

District I  
1625 N French Dr, Hobbs, NM 88240  
District II  
1301 W Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S St Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

Form C-10  
May 27, 20

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Submit to appropriate District Office

☐ AMENDED REPORT

RCVD DEC 17 '07

OIL CONS. DIV.

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

<sup>1</sup> Operator Name and Address Four Star Oil & Gas Co P O. Box 36366 Houston, TX 77236		<sup>2</sup> OGRID Number 131994	<sup>3</sup> API Number DIST. 3 30-045-34547
<sup>3</sup> Property Code 303536	<sup>5</sup> Property Name Yager		<sup>6</sup> Well No 2B
<sup>9</sup> Proposed Pool 1 Mesa Verde		<sup>10</sup> Proposed Pool 2	

<sup>7</sup> Surface Location

UL or lot no P	Section 20	Township 32N	Range 6W	Lot Idn	Feet from the 1082	North/South line South	Feet from the 999	East/West line East	County San Juan
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<sup>8</sup> Proposed Bottom Hole Location If Different From Surface

UL or lot no 1	Section 20	Township 32N	Range 6W	Lot Idn	Feet from the 2263	North/South line South	Feet from the 660	East/West line East	County San Juan
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Additional Well Information

<sup>11</sup> Work Type Code New Well	<sup>12</sup> Well Type Code Gas	<sup>13</sup> Cable/Rotary	<sup>14</sup> Lease Type Code Private	<sup>15</sup> Ground Level Elevation 6793
<sup>16</sup> Multiple N	<sup>17</sup> Proposed Depth 6000	<sup>18</sup> Formation Mesa Verde	<sup>19</sup> Contractor	<sup>20</sup> Spud Date 3/1/2007
Depth to Groundwater >300'		Distance from nearest fresh water well >1000'		Distance from nearest surface water appx 300'
Pit Liner Synthetic X 12 mils thick Clay <input type="checkbox"/> Pit Volume _____ bbls		Drilling Method: Fresh Water X Brine <input type="checkbox"/> Diesel/Oil-based <input type="checkbox"/> Gas/Air <input type="checkbox"/>		
Closed-Loop System <input type="checkbox"/>				

<sup>21</sup> Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
12.25	9.625	36	400	245	0
8.75	7	23	2900	450	0
6.25	4.5	11.6	6000	560	0

<sup>22</sup> 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.

NOTIFY AZTEC OCD 24 HRS.  
PRIOR TO CASING & CEMENT

<sup>23</sup> I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCD guidelines X, a general permit <input type="checkbox"/> , or an (attached) alternative OCD-approved plan <input type="checkbox"/> .		OIL CONSERVATION DIVISION	
Signature <i>Pamela Rainey</i>		Approved by <i>[Signature]</i>	
Printed name: Pamela Rainey		Title DEPUTY OIL & GAS INSPECTOR, DIST. 3	
Title Regulatory Specialist		Approval Date DEC 20 2007	
E-mail Address prcx@chevron.com		Expiration Date	
Date 12/13/07	Phone 281-561-4859	Conditions of Approval Attached <input type="checkbox"/>	

DEC 20 2007 RV

HOLD 0104 run directional survey  
& as drilled c-102.

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State of New Mexico  
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.  
Santa Fe, N.M. 87505

Form C-102

Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number <b>30045-34547</b>	<sup>2</sup> Pool Code <b>72319</b>	<sup>3</sup> Pool Name <b>Blanco-MESA VERDE</b>
<sup>4</sup> Property Code <b>303536</b>	<sup>5</sup> Property Name <b>YAGER</b>	<sup>6</sup> Well Number <b>2B</b>
<sup>7</sup> GRID No. <b>131994</b>	<sup>8</sup> Operator Name <b>CHEVRON MIDCONTINENT, LP.</b>	<sup>9</sup> Elevation <b>6793</b>

<sup>10</sup> Surface Location

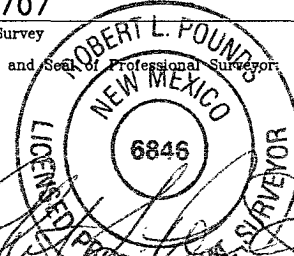
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	20	32 N	6 W		1082	SOUTH	999	EAST	SAN JUAN

<sup>11</sup>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
I	20	32 N	6 W		2263	SOUTH	660	EAST	SAN JUAN

<sup>12</sup> Dedicated Acres <b>6.320</b>	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No
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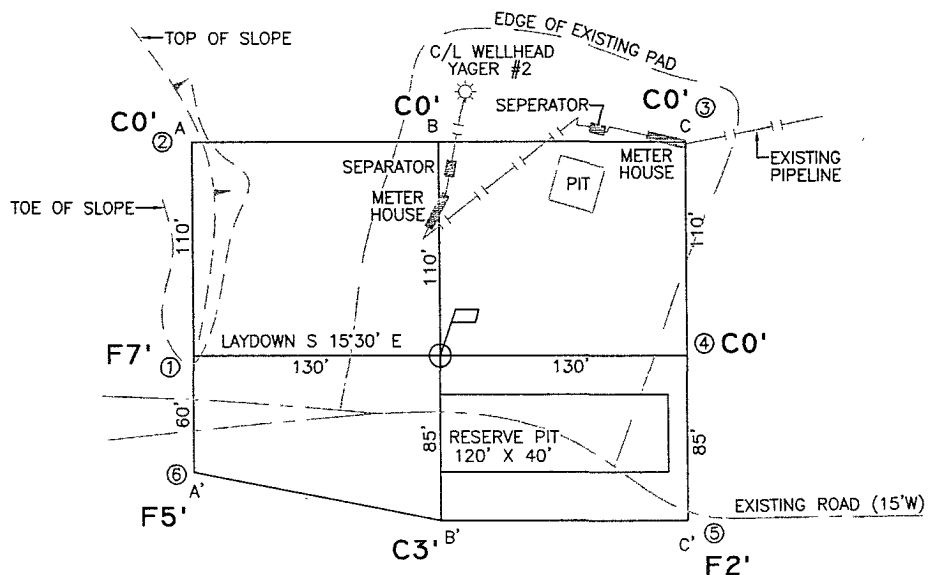
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

<sup>16</sup> S 89°49'14" E 2770.41' N 1°14'46" E 2656.98' N 0°21'14" W N 88°58'14" W	<p>○ = SURFACE LOCATION ● = BOTTOM HOLE LOCATION</p> <p>SECTION 20</p> <p>NAD 83 LAT: 36.964273° N LONG: 107.475364° W NAD 27 LAT: 36° 57.8560' N LONG: 107° 28.4855' W</p> <p>NAD 83 LAT: 36.961028° N LONG: 107.476656° W NAD 27 LAT: 36° 57.6614' N LONG: 107° 28.5631' W</p>	5356.16' 2726.14' 660' 2263' 999' 2591.87'	<p><sup>17</sup> OPERATOR CERTIFICATION</p> <p>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.</p> <p><i>Pamela Rainey</i> 12/13/07 Signature Date Pamela Rainey Printed Name</p> <p><sup>18</sup> SURVEYOR CERTIFICATION</p> <p>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.</p> <p>9/11/07 Date of Survey Signature and Seal of Professional Surveyor  Certificate Number</p>
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BEFORE DIGGING  
CALL FOR UTILITY  
LINE LOCATION!



0 50 100  
SCALE: 1"=100'



A-A'

6810				
6800				
6790				
6780				
6770				

B-B'

6810				
6800				
6790				
6780				
6770				

C-C'

6810				
6800				
6790				
6780				
6770				

### CROSS SECTIONS

HORIZONTAL: 1"=100'  
VERTICAL: 1"=50'

LEASE: **YAGER 2B**

1082' FSL, 999' FEL (SURFACE)

FOOTAGES: 2263' FSL, 660' FEL (BOTTOM)

SEC. **20** TWN. **32 N** RNG. **6 W** N.M.P.M.

LAT: **N 36.961028°** LONG: **W 107.476656° (NAD 83)**

LAT: **N 36°57.6614'** LONG: **W 107°28.5631' (NAD 27)**

ELEVATION: **6793**

**CHEVRON MIDCONTINENT, LP.**

HOUSTON, TEXAS

SURVEYED: 9/11/07

REV. DATE: 11/12/07

APP. BY R.L.P.

DRAWN BY: H.S.

DATE DRAWN: 9/19/07

FILE NAME: 7921C02

**UNITED**  
FIELD SERVICES INC.

P.O. BOX 3651  
FARMINGTON, NM 87499  
OFFICE: (505) 334-0408

**Chevron Midcontinent, L.P.  
Yager 2B  
1082' FSL, 999' FEL  
SE/4 SE/4. Sec 20 T32N R6W  
Rio Arriba County, NM**

**EIGHT POINT DRILLING PLAN**

**1. ESTIMATED FORMATION TOPS (KB):**

Formation	Depth TVD
Picture Cliffs Sst	3100
Lewis Shale	4600
Mesa Verde (Cliff House)	5200
Mesa Verde (Menefee)	5500
Mesa Verde (Point Lookout)	5800
TD	6200' MD / 6,000' TVD

**2. NOTABLE ZONES AND PLAN FOR PROTECTION:**

Gas or Oil Zones	Water Zones	Coal Zones
Lewis Shale	Ojo Alamo	Fruitland
Mesaverde	Kirtland	

**Water zones will be protected with casing, cement, and weighted mud. Fresh water found while drilling will be recorded. Oil or gas shows will be tested for commercial potential based on the engineer's recommendations.**

**3. PRESSURE CONTROL EQUIPMENT:**

Maximum anticipated pressure is ~ 2700 psi.

Pressure control equipment shall be in accordance with BLM minimum standards.

One 11" 3M double ram preventer and one 11" 3M annular preventer will be used. The double ram preventer will be equipped with pipe rams on bottom and blind rams on top. All BOPs meet API 16D. One Shaffer 7 station accumulator, API 16E. One 3" 5M choke manifold. The choke and kill lines will be connected to outlets below the bottom rams, utilizing either the ram body outlet or a drilling spool with side outlets. Tests will be recorded on IADC log. Please refer to attached schematic. Test procedure and frequency shall be in accordance with BLM minimum standards for 3000 psi equipment, per BLM Oil & Gas Order #2.

**Chevron Midcontinent, L.P.**  
**Yager 2B**  
**1082' FSL, 999' FEL**  
**SE/4 SE/4. Sec 20 T32N R6W**  
**Rio Arriba County, NM**

**4. SUPPLEMENTAL DRILLING EQUIPMENT AND CASING INFORMATION:**

**Casing Information:** All casing will be new pipe and tested to 1500 psi.

Hole Size	O.D.	Weight (lb/ft)	Grade	Age	Connection	GL Setting Depth
12-1/4"	9-5/8"	36#	J-55	New	LTC	400'
8-3/4"	7"	23#	N-80	New	LTC	2900'
6-1/4"	4-1/2"	11.6#	N-80	New	LTC	6200' MD / 6000' TVD

**Surface casing** will be cemented to the surface with ~290 cu. ft. (~245 sx) Mountain G Premium cmt (1.2 ft<sup>3</sup>/sx yield, 15.6 ppg, & 5.24 gps) with 2% CaCl<sub>2</sub> and ¼#/sx Poly-E-Flake. Volume based on 100% excess. We plan to run a minimum of at least 3 centralizers. A wiper plug will be displaced to within 20' of the shoe. WOC = 8 hours minimum. Surface casing will be tested to 500 psi for 15 minutes.

Cementing equipment will include a guide shoe, one shoe jt and float collar. Centralizers will be placed on the bottom four joints.

**Intermediate casing** will be cemented to surface. Total cement = 756 cu. ft. Volumes are calculated at 75% excess. If cement does not circulate to surface, then a temperature survey will be run to determine the actual cement top as needed. WOC = 8 hours minimum. Test to 1000 psi for 15 minutes.

Lead cement will be ~540cu. ft. (~290 sx) Halliburton Light Premium w/ 5#/sx gilsonite, 12.4 ppg for a yield of 1.89 cu. ft. per sx.

Tail cement will be ~184 cu. ft. (~160 sx) 50/50 Poz Standard w/ 5#/sx gilsonite & ¼#/sx Poly-E-Flake, 13.5 ppg for a yield of 1.30 Cu. ft. per sx.

Cementing equipment will include a guide shoe, one shoe jt and float collar will be run 20' off bottom. We plan on running at least 10 centralizers.

**Production casing** will be cemented up to 500' inside the intermediate casing with a single stage. Volumes are calculated at 50% excess. If necessary, a CBL will be run during completion operations to insure cement coverage inside the 7" intermediate casing. Casing will be pressure tested to 6000 psi during completion operations.

Primary cement will be ~520 cu. ft. (~366 sx) 50/50 Poz Premium w/ ¼#/sx Poly-E-Flake, 5 lbm/sk Gilsonite, 0.8% Halad ®-9, 0.1% HR-5, 13.1 ppg for a yield of 1.41 Cu. ft. per sx.

**Chevron Midcontinent, L.P.  
Yager 2B  
1082' FSL, 999' FEL  
SE/4 SE/4. Sec 20 T32N R6W  
Rio Arriba County, NM**

Cementing equipment will include a guide shoe, one shoe joint and float collar will be run as close as to the bottom as we can with a centralized shoe joint and next five joints. Centralizers will be run across the producing zones.

**5. CIRCULATING MEDIUM AND MUD TYPE:**

Depth	Type	Wt./ppg	Viscosity	Fluid Loss	pH
Spud – 400'	WBM	8.4 – 8.8	32 – 38	NC	9-9.5
400' – 2900'	WBM	8.4 – 9.0	28 – 42	10-12	9-10
2900' – TD	Air &/or Air/mist	n/a	n/a	n/a	n/a

Lost circulation and absorption material will be on location.

**6. ANTICIPATED TYPE AND AMOUNT OF LOGGING, CORING, AND TESTING:**

Open hole logs are planned. No cores or drill stem tests are planned.

**7. EXPECTED BOTTOM HOLE PRESSURE AND ANY ANTICIPATED ABNORMAL PRESSURE, TEMPERATURES, OR OTHER HAZARDS (H<sub>2</sub>S, STEAM, ETC.) AND ASSOCIATED CONTINGENCY PLANS:**

No abnormal pressures, temperatures, nor hydrogen sulfide are expected. Maximum pressure will be less than ~2700 psi.

**8. OTHER:**

It is expected it will take approximately ten (7) days to drill and ten (10) days to complete the well. Completion will start approximately one month after the spud and will include hydraulic fracturing.



Project: SAN JUAN BASIN NAD 27  
 Site: YAGER  
 Well: YAGER 10  
 Wellbore: Wellbore #1  
 Plan: plan 2 (YAGER 10/Wellbore #1)



### 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	400.0	0.00	0 00	400.0	0.0	0.0	0.00	0.00	0.0	
3	1051.8	19.55	17.50	1039.2	105.0	33.1	3.00	17.50	110.1	
4	4099.1	19.55	17.50	3910.8	1077.8	339.9	0.00	0.00	1130.1	
5	4750.9	0.00	0.00	4550.0	1182.8	373.0	3.00	180.00	1240.2	LEWIS YAGER 10
6	5350.9	0.00	0.00	5150.0	1182.8	373.0	0.00	0.00	1240.2	MESAVERDE 10
7	6200.9	0.00	0.00	6000.0	1182.8	373.0	0.00	0.00	1240.2	PBHL YAGER 10

### WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
EOD YAGER 10	2950.0	1182.8	373.0	2170458.20	604758.30	Point
LEWIS YAGER 10	4550.0	1182.8	373.0	2170458.20	604758.30	Point
MESAVERDE 10	5150.0	1182.8	373.0	2170458.20	604758.30	Point
PBHL YAGER 10	6000.0	1182.8	373.0	2170458.20	604758.30	Circle (Radius: 100.0)

### PROJECT DETAILS: SAN JUAN BASIN NAD 27

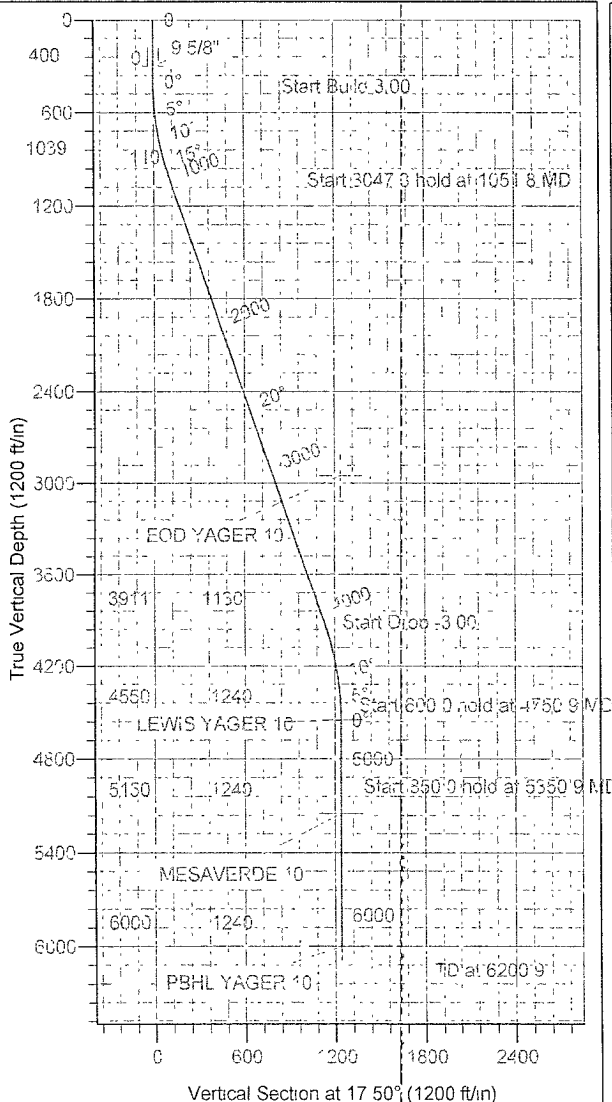
Geodetic System: US State Plane 1927 (Exact solution)  
 Datum: NAD 1927 (NADCON CONUS)  
 Ellipsoid: Clarke 1866  
 Zone: New Mexico West 3003  
 System Datum: Mean Sea Level

### REFERENCE INFORMATION

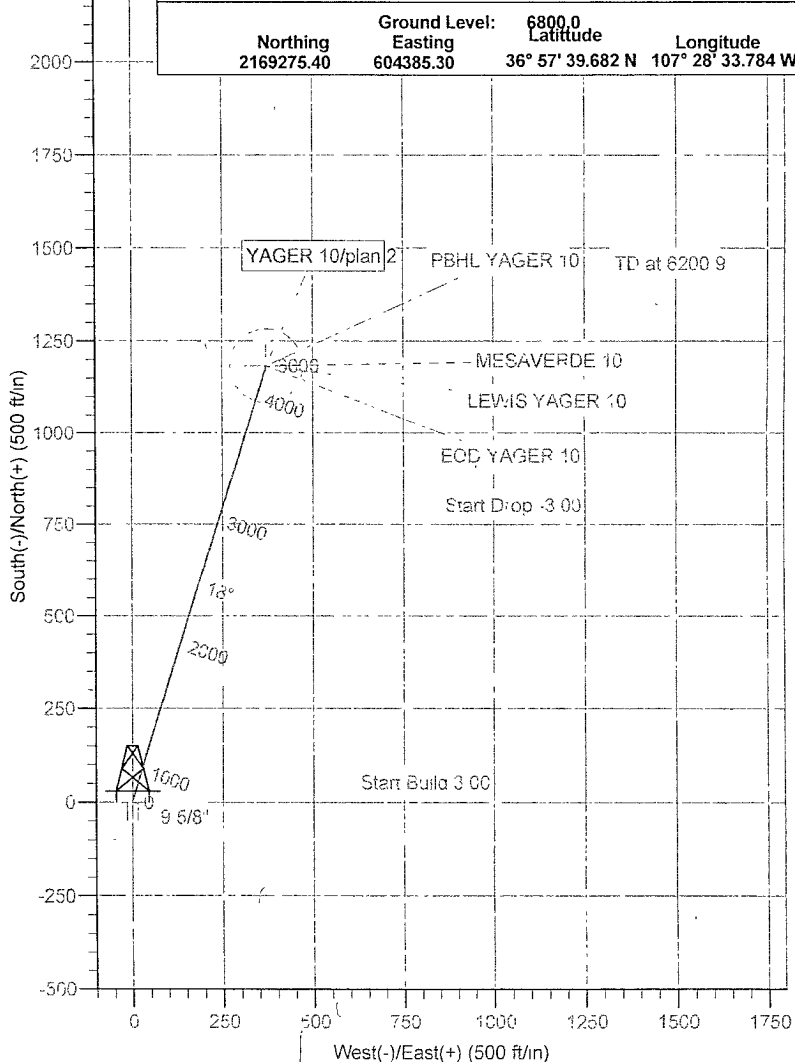
Co-ordinate (N/E) Reference: Well YAGER 10, Gnd North  
 Vertical (TVD) Reference: WELL @ 6816.0ft (Original Well Elev)  
 Section (VS) Reference: Slot - (0.0N, 0.0E)  
 Measured Depth Reference: WELL @ 6816.0ft (Original Well Elev)  
 Calculation Method: Minimum Curvature



Azimuths to Grid North  
 True North -0.21°  
 Magnetic North -10.09°  
 Magnetic Field  
 Strength: 51274.8nT  
 Dip Angle: 53.82°  
 Date: 2007/09/13  
 Model: BGGM2007

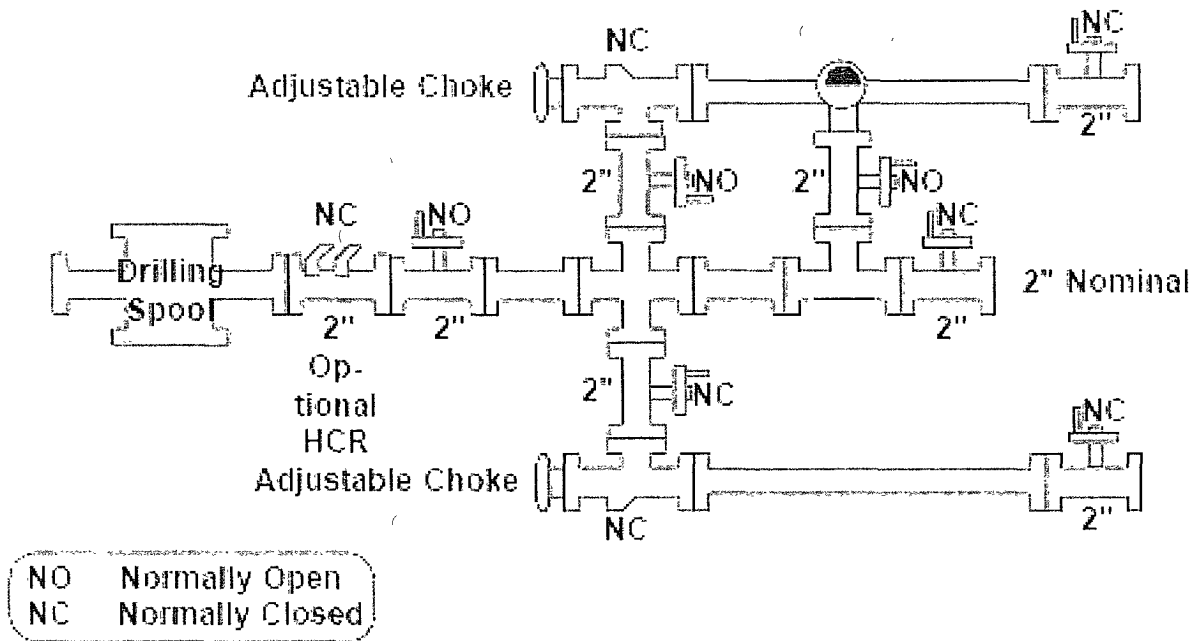


### WELL DETAILS: YAGER 10



Chevron Midcontinent, L.P.  
Yager 2B  
1082' FSL, 999' FEL  
SE/4 SE/4. Sec 20 T32N R6W  
Rio Arriba County, NM

CLASS III CHOKE SCHEMATIC





Chevron Midcontinent, L.P.  
Yager 2B  
1082' FSL, 999' FEL  
SE/4 SE/4, Sec 20 T32N R6W  
Rio Arriba County, NM

**CLASS III BOP SCHEMATIC**

