

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

OCCOBBS OCD
Hobbs
DEC 10 2018
RECEIVED

FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NMNM0553548
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		7. If Unit or CA Agreement, Name and No.
2. Name of Operator CIMAREX ENERGY COMPANY (215099)		8. Lease Name and Well No. DOS EQUIS 13 FEDERAL COM (402A) 10H
3a. Address 600 N. Marienfeld St., Suite 600 Midland OK 79701		9. API Well No. 30-025-45417
3b. Phone No. (include area code) (432)620-1936		10. Field and Pool, or Exploratory BONESPRING WILDCAT BONE SPRING, WEST
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NENW / 240 FNL / 1330 FWL / LAT 32.22425 / LONG -103.632563 At proposed prod. zone SESE / 330 FSL / 660 FWL / LAT 32.211319 / LONG -103.634706		11. Sec., T, R, M, or Blk. and Survey or Area SEC 13 / T24S / R32E / NMP
14. Distance in miles and direction from nearest town or post office* 27.5 miles		12. County or Parish LEA
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 240 feet		13. State NM
16. No of acres in lease 320		17. Spacing Unit dedicated to this well 160
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 20 feet		20. BLM/BIA Bond No. in file FED: NMB001188
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3622 feet		22. Approximate date work will start* 10/01/2018
		23. Estimated duration 30 days
24. Attachments		

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

- | | |
|------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| 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 must be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be requested by the BLM. |

25. Signature (Electronic Submission)	Name (Printed/Typed) Hope Knauls / Ph: (918)295-1799	Date 06/06/2018
Title Regulatory Technician		
Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) Cody Layton / Ph: (575)234-5959	Date 11/21/2018
Title Assistant Field Manager Lands & Minerals		
Office CARLSBAD		

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.

6CP Rec 12/12/18

APPROVED WITH CONDITIONS
Approval Date: 11/21/2018

K2 12/14/18
Double checked

INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from local Federal offices.

ITEM 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective productive zone.

ITEM 22: Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

ITEM 24: If the proposal will involve hydraulic fracturing operations, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The Privacy Act of 1974 and regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 25 U.S.C. 396; 43 CFR 3160

PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service well or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.

ROUTINE USE: Information from the record and/or the record will be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM connects this information to a new evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Connection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

Additional Operator Remarks

Location of Well

1. SHL: NENW / 240 FNL / 1330 FWL / TWSP: 24S / RANGE: 32E / SECTION: 13 / LAT: 32.22425 / LONG: -103.632563 (TVD: 0 feet, MD: 0 feet)
PPP: NWSW / 0 FNL / 660 FEL / TWSP: 24S / RANGE: 32E / SECTION: 13 / LAT: 32.217841 / LONG: -103.6347 (TVD: 11030 feet, MD: 13100 feet)
BHL: SESE / 330 FSL / 660 FWL / TWSP: 24S / RANGE: 32E / SECTION: 13 / LAT: 32.211319 / LONG: -103.634706 (TVD: 11030 feet, MD: 15473 feet)

BLM Point of Contact

Name: Priscilla Perez

Title: Legal Instruments Examiner

Phone: 5752345934

Email: pperez@blm.gov

CONFIDENTIAL

Review and Appeal Rights

A person contesting a decision shall request a State Director review. This request must be filed within 20 working days of receipt of the Notice with the appropriate State Director (see 43 CFR 3165.3). The State Director review decision may be appealed to the Interior Board of Land Appeals, 801 North Quincy Street, Suite 300, Arlington, VA 22203 (see 43 CFR 3165.4). Contact the above listed Bureau of Land Management office for further information.

CONFIDENTIAL



U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Operator Certification Data Report

11/26/2018

Operator Certification

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

NAME: Hope Knauls

Signed on: 05/09/2018

Title: Regulatory Technician

Street Address: 202 S. Cheyenne Ave, Ste 1000

City: Tulsa

State: OK

Zip: 74103

Phone: (918)295-1799

Email address: hknauls@cimarex.com

Field Representative

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Email address:



U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Application Data Report

11/26/2018

APD ID: 10400030517

Submission Date: 06/06/2018

Operator Name: CIMAREX ENERGY COMPANY

Well Name: DOS EQUIS 13 FEDERAL COM

Well Number: 10H

Well Type: CONVENTIONAL GAS WELL

Well Work Type: Drill



[Show Final Text](#)

Section 1 - General

APD ID: 10400030517

Tie to previous NOS?

Submission Date: 06/06/2018

BLM Office: CARLSBAD

User: Hope Knauls

Title: Regulatory Technician

Federal/Indian APD: FED

Is the first lease penetrated for production Federal or Indian? FED

Lease number: NMNM0553548

Lease Acres: 320

Surface access agreement in place?

Allotted?

Reservation:

Agreement in place? NO

Federal or Indian agreement:

Agreement number:

Agreement name:

Keep application confidential? YES

Permitting Agent? NO

APD Operator: CIMAREX ENERGY COMPANY

Operator letter of designation:

Operator Info

Operator Organization Name: CIMAREX ENERGY COMPANY

Operator Address: 600 N. Marienfeld St., Suite 600

Zip: 79701

Operator PO Box:

Operator City: Midland

State: OK

Operator Phone: (432)620-1936

Operator Internet Address: tstathem@cimarex.com

Section 2 - Well Information

Well in Master Development Plan? NO

Mater Development Plan name:

Well in Master SUPO? NO

Master SUPO name:

Well in Master Drilling Plan? NO

Master Drilling Plan name:

Well Name: DOS EQUIS 13 FEDERAL COM

Well Number: 10H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: BONESPRING Pool Name: WILDCAT-BONE
SPRING

Is the proposed well in an area containing other mineral resources? USEABLE WATER

Operator Name: CIMAREX ENERGY COMPANY

Well Name: DOS EQUIS 13 FEDERAL COM

Well Number: 10H

Describe other minerals:

Is the proposed well in a Helium production area? N **Use Existing Well Pad?** YES **New surface disturbance?**

Type of Well Pad: MULTIPLE WELL

Multiple Well Pad Name: DOS **Number:** N2N2 PAD

EQUIS 13 FEDERAL COM

Well Class: HORIZONTAL

Number of Legs: 1

Well Work Type: Drill

Well Type: CONVENTIONAL GAS WELL

Describe Well Type:

Well sub-Type: EXPLORATORY (WILDCAT)

Describe sub-type:

Distance to town: 27.5 Miles

Distance to nearest well: 20 FT

Distance to lease line: 240 FT

Reservoir well spacing assigned acres Measurement: 160 Acres

Well plat: Dos_Equis_13_Fed_Com_10H_C102_Plat_20181115070754.pdf

Well work start Date: 10/01/2018

Duration: 30 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83

Vertical Datum: NAVD88

Survey number: 23782

	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD
SHL Leg #1	240	FNL	133 0	FWL	24S	32E	13	Aliquot NENW	32.22425	- 103.6325 63	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 055354 8	362 2	0	0
KOP Leg #1	340	FNL	672	FWL	24S	32E	13	Aliquot NWN W	32.22398 6	- 103.6346 94	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 055354 8	- 693 1	105 92	105 53
PPP Leg #1	0	FNL	660	FEL	24S	32E	13	Aliquot NWS W	32.21784 1	- 103.6347	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 055364 2	- 740 8	131 00	110 30

Operator Name: CIMAREX ENERGY COMPANY

Well Name: DOS EQUIS 13 FEDERAL COM

Well Number: 10H

	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD
EXIT Leg #1	132 0	FNL	660	FWL	24S	32E	13	Aliquot NWS W	32.21399 16	- 103.6347 02	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 055364 2	- 740 8	145 00	110 30
BHL Leg #1	330	FSL	660	FWL	24S	32E	13	Aliquot SESE	32.21131 9	- 103.6347 06	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 116574	- 740 8	154 73	110 30

Operator Name: CIMAREX ENERGY COMPANY

Well Name: DOS EQUIS 13 FEDERAL COM

Well Number: 10H

a third-party welder while being monitored by the wellhead vendor representative. All BOP equipment will be tested utilizing a conventional test plug. Not a cup or J-packer type. A solid steel body pack-off will be utilized after running and cementing the intermediate casing. After installation the pack-off and lower flange will be pressure tested to 3000 psi. The surface casing string will be tested as per Onshore Order No. 2 to at least 0.22 psi/ft or 1500 psi, whichever is greater. The casing string utilizing steel body pack-off will be tested to 70% of casing burst. If well conditions dictate conventional slips will be set and BOPE will be tested to appropriate pressures based on permitted pressure requirements

Choke Diagram Attachment:

Dos_Equis_13_Fed_Com_10H_Choke_2M3M_20180601102335.pdf

BOP Diagram Attachment:

Dos_Equis_13_Fed_Com_10H_BOP_2M_20180601102352.pdf

Pressure Rating (PSI): 3M

Rating Depth: 15481

Equipment: A BOP consisting of three rams, including one blind ram and two pipe rams and one annular preventer. An accumulator that meets the requirements in Onshore Order #2 for the pressure rating of the BOP stack. A rotating head may be installed as needed. A Kelly clock will be installed and maintained in operable condition and a drill string safety valve in the open position will be available on the rig floor.

Requesting Variance? YES

Variance request: Co-flex line between the BOP and choke manifold. Certification for proposed co-flex hose is attached. The hose is not required by the manufacturer to be anchored. In the event the specific hose is not available, one of equal or higher rating will be used. Variance to include Hammer Union connections on lines downstream of the buffer tank only.

Testing Procedure: A multi-bowl wellhead system will be utilized. After running the 13-3/8" surface casing, a 13 5/8" BOP/BOPE system with a minimum working pressure of 3000 psi will be installed on the wellhead system and will be pressure tested to 250 psi low followed by a 3000 psi test. Annular will be tested to 50% of working pressure. The pressure test will be repeated at least every 30 days, as per Onshore Order No. 2. The multi-bowl wellhead will be installed by vendor's representative. A copy of the installation instructions has been sent to the BLM field office. The wellhead will be installed by a third-party welder while being monitored by the wellhead vendor representative. All BOP equipment will be tested utilizing a conventional test plug. Not a cup or J-packer type. A solid steel body pack-off will be utilized after running and cementing the intermediate casing. After installation the pack-off and lower flange will be pressure tested to 3000 psi. The surface casing string will be tested as per Onshore Order No. 2 to at least 0.22 psi/ft or 1500 psi, whichever is greater. The casing string utilizing steel body pack-off will be tested to 70% of casing burst. If well conditions dictate conventional slips will be set and BOPE will be tested to appropriate pressures based on permitted pressure requirements

Choke Diagram Attachment:

Dos_Equis_13_Fed_Com_10H_BOP_3M_20180601102418.pdf

BOP Diagram Attachment:

Dos_Equis_13_Fed_Com_10H_BOP_3M_20180601104011.pdf

Operator Name: CIMAREX ENERGY COMPANY

Well Name: DOS EQUIS 13 FEDERAL COM

Well Number: 10H

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	NON API	N	0	1235	0	1235	0	1235	1235	H-40	48	STC	1.31	3.06	BUOY	5.43	BUOY	5.43
2	INTERMEDIATE	12.25	9.625	NEW	API	N	0	4900	0	4900	0	4900	4900	J-55	40	LTC	1.32	1.52	BUOY	2.65	BUOY	2.65
3	PRODUCTION	8.75	5.5	NEW	API	N	0	10592	0	10592	0	10592	10592	L-80	17	LTC	1.27	1.56	BUOY	1.8	BUOY	1.8
4	PRODUCTION	8.75	5.5	NEW	API	N	10592	15473	10592	15473	10592	15473	4881	L-80	17	LTC	1.22	1.5	BUOY	53.32	BUOY	53.32

Casing Attachments

Casing ID: 1 **String Type:** SURFACE

Inspection Document:

Spec Document:

Dos_Equis_13_Fed_Com_10H_Spec_Sheet_20180601110604.pdf

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Dos_Equis_13_Fed_Com_10H_Casing_Assumptions_20180601110640.pdf

Operator Name: CIMAREX ENERGY COMPANY

Well Name: DOS EQUIS 13 FEDERAL COM

Well Number: 10H

Casing Attachments

Casing ID: 2 **String Type:** INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Dos_Equis_13_Fed_Com_10H_Casing_Assumptions_20180601110709.pdf

Casing ID: 3 **String Type:** PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Dos_Equis_13_Fed_Com_10H_Casing_Assumptions_20180601110727.pdf

Casing ID: 4 **String Type:** PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Dos_Equis_13_Fed_Com_10H_Casing_Assumptions_20180601110945.pdf

Section 4 - Cement

Operator Name: CIMAREX ENERGY COMPANY

Well Name: DOS EQUIS 13 FEDERAL COM

Well Number: 10H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	1235	599	1.72	13.5	1029	50	Class C	Bentonite
SURFACE	Tail		0	1235	109	1.34	14.8	214	50	Class C	LCM
INTERMEDIATE	Lead		0	4900	919	1.88	12.9	1727	50	35:65 (PozC)	Salt, and Bentonite
INTERMEDIATE	Tail		0	4900	286	1.34	14.8	383	25	Class C	LCM
PRODUCTION	Lead		0	1059 2	508	3.64	10.3	1849	25	Tuned light	LCM
PRODUCTION	Tail		0	1059 2	1047	1.3	14.2	1360	10	50:50(Poz:H)	Salt, Bentonite, Fluid Loss, Dispersant, SMS
PRODUCTION	Lead		1059 2	1547 3	508	3.64	10.3	1849	25	Tuned Light	LCM
PRODUCTION	Tail		1059 2	1547 3	1047	1.3	14.2	1360	10	50:50(Poz H)	Salt, Bentonite, fluid loss, Dispersant, SMS

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with Onshore Order #2:

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

Describe what will be on location to control well or mitigate other conditions: Sufficient mud materials will be kept on location at all times in order to combat lost circulation or unexpected kicks. In order to run DSTs, open hole logs, and casing, the viscosity and water loss may have to be adjusted in order to meet these needs.

Describe the mud monitoring system utilized: PVT/Pason/Visual Monitoring

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	1235	SPUD MUD	8.3	8.8							

Operator Name: CIMAREX ENERGY COMPANY

Well Name: DOS EQUIS 13 FEDERAL COM

Well Number: 10H

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
1235	4900	SALT SATURATED	8.7	9.2							
4900	15473	OTHER : FW/Cut Brine	8.5	9							

Section 6 - Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures:

No DST Planned

List of open and cased hole logs run in the well:

CNL,DS,GR

Coring operation description for the well:

n/a

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 5162

Anticipated Surface Pressure: 2438.4

Anticipated Bottom Hole Temperature(F): 179

Anticipated abnormal pressures, temperatures, or potential geologic hazards? YES

Describe:

Lost circulation may be encountered in the Delaware mountain group. Abnormal pressure as well as hole stability issues may be encountered in the Wolfcamp.

Contingency Plans geohazards description:

Lost circulation material will be available, as well as additional drilling fluid along with the fluid volume in the drilling rig pit system. Drilling fluid can be mixed on location or mixed in vendor mud plant and trucked to location if needed. Sufficient barite will be available to maintain appropriate mud weight for the Wolfcamp interval.

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

Dos_Equis_13_Fed_Com_10H_H2S_Plan_20180605134256.pdf

Operator Name: CIMAREX ENERGY COMPANY

Well Name: DOS EQUIS 13 FEDERAL COM

Well Number: 10H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Dos_Equis_13_Fed_Com_10H_Directional_Plan_20180605135450.pdf

Dos_Equis_13_Fed_Com_10H_AC_Report_20180605140221.pdf

Other proposed operations facets description:

N/A

Other proposed operations facets attachment:

Dos_Equis_13_Fed_Com_10H_Drilling_Plan_20180605142020.pdf

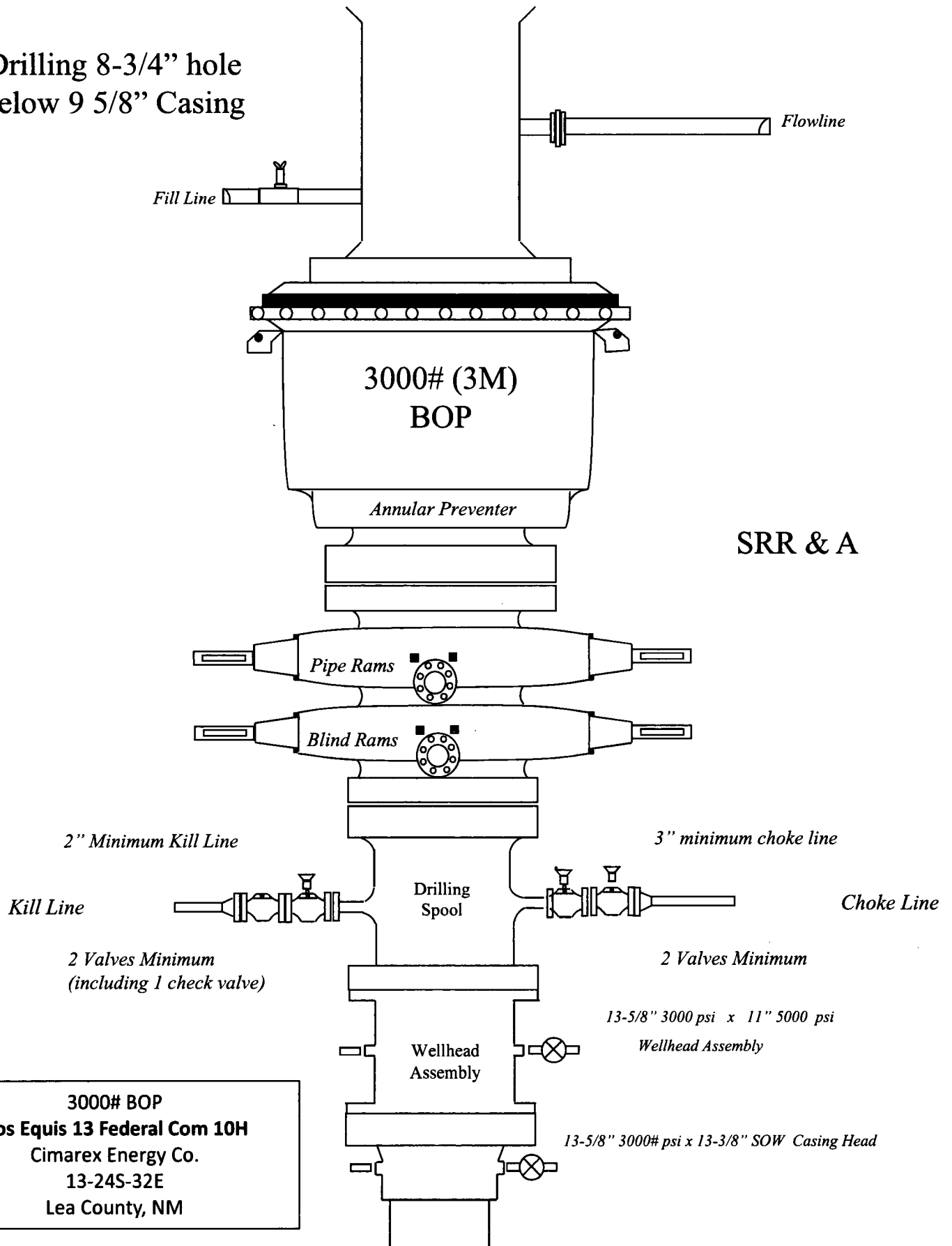
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Dos_Equis_13_Fed_Com_10H_Gas_Capture_Plan_20180605142134.pdf

Dos_Equis_13_Fed_Com_10H_Multibowl_20180605142149.pdf

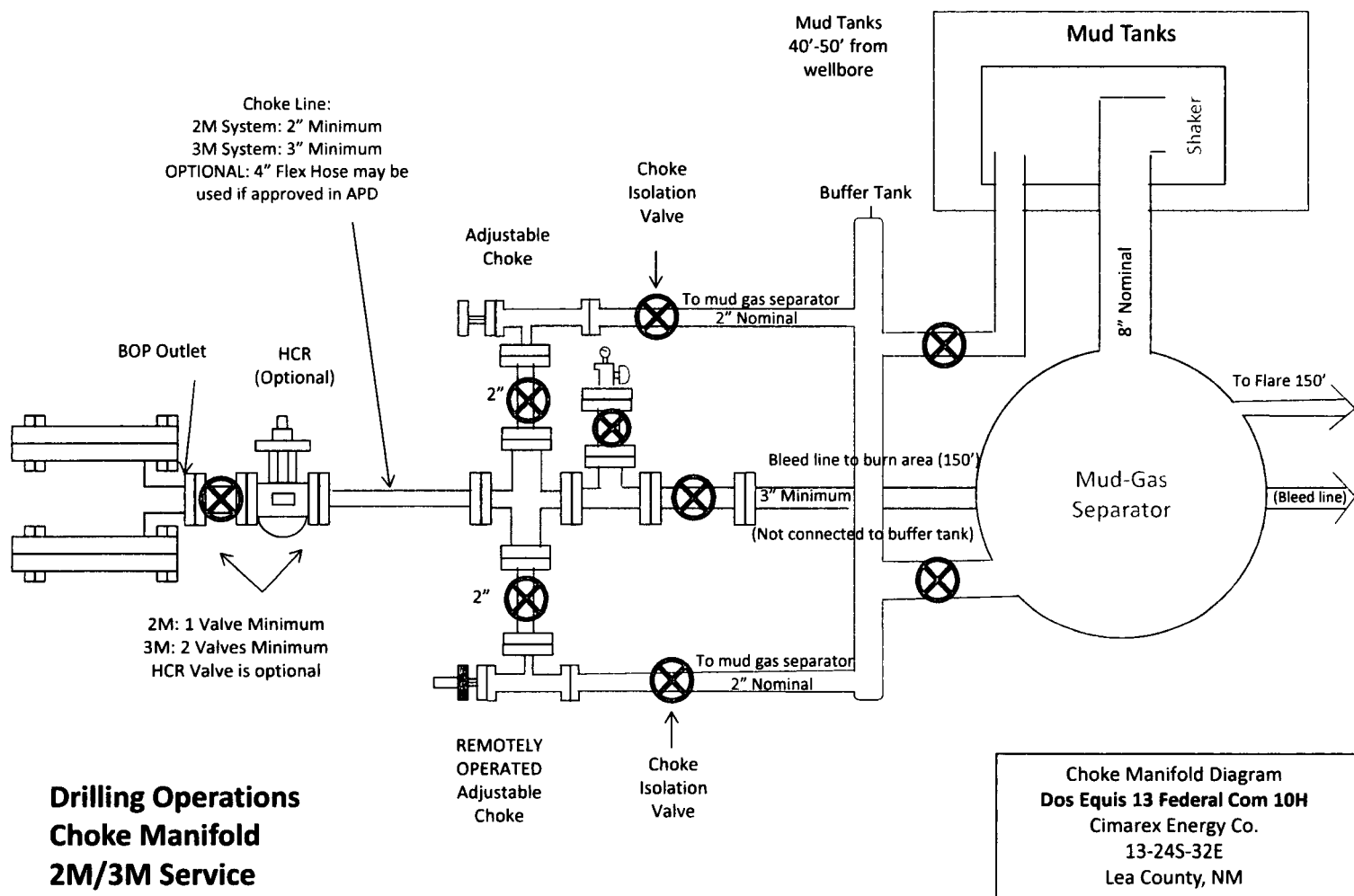
Other Variance attachment:

Drilling 8-3/4" hole
below 9 5/8" Casing

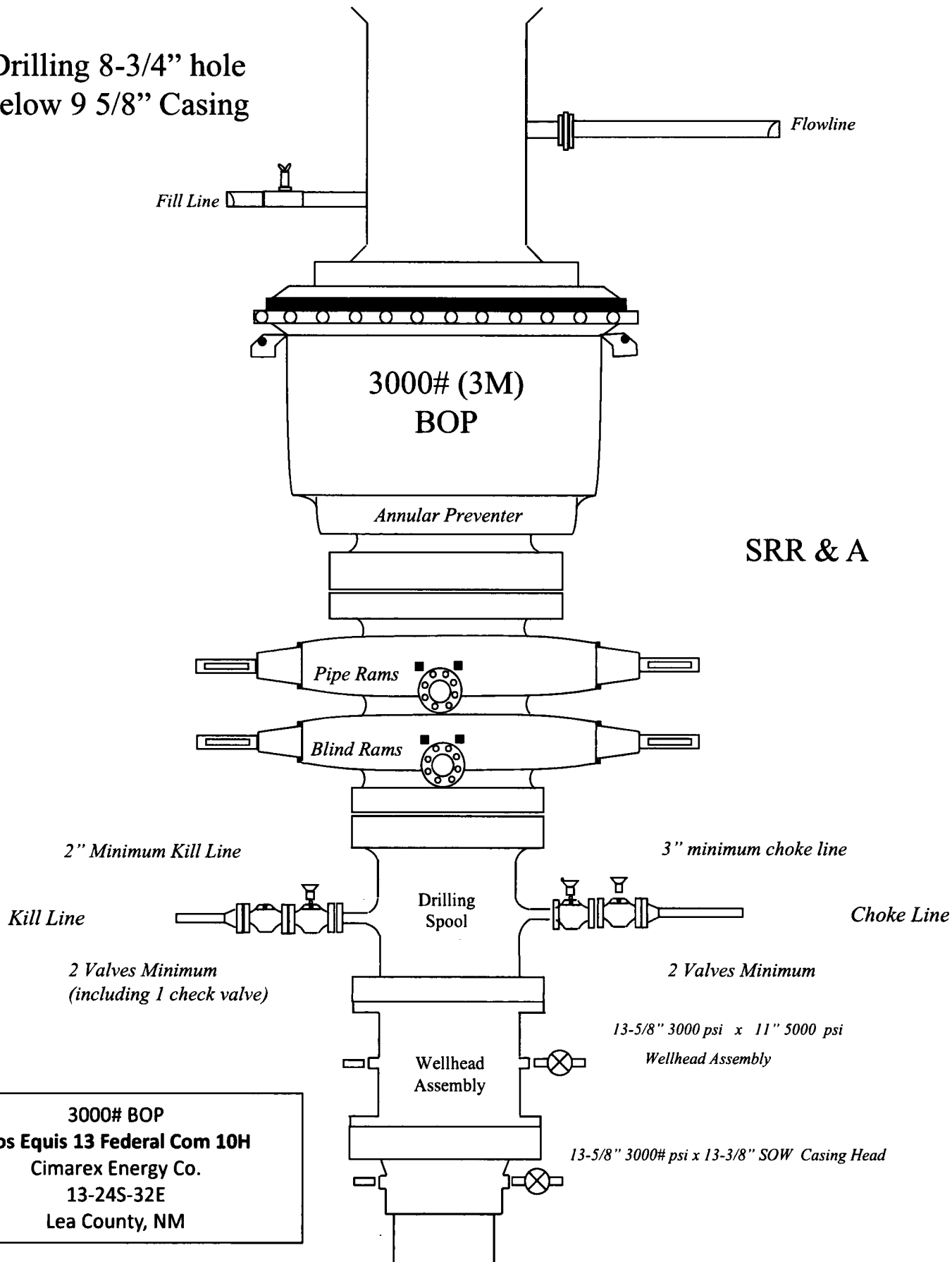


SRR & A

3000# BOP
Dos Equis 13 Federal Com 10H
Cimarex Energy Co.
13-24S-32E
Lea County, NM

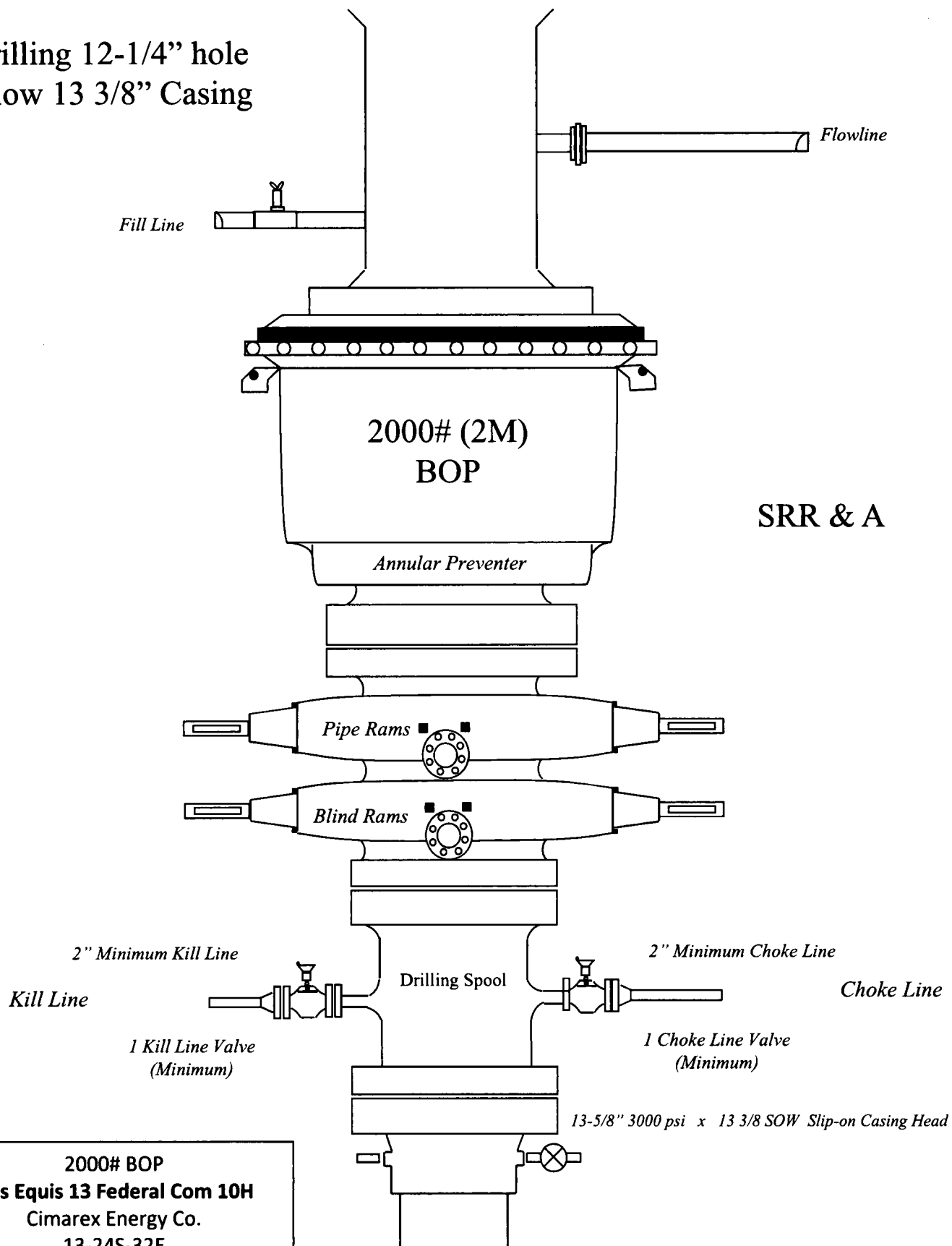


Drilling 8-3/4" hole
below 9 5/8" Casing



3000# BOP
Dos Equis 13 Federal Com 10H
Cimarex Energy Co.
13-24S-32E
Lea County, NM

Drilling 12-1/4" hole
below 13 3/8" Casing



2000# BOP
Dos Equis 13 Federal Com 10H
Cimarex Energy Co.
13-24S-32E
Lea County, NM

[Print](#)

Dos Equis 13 Federal Com 10H Surface Casing Spec Sheet

OCTG Performance Data

Casing Performance

Availability: ERW

Pipe Body Geometry

Outside Diameter:	13.375 in	Inside Diameter:	12.715 in
Wall Thickness:	0.330 in	Cross Section Area:	13.524 sq in
Nominal Weight:	48.00 lb/ft	Drift Diameter:	12.559 in
Plain End Weight:	46.02 lb/ft	Alternate Drift Diameter:	-

Pipe Body Performance

Grade:	H40	Collapse Strength (ERW):	740 psi
Pipe Body Yield Strength:	541000 lbf	Collapse Strength (SMLS):	-

SC Connection

Connection Geometry

	Optimum	Minimum	Maximum
Make Up Torque:	3220 lb·ft	2420 lb·ft	4030 lb·ft
Coupling Outside Diameter:	14.375 in		

Connection Performance

Grade:	H40	Minimum Internal Yield Pressure:	1730 psi
Joint Strength:	322000 lbf		

LC Connection

Connection Geometry

	Optimum	Minimum	Maximum
Make Up Torque:	-	-	-
Coupling Outside Diameter:	14.375 in		

Connection Performance

Grade:	H40	Minimum Internal Yield Pressure:	-
Joint Strength:	-		

BC Connection

Connection Geometry

	Optimum	Minimum	Maximum
Make Up Torque:	-	-	-
Coupling Outside Diameter:	14.375 in		

Connection Performance

Grade:	H40	Minimum Internal Yield Pressure:	-
Joint Strength:	-		

PE Connection

Connection Geometry

	Optimum	Minimum	Maximum
Make Up Torque:	-	-	-
Coupling Outside Diameter:	14.375 in		

Connection Performance

Grade:	H40	Minimum Internal Yield Pressure:	1730 psi
Joint Strength:	-		

Dos Equis 13 Federal Com #10H

Casing Assumptions

2. Casing Program

Hole Size	Casing Depth From	Casing Depth To	Casing Size	Weight (lb/ft)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
17 1/2	0	1235	13-3/8"	48.00	H-40/J-55 Hybrid	ST&C	1.31	3.06	5.43
12 1/4	0	4900	9-5/8"	40.00	J-55	LT&C	1.32	1.52	2.65
8 3/4	0	10592	5-1/2"	17.00	L-80	LT&C	1.27	1.56	1.80
8 3/4	10592	15473	5-1/2"	17.00	L-80	BT&C	1.22	1.50	53.32
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet

TVD was used on all calculations.

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.8.1.h

Dos Equis 13 Federal Com #10H

Casing Assumptions

2. Casing Program

Hole Size	Casing Depth From	Casing Depth To	Casing Size	Weight (lb/ft)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
17 1/2	0	1235	13-3/8"	48.00	H-40/J-55 Hybrid	ST&C	1.31	3.06	5.43
12 1/4	0	4900	9-5/8"	40.00	J-55	LT&C	1.32	1.52	2.65
8 3/4	0	10592	5-1/2"	17.00	L-80	LT&C	1.27	1.56	1.80
8 3/4	10592	15473	5-1/2"	17.00	L-80	BT&C	1.22	1.50	53.32
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet

TVD was used on all calculations.

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

Dos Equis 13 Federal Com #10H

Casing Assumptions

2. Casing Program

Hole Size	Casing Depth From	Casing Depth To	Casing Size	Weight (lb/ft)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
17 1/2	0	1235	13-3/8"	48.00	H-40/J-55 Hybrid	ST&C	1.31	3.06	5.43
12 1/4	0	4900	9-5/8"	40.00	J-55	LT&C	1.32	1.52	2.65
8 3/4	0	10592	5-1/2"	17.00	L-80	LT&C	1.27	1.56	1.80
8 3/4	10592	15473	5-1/2"	17.00	L-80	BT&C	1.22	1.50	53.32
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet

TVD was used on all calculations.

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

Dos Equis 13 Federal Com #10H

Casing Assumptions

2. Casing Program

Hole Size	Casing Depth From	Casing Depth To	Casing Size	Weight (lb/ft)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
17 1/2	0	1235	13-3/8"	48.00	H-40/J-55 Hybrid	ST&C	1.31	3.06	5.43
12 1/4	0	4900	9-5/8"	40.00	J-55	LT&C	1.32	1.52	2.65
8 3/4	0	10592	5-1/2"	17.00	L-80	LT&C	1.27	1.56	1.80
8 3/4	10592	15473	5-1/2"	17.00	L-80	BT&C	1.22	1.50	53.32
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet

TVD was used on all calculations.

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 IILB.1.h

Comments	MD	Incl	Azlm Grd	TJD	VSEC	NS	EW	DLS	Northng	Eastng	Latitude	Longitude
	2100.00	6.91	261.34	2097.31	7.45	-7.75	-50.84	0.00	446014.84	757989.22	N 32 13 27.23 W	103 37 57.82
	2200.00	6.91	261.34	2196.59	9.20	-9.56	-62.73	0.00	446013.03	757977.33	N 32 13 27.21 W	103 37 57.96
	2300.00	6.91	261.34	2295.86	10.94	-11.37	-74.62	0.00	446011.22	757965.44	N 32 13 27.19 W	103 37 58.09
	2400.00	6.91	261.34	2395.14	12.68	-13.18	-86.52	0.00	446009.41	757953.55	N 32 13 27.17 W	103 37 58.23
	2500.00	6.91	261.34	2494.41	14.43	-14.99	-98.41	0.00	446007.60	757941.65	N 32 13 27.14 W	103 37 58.37
	2600.00	6.91	261.34	2593.68	16.17	-16.81	-110.30	0.00	446005.78	757929.76	N 32 13 27.11 W	103 37 58.51
	2700.00	6.91	261.34	2692.96	17.91	-18.62	-122.19	0.00	446003.97	757917.87	N 32 13 27.12 W	103 37 58.65
	2800.00	6.91	261.34	2792.23	19.66	-20.43	-134.09	0.00	446002.16	757905.98	N 32 13 27.11 W	103 37 58.79
	2900.00	6.91	261.34	2891.50	21.40	-22.24	-145.98	0.00	446000.35	757894.09	N 32 13 27.09 W	103 37 58.93
	3000.00	6.91	261.34	2990.78	23.14	-24.05	-157.87	0.00	445998.54	757882.19	N 32 13 27.07 W	103 37 59.06
	3100.00	6.91	261.34	3090.05	24.89	-25.87	-169.77	0.00	445996.73	757870.30	N 32 13 27.05 W	103 37 59.20
	3200.00	6.91	261.34	3189.33	26.63	-27.68	-181.66	0.00	445994.91	757858.41	N 32 13 27.04 W	103 37 59.34
	3300.00	6.91	261.34	3288.60	28.37	-29.49	-193.55	0.00	445993.10	757846.52	N 32 13 27.02 W	103 37 59.48
	3400.00	6.91	261.34	3387.87	30.12	-31.30	-205.44	0.00	445991.29	757834.62	N 32 13 27.00 W	103 37 59.62
	3500.00	6.91	261.34	3487.15	31.86	-33.11	-217.34	0.00	445989.48	757822.73	N 32 13 26.99 W	103 37 59.76
	3600.00	6.91	261.34	3586.42	33.60	-34.93	-229.23	0.00	445987.67	757810.84	N 32 13 26.97 W	103 37 59.90
	3700.00	6.91	261.34	3685.70	35.35	-36.74	-241.12	0.00	445985.85	757798.95	N 32 13 26.95 W	103 38 0.03
	3800.00	6.91	261.34	3784.97	37.09	-38.55	-253.01	0.00	445984.04	757787.06	N 32 13 26.93 W	103 38 0.17
	3900.00	6.91	261.34	3884.24	38.84	-40.36	-264.91	0.00	445982.23	757775.16	N 32 13 26.92 W	103 38 0.31
	4000.00	6.91	261.34	3983.52	40.58	-42.17	-276.80	0.00	445980.42	757763.27	N 32 13 26.90 W	103 38 0.45
	4100.00	6.91	261.34	4082.79	42.32	-43.98	-288.69	0.00	445978.61	757751.38	N 32 13 26.88 W	103 38 0.59
	4200.00	6.91	261.34	4182.06	44.07	-45.80	-300.59	0.00	445976.79	757739.49	N 32 13 26.87 W	103 38 0.73
	4300.00	6.91	261.34	4281.34	45.81	-47.61	-312.48	0.00	445974.98	757727.59	N 32 13 26.85 W	103 38 0.87
	4400.00	6.91	261.34	4380.61	47.55	-49.42	-324.37	0.00	445973.17	757715.70	N 32 13 26.83 W	103 38 1.00
	4500.00	6.91	261.34	4479.89	49.30	-51.23	-336.26	0.00	445971.36	757703.81	N 32 13 26.81 W	103 38 1.14
	4600.00	6.91	261.34	4579.16	51.04	-53.05	-348.16	0.00	445969.55	757691.92	N 32 13 26.80 W	103 38 1.28
	4700.00	6.91	261.34	4678.43	52.78	-54.86	-360.05	0.00	445967.73	757680.03	N 32 13 26.78 W	103 38 1.42
	4800.00	6.91	261.34	4777.71	54.53	-56.67	-371.94	0.00	445965.92	757668.13	N 32 13 26.76 W	103 38 1.56
	4900.00	6.91	261.34	4876.98	56.27	-58.48	-383.83	0.00	445964.11	757656.24	N 32 13 26.75 W	103 38 1.70
	5000.00	6.91	261.34	4976.25	58.01	-60.29	-395.73	0.00	445962.30	757644.35	N 32 13 26.73 W	103 38 1.84
	5100.00	6.91	261.34	5075.53	59.76	-62.11	-407.62	0.00	445960.49	757632.46	N 32 13 26.71 W	103 38 1.97
	5200.00	6.91	261.34	5174.80	61.50	-63.92	-419.51	0.00	445958.68	757620.56	N 32 13 26.69 W	103 38 2.11
	5300.00	6.91	261.34	5274.08	63.24	-65.73	-431.41	0.00	445956.86	757608.67	N 32 13 26.68 W	103 38 2.25
	5400.00	6.91	261.34	5373.35	64.98	-67.54	-443.30	0.00	445955.05	757596.78	N 32 13 26.66 W	103 38 2.39
	5500.00	6.91	261.34	5472.62	66.73	-69.35	-455.19	0.00	445953.24	757584.89	N 32 13 26.64 W	103 38 2.53
	5600.00	6.91	261.34	5571.90	68.47	-71.17	-467.08	0.00	445951.43	757573.00	N 32 13 26.63 W	103 38 2.67
	5700.00	6.91	261.34	5671.17	70.22	-72.98	-478.98	0.00	445949.62	757561.10	N 32 13 26.61 W	103 38 2.81
	5800.00	6.91	261.34	5770.44	71.96	-74.79	-490.87	0.00	445947.80	757549.21	N 32 13 26.59 W	103 38 2.94
	5900.00	6.91	261.34	5869.72	73.70	-76.60	-502.76	0.00	445945.99	757537.32	N 32 13 26.57 W	103 38 3.08
	6000.00	6.91	261.34	5968.99	75.45	-78.41	-514.65	0.00	445944.18	757525.43	N 32 13 26.56 W	103 38 3.22
	6100.00	6.91	261.34	6068.27	77.19	-80.23	-526.55	0.00	445942.37	757513.53	N 32 13 26.54 W	103 38 3.36
	6200.00	6.91	261.34	6167.54	78.93	-82.04	-538.44	0.00	445940.56	757501.64	N 32 13 26.52 W	103 38 3.50
	6300.00	6.91	261.34	6266.81	80.68	-83.85	-550.33	0.00	445938.74	757489.75	N 32 13 26.51 W	103 38 3.64
	6400.00	6.91	261.34	6366.09	82.42	-85.66	-562.22	0.00	445936.93	757477.86	N 32 13 26.49 W	103 38 3.78
	6500.00	6.91	261.34	6465.36	84.16	-87.47	-574.12	0.00	445935.12	757465.96	N 32 13 26.47 W	103 38 3.91
	6600.00	6.91	261.34	6564.63	85.91	-89.28	-586.01	0.00	445933.31	757454.07	N 32 13 26.45 W	103 38 4.05
	6700.00	6.91	261.34	6663.91	87.65	-91.10	-597.90	0.00	445931.50	757442.18	N 32 13 26.44 W	103 38 4.19
	6800.00	6.91	261.34	6763.18	89.40	-92.91	-609.80	0.00	445929.68	757430.29	N 32 13 26.42 W	103 38 4.33
	6900.00	6.91	261.34	6862.46	91.14	-94.72	-621.69	0.00	445927.87	757418.40	N 32 13 26.40 W	103 38 4.47
	7000.00	6.91	261.34	6961.73	92.88	-96.53	-633.58	0.00	445926.06	757406.50	N 32 13 26.39 W	103 38 4.61
	7100.00	6.91	261.34	7061.00	94.55	-98.23	-645.47	0.00	445924.25	757400.12	N 32 13 26.38 W	103 38 4.74
	7200.00	6.91	261.34	7160.74	96.71	-99.48	-657.36	0.00	445922.41	757387.19	N 32 13 26.36 W	103 38 4.88
	7300.00	6.91	261.34	7260.62	98.39	-100.18	-669.25	0.00	445920.56	757375.28	N 32 13 26.35 W	103 38 5.02
	7400.00	6.91	261.34	7360.50	100.00	-100.88	-681.14	0.00	445918.71	757363.37	N 32 13 26.34 W	103 38 5.16
	7500.00	6.91	261.34	7460.38	101.68	-101.58	-693.03	0.00	445916.86	757351.46	N 32 13 26.33 W	103 38 5.30
	7600.00	6.91	261.34	7560.26	103.36	-103.26	-704.92	0.00	445915.01	757339.55	N 32 13 26.32 W	103 38 5.44
	7700.00	6.91	261.34	7660.14	105.04	-104.94	-716.81	0.00	445913.16	757327.64	N 32 13 26.31 W	103 38 5.58
	7800.00	6.91	261.34	7760.02	106.72	-106.66	-728.70	0.00	445911.31	757315.73	N 32 13 26.30 W	103 38 5.72
	7900.00	6.91	261.34	7860.00	108.40	-108.38	-740.59	0.00	445909.46	757303.82	N 32 13 26.29 W	103 38 5.86
	8000.00	6.91	261.34	7960.00	110.08	-110.10	-752.48	0.00	445907.61	757291.91	N 32 13 26.28 W	103 38 6.00
	8100.00	6.91	261.34	8060.00	111.76	-111.82	-764.37	0.00	445905.76	757280.00	N 32 13 26.27 W	103 38 6.14
	8200.00	6.91	261.34	8160.00	113.44	-113.54	-776.26	0.00	445903.91	757268.09	N 32 13 26.26 W	103 38 6.28
	8300.00	6.91	261.34	8260.00	115.12	-115.26	-788.15	0.00	445902.06	757256.18	N 32 13 26.25 W	103 38 6.42
	8400.00	6.91	261.34	8360.00	116.80	-116.98	-800.04	0.00	445900.21	757244.27	N 32 13 26.24 W	103 38 6.56
	8500.00	6.91	261.34	8460.00	118.48	-118.66	-811.93	0.00	445898.36	757232.36	N 32 13 26.23 W	103 38 6.70
	8600.00	6.91	261.34	8560.00	120.16	-120.34	-823.82	0.00	445896.51	757220.45	N 32 13 26.22 W	103 38 6.84
	8700.00	6.91	261.34	8660.00	121.84	-122.02	-835.71	0.00	445894.66	757208.54	N 32 13 26.21 W	103 38 6.98
	8800.00	6.91	261.34	8760.00	123.52	-123.70	-847.60	0.00	445892.81	757196.63	N 32 13 26.20 W	103 38 7.12
	8900.00	6.91	261.34	8860.00	125.20	-125.38	-859.49	0.00	445890.96	757184.72	N 32 13 26.19 W	103 38 7.26
	9000.00	6.91	261.34	8960.00	126.88	-127.06	-871.38	0.00	445889.11	757172.81	N 32 13 26.18 W	103 38 7.40
	9100.00	6.91	261.34	9060.00	128.56	-128.74	-883.27	0.00	445887.26	757160.90	N 32 13 26.17 W	103 38 7.54
	9200.00	6.91	261.34	9160.00	130.24	-130.42	-895.16	0.00	445885.41	757149.00	N 32 13 26.16 W	103 38 7.68
	9300.00	6.91	261.34	9260.00	131.92	-132.10	-907.05	0.00	445883.56	757137.09	N 32 13 26.15 W	103 38 7.82
	9400.00	6.91	261.34	9360.00	133.60	-133.78	-918.94	0.00	445881.71	757125.18	N 32 13 26.14 W	103 38 7.96
	9500.00	6.91	261.34	9460.00	135.28	-135.46	-930.83	0.00	445879.86	757113.27	N 32 13 26.13 W	103 38 8.10
	9600.00	6.91	261.34	9560.00	136.96	-137.14	-942.72	0.00	445878.01	757101.36	N 32 13 26.12 W	103 38 8.24
	9700.00	6.91	261.34	9660.00	138.64	-138.82	-954.61	0.00	445876.16	757089.45	N 32 13 26.11 W	103 38 8.38
	9800.00	6.91	261.34	9760.00	140.32	-140.50	-966.50	0.00	445874.31	757077.54	N 32 13 26.10 W	103 38 8.52
	9900.00	6.91	2									

Comments	MD	Incl	Azlm Grd	TVD	VSEC	NS	EW	DLS	Northng	Eastng	Latitude	Longitude
	7400.00	0.00	261.34	7360.61	96.57	-100.37	-658.73	0.00	445922.23	757381.35	N 32 13 26.35 W 103 38 4.90	
	7500.00	0.00	261.34	7460.61	96.57	-100.37	-658.73	0.00	445922.23	757381.35	N 32 13 26.35 W 103 38 4.90	
	7600.00	0.00	261.34	7560.61	96.57	-100.37	-658.73	0.00	445922.23	757381.35	N 32 13 26.35 W 103 38 4.90	
	7700.00	0.00	261.34	7660.61	96.57	-100.37	-658.73	0.00	445922.23	757381.35	N 32 13 26.35 W 103 38 4.90	
	7800.00	0.00	261.34	7760.61	96.57	-100.37	-658.73	0.00	445922.23	757381.35	N 32 13 26.35 W 103 38 4.90	
	7900.00	0.00	261.34	7860.61	96.57	-100.37	-658.73	0.00	445922.23	757381.35	N 32 13 26.35 W 103 38 4.90	
	8000.00	0.00	261.34	7960.61	96.57	-100.37	-658.73	0.00	445922.23	757381.35	N 32 13 26.35 W 103 38 4.90	
	8100.00	0.00	261.34	8060.61	96.57	-100.37	-658.73	0.00	445922.23	757381.35	N 32 13 26.35 W 103 38 4.90	
	8200.00	0.00	261.34	8160.61	96.57	-100.37	-658.73	0.00	445922.23	757381.35	N 32 13 26.35 W 103 38 4.90	
	8300.00	0.00	261.34	8260.61	96.57	-100.37	-658.73	0.00	445922.23	757381.35	N 32 13 26.35 W 103 38 4.90	
	8400.00	0.00	261.34	8360.61	96.57	-100.37	-658.73	0.00	445922.23	757381.35	N 32 13 26.35 W 103 38 4.90	
	8500.00	0.00	261.34	8460.61	96.57	-100.37	-658.73	0.00	445922.23	757381.35	N 32 13 26.35 W 103 38 4.90	
	8600.00	0.00	261.34	8560.61	96.57	-100.37	-658.73	0.00	445922.23	757381.35	N 32 13 26.35 W 103 38 4.90	
	8700.00	0.00	261.34	8660.61	96.57	-100.37	-658.73	0.00	445922.23	757381.35	N 32 13 26.35 W 103 38 4.90	
	8800.00	0.00	261.34	8760.61	96.57	-100.37	-658.73	0.00	445922.23	757381.35	N 32 13 26.35 W 103 38 4.90	
	8900.00	0.00	261.34	8860.61	96.57	-100.37	-658.73	0.00	445922.23	757381.35	N 32 13 26.35 W 103 38 4.90	
Bone Spring	8954.39	0.00	261.34	8865.00	96.57	-100.37	-658.73	0.00	445922.23	757381.35	N 32 13 26.35 W 103 38 4.90	
	9000.00	0.00	261.34	8960.61	96.57	-100.37	-658.73	0.00	445922.23	757381.35	N 32 13 26.35 W 103 38 4.90	
	9100.00	0.00	261.34	9060.61	96.57	-100.37	-658.73	0.00	445922.23	757381.35	N 32 13 26.35 W 103 38 4.90	
	9200.00	0.00	261.34	9160.61	96.57	-100.37	-658.73	0.00	445922.23	757381.35	N 32 13 26.35 W 103 38 4.90	
	9300.00	0.00	261.34	9260.61	96.57	-100.37	-658.73	0.00	445922.23	757381.35	N 32 13 26.35 W 103 38 4.90	
	9400.00	0.00	261.34	9360.61	96.57	-100.37	-658.73	0.00	445922.23	757381.35	N 32 13 26.35 W 103 38 4.90	
	9500.00	0.00	261.34	9460.61	96.57	-100.37	-658.73	0.00	445922.23	757381.35	N 32 13 26.35 W 103 38 4.90	
	9600.00	0.00	261.34	9560.61	96.57	-100.37	-658.73	0.00	445922.23	757381.35	N 32 13 26.35 W 103 38 4.90	
	9700.00	0.00	261.34	9660.61	96.57	-100.37	-658.73	0.00	445922.23	757381.35	N 32 13 26.35 W 103 38 4.90	
	9800.00	0.00	261.34	9760.61	96.57	-100.37	-658.73	0.00	445922.23	757381.35	N 32 13 26.35 W 103 38 4.90	
	9900.00	0.00	261.34	9860.61	96.57	-100.37	-658.73	0.00	445922.23	757381.35	N 32 13 26.35 W 103 38 4.90	
1st Bone Spring	9949.39	0.00	261.34	9810.00	96.57	-100.37	-658.73	0.00	445922.23	757381.35	N 32 13 26.35 W 103 38 4.90	
	10000.00	0.00	261.34	9960.61	96.57	-100.37	-658.73	0.00	445922.23	757381.35	N 32 13 26.35 W 103 38 4.90	
	10100.00	0.00	261.34	10060.61	96.57	-100.37	-658.73	0.00	445922.23	757381.35	N 32 13 26.35 W 103 38 4.90	
	10200.00	0.00	261.34	10160.61	96.57	-100.37	-658.73	0.00	445922.23	757381.35	N 32 13 26.35 W 103 38 4.90	
	10300.00	0.00	261.34	10260.61	96.57	-100.37	-658.73	0.00	445922.23	757381.35	N 32 13 26.35 W 103 38 4.90	
	10400.00	0.00	261.34	10360.61	96.57	-100.37	-658.73	0.00	445922.23	757381.35	N 32 13 26.35 W 103 38 4.90	
KOP - Build	10500.00	0.00	261.34	10460.61	96.57	-100.37	-658.73	0.00	445922.23	757381.35	N 32 13 26.35 W 103 38 4.90	
	10591.92	0.00	261.34	10552.54	96.57	-100.37	-658.73	0.00	445922.23	757381.35	N 32 13 26.35 W 103 38 4.90	
	10600.00	0.97	179.67	10580.61	96.64	-100.43	-658.73	12.00	445922.16	757381.35	N 32 13 26.35 W 103 38 4.90	
2nd Bone	10674.80	8.95	179.67	10635.00	103.74	-107.54	-658.69	12.00	445915.05	757381.39	N 32 13 26.28 W 103 38 4.90	
Sand	10700.00	12.97	179.67	10659.69	108.75	-112.54	-658.66	12.00	445910.05	757381.42	N 32 13 26.23 W 103 38 4.90	
	10800.00	24.97	179.67	10754.09	141.20	-144.99	-658.48	12.00	445877.60	757381.61	N 32 13 25.91 W 103 38 4.90	
	10900.00	36.97	179.67	10859.68	192.56	-196.35	-658.18	12.00	445826.24	757381.91	N 32 13 25.40 W 103 38 4.90	
	11000.00	48.97	179.67	10912.71	260.60	-264.39	-657.79	12.00	445758.21	757382.30	N 32 13 24.73 W 103 38 4.90	
	11100.00	60.97	179.67	10970.01	342.33	-346.12	-657.32	12.00	445676.48	757382.77	N 32 13 23.92 W 103 38 4.90	
	11200.00	72.97	179.67	11009.06	434.19	-437.88	-656.79	12.00	445584.62	757383.30	N 32 13 23.01 W 103 38 4.90	
	11300.00	84.97	179.67	11028.16	532.17	-535.95	-656.22	12.00	445486.66	757383.86	N 32 13 22.04 W 103 38 4.90	
	11400.00	96.97	179.67	11030.00	632.11	-635.90	-655.98	0.00	445386.72	757384.44	N 32 13 21.02 W 103 38 4.90	
	11500.00	108.97	179.67	11030.00	732.11	-735.90	-655.07	0.00	445286.72	757385.01	N 32 13 20.06 W 103 38 4.90	
	11600.00	120.97	179.67	11030.00	832.11	-835.90	-654.50	0.00	445186.73	757385.59	N 32 13 19.07 W 103 38 4.90	
	11700.00	132.97	179.67	11030.00	932.11	-935.89	-653.92	0.00	445086.73	757386.16	N 32 13 18.08 W 103 38 4.90	
	11800.00	144.97	179.67	11030.00	1032.11	-1035.89	-653.35	0.00	444986.74	757386.74	N 32 13 17.09 W 103 38 4.90	
	11900.00	156.97	179.67	11030.00	1132.11	-1135.89	-652.77	0.00	444886.75	757387.32	N 32 13 16.10 W 103 38 4.90	
	12000.00	168.97	179.67	11030.00	1232.11	-1235.89	-652.19	0.00	444786.75	757387.89	N 32 13 15.11 W 103 38 4.90	
	12100.00	180.97	179.67	11030.00	1332.11	-1335.89	-651.62	0.00	444686.76	757388.47	N 32 13 14.12 W 103 38 4.90	
	12200.00	192.97	179.67	11030.00	1432.11	-1435.89	-651.04	0.00	444586.76	757389.04	N 32 13 13.13 W 103 38 4.90	
	12300.00	204.97	179.67	11030.00	1532.11	-1535.88	-650.47	0.00	444486.77	757389.62	N 32 13 12.14 W 103 38 4.90	
	12400.00	216.97	179.67	11030.00	1632.11	-1635.88	-649.89	0.00	444386.77	757390.20	N 32 13 11.15 W 103 38 4.90	

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	N
Is well within the designated 4 string boundary.	N
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3rd string cement tied back 500' into previous casing?	N
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	N
Is 2nd string set 100' to 600' below the base of salt?	N
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	N
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	N
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	N

3. Cementing Program

Casing	# Sks	Wt. lb/gal	Yld ft ³ /sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surface	599	13.50	1.72	9.15	15.5	Lead: Class C + Bentonite
	160	14.80	1.34	6.32	9.5	Tail: Class C + LCM
Intermediate	919	12.90	1.88	9.65	12	Lead: 35:65 (Poz:C) + Salt + Bentonite
	286	14.80	1.34	6.32	9.5	Tail: Class C + LCM
Production	509	10.30	3.64	22.18		Lead: Tuned Light + LCM
	1044	14.20	1.30	5.86	14:30	Tail: 50:50 (Poz:H) + Salt + Bentonite + Fluid Loss + Dispersant + SMS

Casing String	TOC	% Excess
Surface	0	45
Intermediate	0	51
Production	4700	18

4. Pressure Control Equipment

A variance is requested for the use of a diverter on the surface casing. See attached for schematic.					
BOP installed and tested before drilling which hole?	Size	Min Required WP	Type		Tested To
12 1/4	13 5/8	2M	Annular	X	50% of working pressure
			Blind Ram		2M
			Pipe Ram		
			Double Ram	X	
			Other		
8 3/4	13 5/8	3M	Annular	X	50% of working pressure
			Blind Ram		3M
			Pipe Ram		
			Double Ram	X	
			Other		

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

	Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.	
X	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.	
N	Are anchors required by manufacturer?	

5. Mud Program

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0' to 1235'	FW Spud Mud	8.30 - 8.80	30-32	N/C
1235' to 4900'	Brine Water	9.70 - 10.20	30-32	N/C
4900' to 15473'	FW/Cut Brine	8.50 - 9.00	30-32	N/C

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring
---------------------------------------------------------	-----------------------------

6. Logging and Testing Procedures

Logging, Coring and Testing	
X	Will run GR/CNL from TD to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
	No logs are planned based on well control or offset log information.
	Drill stem test?
	Coring?

Additional Logs Planned	Interval
-------------------------	----------

7. Drilling Conditions

Condition	
BH Pressure at deepest TVD	5162 psi
Abnormal Temperature	No

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

X	H2S is present
X	H2S plan is attached

8. Other Facets of Operation

9. Wellhead

A multi-bowl wellhead system will be utilized.

After running the 13-3/8" surface casing, a 13 5/8" BOP/BOPE system with a minimum working pressure of 3000 psi will be installed on the wellhead system and will be pressure tested to 250 psi low followed by a 3000 psi test. Annular will be tested to 50% of working pressure. The pressure test will be repeated at least every 30 days, as per Onshore Order No. 2.

The multi-bowl wellhead will be installed by vendor's representative. A copy of the installation instructions has been sent to the BLM field office.

The wellhead will be installed by a third-party welder while being monitored by the wellhead vendor representative.

All BOP equipment will be tested utilizing a conventional test plug. Not a cup or J-packer type.

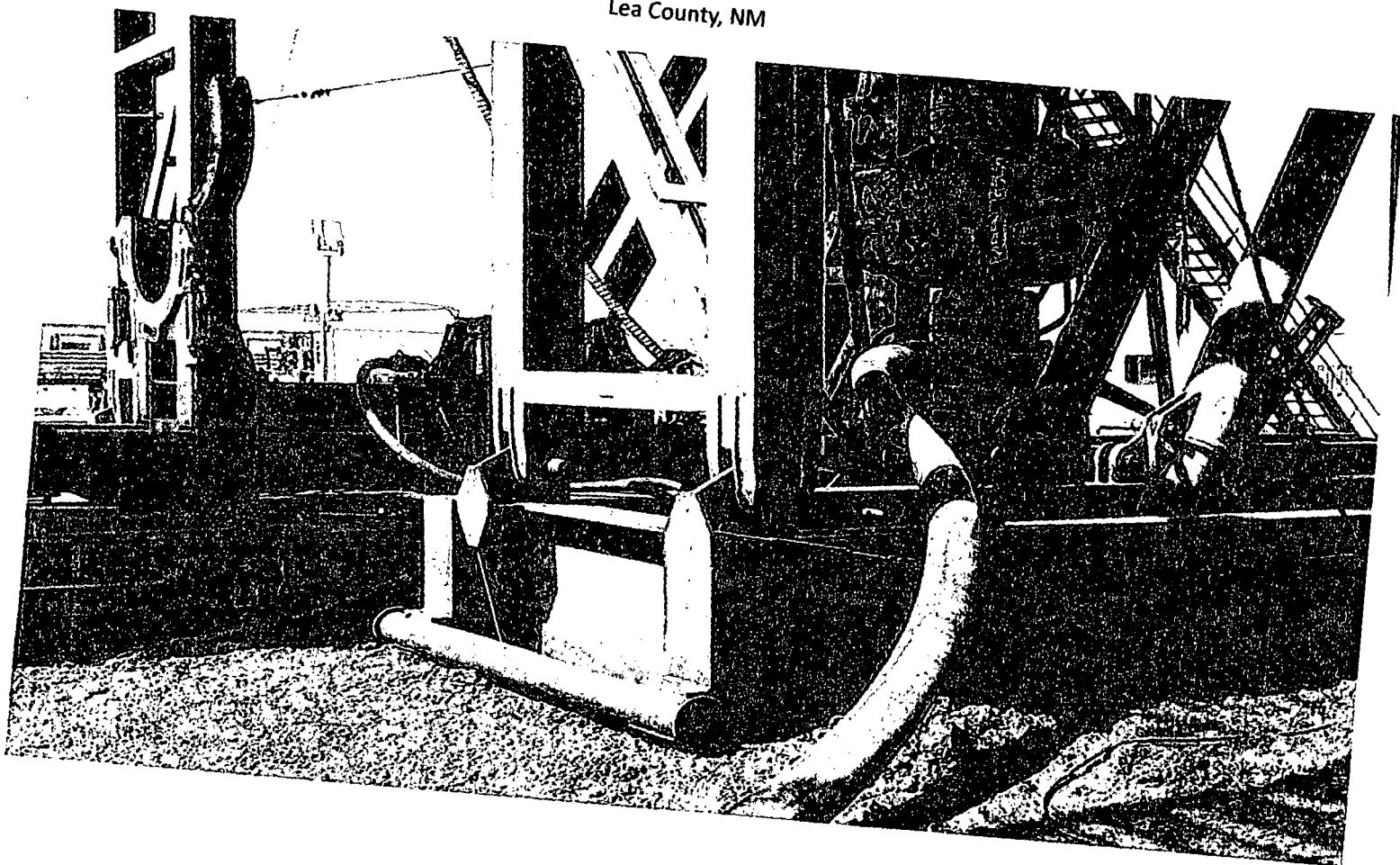
A solid steel body pack-off will be utilized after running and cementing the intermediate casing. After installation the pack-off and lower flange will be pressure tested to 3000 psi.

The surface casing string will be tested as per Onshore Order No. 2 to at least 0.22 psi/ft or 1500 psi, whichever is greater.

The casing string utilizing steel body pack-off will be tested to 70% of casing burst.

If well conditions dictate conventional slips will be set and BOPE will be tested to appropriate pressures based on permitted pressure requirements.

Co-Flex Hose
Dos Equis 13 Federal Com 10H
Cimarex Energy Co.
13-24S-32E
Lea County, NM



Co-Flex Hose Hydrostatic Test
Dos Equis 13 Federal Com 10H
Cimarex Energy Co.
13-24S-32E
Lea County, NM



Midwest Hose & Specialty, Inc.

INTERNAL HYDROSTATIC TEST REPORT

Customer: Oderco Inc.		P.O. Number: odyd-271
HOSE SPECIFICATIONS		
Type: Stainless Steel Armor Choke & Kill Hose		Hose Length: 45'ft.
I.D. 4 INCHES		O.D. 9 INCHES
WORKING PRESSURE 10,000 PSI	TEST PRESSURE 15,000 PSI	BURST PRESSURE 0 PSI
COUPLINGS		
Stem Part No. OKC OKC		Ferrule No. OKC OKC
Type of Coupling: Swage-It		
PROCEDURE		
<u>Hose assembly pressure tested with water at ambient temperature.</u>		
TIME HELD AT TEST PRESSURE 15 MIN.		ACTUAL BURST PRESSURE: 0 PSI
Hose Assembly Serial Number: 79793		Hose Serial Number: OKC
Comments:		
Date: 3/8/2011	Tested: <i>A. Jaime Sosa</i>	Approved: <i>[Signature]</i>



Co-Flex Hose
Dos Equis 13 Federal Com 10H
Cimarex Energy Co.
13-24S-32E
Lea County, NM

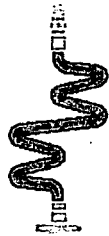
Specification Sheet Choke & Kill Hose

The Midwest Hose & Specialty Choke & Kill hose is manufactured with only premium components. The reinforcement cables, inner liner and cover are made of the highest quality material to handle the tough drilling applications of today's industry. The end connections are available with API flanges, API male threads, hubs, hammer unions or other special fittings upon request. Hose assembly is manufactured to API 7K. This assembly is wrapped with fire resistant vermiculite coated fiberglass insulation, rated at 2000 degrees with stainless steel armor cover.

Working Pressure:	5,000 or 10,000 psi working pressure
Test Pressure:	10,000 or 15,000 psi test pressure
Reinforcement:	Multiple steel cables
Cover:	Stainless Steel Armor
Inner Tube:	Petroleum resistant, Abrasion resistant
End Fitting:	API flanges, API male threads, threaded or butt weld hammer unions, unbolt and other special connections
Maximum Length:	110 Feet
ID:	2-1/2", 3", 3-1/2", 4"
Operating Temperature:	-22 deg F to +180 deg F (-30 deg C to +82 deg C)

March 3, 2011

Internal Hydrostatic Test Graph



Midwest Hose
& Specialty, Inc.

Customer: Houston

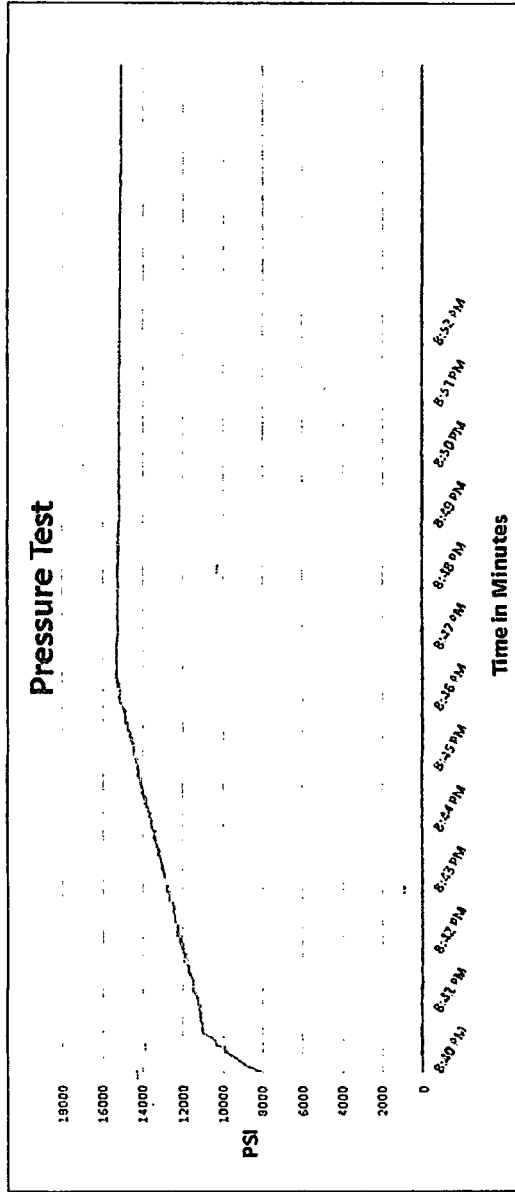
Pick Ticket #: 94260

Hose Specifications

Hose Type: C & K
I.D.: 4"
Working Pressure: 10000 PSI
Length: 45'
O.D.: 6.09"
Burst Pressure: Standard Safety Multiplier Applies

Verification

Type of Fitting: 41/1610K
Die Size: 6.38"
Hose Serial #: 5544
Coupling Method: Swage
Final O.D.: 6.25"
Hose Assembly Serial #: 79793



Test Pressure: 15000 PSI
Time Held at Test Pressure: 11 Minutes
Actual Burst Pressure: 15483 PSI
Peak Pressure: 15483 PSI

Comments: Hose assembly pressure tested with water at ambient temperature.

Tested By: Zac McConnell

Approved By: Kim Thomas

[Signature]

[Signature]

Co-Flex Hose
Dos Equis 13 Federal Com 10H
Cimarex Energy Co.
13-24S-32E
Lea County, NM

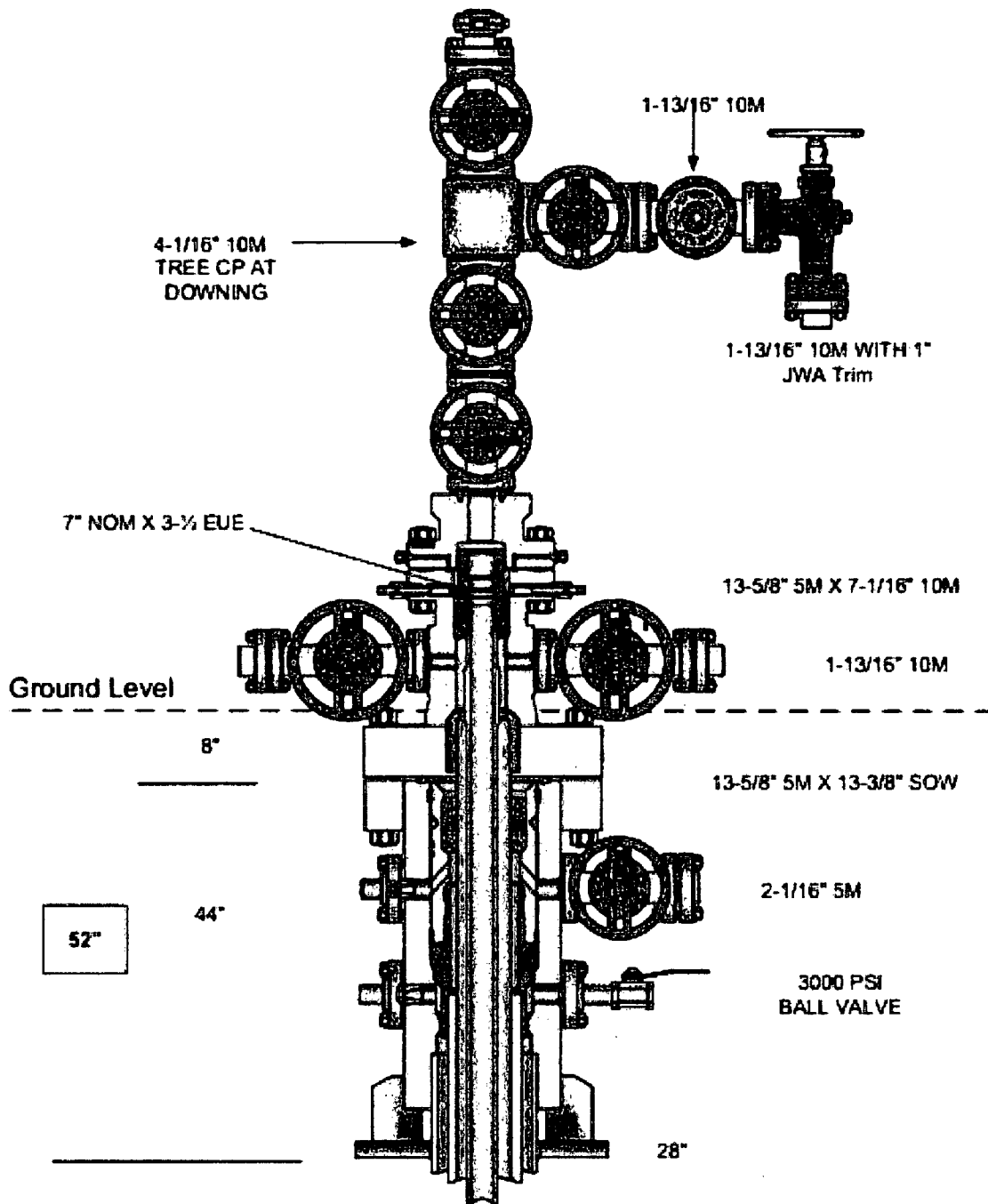


Midwest Hose & Specialty, Inc.

Certificate of Conformity

Customer:		PO
DEM		ODYD-271
SPECIFICATIONS		
Sales Order	Dated:	
79793	3/8/2011	
 <p>We hereby certify that the material supplied for the referenced purchase order to be true according to the requirements of the purchase order and current industry standards</p> <p>Supplier: Midwest Hose & Specialty, Inc. 10640 Tanner Road Houston, Texas 77041</p>		
Comments:		
Approved:		Date:
<i>James Garcia</i>		3/8/2011

Multi-bowl Wellhead Diagram



Multi-bowl Wellhead Diagram
Dos Equis 13 Federal Com 10H
Cimarex Energy Co.
13-24S-32E
Lea County, NM



U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

SUPO Data Report

11/26/2018

APD ID: 10400030517

Submission Date: 06/06/2018

Operator Name: CIMAREX ENERGY COMPANY

Well Name: DOS EQUIS 13 FEDERAL COM

Well Number: 10H

Well Type: CONVENTIONAL GAS WELL

Well Work Type: Drill

Highlight data
related to most
recent changes

[Show Final Text](#)

Section 1 - Existing Roads

Will existing roads be used? NO

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

Dos_Equis_13_Fed_Com_Road_Route_20180605094214.pdf

New road type: COLLECTOR	
Length (ft): 9940	Width (ft): 30
Max Slope (%): 20	Max Grade (%): 0
Any COE permit(s) required? No	

ACOE Permit Number(s):

New road travel width: 10

New road access to other roads: The full slopes of any drainage channels or swales that are crossed will be maintained to original grade and compacted (as needed) so necessary to avoid erosion. Where steep or steep and the available width for full slopes will be compromised, erosion control or other measures may be necessary to control erosion. New dikes, dike wings or ditches may also be installed to control erosion as needed. All disturbed areas will be seeded with a mix appropriate for the situation as specified otherwise by the landowner.

New road access plan or profile prepared? No

New road access plan attachment:

Access road engineering design attachment:

Access road engineering design attachment:

Access road type: GRAVEL
Access road surface: ASPHALT

Operator Name: CIMAREX ENERGY COMPANY

Well Name: DOS EQUIS 13 FEDERAL COM

Well Number: 10H

Access surfacing type description:

Access surfacing type description

Offsite topsoil source description:

Offsite topsoil source description

Offsite topsoil source description

Access miscellaneous information:

Number of access turnouts:

Access turnout map:

Drainage Control

Drainage Control Structures (DCS) attachment

Drainage Control Structures (DCS) attachment

Drainage Control Structures (DCS) attachment

Road Drainage Control Structures (DCS) attachment:

Access Additional Attachments

Additional Attachment(s):

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

Dos_Equis_13_Fed_Com_Road_Route_20180605094214.pdf

Access type

Access type

ACOE Permit Number(s):

Access type

Operator Name: CIMAREX ENERGY COMPANY

Well Name: DOS EQUIS 13 FEDERAL COM

Well Number: 10H

New road access plan attachment:

Access road engineering design attachment:

Access surfacing type description:

Offsite topsoil source description:

Access miscellaneous information:

Number of access turnouts:

Access turnout map:

Drainage Control

Road Drainage Control Structures (DCS) attachment:

Access Additional Attachments

Additional Attachment(s):

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

Dos_Equis_13_Fed_Com_Road_Route_20180605094214.pdf

ACOE Permit Number(s):

Operator Name: CIMAREX ENERGY COMPANY

Well Name: DOS EQUIS 13 FEDERAL COM

Well Number: 10H

New road access plan or photo prepared?

New road access plan attachment:

Access road engineering design?

Access road engineering design attachment:

Access surfacing type:

Access topsoil source:

Access surfacing type description:

Access on-site topsoil source depth:

Offsite topsoil source description:

Offsite topsoil removal process:

Access other construction information:

Access miscellaneous information:

Number of access turnouts:

Access turnout map:

Drainage Control

New road drainage design?

Drainage Control comments:

Road Drainage Control Structures (DCS) description:

Road Drainage Control Structures (DCS) attachment:

Access Additional Attachments

Additional Attachment(s):

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

Dos_Equis_13_Fed_Com_N2N2_10H_Pad_Mile_Radius_Existing_Wells_20180605095055.pdf

Existing Wells description:

Section 4 - Location of Existing and/or Proposed Production Facilities

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description:

Production Facilities map:

Operator Name: CIMAREX ENERGY COMPANY

Well Name: DOS EQUIS 13 FEDERAL COM

Well Number: 10H

Dos_Equis_13_Fed_Com_N2N2_Existing_Battery_20180605095119.pdf

Section 5 - Location and Types of Water Supply

Water Source Table

Water source use type: INTERMEDIATE/PRODUCTION CASING,
SURFACE CASING

Water source type: MUNICIPAL

Describe type:

Source latitude:

Source longitude:

Source datum:

Water source permit type: WATER RIGHT,WATER RIGHT

Permit Number:

Source land ownership: STATE

Water source transport method:

PIPELINE,PIPELINE,TRUCKING,TRUCKING

Source transportation land ownership: STATE

Water source volume (barrels): 5000

Source volume (acre-feet): 0.6444655

Source volume (gal): 210000

Water source and transportation map:

Dos_Equis_13_Fed_Com_N2N2_10H_Pad_Drilling_Water_Routes_20180605095403.pdf

Water source comments: N/A

New water well? NO

New Water Well Info

Well latitude:

Well Longitude:

Well datum:

Well target aquifer:

Est. depth to top of aquifer(ft):

Est thickness of aquifer:

Aquifer comments:

Aquifer documentation:

Well depth (ft):

Well casing type:

Well casing outside diameter (in.):

Well casing inside diameter (in.):

New water well casing?

Used casing source:

Drilling method:

Drill material:

Grout material:

Grout depth:

Casing length (ft.):

Casing top depth (ft.):

Well Production type:

Completion Method:

Operator Name: CIMAREX ENERGY COMPANY

Well Name: DOS EQUIS 13 FEDERAL COM

Well Number: 10H

Water well additional information:

State appropriation permit:

Additional information attachment:

Section 6 - Construction Materials

Construction Materials description: The drilling and testing operations will be conducted on a watered and compacted native soil grade. Soft spots will be covered with scoria, free of large rocks (3" diameter). Upon completion as a commercial producer the location will be covered with scoria, free of large rocks (3" dia.) from an existing privately owned gravel pit.

Construction Materials source location attachment:

Section 7 - Methods for Handling Waste

Waste type: DRILLING

Waste content description: Drilling Fluids, drill cuttings, water and other waste produced from the well during drilling operations.

Amount of waste: 15000 barrels

Waste disposal frequency : Weekly

Safe containment description: n/a

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL

Disposal type description:

Disposal location description: Haul to R360 commercial Disposal

Waste type: GARBAGE

Waste content description: Garbage and trash produced during drilling and completion operations

Amount of waste: 32500 pounds

Waste disposal frequency : Weekly

Safe containment description: n/a

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL

Disposal type description:

Disposal location description: Windmill Spraying Service hauls trash to Lea County Landfill

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit?

Reserve pit length (ft.)

Reserve pit width (ft.)

Operator Name: CIMAREX ENERGY COMPANY

Well Name: DOS EQUIS 13 FEDERAL COM

Well Number: 10H

Reserve pit depth (ft.)

Reserve pit volume (cu. yd.)

Is at least 50% of the reserve pit in cut?

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? NO

Description of cuttings location

Cuttings area length (ft.)

Cuttings area width (ft.)

Cuttings area depth (ft.)

Cuttings area volume (cu. yd.)

Is at least 50% of the cuttings area in cut?

WCuttings area liner

Cuttings area liner specifications and installation description

Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: NO

Ancillary Facilities attachment:

Comments:

Section 9 - Well Site Layout

Well Site Layout Diagram:

Dos_Equis_13_Fed_Com_10H_Wellsite_Layout_20180605101039.pdf

Comments:

Operator Name: CIMAREX ENERGY COMPANY

Well Name: DOS EQUIS 13 FEDERAL COM

Well Number: 10H

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: DOS EQUIS 13 FEDERAL COM

Multiple Well Pad Number: N2N2 PAD

Recontouring attachment:

Dos_Equis_13_Fed_Com_N2N2_Pad_Interim_Reclaim_20180605103019.pdf

Drainage/Erosion control construction: To control and prevent potentially contaminated precipitation from leaving the pad site, a perimeter berm and settlement pond will be installed. Contaminated water will be removed from pond, stored in waste tanks, and disposed of at a state approved facility. Standing water or puddles will not be allowed. Drainage ditches would be established and maintained on the pad and along access roads to divert water away from operations. Natural drainage areas disturbed during construction would be re-contoured to near original condition prior to construction. Erosion Control Best Management Practices would be used where necessary and consist of seeding, fiber rolls, water bars, silt fences, and temporary diversion dikes. Areas disturbed during construction that are no longer needed for operations would be obliterated, re-contoured to near original condition prior to construction. Erosion Control Best Management Practices would be used where necessary and consist of seeding, fiber rolls, water bars, silt fences, and temporary diversion dikes. Areas disturbed during construction that are no longer needed for operations would be obliterated, re-contoured, and reclaimed to near original condition to re-establish natural drainage.

Drainage/Erosion control reclamation: All disturbed and re-contoured areas would be reseeded according to specifications. Approved seed mixtures would be certified weed free and consist of grasses, forbs, or shrubs similar to the surrounding area. Compacted soil areas may need to be obliterated and reclaimed to near natural conditions by re-contouring all slopes to facilitate and re-establish natural drainage.

Well pad proposed disturbance (acres): 4.11	Well pad interim reclamation (acres): 1.26	Well pad long term disturbance (acres): 2.85
Road proposed disturbance (acres): 1.4	Road interim reclamation (acres): 0	Road long term disturbance (acres): 1.4
Powerline proposed disturbance (acres): 1.71	Powerline interim reclamation (acres): 0	Powerline long term disturbance (acres): 1.71
Pipeline proposed disturbance (acres): 11.21	Pipeline interim reclamation (acres): 0	Pipeline long term disturbance (acres): 11.21
Other proposed disturbance (acres): 0	Other interim reclamation (acres): 0	Other long term disturbance (acres): 0
Total proposed disturbance: 18.43	Total interim reclamation: 1.26	Total long term disturbance: 17.17

Disturbance Comments: Flowline: 4016, Gas lift: 4016', Power: 2489', SWD: 13163', Road: 2032' Temp fresh water line: 32208'

Reconstruction method: After well plugging, all disturbed areas would be returned to the original contour or a contour that blends with the surrounding landform including roads unless the surface owner requests that they be left intact. In consultation with the surface owners it will be determined if any gravel or similar materials used to reinforce an area are to be removed, buried, or left in place during final reclamation. Salvaged topsoil, if any, would be re-spread evenly over the surfaces to be re-vegetated. As necessary, the soil surface would be prepared to provide a seedbed for re-establishment of desirable vegetation. Site preparation may include gouging, scarifying, dozer track-walking, mulching, or fertilizing. Reclamation, Re-vegetation, and Drainage: All disturbed and re-contoured areas would be reseeded using techniques outlined under Phase I and II of this plan or as specified by the land owner. Approved seed mixtures would be certified weed free and consist of grasses, forbs, or shrubs similar to the surrounding area. Compacted soil areas may need to be obliterated and reclaimed to near natural conditions by re-contouring all slopes to facilitate and re-establish natural drainage. **Topsoil redistribution:** Salvaged topsoil, if any, would be re-spread evenly over the surfaces to be re-vegetated.

Soil treatment: As necessary, the soil surface would be prepared to provide a seedbed for re-establishment of desirable vegetation. Site preparation may include gouging, scarifying, dozer track-walking, mulching or fertilizing.

Existing Vegetation at the well pad:

Existing Vegetation at the well pad attachment:

Operator Name: CIMAREX ENERGY COMPANY

Well Name: DOS EQUIS 13 FEDERAL COM

Well Number: 10H

Existing Vegetation Community at the road:

Existing Vegetation Community at the road attachment:

Existing Vegetation Community at the pipeline:

Existing Vegetation Community at the pipeline attachment:

Existing Vegetation Community at other disturbances:

Existing Vegetation Community at other disturbances attachment:

Non native seed used? NO

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? NO

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation? NO

Seed harvest description:

Seed harvest description attachment:

Seed Management

Seed Table

Seed type:

Seed source:

Seed name:

Source name:

Source address:

Source phone:

Seed cultivar:

Seed use location:

PLS pounds per acre:

Proposed seeding season:

Seed Summary

Total pounds/Acre:

Seed Type	Pounds/Acre
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Seed reclamation attachment:

Operator Name: CIMAREX ENERGY COMPANY

Well Name: DOS EQUIS 13 FEDERAL COM

Well Number: 10H

Operator Contact/Responsible Official Contact Info

First Name:

Last Name:

Phone:

Email:

Seedbed prep:

Seed BMP:

Seed method:

Existing invasive species? NO

Existing invasive species treatment description:

Existing invasive species treatment attachment:

Weed treatment plan description: N/A

Weed treatment plan attachment:

Monitoring plan description: N/A

Monitoring plan attachment:

Success standards: N/A

Pit closure description: N/A

Pit closure attachment:

Section 11 - Surface Ownership

Disturbance type: WELL PAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Operator Name: CIMAREX ENERGY COMPANY

Well Name: DOS EQUIS 13 FEDERAL COM

Well Number: 10H

Section 12 - Other Information

Right of Way needed? YES

Use APD as ROW? YES

ROW Type(s): 281001 ROW - ROADS, 285003 ROW – POWER TRANS, 288100 ROW – O&G Pipeline, 288101 ROW – O&G Facility Sites, 288103 ROW – Salt Water Disposal Pipeline/Facility, 288104 ROW – Salt Water Disposal Appl/Fac-FLPMA, 289001 ROW- O&G Well Pad, FLPMA (Powerline), Other

ROW Applications

SUPO Additional Information: The surface disturbance for the SWD, Road, Flow and Gas lift, & Power routes are the same for Dos Equis 13 Federal Com #9H

Use a previously conducted onsite? YES

Previous Onsite information: Onsite April 17, 2018 with BLM (Jeff Robertson) and Cimarex (Barry Hunt)

Other SUPO Attachment

Dos_Equis_13_Fed_Com_N2N2__10H_Pad__Public_Access_20180605150706.pdf

Dos_Equis_13_Fed_Com_N2N2__10H_Pad_Road_Description_20180605150733.pdf

Dos_Equis_13_Fed_Com_Power_Route_20180605150748.pdf

Dos_Equis_13_Fed_Com_SWD_Route_20180605150803.pdf

Dos_Equis_13_Fed_Com_Temp_Water_Route_20180605150820.pdf

Dos_Equis_13_Fed_Com_N2N2_Flow_Gas_Lift_Route_20180605151137.pdf

Dos_Equis_13_Fed_Com_10H_SUPO_20180606143222.pdf



U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

PWD Data Report

11/26/2018

Section 1 - General

Would you like to address long-term produced water disposal? NO

Section 2 - Lined Pits

Would you like to utilize Lined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit specifications:

Pit liner description:

Pit liner manufacturers information:

Precipitated solids disposal:

Describe precipitated solids disposal:

Precipitated solids disposal permit:

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule attachment:

Lined pit reclamation description:

Lined pit reclamation attachment:

Leak detection system description:

Leak detection system attachment:

Lined pit Monitor description:

Lined pit Monitor attachment:

Lined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information attachment:

Section 3 - Unlined Pits

Would you like to utilize Unlined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit specifications:

Precipitated solids disposal:

Describe precipitated solids disposal:

Precipitated solids disposal permit:

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule attachment:

Unlined pit reclamation description:

Unlined pit reclamation attachment:

Unlined pit Monitor description:

Unlined pit Monitor attachment:

Do you propose to put the produced water to beneficial use?

Beneficial use user confirmation:

Estimated depth of the shallowest aquifer (feet):

Does the produced water have an annual average Total Dissolved Solids (TDS) concentration equal to or less than that of the existing water to be protected?

TDS lab results:

Geologic and hydrologic evidence:

State authorization:

Unlined Produced Water Pit Estimated percolation:

Unlined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information attachment:

Section 4 - Injection

Would you like to utilize Injection PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

Injection well type:

Injection well number:

Injection well name:

Assigned injection well API number?

Injection well API number:

Injection well new surface disturbance (acres):

Minerals protection information:

Mineral protection attachment:

Underground Injection Control (UIC) Permit?

UIC Permit attachment:

Section 5 - Surface Discharge

Would you like to utilize Surface Discharge PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Surface discharge PWD discharge volume (bbl/day):

Surface Discharge NPDES Permit?

Surface Discharge NPDES Permit attachment:

Surface Discharge site facilities information:

Surface discharge site facilities map:

Section 6 - Other

Would you like to utilize Other PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Other PWD discharge volume (bbl/day):

Other PWD type description:

Other PWD type attachment:

Have other regulatory requirements been met?

Other regulatory requirements attachment:



**U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT**

Bond Info Data Report

11/26/2018

Bond Information

Federal/Indian APD: FED

BLM Bond number: NMB001188

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond attachment:

Reclamation bond number:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment:



U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Drilling Plan Data Report

11/26/2018

APD ID: 10400030517

Submission Date: 06/06/2018

Operator Name: CIMAREX ENERGY COMPANY

Well Name: DOS EQUIS 13 FEDERAL COM

Well Number: 10H

Well Type: CONVENTIONAL GAS WELL

Well Work Type: Drill



[Show Final Text](#)

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
1	RUSTLER	3622	1185	1185		USEABLE WATER	No
2	TOP SALT	2122	1500	1500		NONE	No
3	BASE OF SALT	-1028	4650	4650		NONE	No
4	DELAWARE SAND	-1298	4920	4920		NONE	No
5	BONE SPRING	-5193	8815	8815		NATURAL GAS,OIL	No
6	BONE SPRING 1ST	-6288	9910	9910		NATURAL GAS,OIL	No
7	BONE SPRING 2ND	-7013	10635	10635		NATURAL GAS,OIL	No
8	BONE SPRING 2ND	-7408	11030	11030		NATURAL GAS,OIL	No
9	BONE SPRING 3RD	-8213	11835	11835		NATURAL GAS,OIL	No
10	WOLFCAMP	-8623	12245	12245		NATURAL GAS,OIL	Yes

Section 2 - Blowout Prevention

Pressure Rating (PSI): 2M

Rating Depth: 1235

Equipment: A BOP consisting of three rams, including one blind ram and two pipe rams and one annular preventer. An accumulator that meets the requirements in Onshore Order #2 for the pressure rating of the BOP stack. A rotating head may be installed as needed. A Kelly clock will be installed and maintained in operable condition and a drill string safety valve in the open position will be available on the rig floor.

Requesting Variance? YES

Variance request: Co-flex line between the BOP and choke manifold. Certification for proposed co-flex hose is attached. The hose is not required by the manufacturer to be anchored. In the event the specific hose is not available, one of equal or higher rating will be used. Variance to include Hammer Union connections on lines downstream of the buffer tank only.

Testing Procedure: A multi-bowl wellhead system will be utilized. After running the 13-3/8" surface casing, a 13 5/8" BOP/BOPE system with a minimum working pressure of 3000 psi will be installed on the wellhead system and will be pressure tested to 250 psi low followed by a 3000 psi test. Annular will be tested to 50% of working pressure. The pressure test will be repeated at least every 30 days, as per Onshore Order No. 2. The multi-bowl wellhead will be installed by vendor's representative. A copy of the installation instructions has been sent to the BLM field office. The wellhead will be