ISCWSA
Scan Method: Closest Approach 3D
Error Surface: Elliptical Conic
Warning Method: Error Ratio

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well Jicarilla 2505-3H #14E, True North
Vertical (TVD) Reference: KB @ 6667.0ft (Original Well Elev)
Section (VS) Reference: Slot - (0.0N, 0.0E)
Measured Depth Reference: KB @ 6667.0ft (Original Well Elev)
Calculation Method: Minimum Curvature

WELL DETAILS: Jicarilla 2505-3H #14E

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	1975953.15	1315218.90	36° 25' 31.185 N	107° 21' 19.422 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.0	
3	921.3	12.64	0.00	917.9	46.3	0.0	3.00	0.00	9.1	
4	5515.9	12.64	0.00	5401.2	1051.7	0.0	0.00	0.00	205.8	
5	5937.3	0.00	0.00	5819.1	1098.0	0.0	3.00	180.00	214.8	
6	6037.3	0.00	0.00	5919.1	1098.0	0.0	0.00	0.00	214.8	2505-3H #14 NT
7	6907.0	90.30	270.00	6471.0	1098.0	-554.8	10.38	270.00	758.9	2505-3H #14F LP
8	6953.9	90.30	269.06	6470.7	1097.6	-601.6	2.00	-90.00	804.8	2505-3H #14F PBHL
9	9157.0	90.30	269.06	6459.2	1061.6	-2804.4	0.00	0.00	2957.9	
10	9162.0	90.40	269.06	6459.1	1061.5	-2809.4	2.00	0.00	2962.8	2505-3H #14F PBHL
11	11482.9	90.40	269.06	6442.9	1023.5	-5129.9	0.00	0.00	5231.0	

PROJECT DETAILS: RIO ARRIBA COUNTY, NM

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Central Zone

WELLBORE TARGET DETAILS (LAT/LONG)

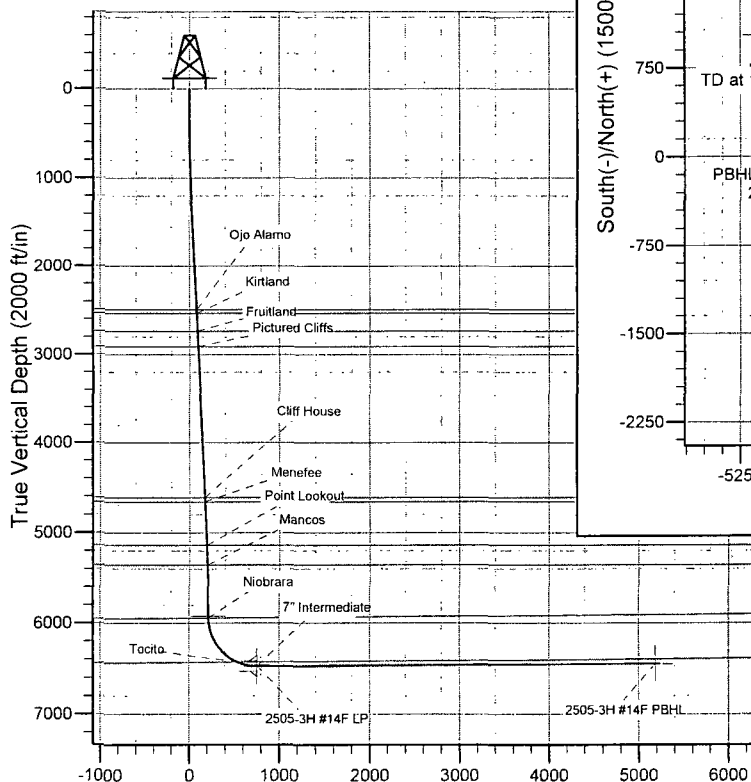
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
2505-3H #14 NT	5919.1	1098.0	0.0	36° 25' 42.042 N	107° 21' 19.422 W	Point
2505-3H #14F PBHL	6444.0	1024.2	-5087.0	36° 25' 41.308 N	107° 22' 21.667 W	Point
2505-3H #14F LP	6471.0	1098.0	-556.0	36° 25' 42.042 N	107° 21' 26.225 W	Point

FORMATION TOP DETAILS

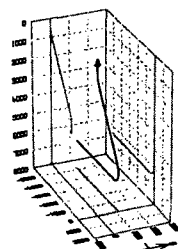
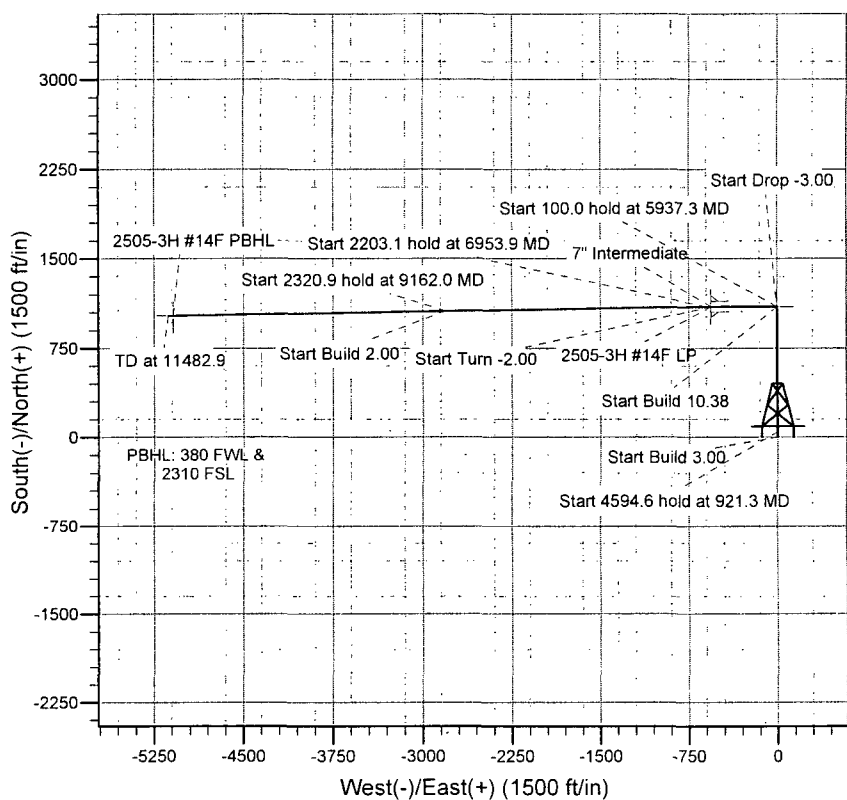
TVDPath	MDPath	Formation
2490.0	2532.5	Ojo Alamo
2535.0	2578.6	Kirtland
2735.0	2783.5	Fruitland
2907.0	2959.8	Pictured Cliffs
4610.0	4705.1	Cliff House
4655.0	4751.2	Menefee
5135.0	5243.2	Point Lookout
5355.0	5468.6	Mancos
5942.1	6060.3	Niobrara
6425.8	6679.3	Tocito

CASING DETAILS

TVD	MD	Name	Size
6470.9	6910.0	7" Intermediate	7



Vertical Section at 281.28° (2000 ft/in)



Azimuths to True North
Magnetic North: 9.55°

Magnetic Field
Strength: 50499.9snT
Dip Angle: 63.24°
Date: 7/13/2012
Model: IGRF2010

Bill Barrett Corp

Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well Jicarilla 2505-3H #14E
Company:	BILL BARRETT CORP	TVD Reference:	KB @ 6667.0ft (Original Well Elev)
Project:	RIO ARRIBA COUNTY, NM	MD Reference:	KB @ 6667.0ft (Original Well Elev)
Site:	Jicarilla 2505-3H #14E	North Reference:	True
Well:	Jicarilla 2505-3H #14E	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2 JO		

Project:	RIO ARRIBA COUNTY, NM		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Central Zone		

Site:	Jicarilla 2505-3H #14E		
Site Position:		Northing:	1,975,953.15 ft
From:	Lat/Long	Easting:	1,315,218.90 ft
Position Uncertainty:	0.0 ft	Slot Radius:	"
		Latitude:	36° 25' 31.185 N
		Longitude:	107° 21' 19.422 W
		Grid Convergence:	-0.66 °

Well:	Jicarilla 2505-3H #14E		
Well Position	+N/-S	0.0 ft	Northing:
	+E/-W	0.0 ft	Easting:
Position Uncertainty	0.0 ft	Wellhead Elevation:	ft
		Latitude:	36° 25' 31.185 N
		Longitude:	107° 21' 19.422 W
		Ground Level:	6,654.0 ft

Wellbore:	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2010	7/13/2012	9.55
			Dip Angle
			(°)
			63.24
			Field Strength
			(nT)
			50,500

Design:	Design #2 JO		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(ft)	(ft)	(ft)
	0.0	0.0	0.0
			Direction
			(°)
			281.28

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(ft)	(ft)	Rate	Rate	Rate	(°)	
(ft)			(ft)			(°/100ft)	(°/100ft)	(°/100ft)		
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.00	0.00	
921.3	12.64	0.00	917.9	46.3	0.0	3.00	3.00	0.00	0.00	
5,515.9	12.64	0.00	5,401.2	1,051.7	0.0	0.00	0.00	0.00	0.00	
5,937.3	0.00	0.00	5,819.1	1,098.0	0.0	3.00	-3.00	0.00	180.00	
6,037.3	0.00	0.00	5,919.1	1,098.0	0.0	0.00	0.00	0.00	0.00	2505-3H #14 NT
6,907.0	90.30	270.00	6,471.0	1,098.0	-554.8	10.38	10.38	0.00	270.00	2505-3H #14F LP
6,953.9	90.30	269.06	6,470.7	1,097.6	-601.6	2.00	0.00	-2.00	-90.00	2505-3H #14F PBH
9,157.0	90.30	269.06	6,459.2	1,061.6	-2,804.4	0.00	0.00	0.00	0.00	
9,162.0	90.40	269.06	6,459.1	1,061.5	-2,809.4	2.00	2.00	0.00	0.00	2505-3H #14F PBH
11,482.9	90.40	269.06	6,442.9	1,023.5	-5,129.9	0.00	0.00	0.00	0.00	

Bill Barrett Corp

Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well Jicarilla 2505-3H #14E
Company:	BILL BARRETT CORP	TVD Reference:	KB @ 6667.0ft (Original Well Elev)
Project:	RIO ARRIBA COUNTY, NM	MD Reference:	KB @ 6667.0ft (Original Well Elev)
Site:	Jicarilla 2505-3H #14E	North Reference:	True
Well:	Jicarilla 2505-3H #14E	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2 JO		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	3.00	0.00	600.0	2.6	0.0	0.5	3.00	3.00	0.00
700.0	6.00	0.00	699.6	10.5	0.0	2.0	3.00	3.00	0.00
800.0	9.00	0.00	798.8	23.5	0.0	4.6	3.00	3.00	0.00
900.0	12.00	0.00	897.1	41.7	0.0	8.2	3.00	3.00	0.00
921.3	12.64	0.00	917.9	46.3	0.0	9.1	3.00	3.00	0.00
1,000.0	12.64	0.00	994.7	63.5	0.0	12.4	0.00	0.00	0.00
1,100.0	12.64	0.00	1,092.3	85.4	0.0	16.7	0.00	0.00	0.00
1,200.0	12.64	0.00	1,189.8	107.3	0.0	21.0	0.00	0.00	0.00
1,300.0	12.64	0.00	1,287.4	129.1	0.0	25.3	0.00	0.00	0.00
1,400.0	12.64	0.00	1,385.0	151.0	0.0	29.6	0.00	0.00	0.00
1,500.0	12.64	0.00	1,482.6	172.9	0.0	33.8	0.00	0.00	0.00
1,600.0	12.64	0.00	1,580.1	194.8	0.0	38.1	0.00	0.00	0.00
1,700.0	12.64	0.00	1,677.7	216.7	0.0	42.4	0.00	0.00	0.00
1,800.0	12.64	0.00	1,775.3	238.6	0.0	46.7	0.00	0.00	0.00
1,900.0	12.64	0.00	1,872.9	260.4	0.0	51.0	0.00	0.00	0.00
2,000.0	12.64	0.00	1,970.4	282.3	0.0	55.2	0.00	0.00	0.00
2,100.0	12.64	0.00	2,068.0	304.2	0.0	59.5	0.00	0.00	0.00
2,200.0	12.64	0.00	2,165.6	326.1	0.0	63.8	0.00	0.00	0.00
2,300.0	12.64	0.00	2,263.2	348.0	0.0	68.1	0.00	0.00	0.00
2,400.0	12.64	0.00	2,360.8	369.9	0.0	72.4	0.00	0.00	0.00
2,500.0	12.64	0.00	2,458.3	391.7	0.0	76.7	0.00	0.00	0.00
2,532.5	12.64	0.00	2,490.0	398.8	0.0	78.0	0.00	0.00	0.00
Ojo Alamo									
2,578.6	12.64	0.00	2,535.0	408.9	0.0	80.0	0.00	0.00	0.00
Kirtland									
2,600.0	12.64	0.00	2,555.9	413.6	0.0	80.9	0.00	0.00	0.00
2,700.0	12.64	0.00	2,653.5	435.5	0.0	85.2	0.00	0.00	0.00
2,783.5	12.64	0.00	2,735.0	453.8	0.0	88.8	0.00	0.00	0.00
Fruitland									
2,800.0	12.64	0.00	2,751.1	457.4	0.0	89.5	0.00	0.00	0.00
2,900.0	12.64	0.00	2,848.6	479.3	0.0	93.8	0.00	0.00	0.00
2,959.8	12.64	0.00	2,907.0	492.4	0.0	96.3	0.00	0.00	0.00
Pictured Cliffs									
3,000.0	12.64	0.00	2,946.2	501.2	0.0	98.1	0.00	0.00	0.00
3,100.0	12.64	0.00	3,043.8	523.0	0.0	102.3	0.00	0.00	0.00
3,200.0	12.64	0.00	3,141.4	544.9	0.0	106.6	0.00	0.00	0.00
3,300.0	12.64	0.00	3,238.9	566.8	0.0	110.9	0.00	0.00	0.00
3,400.0	12.64	0.00	3,336.5	588.7	0.0	115.2	0.00	0.00	0.00
3,500.0	12.64	0.00	3,434.1	610.6	0.0	119.5	0.00	0.00	0.00
3,600.0	12.64	0.00	3,531.7	632.5	0.0	123.7	0.00	0.00	0.00
3,700.0	12.64	0.00	3,629.2	654.3	0.0	128.0	0.00	0.00	0.00
3,800.0	12.64	0.00	3,726.8	676.2	0.0	132.3	0.00	0.00	0.00
3,900.0	12.64	0.00	3,824.4	698.1	0.0	136.6	0.00	0.00	0.00
4,000.0	12.64	0.00	3,922.0	720.0	0.0	140.9	0.00	0.00	0.00
4,100.0	12.64	0.00	4,019.6	741.9	0.0	145.2	0.00	0.00	0.00
4,200.0	12.64	0.00	4,117.1	763.7	0.0	149.4	0.00	0.00	0.00
4,300.0	12.64	0.00	4,214.7	785.6	0.0	153.7	0.00	0.00	0.00
4,400.0	12.64	0.00	4,312.3	807.5	0.0	158.0	0.00	0.00	0.00

Bill Barrett Corp
Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well Jicarilla 2505-3H #14E
Company:	BILL BARRETT CORP	TVD Reference:	KB @ 6667.0ft (Original Well Elev)
Project:	RIO ARRIBA COUNTY, NM	MD Reference:	KB @ 6667.0ft (Original Well Elev)
Site:	Jicarilla 2505-3H #14E	North Reference:	True
Well:	Jicarilla 2505-3H #14E	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2 JO		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,500.0	12.64	0.00	4,409.9	829.4	0.0	162.3	0.00	0.00	0.00
4,600.0	12.64	0.00	4,507.4	851.3	0.0	166.6	0.00	0.00	0.00
4,700.0	12.64	0.00	4,605.0	873.2	0.0	170.8	0.00	0.00	0.00
4,705.1	12.64	0.00	4,610.0	874.3	0.0	171.1	0.00	0.00	0.00
Cliff House									
4,751.2	12.64	0.00	4,655.0	884.4	0.0	173.0	0.00	0.00	0.00
Menefee									
4,800.0	12.64	0.00	4,702.6	895.0	0.0	175.1	0.00	0.00	0.00
4,900.0	12.64	0.00	4,800.2	916.9	0.0	179.4	0.00	0.00	0.00
5,000.0	12.64	0.00	4,897.7	938.8	0.0	183.7	0.00	0.00	0.00
5,100.0	12.64	0.00	4,995.3	960.7	0.0	188.0	0.00	0.00	0.00
5,200.0	12.64	0.00	5,092.9	982.6	0.0	192.3	0.00	0.00	0.00
5,243.2	12.64	0.00	5,135.0	992.0	0.0	194.1	0.00	0.00	0.00
Point Lookout									
5,300.0	12.64	0.00	5,190.5	1,004.5	0.0	196.5	0.00	0.00	0.00
5,400.0	12.64	0.00	5,288.0	1,026.3	0.0	200.8	0.00	0.00	0.00
5,468.6	12.64	0.00	5,355.0	1,041.4	0.0	203.8	0.00	0.00	0.00
Mancos									
5,500.0	12.64	0.00	5,385.6	1,048.2	0.0	205.1	0.00	0.00	0.00
5,515.9	12.64	0.00	5,401.2	1,051.7	0.0	205.8	0.00	0.00	0.00
5,600.0	10.12	0.00	5,483.6	1,068.3	0.0	209.0	3.00	-3.00	0.00
5,700.0	7.12	0.00	5,582.4	1,083.3	0.0	212.0	3.00	-3.00	0.00
5,800.0	4.12	0.00	5,681.9	1,093.1	0.0	213.9	3.00	-3.00	0.00
5,900.0	1.12	0.00	5,781.8	1,097.6	0.0	214.8	3.00	-3.00	0.00
5,937.3	0.00	0.00	5,819.1	1,098.0	0.0	214.8	3.00	-3.00	0.00
6,000.0	0.00	0.00	5,881.8	1,098.0	0.0	214.8	0.00	0.00	0.00
6,037.3	0.00	0.00	5,919.1	1,098.0	0.0	214.8	0.00	0.00	0.00
2505-3H #14 NT									
6,060.3	2.39	270.00	5,942.1	1,098.0	-0.5	215.3	10.38	10.38	0.00
Niobrara									
6,100.0	6.51	270.00	5,981.7	1,098.0	-3.6	218.3	10.38	10.38	0.00
6,200.0	16.89	270.00	6,079.5	1,098.0	-23.8	238.2	10.38	10.38	0.00
6,300.0	27.28	270.00	6,172.0	1,098.0	-61.4	275.0	10.38	10.38	0.00
6,400.0	37.66	270.00	6,256.3	1,098.0	-115.0	327.6	10.38	10.38	0.00
6,500.0	48.04	270.00	6,329.5	1,098.0	-182.9	394.2	10.38	10.38	0.00
6,600.0	58.42	270.00	6,389.3	1,098.0	-262.9	472.6	10.38	10.38	0.00
6,679.3	66.66	270.00	6,425.8	1,098.0	-333.2	541.6	10.38	10.38	0.00
Tocito									
6,700.0	68.80	270.00	6,433.6	1,098.0	-352.3	560.4	10.38	10.38	0.00
6,800.0	79.19	270.00	6,461.2	1,098.0	-448.3	654.5	10.38	10.38	0.00
6,900.0	89.57	270.00	6,471.0	1,098.0	-547.7	752.0	10.38	10.38	0.00
6,907.0	90.30	270.00	6,471.0	1,098.0	-554.8	758.9	10.38	10.38	0.00
6,908.3	90.30	269.98	6,471.0	1,098.0	-556.0	760.1	2.00	0.00	-2.00
2505-3H #14F LP									
6,910.0	90.30	269.94	6,470.9	1,098.0	-557.7	761.8	2.00	0.00	-2.00
7" Intermediate									
6,953.9	90.30	269.06	6,470.7	1,097.6	-601.6	804.8	2.00	0.00	-2.00
7,000.0	90.30	269.06	6,470.5	1,096.9	-647.7	849.8	0.00	0.00	0.00
7,100.0	90.30	269.06	6,470.0	1,095.2	-747.7	947.5	0.00	0.00	0.00
7,200.0	90.30	269.06	6,469.4	1,093.6	-847.7	1,045.3	0.00	0.00	0.00
7,300.0	90.30	269.06	6,468.9	1,092.0	-947.7	1,143.0	0.00	0.00	0.00
7,400.0	90.30	269.06	6,468.4	1,090.3	-1,047.7	1,240.7	0.00	0.00	0.00
7,500.0	90.30	269.06	6,467.9	1,088.7	-1,147.6	1,338.5	0.00	0.00	0.00

Bill Barrett Corp Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well Jicarilla 2505-3H #14E
Company:	BILL BARRETT CORP	TVD Reference:	KB @ 6667.0ft (Original Well Elev)
Project:	RIO ARRIBA COUNTY, NM	MD Reference:	KB @ 6667.0ft (Original Well Elev)
Site:	Jicarilla 2505-3H #14E	North Reference:	True
Well:	Jicarilla 2505-3H #14E	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2 JO		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
7,600.0	90.30	269.06	6,467.3	1,087.0	-1,247.6	1,436.2	0.00	0.00	0.00	
7,700.0	90.30	269.06	6,466.8	1,085.4	-1,347.6	1,533.9	0.00	0.00	0.00	
7,800.0	90.30	269.06	6,466.3	1,083.8	-1,447.6	1,631.7	0.00	0.00	0.00	
7,900.0	90.30	269.06	6,465.8	1,082.1	-1,547.6	1,729.4	0.00	0.00	0.00	
8,000.0	90.30	269.06	6,465.2	1,080.5	-1,647.6	1,827.1	0.00	0.00	0.00	
8,100.0	90.30	269.06	6,464.7	1,078.9	-1,747.5	1,924.9	0.00	0.00	0.00	
8,200.0	90.30	269.06	6,464.2	1,077.2	-1,847.5	2,022.6	0.00	0.00	0.00	
8,300.0	90.30	269.06	6,463.7	1,075.6	-1,947.5	2,120.3	0.00	0.00	0.00	
8,400.0	90.30	269.06	6,463.1	1,074.0	-2,047.5	2,218.1	0.00	0.00	0.00	
8,500.0	90.30	269.06	6,462.6	1,072.3	-2,147.5	2,315.8	0.00	0.00	0.00	
8,600.0	90.30	269.06	6,462.1	1,070.7	-2,247.5	2,413.5	0.00	0.00	0.00	
8,700.0	90.30	269.06	6,461.6	1,069.1	-2,347.5	2,511.3	0.00	0.00	0.00	
8,800.0	90.30	269.06	6,461.0	1,067.4	-2,447.4	2,609.0	0.00	0.00	0.00	
8,900.0	90.30	269.06	6,460.5	1,065.8	-2,547.4	2,706.7	0.00	0.00	0.00	
9,000.0	90.30	269.06	6,460.0	1,064.1	-2,647.4	2,804.5	0.00	0.00	0.00	
9,100.0	90.30	269.06	6,459.5	1,062.5	-2,747.4	2,902.2	0.00	0.00	0.00	
9,157.0	90.30	269.06	6,459.2	1,061.6	-2,804.4	2,957.9	0.00	0.00	0.00	
9,162.0	90.40	269.06	6,459.1	1,061.5	-2,809.4	2,962.8	2.00	2.00	0.00	
9,200.0	90.40	269.06	6,458.9	1,060.9	-2,847.4	2,999.9	0.00	0.00	0.00	
9,300.0	90.40	269.06	6,458.2	1,059.2	-2,947.4	3,097.7	0.00	0.00	0.00	
9,400.0	90.40	269.06	6,457.5	1,057.6	-3,047.4	3,195.4	0.00	0.00	0.00	
9,500.0	90.40	269.06	6,456.8	1,056.0	-3,147.3	3,293.1	0.00	0.00	0.00	
9,600.0	90.40	269.06	6,456.1	1,054.3	-3,247.3	3,390.8	0.00	0.00	0.00	
9,700.0	90.40	269.06	6,455.4	1,052.7	-3,347.3	3,488.6	0.00	0.00	0.00	
9,800.0	90.40	269.06	6,454.7	1,051.1	-3,447.3	3,586.3	0.00	0.00	0.00	
9,900.0	90.40	269.06	6,454.0	1,049.4	-3,547.3	3,684.0	0.00	0.00	0.00	
10,000.0	90.40	269.06	6,453.3	1,047.8	-3,647.3	3,781.8	0.00	0.00	0.00	
10,100.0	90.40	269.06	6,452.6	1,046.1	-3,747.2	3,879.5	0.00	0.00	0.00	
10,200.0	90.40	269.06	6,451.9	1,044.5	-3,847.2	3,977.2	0.00	0.00	0.00	
10,300.0	90.40	269.06	6,451.2	1,042.9	-3,947.2	4,075.0	0.00	0.00	0.00	
10,400.0	90.40	269.06	6,450.5	1,041.2	-4,047.2	4,172.7	0.00	0.00	0.00	
10,500.0	90.40	269.06	6,449.8	1,039.6	-4,147.2	4,270.4	0.00	0.00	0.00	
10,600.0	90.40	269.06	6,449.1	1,038.0	-4,247.2	4,368.2	0.00	0.00	0.00	
10,700.0	90.40	269.06	6,448.4	1,036.3	-4,347.1	4,465.9	0.00	0.00	0.00	
10,800.0	90.40	269.06	6,447.7	1,034.7	-4,447.1	4,563.6	0.00	0.00	0.00	
10,900.0	90.40	269.06	6,447.0	1,033.1	-4,547.1	4,661.4	0.00	0.00	0.00	
11,000.0	90.40	269.06	6,446.3	1,031.4	-4,647.1	4,759.1	0.00	0.00	0.00	
11,100.0	90.40	269.06	6,445.6	1,029.8	-4,747.1	4,856.8	0.00	0.00	0.00	
11,200.0	90.40	269.06	6,444.9	1,028.2	-4,847.1	4,954.6	0.00	0.00	0.00	
11,300.0	90.40	269.06	6,444.2	1,026.5	-4,947.1	5,052.3	0.00	0.00	0.00	
11,400.0	90.40	269.06	6,443.5	1,024.9	-5,047.0	5,150.0	0.00	0.00	0.00	
2505-3H #14F PBHL										
11,482.9	90.40	269.06	6,442.9	1,023.5	-5,129.9	5,231.0	0.00	0.00	0.00	

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
6,910.0	6,470.9	7" Intermediate	7	8-3/4	

Bill Barrett Corp
Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well Jicarilla 2505-3H #14E
Company:	BILL BARRETT CORP	TVD Reference:	KB @ 6667.0ft (Original Well Elev)
Project:	RIO ARRIBA COUNTY, NM	MD Reference:	KB @ 6667.0ft (Original Well Elev)
Site:	Jicarilla 2505-3H #14E	North Reference:	True
Well:	Jicarilla 2505-3H #14E	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2 JO		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
2,532.5	2,490.0	Ojo Alamo		0.00		
2,578.6	2,535.0	Kirtland		0.00		
2,783.5	2,735.0	Fruitland		0.00		
2,959.8	2,907.0	Pictured Cliffs		0.00		
4,705.1	4,610.0	Cliff House		0.00		
4,751.2	4,655.0	Menefee		0.00		
5,243.2	5,135.0	Point Lookout		0.00		
5,468.6	5,355.0	Mancos		0.00		
6,060.3	5,942.0	Niobrara		-0.40	269.00	
6,679.3	6,428.0	Tocito		-0.40	269.00	

Bill Barrett Corporation under operating agreement with
EnerVest Mesa, LLC and EV Properties, LP
Jicarilla 2505-3H #14E
SHL: 1212' FSL & 176' FWL, Sec. 3, T. 25 N., R. 5 W.
BHL: 2310' FSL & 380' FWL, Sec. 4, T. 25 N., R. 5 W.
Rio Arriba County, New Mexico

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Drilling Program

Bill Barrett Corporation will drill horizontally through the Tocito.

1. ESTIMATED FORMATION TOPS

<u>Formation</u>	<u>Depth - MD</u> <u>(Horizontal)</u>	<u>Depth - TVD</u>
Ojo Alamo	2,532	2,490
Kirtland	2,578	2,535
Fruitland	2,783	2,735
Pictured Cliffs	2,959	2,907
Cliff House	4,705	4,610
Menefee	4,751	4,655
Point Lookout	5,243	5,135
Mancos	5,468	5,355
Niobrara	6,060	5,942
Tocito	6,679	6,428
TD	11,482	6,465

2. NOTABLE ZONES

Oil & Gas Zones

Ojo Alamo
Pictured Cliffs
Chacra
Tocito

Water Zones

San Jose
Ojo Alamo
Fruitland

Coal Zone

Fruitland

Water zones will be protected with casing, cement, and weighted mud. Fresh water will be recorded by depth, cased, and cemented. Oil and gas shows will be tested for commercial potential based on the well site geologist's recommendations.

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3. PRESSURE CONTROL

The drilling contract has not yet been awarded, thus the exact BOP model to be used is not yet known. A typical 3,000 psi model is on PAGE 3. The 3,000 psi BOP and choke manifold system will be installed and tested to 2,000 psi before drilling the surface casing plug. It will remain in use until the well is completed or abandoned.

<u>Depth Intervals</u>	<u>BOP Equipment</u>
0 - 350'	No pressure control required
350' - TD	11" 3000# Ram Type BOP & 11" 3000# Annular BOP
- Drilling spool will accommodate choke and kill lines.	
- Ancillary equipment and choke manifold rated at 3,000 psi. All BOP and BOPE tests will be in accordance with the requirements of Onshore Order 2.	
- BLM and the State of New Mexico will be notified 24 hours in advance of all BOP pressure tests.	
- BOP hand wheels may be under the sub-structure of the rig if the drilling rig used is set up to operate most efficiently in this manner.	

Auxiliary equipment will include:

Upper Kelly cock; lower Kelly cock will be installed while drilling
Inside BOP or stab-in valve available on the rig floor
Safety valve(s) and subs will fit all string connections in use
Mud monitoring will be visually observed

All BOP mechanical and pressure tests will be recorded on the driller's log. BOPs will be inspected and opened and closed at least daily to assure good mechanical working order. Inspections will be recorded on the daily drilling report. Pressure tests will be conducted before drilling out from under all casing strings that are set and cemented in place.

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Rio Arriba County, New Mexico

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4. CASING & CEMENT

<u>Hole Size</u>	<u>Setting Depth</u>		<u>Casing Size</u>	<u>Casing Weight</u>	<u>Casing Grade</u>	<u>Thread</u>	<u>Condition</u>
26"	Surface	40'	16"	65#			
12 1/4"	Surface	350'	9 5/8"	36#	J or K 55	ST&C	New
8 3/4"	Surface	6910'	7"	26#	N-80	LT&C	New
6 1/8"	KOP	TD	4 1/2"	11.6#	P-110	LT&C	New

<u>Casing Size</u>	<u>Casing Weight</u>	<u>Casing Grade</u>	<u>Thread</u>	<u>Collapse Pressure (psi)</u>	<u>Burst Pressure (psi)</u>	<u>Tension Strength (1,000 lbs)</u>
9 5/8"	36#	J or K 55	ST&C	2020	3520	394/423
7"	26#	N-80	LT&C	5410	7240	519
4 1/2" Liner	11.6#	P-110	LT&C	7560	10690	279

<u>Casing O. D.</u>	<u>Weight</u>	<u>Grade</u>	<u>Thread</u>	<u>SF_c</u>	<u>SF_b</u>	<u>SF_t</u>
9 5/8"	36#	J or K 55	STC	16.14	42.33	36.13/38.79
7"	26#	N-80	LT&C	2.04	3.87	3.38
4 1/2" Liner	11.6#	P-110	LT&C	2.85	5.71	2.48

<u>Casing</u>	<u>Depth Range</u>		<u>Centralizer Description</u>
9 5/8"	Surface	350'	1 on shoe joint + every other to surface (6 centralizers)
7"	Surface	6910'	1 on shoe joint + every other to TOC
4 1/2" Liner	KOP	TD	swell packers with 1 centralizer above and below each packer

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Rio Arriba County, New Mexico

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Casing	Cementing
16" Conductor Casing	Grout
9 5/8" Surface Casing	Approximately 210 sacks (245.7 cubic feet) Halliburton premium cement with additives mixed at 15.8 ppg (yield = 1.17 ft ³ /sx) circulated to surface with 100% excess. Top of cement estimated at surface.
7" Intermediate Casing	Lead with approximately 720 sacks (1,332 cubic feet) Halliburton light premium cement with additives, mixed at 12.5 ppg (yield = 1.85 ft ³ /sx). Top of lead estimated at surface. Tail with approximately 200 sacks (230 cubic feet) Halliburton premium cement with additives mixed at 15.8 ppg (yield = 1.15 ft ³ /sx). Top of tail estimated at 5,971'.
4 1/2" Liner	No cement or centralizers will be used in this section. Swell packers will be run to isolate the production hole from the intermediate casing section.

5. MUD PROGRAM

<u>Interval</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss (API filtrate)</u>	<u>Remarks</u>
0' - 40'	8.3 - 8.8	26 - 36	NC	Freshwater Spud Mud Fluid System
40' - 350'	8.3 - 8.8	26 - 36	NC	Freshwater Spud Mud Fluid System
350' - TD	8.6 - 9.8	38-50	15 cc or less	Low Solids Non-Dispersed
Sufficient mud materials to maintain mud properties, control lost circulation and to contain kicks will be available on site. BBC may require minor amounts of diesel to be added to its fluid system in order to reduce torque and drag.				

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Rio Arriba County, New Mexico

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6. CORES, TESTS, & LOGS

Cores	none anticipated
Tests	none anticipated
Samples	30' samples; surface casing to TD. Preserve samples all show intervals;
Surveys	MWD as needed to land wellbore
Logging	Vertical Hole - Triple Combo Platform Express (RT Scanner, Density Neutron, Dipole Sonic, FMI) Horizontal Hole - MWD Gamma, FMI

7. DOWN HOLE CONDITIONS

No abnormal pressures, temperatures, nor hydrogen sulfide are expected. Maximum anticipated bottom hole pressure equals approximately 3,295 psi*. Maximum anticipated surface pressure equals approximately 1,872 psi** (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi per foot).

*maximum mud weight x 0.052 x TVD (6,465') = A (bottom hole pressure)

**maximum surface pressure = A - (0.22 x TVD)

8. OTHER INFORMATION

The anticipated spud date is upon approval. It is expected it will take ≈20 days to drill and ≈45 days to complete the well.

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Surface Use Plan

1. DIRECTIONS & EXISTING ROADS (See PAGES 11 - 15)

From the junction of US 550 and NM 537...

Go North 17.2 miles on NM 537

Then turn left and go Southwest 7.9 miles on dirt J-18 to a 5 way junction

Then turn right and go North & Northeast 6.5 miles on dirt J-6

Then turn right and go East & Southeast 0.5 mile on a dirt road

Then turn right and go SW 0.2 mile to the SE corner of EnerVest's 21R & 40 pads

Then go cross-country 1,801.51' to the proposed pad

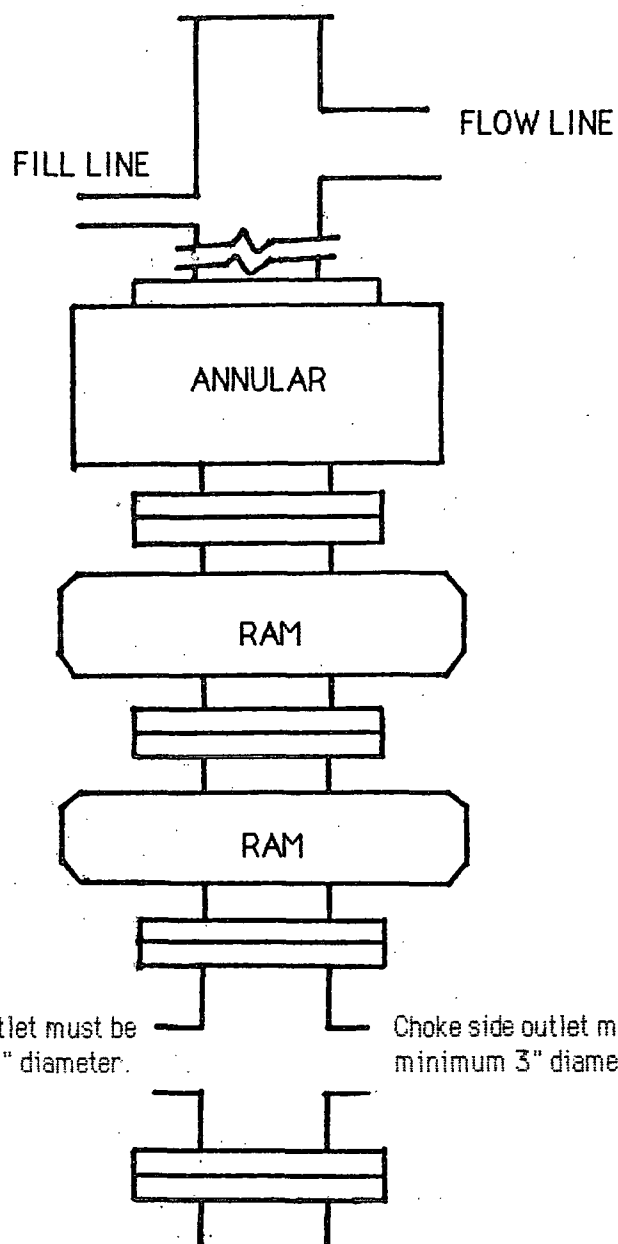
Roads will be maintained to at least equal to their present condition.

2. ROAD TO BE BUILT OR UPGRADED (See PAGES 13 & 14)

Upgrades will consist of repairing potholes. The 1,801.51' of new road will be built to BLM Gold Book standards. Road will be crowned and ditched, have a $\approx 14'$ wide running surface, and will be rocked where needed. Borrow ditches will be turned out at least once every ≈ 100 yards. Turnouts will be feathered out. One minimum 24" x 40' culvert will be installed near the pad entrance. A silt trap will be built south of the culvert. A stock pond $> 1/4$ mile downstream will be repaired. Maximum disturbed width will be 40' (includes pipeline). Maximum cut or fill = 9'. Maximum grade = 3%. No cattle guard is needed.

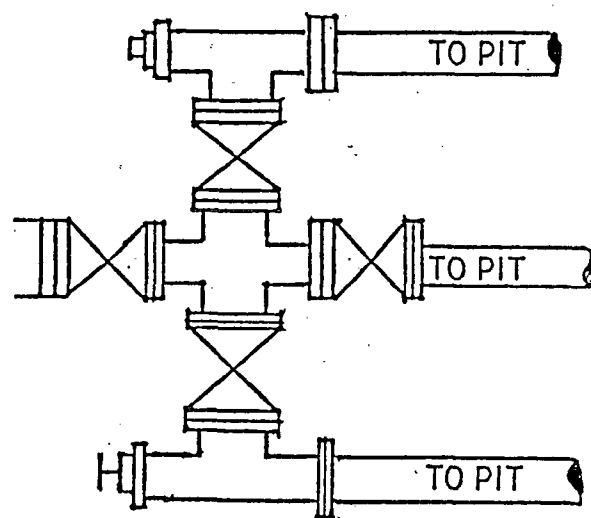
3. EXISTING WELLS (See PAGE 15)

There are 49 gas or oil wells, 9 plugged and abandoned wells, and 2 water wells within a mile radius of the well bore. There are no injection wells within a mile.



TYPICAL BOP STACK
& CHOKES MANIFOLD

There will be at least 2 chokes and 2 choke line valves (3" minimum). The choke line will be 3" in diameter. There will be a pressure gauge on the choke manifold.



Kill line will be minimum 2" diameter and have 2 valves, one of which shall be a minimum 2" check valve.

Upper kelly cock will have handle available.
Safety valve and subs will fit all drill string connections in use.
All BOPE connections subjected to well pressure will be flanged, welded, or clamped.