

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

HOBBS OCD

FORM APPROVED
OMB No. 1004-0137
Expires October 31, 2014

FF

APPLICATION FOR PERMIT TO DRILL OR REENTER

JAN 03 2018

RECEIVED

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NMLC065607
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator MATADOR PRODUCTION COMPANY (228937)		7. If Unit or CA Agreement, Name and No.
3a. Address 5400 LBJ Freeway, Suite 1500 Dallas TX 7524		8. Lease Name and Well No. (320548) VERNA RAE FEDERAL COM 114H
3b. Phone No. (include area code) (972)371-5200		9. API Well No. 30-025-44340
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface LOT 1 / 229 FNL / 722 FEL / LAT 32.6086482 / LONG -103.592737 At proposed prod. zone SESE / 240 FSL / 660 FEL / LAT 32.595443 / LONG -103.5926486		10. Field and Pool, or Exploratory TEAS BONE SPRINGS EAST / TEAS BC
14. Distance in miles and direction from nearest town or post office* 19 miles		11. Sec., T. R. M. or Blk. and Survey or Area SEC 6 / T20S / R34E / NMP
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 229 feet	16. No. of acres in lease 722.39	12. County or Parish LEA
17. Spacing Unit dedicated to this well 160	13. State NM	
18. Distance from proposed location* to nearest well, drilling, completed, 2156 feet applied for, on this lease, ft.	19. Proposed Depth 9490 feet / 14001 feet	20. BLM/BIA Bond No. on file FED: NMB001079
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3624 feet	22. Approximate date work will start* 08/01/2017	23. Estimated duration 90 days

24. Attachments

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

- | | |
|--|---|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the BLM. |

25. Signature (Electronic Submission)	Name (Printed/Typed) Brian Wood / Ph: (505)466-8120	Date 05/31/2017
Title President		
Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) Bobby Ballard / Ph: (575)234-2235	Date 12/21/2017
Title Natural Resource Specialist		

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)

APPROVED WITH CONDITIONS
Approval Date: 12/21/2017

KB
01/09/18

Double Sided

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.

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 collects this information to allow 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 Collection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

(Continued on page 3)

(Form 3160-3, page 2)

Approval Date: 12/21/2017

Additional Operator Remarks

Location of Well

1. SHL: LOT 1 / 229 FNL / 722 FEL / TWSP: 20S / RANGE: 34E / SECTION: 6 / LAT: 32.6086482 / LONG: -103.592737 (TVD: 0 feet, MD: 0 feet)
PPP: SESE / 2640 FNL / 660 FEL / TWSP: 20S / RANGE: 34E / SECTION: 6 / LAT: 32.602052 / LONG: -103.5926 (TVD: 9490 feet, MD: 11620 feet)
PPP: NENE / 229 FNL / 590 FWL / TWSP: 20S / RANGE: 34E / SECTION: 6 / LAT: 32.6086482 / LONG: -103.592737 (TVD: 0 feet, MD: 0 feet)
BHL: SESE / 240 FSL / 660 FEL / TWSP: 20S / RANGE: 34E / SECTION: 6 / LAT: 32.595443 / LONG: -103.5926486 (TVD: 9490 feet, MD: 14001 feet)

BLM Point of Contact

Name: Sipra Dahal

Title: Legal Instruments Examiner

Phone: 5752345983

Email: sdahal@blm.gov

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.



APD ID: 10400014273

Submission Date: 05/31/2017

Highlighted data reflects the most recent changes

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: VERNA RAE FEDERAL COM

Well Number: 114H

[Show Final Text](#)

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - General

APD ID: 10400014273

Tie to previous NOS?

Submission Date: 05/31/2017

BLM Office: CARLSBAD

User: Brian Wood

Title: President

Federal/Indian APD: FED

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

Lease number: NMLC065607

Lease Acres: 722.39

Surface access agreement in place?

Allotted?

Reservation:

Agreement in place? NO

Federal or Indian agreement:

Agreement number:

Agreement name:

Keep application confidential? NO

Permitting Agent? YES

APD Operator: MATADOR PRODUCTION COMPANY

Operator letter of designation:

Operator Info

Operator Organization Name: MATADOR PRODUCTION COMPANY

Operator Address: 5400 LBJ Freeway, Suite 1500

Zip: 75240

Operator PO Box:

Operator City: Dallas

State: TX

Operator Phone: (972)371-5200

Operator Internet Address: amonroe@matadorresources.com

Section 2 - Well Information

Well in Master Development Plan? NO

Master Development Plan name:

Well in Master SUPO? NO

Master SUPO name:

Well in Master Drilling Plan? NO

Master Drilling Plan name:

Well Name: VERNA RAE FEDERAL COM

Well Number: 114H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: TEAS BONE SPRINGS EAST

Pool Name: TEAS BONE SPRING EAST

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

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: VERNA RAE FEDERAL COM

Well Number: 114H

Describe other minerals:

Is the proposed well in a Helium production area? N Use Existing Well Pad? NO New surface disturbance?

Type of Well Pad: MULTIPLE WELL

Multiple Well Pad Name:

Number: SLOT 4

Well Class: HORIZONTAL

VERNA RAE

Number of Legs: 1

Well Work Type: Drill

Well Type: OIL WELL

Describe Well Type:

Well sub-Type: INFILL

Describe sub-type:

Distance to town: 19 Miles

Distance to nearest well: 2156 FT

Distance to lease line: 229 FT

Reservoir well spacing assigned acres Measurement: 160 Acres

Well plat: VernaRae_114H_Plat_05-15-2017.pdf

VernaRae_114H_OGLEase_Plat_20170905092636.pdf

Well work start Date: 08/01/2017

Duration: 90 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD27

Vertical Datum: NGVD29

Survey number: 18329

	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	229	FNL	722	FEL	20S	34E	6	Lot 1	32.6086482	-103.592737	LEA	NEW MEXI CO	NEW MEXI CO	F	NMLCO 65607	3624	0	0
KOP Leg #1	280	FNL	650	FWL	20S	34E	6	Aliquot NENE	32.608547	-103.592743	LEA	NEW MEXI CO	NEW MEXI CO	F	NMLCO 65607	-5293	8917	8917
PPP Leg #1	229	FNL	590	FWL	20S	34E	6	Aliquot NENE	32.6086482	-103.592737	LEA	NEW MEXI CO	NEW MEXI CO	F	NMLCO 65607	3624	0	0

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: VERNA RAE FEDERAL COM

Well Number: 114H

	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
PPP Leg #1	264 0	FNL	660	FEL	20S	34E	6	Aliquot SESE 2	32.60205 -	103.5926	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 40406	- 586 6	116 20	949 0
EXIT Leg #1	240	FSL	660	FEL	20S	34E	6	Aliquot SESE 3	32.59544 -	103.5926 486	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 40406	- 586 6	140 01	949 0
BHL Leg #1	240	FSL	660	FEL	20S	34E	6	Aliquot SESE 3	32.59544 -	103.5926 486	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 40406	- 586 6	140 01	949 0



APD ID: 10400014273

Submission Date: 05/31/2017

Highlighted data reflects the most recent changes

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: VERNA RAE FEDERAL COM

Well Number: 114H

[Show Final Text](#)

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
1	---	3624	0	0	OTHER : Quaternary	USEABLE WATER	No
2	RUSTLER ANHYDRITE	2149	1475	1475	ANHYDRITE	OTHER : Anhydrite	No
3	TOP SALT	2019	1605	1605	SALT	OTHER : Salt	No
4	BASE OF SALT	504	3120	3120	SALT	OTHER : Salt	No
5	TANSILL	439	3185	3185	SANDSTONE	OTHER : Sandstone	No
6	YATES	284	3340	3340	GYPSUM	OTHER : Gypsum	No
7	SEVEN RIVERS	-126	3750	3750	DOLOMITE	NONE	No
8	QUEEN	-946	4570	4570	SANDSTONE	OTHER : Sandstone	No
9	CAPITAN REEF	-1126	4750	4750	OTHER : Carbonate	NONE	No
10	DELAWARE SAND	-1796	5420	5420	SANDSTONE	NATURAL GAS,CO2,OIL	No
11	BRUSHY CANYON	-2531	6155	6155	SANDSTONE	NATURAL GAS,CO2,OIL	No
12	BONE SPRING LIME	-4656	8280	8280		NATURAL GAS,CO2,OIL	No
13	BONE SPRING 1ST	-5381	9005	9008	OTHER : Carbonate	NATURAL GAS,CO2,OIL	No
14	BONE SPRING 1ST	-5766	9390	9477	SANDSTONE	NATURAL GAS,CO2,OIL	Yes

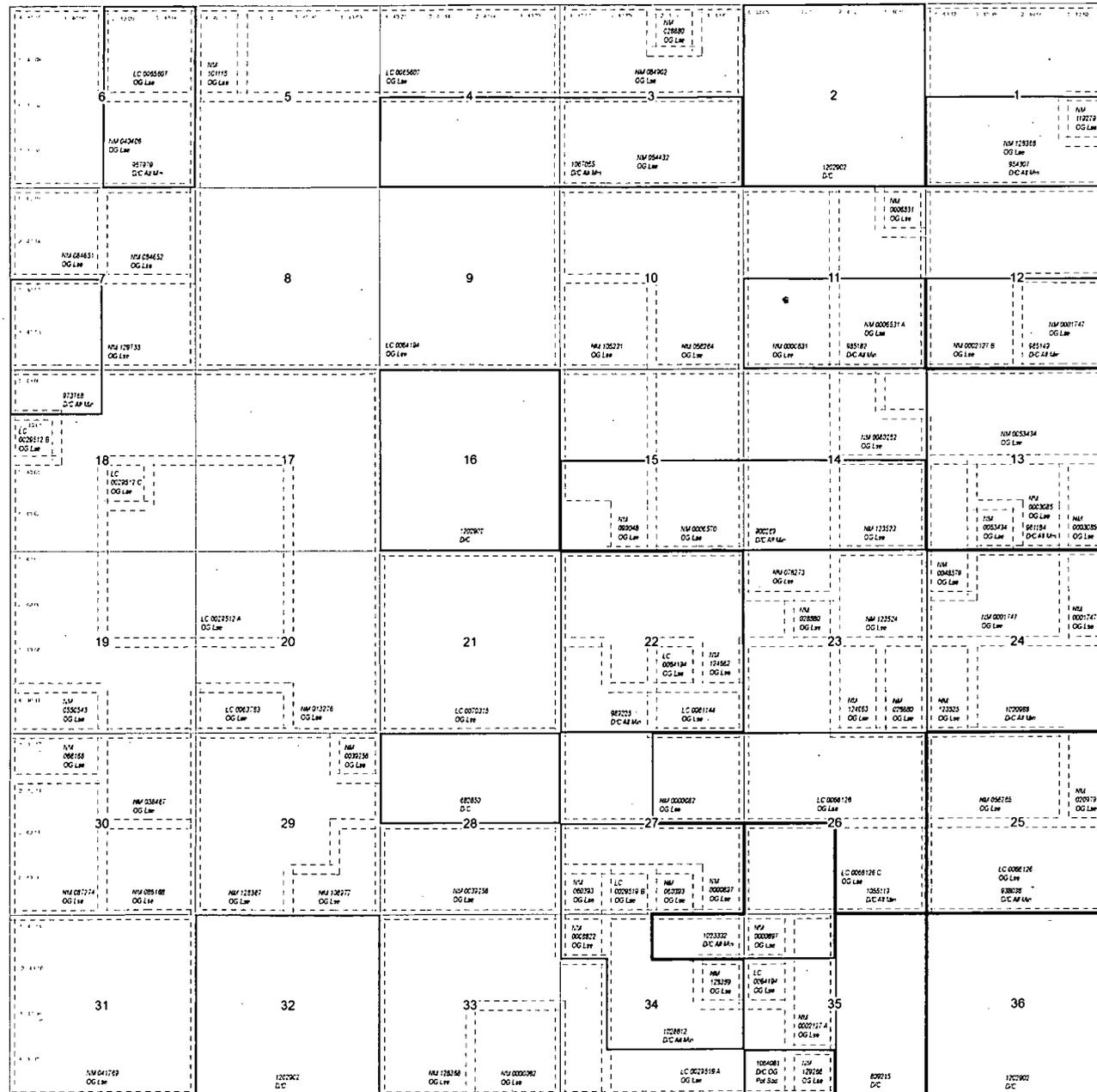
Section 2 - Blowout Prevention

Township 20 South Range 34 East of the New Mexico Principal Meridian, New Mexico

County: Lea - 025

BLM Field Office: Carlsbad

BUREAU OF LAND MANAGEMENT
STATUS OF PUBLIC DOMAIN
LAND AND MINERALS



OG Plat

T20S R34E

Entire Township included in:
EO W&P NM 1 Post Res 6 (3/11/1926)
Designated Post Area SO 10/7/1975 (Partial)
CI of Public Lands NM 0560202 (CI No 30-06-01)

UNITIZATION AGREEMENTS

Lea UA
NM 070976X
Teas Yates Sand UA
NM 071049X
Quail Ridge UA
NM 091041X

COMMUNITIZATION AGREEMENTS

NM 082107
NM 086489
NM 091026
NM 094488
NM 100722
NM 109692
NM 121888
NM 127606
NM 127960
NM 132395
NM 132812
NM 132988
NM 134225
NM 134272
NM 134520
NM 134674
NM 134709
NM 134768
NM 134773
NM 135022

NOTE: The Serial Numbers displayed are in the Bureau's LR2000 system format. If there is a zero in the 7th position (from the right), the serial number has a "pref" zero, example NM 0012345. If there is not a zero in the 7th position (from the right) then the serial number does not have a "pref" zero, example NM 012345.

0 0.25 0.5 1
Mile

1 inch = 30 chains

1 : 23,760

CAVEAT STATEMENT

This plat is the Bureau's Record of Title, and should be used only as a graphic display of the township survey data. Records hereon do not reflect title changes which may have been affected by lateral movements of rivers or other bodies of water. Refer to the cadastral surveys for official survey information.

T 20 S
R 34 E
NMPM

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: VERNA RAE FEDERAL COM

Well Number: 114H

Pressure Rating (PSI): 5M

Rating Depth: 10000

Equipment: An accumulator complying with Onshore Order 2 requirements for the BOP stack pressure rating will be present. Rotating head will be installed as needed.

Requesting Variance? YES

Variance request: Matador requests a variance to drill this well using a co-flex line between the BOP and choke manifold. Certification for proposed co-flex hose is attached. Manufacturer does not require the hose to be anchored. If the specific hose is not available, then one of equal or higher rating will be used.

Testing Procedure: A third party company will test the BOPs. Surface casing will be pressure tested to 250 psi low and 2000 psi high. Intermediate casing pressure tests will be made to 250 psi low and 3000 psi high. Annular preventer will be tested to 250 psi low and 2500 psi high on the surface casing and tested to 250 psi low and 2500 psi high on the intermediate casing. In the case of running a speed head with landing mandrel for 9.625" casing, initial surface casing test pressures will be 250 psi low and 3000 psi high, with wellhead seals tested to 5000 psi once the 9.625" casing has been landed and cemented. Matador is requesting a variance to use a speed head. Speed head diameter range is 13.375" x 9.625" x 5.5" x 2.875".

Choke Diagram Attachment:

VernaRae_114H_Choke_20171023100703.pdf

BOP Diagram Attachment:

VernaRae_114H_BOP_05-16-2017.pdf

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	20	13.375	NEW	API	N	0	1600	0	1600	-5866	-7466	1600	J-55	54.5	OTHER - BTC	1.125	1.125	DRY	1.8	DRY	1.8
2	INTERMEDIATE	12.25	9.625	NEW	API	N	0	5400	0	5400	-5866	-11266	5400	J-55	40	OTHER - BTC	1.125	1.125	DRY	1.8	DRY	1.8
3	PRODUCTION	8.75	5.5	NEW	API	N	0	14001	0	9490	-5866	-15356	14001	P-110	20	OTHER - DW/C	1.125	1.125	DRY	1.8	DRY	1.8

Casing Attachments

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: VERNA RAE FEDERAL COM

Well Number: 114H

Casing Attachments

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

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Casing_Assumption_Surface_05-16-2017.docx

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

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Casing_Assumption_Intermediate_05-16-2017.docx

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

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Casing_Assumption_Production_05-16-2017.docx

Section 4 - Cement

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: VERNA RAE FEDERAL COM

Well Number: 114H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	1600	1764	1.75	13.5	3087	100	Class C	3% NaCl + LCM
SURFACE	Tail		0	1600	559	1.38	14.8	771	100	Class C	5% NaCl + LCM
INTERMEDIATE	Lead		0	5400	1262	1.81	13.5	2284	100	Class C	Bentonite + 1% CaCl ₂ + 8% NaCl + LCM
INTERMEDIATE	Tail		0	5400	490	1.38	14.8	676	100	Class C	5% NaCl + LCM
PRODUCTION	Lead		0	1400 1	503	2.25	11.5	1131	35	TXI	Fluid Loss + Dispersant + Retarder + LCM
PRODUCTION	Tail		0	1400 1	1483	1.38	13.2	2046	35	TXI	Fluid Loss + Dispersant + Retarder + LCM

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: All necessary mud products (barite, bentonite, LCM) for weight addition and fluid loss control will be on location at all times.

Describe the mud monitoring system utilized: An electronic Pason mud monitoring system complying with Onshore Order 1 will be used. Mud program is subject to change due to hole conditions. A closed loop system will be used.

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	1600	SPUD MUD	8.4	8.4							
5400	1400 1	OTHER : Fresh water & cut brine	9	9							
1600	5400	SALT SATURATED	10	10							

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: VERNA RAE FEDERAL COM

Well Number: 114H

Section 6 - Test, Logging, Coring

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

A 2-person mud logging program will be used from 1600' to TD.

No electric logs are planned at this time. GR will be collected through the MWD tools from intermediate casing to TD. CBL with CCL will be run as far as gravity will let it fall to TOC.

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

CBL,GR,MWD,OTH

Other log type(s):

Casing collar locator

Coring operation description for the well:

No core or drill stem test is planned.

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 4725

Anticipated Surface Pressure: 2637.2

Anticipated Bottom Hole Temperature(F): 140

Anticipated abnormal pressures, temperatures, or potential geologic hazards? NO

Describe:

Contingency Plans geohazards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

VernaRae_114H_H2S_Plan_05-16-2017.pdf

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: VERNA RAE FEDERAL COM

Well Number: 114H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

VernaRae_114H_Horizontal_Drilling_Plan_05-16-2017.pdf

Other proposed operations facets description:

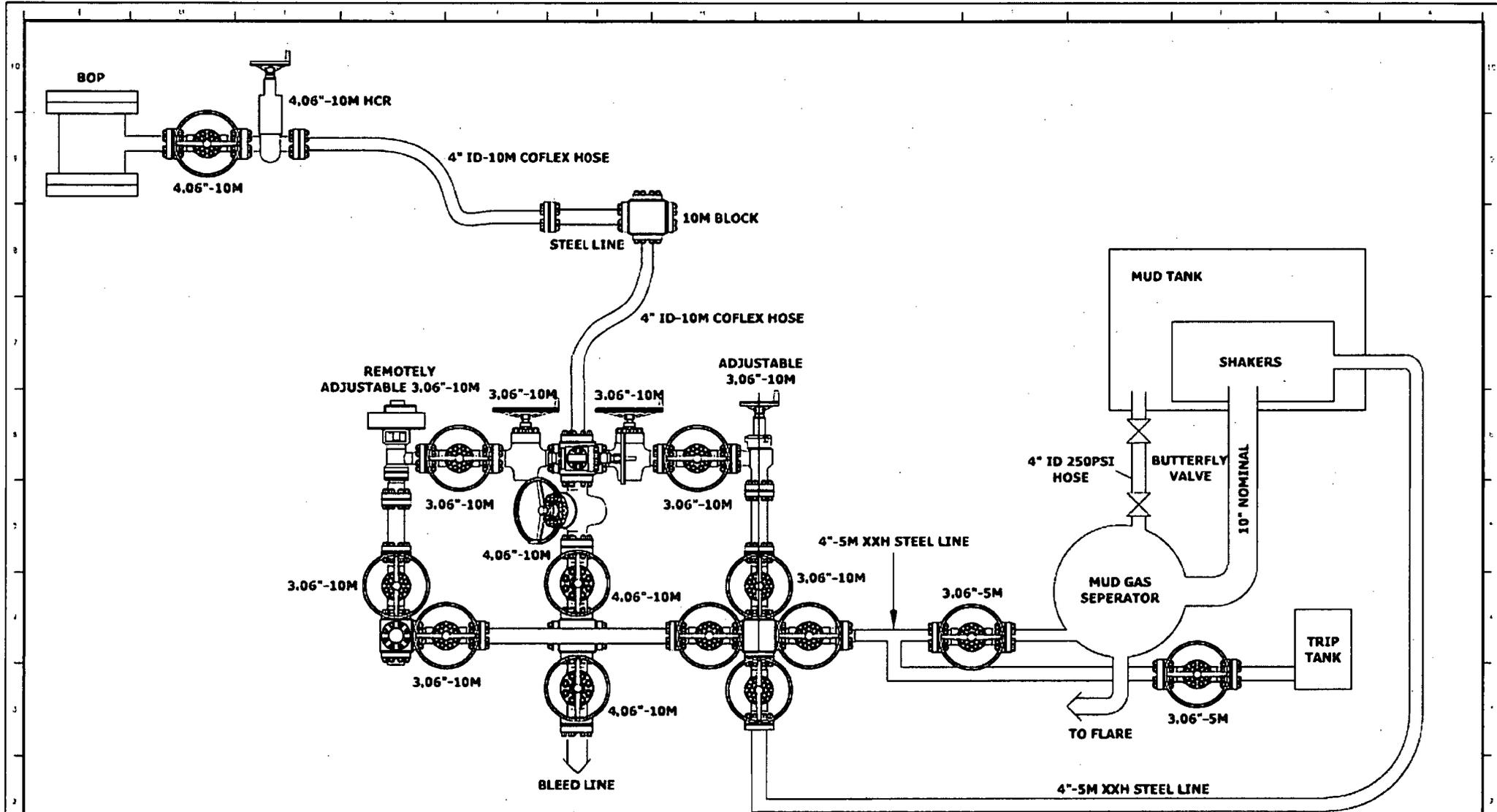
Other proposed operations facets attachment:

VernaRae_114H_General_Drill_Plan_05-18-2017.pdf

VernaRae_114H_Wellhead_Casing_Spec_20171023100857.pdf

Other Variance attachment:

VernaRae_114H_DV_Tool_Variance_Request_20171023101416.pdf



WELDING NOTE & TOLERANCES UNLESS OTHERWISE SPECIFIED.

GENERAL WELDING NOTES:
 ALL ACCESSIBLE CONTACT SURFACES SHALL BE JOINED WITH CONTINUOUS 45 DEGREE FILLET WELDS, WELD SIZE TO BE 1/8 INCH UNLESS OTHERWISE SPECIFIED.
 THINNER MEMBER JOINED TO THICKER MEMBER SHALL BE WELDED TO THINNER MEMBER UNLESS OTHERWISE SPECIFIED.
 WELDING SHALL BE TO API SPECIFICATION Q360.

MACHINING TOLERANCES:
 1. FRACTIONAL DECIMALS: ±0.001
 2. PLACE DECIMAL: ±0.01
 3. PLACE DECIMAL: ±0.015
 4. FRACTIONAL TOLERANCES: ±0.001
 5. HOLE MACHINED CONTIGUOUS: ±0.001
 6. CHAMFER: 45 DEGREE
 7. ANGLES: TOLERANCE: ±0.1 DEGREE
 8. MACHINED SURFACE FINISH: TO RWD
 9. ALL UNFINISHED SURFACES: TO RWD

REV	DATE	DESCRIPTION	CHKD BY	APP'D BY	ENCL.
02	6-1-15	ISSUED FOR INFORMATION	CP	CEL	
01	7-1-15	ISSUED FOR INFORMATION	CD		

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 DRILLING COMPANY LLC
 CONFIDENTIAL AND PROPRIETARY
 NOT TO BE DISTRIBUTED



CHOKES MANIFOLD
 10M CHOKES ARRANGEMENT
 RIG 297

DATE: R0297-D.001.LAY.09

1	01	02
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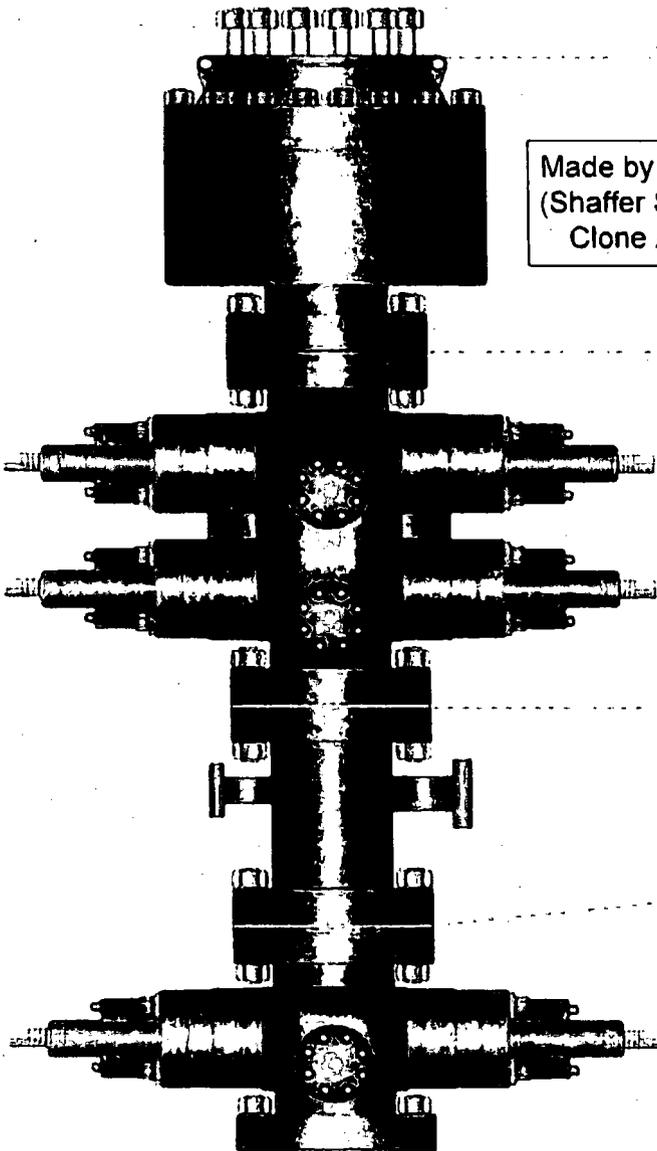


PATTERSON-UTI

Well Control

RIG:

809



Made by Cameron
(Shaffer Spherical)
Clone Annular

PATTERSON-UTI # PS2-628
STYLE: New Shaffer Spherical
BORE 13 5/8" PRESSURE 5,000
HEIGHT: 48 1/2" WEIGHT: 13,800 lbs

PATTERSON-UTI # PC2-128
STYLE: New Cameron Type U
BORE 13 5/8" PRESSURE 10,000
RAMS: TOP 5" Pipe BTM Blinds
HEIGHT: 66 5/8" WEIGHT: 24,000 lbs

Length 40" Outlets 4" 10M
DSA 4" 10M x 2" 10M

PATTERSON-UTI # PC2-228
STYLE: New Cameron Type U
BORE 13 5/8" PRESSURE 10,000
RAMS: 5" Pipe
HEIGHT: 41 5/8" WEIGHT: 13,000 lbs

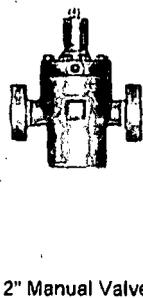
2" Minimum Kill Line

WING VALVES

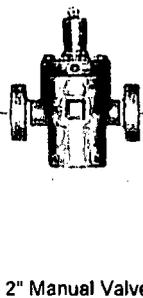
3" Minimum Choke Line



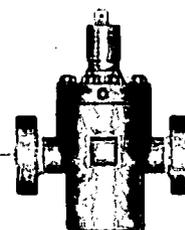
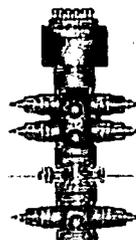
2" Check Valve



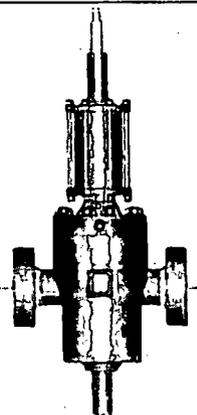
2" Manual Valve



2" Manual Valve



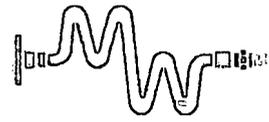
4" Manual Valve



4" Hydraulic Valve

R809

March 10, 2015



Midwest Hose
& Specialty, Inc.

Internal Hydrostatic Test Graph

Customer: Patterson B&E

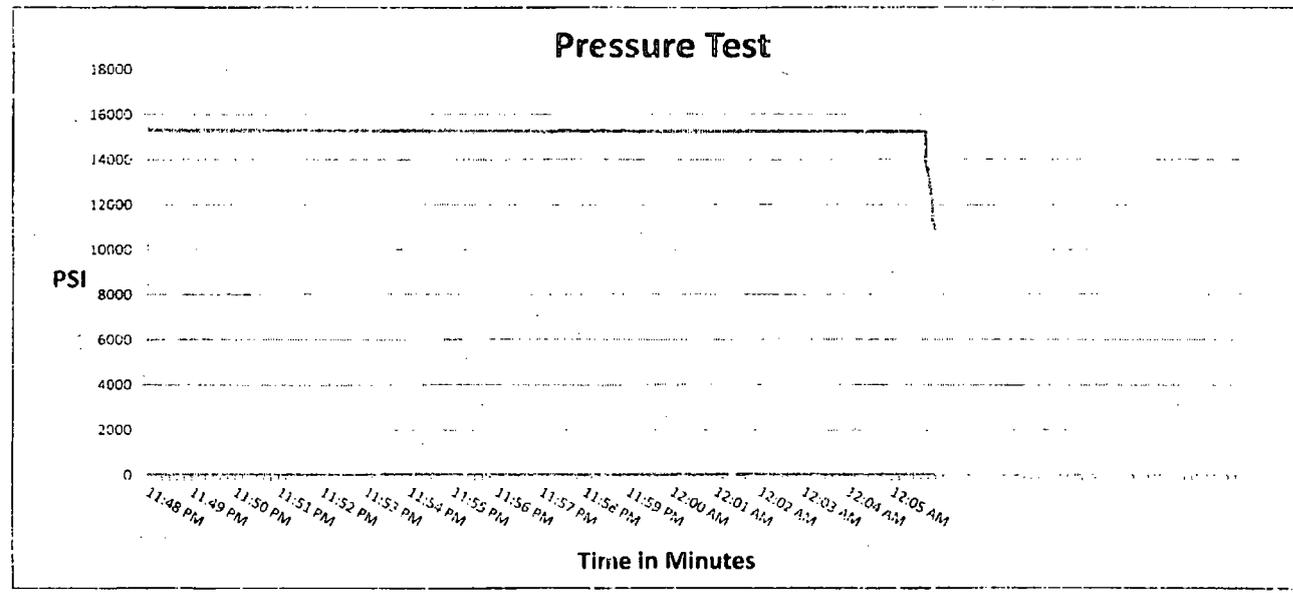
Pick Ticket #: 296283

Hose Specifications

<u>Hose Type</u>	<u>Length</u>
Mud	50'
<u>I.D.</u>	<u>O.D.</u>
2"	3.47"
<u>Working Pressure</u>	<u>Burst Pressure</u>
10000 PSI	Standard Safety Multiplier Applies

Verification

<u>Type of Fitting</u>	<u>Coupling Method</u>
2" 1502	Swage
<u>Die Size</u>	<u>Final O.D.</u>
97MM	4.03"
<u>Hose Serial #</u>	<u>Hose Assembly Serial #</u>
11839	296283



Test Pressure
15000 PSI

Time Held at Test Pressure
17 3/4 Minutes

Actual Burst Pressure

Peak Pressure
15361 PSI

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

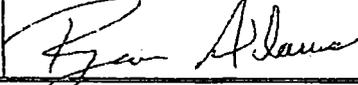
Tested By: Richard Davis

Approved By: Ryan Adams



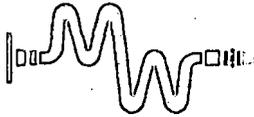
Midwest Hose
& Specialty, Inc.

Internal Hydrostatic Test Certificate

General Information		Hose Specifications	
Customer	PATTERSON B&E	Hose Assembly Type	Choke & Kill
MWH Sales Representative	AMY WHITE	Certification	API 7K/FSL Level 2
Date Assembled	3/10/2015	Hose Grade	MUD
Location Assembled	OKC	Hose Working Pressure	10000
Sales Order #	245805	Hose Lot # and Date Code	11839-11/14
Customer Purchase Order #	270590	Hose I.D. (Inches)	2"
Assembly Serial # (Pick Ticket #)	296283	Hose O.D. (Inches)	3.99"
Hose Assembly Length	50'	Armor (yes/no)	YES
Fittings			
End A		End B	
Stem (Part and Revision #)	R2.0X32M1502	Stem (Part and Revision #)	RF2.0 32F1502
Stem (Heat #)	14104546	Stem (Heat #)	A144853
Ferrule (Part and Revision #)	RF2.0 10K	Ferrule (Part and Revision #)	RF2.0 10K
Ferrule (Heat #)	41044	Ferrule (Heat #)	41044
Connection - Flange Hammer Union Part		Connection (Part #)	
Connection (Heat #)		Connection (Heat #)	
Nut (Part #)	2" 1502 H2S	Nut (Part #)	
Nut (Heat #)		Nut (Heat #)	
Dies Used	97MM	Dies Used	97MM
Hydrostatic Test Requirements			
Test Pressure (psi)	15,000	Hose assembly was tested with ambient water temperature.	
Test Pressure Hold Time (minutes)	17 3/4		
Date Tested	Tested By		Approved By
3/10/2015			

R 809

Chok & Kelly
Hoses
December 24, 2014



Midwest Hose
& Specialty, Inc.

Internal Hydrostatic Test Graph

Customer: Patterson

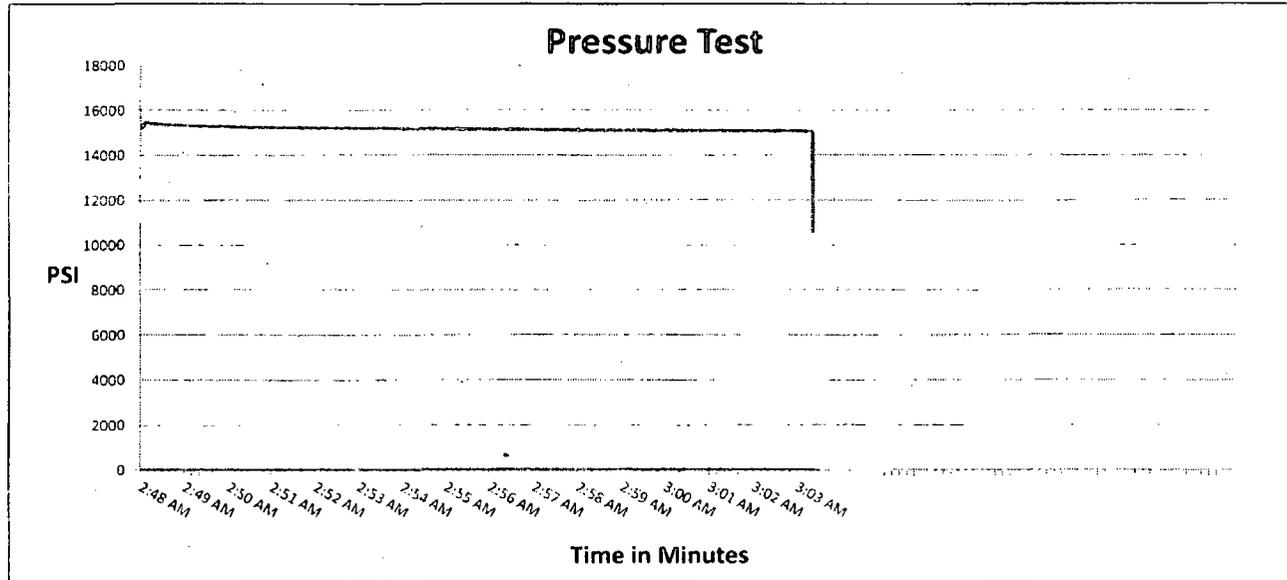
Pick Ticket #: 286159

Hose Specifications

Hose Type	Length
CK	50'
I.D.	O.D.
2"	3.55"
Working Pressure	Burst Pressure
10000 PSI	Standard Safety Multiplier Applies

Verification

Type of Fitting	Coupling Method
2" 1502	Swage
Die Size	Final O.D.
97MM	3.98"
Hose Serial #	Hose Assembly Serial #
11784	286159



Test Pressure
15000 PSI

Time Held at Test Pressure
15 1/4 Minutes

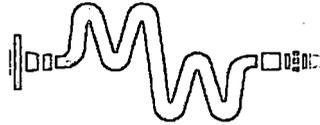
Actual Burst Pressure

Peak Pressure
15410 PSI

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

Tested By: Tyler Hill

Approved By: Ryan Adams



Midwest Hose
& Specialty, Inc.

Internal Hydrostatic Test Certificate

General Information		Hose Specifications	
Customer	PATTERSON B&E	Hose Assembly Type	Choke & Kill
MWH Sales Representative	AMY WHITE	Certification	API 7K/FSL Level 2
Date Assembled	12/23/2014	Hose Grade	MUD
Location Assembled	OKC	Hose Working Pressure	10000
Sales Order #	237566	Hose Lot # and Date Code	11784-10/14
Customer Purchase Order #	261581	Hose I.D. (Inches)	2"
Assembly Serial # (Pick Ticket #)	286159	Hose O.D. (Inches)	4.00"
Hose Assembly Length	50'	Armor (yes/no)	YES
Fittings			
End A		End B	
Stem (Part and Revision #)	R2.0X32M1502	Stem (Part and Revision #)	R2.0X32M1502
Stem (Heat #)	M14104546	Stem (Heat #)	M14101226
Ferrule (Part and Revision #)	RF2.0 10K	Ferrule (Part and Revision #)	RF2.0 10K
Ferrule (Heat #)	41044	Ferrule (Heat #)	41044
Connection - Flange Hammer Union Part	2" 1502	Connection (Part #)	
Connection (Heat #)	2866	Connection (Heat #)	
Nut (Part #)		Nut (Part #)	
Nut (Heat #)		Nut (Heat #)	
Dies Used	97MM	Dies Used	97MM
Hydrostatic Test Requirements			
Test Pressure (psi)	15,000	Hose assembly was tested with ambient water temperature.	
Test Pressure Hold Time (minutes)	15 1/4		
Date Tested	Tested By	Approved By	
12/24/2014	<i>Tyler Hill</i>	<i>Ben Adams</i>	



Midwest Hose
& Specialty, Inc.

Internal Hydrostatic Test Certificate

General Information		Hose Specifications	
Customer	PATTERSON B&E	Hose Assembly Type	Choke & Kill
MWH Sales Representative	AMY WHITE	Certification	API 7K/FSL Level 2
Date Assembled	3/10/2015	Hose Grade	MUD
Location Assembled	OKC	Hose Working Pressure	10000
Sales Order #	245805	Hose Lot # and Date Code	11839-11/14
Customer Purchase Order #	270590	Hose I.D. (Inches)	2"
Assembly Serial # (Pick Ticket #)	296283	Hose O.D. (Inches)	3.99"
Hose Assembly Length	50'	Armor (yes/no)	YES

FITTINGS

End A		End B	
Stem (Part and Revision #)	R2.0X32M1502	Stem (Part and Revision #)	RF2.0 32F1502
Stem (Heat #)	14104546	Stem (Heat #)	A144853
Ferrule (Part and Revision #)	RF2.0 10K	Ferrule (Part and Revision #)	RF2.0 10K
Ferrule (Heat #)	41044	Ferrule (Heat #)	41044
Connection - Flange Hammer Union Part		Connection (Part #)	
Connection (Heat #)		Connection (Heat #)	
Nut (Part #)	2" 1502 H2S	Nut (Part #)	
Nut (Heat #)		Nut (Heat #)	
Dies Used	97MM	Dies Used	97MM

Hydrostatic Test Requirements

Test Pressure (psi)	15,000	Hose assembly was tested with ambient water temperature.
Test Pressure Hold Time (minutes)	17 3/4	

Date Tested	Tested By	Approved By
3/10/2015		

Surface Casing

Collapse: $DF_c=1.125$

- Full Internal Evacuation: Collapse force equal to the mud gradient in which the casing will be run (0.43 psi/ft). The effects of axial load on collapse will be considered.
- Cementing: Collapse force equal to the gradient of planned cement slurries to planned depths and an internal force equal to mud gradient of displacement fluid (0.52 psi/ft).

Burst: $DF_b=1.125$

- Pressure Test: Casing test per Onshore Oil and Gas Order No. 2 with an external force equal to the mud gradient in which the casing will be run (0.43 psi/ft), which is a more conservative backup force than pore pressure.

Tensile: $DF_t=1.8$

- Overpull: A downward force of 100,000 lbs is applied at the shoe along with the weight of the casing string utilizing the effects of buoyancy (8.3 ppg).

Intermediate #1 Casing

Collapse: $DF_c=1.125$

- Full Internal Evacuation: Collapse force equal to the mud gradient in which the casing will be run (0.52 psi/ft). The effects of axial load on collapse will be considered.
- Cementing: Collapse force equal to the gradient of planned cement slurries to planned depths and an internal force equal to mud gradient of displacement fluid (0.43 psi/ft).

Burst: $DF_b=1.125$

- Pressure Test: Casing test per Onshore Oil and Gas Order No. 2 with an external force equal to the mud gradient in which the casing will be run (0.52 psi/ft), which is a more conservative backup force than pore pressure.
- Gas Kick Profile: Internal burst force at the shoe will be Fracture Pressure at that depth. Surface burst pressure will be fracture gradient at setting depth less a gas gradient to equivalent height of 50 bbl kick with Drill Pipe inside casing and mud gradient with which the next hole section will be run above that (0.47 psi/ft). External force will be equal to the mud gradient in which the casing will be run (0.52 psi/ft), which is a more conservative backup force than pore pressure.
- Fracture at Shoe with 1/3 BHP at Surface: Internal burst force at the shoe will be Fracture Pressure at setting depth. Internal burst force at surface will be 1/3 of pore pressure at setting depth. External force will be equal to the mud gradient in which the casing will be run (0.52 psi/ft) which is a more conservative backup force than pore pressure.

Tensile: $DF_t=1.8$

- Overpull: A downward force of 100,000 lbs is applied at the shoe along with the weight of the casing string utilizing the effects of buoyancy (10.0 ppg).

Matador Production Company
Verna Rae Fed Com 114H
SHL 229' FNL & 722' FEL
BHL 240' FSL & 660' FEL
Sec. 6, T. 20 S., R. 34 E., Lea County, NM

DRILL PLAN PAGE 2

A 5000 psi BOP stack consisting of 3 rams with 2 pipe rams, 1 blind ram, and 1 annular preventer will be used below surface casing to TD. See attached BOP and choke manifold diagrams.

An accumulator complying with Onshore Order 2 requirements for the BOP stack pressure rating will be present. Rotating head will be installed as needed.

Pressure tests will be conducted before drilling out from under all casing strings. BOP will be inspected and operated as required in Onshore Order 2. Kelly cock and sub equipped with a full opening valve sized to fit the drill pipe and collars will be available on the rig floor in the open position.

A third party company will test the BOPs.

Surface casing will be pressure tested to 250 psi low and 2000 psi high. Intermediate casing pressure tests will be made to 250 psi low and 3000 psi high. Annular preventer will be tested to 250 psi low and 2500 psi high on the surface casing and tested to 250 psi low and 2500 psi high on the intermediate casing. In the case of running a speed head with landing mandrel for 9.625" casing, initial surface casing test pressures will be 250 psi low and 3000 psi high, with wellhead seals tested to 5000 psi once the 9.625" casing has been landed and cemented. Matador is requesting a variance to use a speed head. Speed head diameter range is 13.375" x 9.625" x 5.5" x 2.875".

Matador requests a variance to drill this well using a co-flex line between the BOP and choke manifold. Certification for proposed co-flex hose is attached. Manufacturer does not require the hose to be anchored. If the specific hose is not available, then one of equal or higher rating will be used.

4. CASING & CEMENT

All casing will be API and new.

Hole O. D.	Set MD	Set TVD	Casing O. D.	Weight (lb/ft)	Grade	Joint	Collapse	Burst	Tension
20"	0' - 1600'	0' - 1600'	Surface 13.375"	54.5	J-55	BTC	1.125	1.125	1.8
12.25"	0' - 5400'	0' - 5400'	Inter. 9.625"	40	J-55	BTC	1.125	1.125	1.8

Matador Production Company
Verna Rae Fed Com 114H
SHL 229' FNL & 722' FEL
BHL 240' FSL & 660' FEL
Sec. 6, T. 20 S., R. 34 E., Lea County, NM

DRILL PLAN PAGE 3

8.75"	0' - 14001'	0' - 9490'	Product. 5.5"	20	P-110	DWC/C	1.125	1.125	1.8
-------	-------------	------------	---------------	----	-------	-------	-------	-------	-----

Casing Name	Type	Sacks	Yield	Cu. Ft.	Weight	Blend	
Surface	Lead	1764	1.75	3087	13.5	Class C + 3% NaCl + LCM	
	Tail	559	1.38	771	14.8	Class C + 5% NaCl + LCM	
TOC = GL		100% Excess			Centralizers per Onshore Order 2		
Intermediate	Lead	1262	1.81	2284	13.5	Class C + Bentonite + 1% CaCl ₂ + 8% NaCl + LCM	
	Tail	490	1.38	676	14.8	Class C + 5% NaCl + LCM	
TOC = GL		100% Excess			2 on btm jt, 1 on 2nd jt, 1 every 4th jt to GL		
Production	Lead	503	2.25	1131	11.5	TXI + Fluid Loss + Dispersant + Retarder + LCM	
	Tail	1483	1.38	2046	13.2	TXI + Fluid Loss + Dispersant + Retarder + LCM	
TOC = 4400'		35% Excess			2 on btm jt, 1 on 2nd jt, 1 every other jt to top of tail cement (1000' above TOC)		

Matador requests the option to run a DV tool with annular packer as contingency in the intermediate section if lost circulation is encountered. If losses occur, then the DV tool with packer will be placed $\geq 100'$ above the loss zone to give the option to pump cement as either a single stage or two stage.

5. MUD PROGRAM

An electronic Pason mud monitoring system complying with Onshore Order 1 will be used. All necessary mud products (barite, bentonite, LCM) for weight addition and fluid loss control will be on location at all times. Mud program is subject to change due to hole conditions. A closed loop system will be used.

Type	Interval	lb/gal	Viscosity	Fluid Loss
fresh water spud	0' - 1600'	8.4	28	NC
brine water	1600' - 5400'	10.0	30-32	NC
fresh water & cut brine	5400' - 14001'	9.0	30-32	NC

**Matador Production Company
Verna Rae Fed Com 114H
SHL 229' FNL & 722' FEL
BHL 240' FSL & 660' FEL
Sec. 6, T. 20 S., R. 34 E., Lea County, NM**

DRILL PLAN PAGE 4

6. CORES, TESTS, & LOGS

No core or drill stem test is planned.

A 2-person mud logging program will be used from ≈1600' to TD.

No electric logs are planned at this time. GR will be collected through the MWD tools from intermediate casing to TD. CBL with CCL will be run as far as gravity will let it fall to TOC.

7. DOWN HOLE CONDITIONS

No abnormal pressure or temperature is expected. Maximum expected bottom hole pressure is ≈4725 psi. Expected bottom hole temperature is ≈140° F.

In accordance with Onshore Order 6, Matador does not anticipate that there will be enough H₂S from the surface to the Bone Spring to meet the BLM's minimum requirements for the submission of an "H₂S Drilling Operation Plan" or "Public Protection Plan" for drilling and completing this well. Since Matador has an H₂S safety package on all wells, an "H₂S Drilling Operations Plan" is attached. Adequate flare lines will be installed off the mud/gas separator where gas may be flared safely. All personnel will be familiar with all aspects of safe operation of equipment being used.

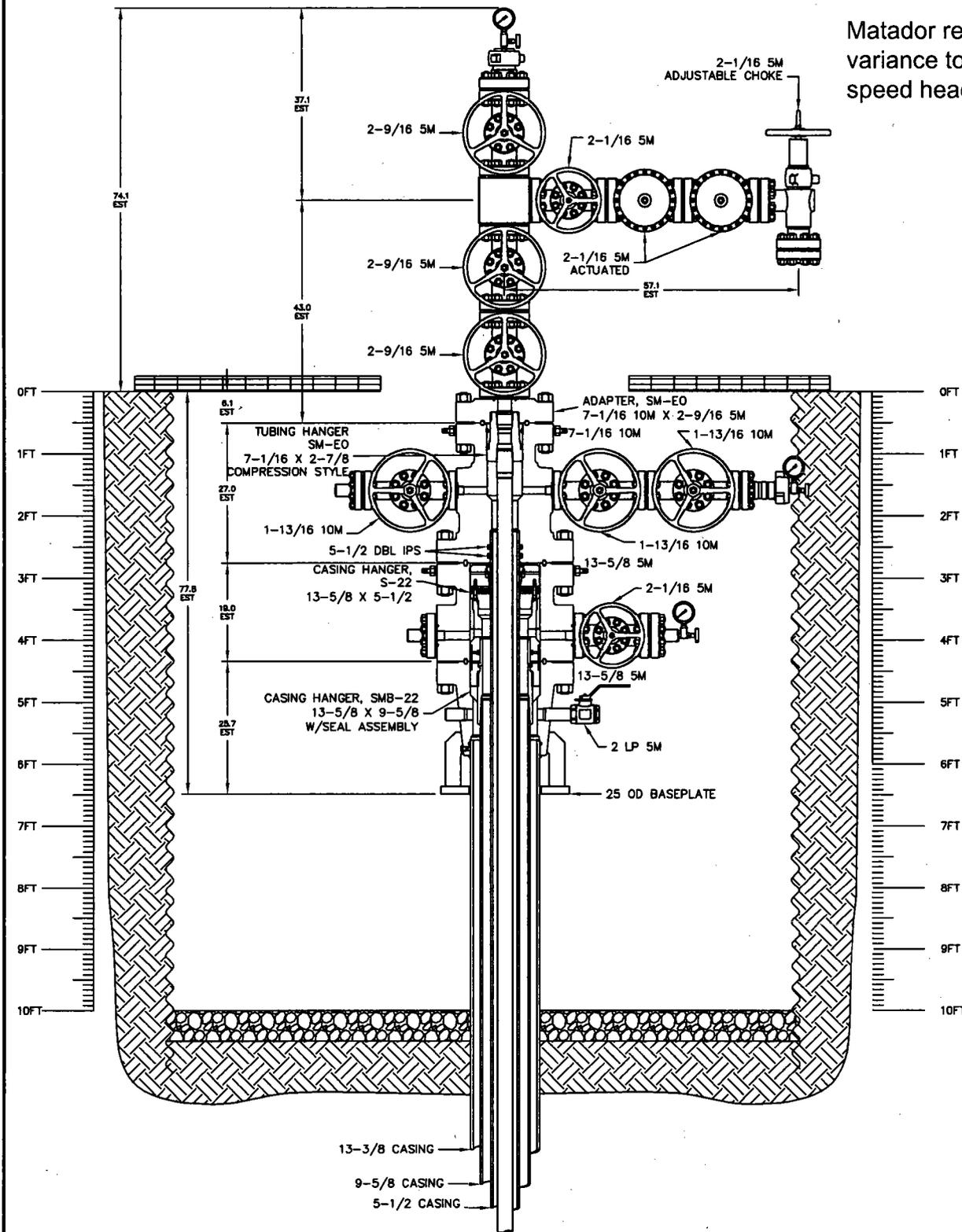
8. OTHER INFORMATION

Anticipated spud date is upon approval. It is expected it will take ≈3 months to drill and complete the well.

Matador Production Company owns the majority working interest in this well. Per its discussions with its potential partners, Matador will be named operator upon execution of the final Operating Agreements signed by the partners or the issuance of a pooling order by the State.

MATADOR
MQ-436

Matador requesting
variance to use
speed head



NOTE:
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5,000 PSI WELLHEAD & TREE ASSEMBLY
13-3/8 X 9-5/8 X 5-1/2 X 2-7/8

DRAWN BY:	RPL	SCALE:	1:10	DATE:	23SEP16	REV:	
CHECKED BY:		DRAWING NO.:	P-21629				
APPROVED BY:							

Technical Specifications

Connection Type: DWC/C-IS PLUS Casing standard	Size(O.D.): 5-1/2 in	Weight (Wall): 20.00 lb/ft (0.361 in)	Grade: VST P110 EC
---	--------------------------------	---	------------------------------

VST P110 EC	Material
125,000	Grade
135,000	Minimum Yield Strength (psi)
	Minimum Ultimate Strength (psi)

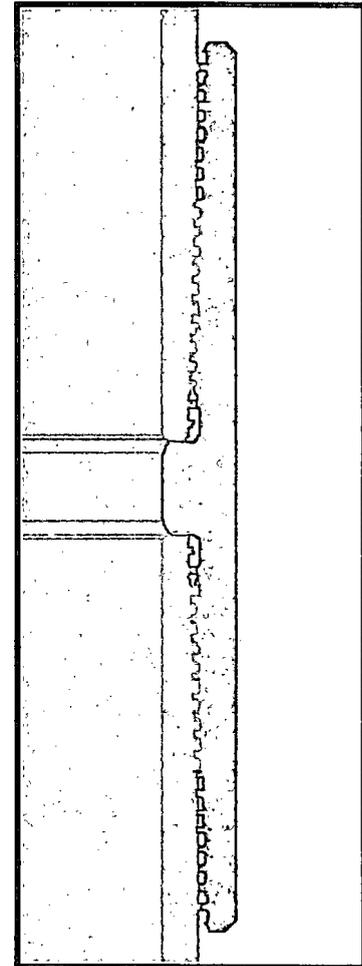


VAM USA
4424 W. Sam Houston Pkwy. Suite 150
Houston, TX 77041
Phone: 713-479-3200
Fax: 713-479-3234
E-mail: VAMUSAsales@vam-usa.com

	Pipe Dimensions
5.500	Nominal Pipe Body O.D. (in)
4.778	Nominal Pipe Body I.D.(in)
0.361	Nominal Wall Thickness (in)
20.00	Nominal Weight (lbs/ft)
19.83	Plain End Weight (lbs/ft)
5.828	Nominal Pipe Body Area (sq in)
	Pipe Body Performance Properties
729,000	Minimum Pipe Body Yield Strength (lbs)
12,090	Minimum Collapse Pressure (psi)
14,360	Minimum Internal Yield Pressure (psi)
13,100	Hydrostatic Test Pressure (psi)

	Connection Dimensions
6.300	Connection O.D. (in)
4.778	Connection I.D. (in)
4.653	Connection Drift Diameter (in)
4.13	Make-up Loss (in)
5.828	Critical Area (sq in)
100.0	Joint Efficiency (%)
	Connection Performance Properties
729,000	Joint Strength (lbs)
26,040	Reference String Length (ft) 1.4 Design Factor
728,000	API Joint Strength (lbs)
729,000	Compression Rating (lbs)
12,090	API Collapse Pressure Rating (psi)
14,360	API Internal Pressure Resistance (psi)
104.2	Maximum Uniaxial Bend Rating [degrees/100 ft]

	Approximated Field End Torque Values
16,600	Minimum Final Torque (ft-lbs)
19,100	Maximum Final Torque (ft-lbs)
21,600	Connection Yield Torque (ft-lbs)



For detailed information on performance properties, refer to DWC Connection Data Notes on following page(s).

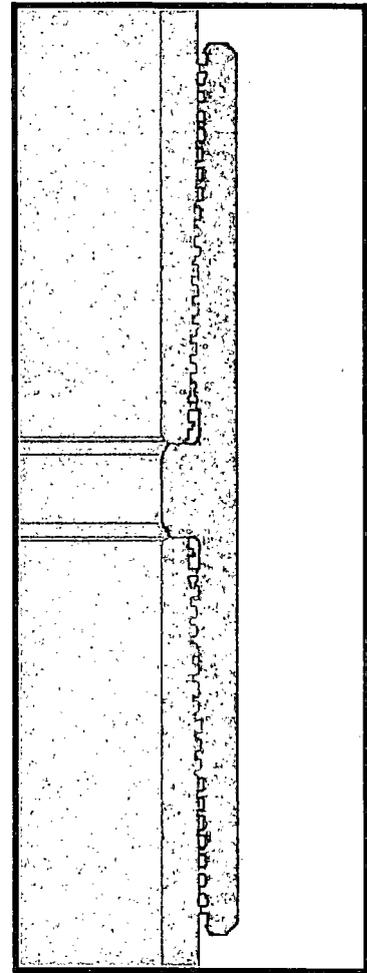
Connection specifications within the control of VAM USA were correct as of the date printed. Specifications are subject to change without notice. Certain connection specifications are dependent on the mechanical properties of the pipe. Mechanical properties of mill proprietary pipe grades were obtained from mill publications and are subject to change. Properties of mill proprietary grades should be confirmed with the mill. Users are advised to obtain current connection specifications and verify pipe mechanical properties for each application.

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DWC Connection Data Notes:

1. DWC connections are available with a seal ring (SR) option.
2. All standard DWC/C connections are interchangeable for a give pipe OD. DWC connections are interchangeable with DWC/C-SR connections of the same OD and wall.
3. Connection performance properties are based on nominal pipe body and connection dimensions.
4. DWC connection internal and external pressure resistance is calculated using the API rating for buttress connections. API Internal pressure resistance is calculated from formulas 31, 32, and 35 in the API Bulletin 5C3.
5. DWC joint strength is the minimum pipe body yield strength multiplied by the connection critical area.
6. API joint strength is for reference only. It is calculated from formulas 42 and 43 in the API Bulletin 5C3.
7. Bending efficiency is equal to the compression efficiency.
8. The torque values listed are recommended. The actual torque required may be affected by field conditions such as temperature, thread compound, speed of make-up, weather conditions, etc.
9. Connection yield torque is not to be exceeded.
10. Reference string length is calculated by dividing the joint strength by both the nominal weight in air and a design factor (DF) of 1.4. These values are offered for reference only and do not include load factors such as bending, buoyancy, temperature, load dynamics, etc.
11. DWC connections will accommodate API standard drift diameters.



Connection specifications within the control of VAM USA were correct as of the date printed. Specifications are subject to change without notice. Certain connection specifications are dependent on the mechanical properties of the pipe. Mechanical properties of mill proprietary pipe grades were obtained from mill publications and are subject to change. Properties of mill proprietary grades should be confirmed with the mill. Users are advised to obtain current connection specifications and verify pipe mechanical properties for each application.

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4/14/2015

Matador requests the option to run a DV tool with annular packer as contingency in the intermediate 1 section on 9-5/8" casing if lost circulation is encountered. If losses occur the DV tool with packer will be placed at least 100' above loss zone to give the option to pump cement as either a single stage or two stage.

Matador DV Tool Specifications

Example:

Assuming DV tool set at 4500' MD but if the setting depth changes, cement volumes will be adjusted proportionately.

Stage 1:

Lead	1262	1.81	13.5	Class C + Bentonite + 1% CaCL ₂ + 8% NaCl + LCM
Tail	490	1.38	14.8	Class C + 5% NaCl + LCM
100% excess, TOC = 0' MD				

Stage 2:

Lead	1324	1.81	13.5	Class C + Bentonite + 1% CaCL ₂ + 8% NaCl + LCM
100% excess, TOC = 0' MD				



APD ID: 10400014273

Submission Date: 05/31/2017

Highlighted data reflects the most recent changes

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: VERNA RAE FEDERAL COM

Well Number: 114H

[Show Final Text](#)

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

VernaRae_114H_Road_Map_05-18-2017.pdf

Existing Road Purpose: ACCESS,FLUID TRANSPORT

Row(s) Exist? NO

ROW ID(s)

ID:

Do the existing roads need to be improved? NO

Existing Road Improvement Description:

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

VernaRae_114H_Road_Map_05-18-2017.pdf

New road type: RESOURCE

Length: 830.32 Feet

Width (ft.): 30

Max slope (%): 0

Max grade (%): 3

Army Corp of Engineers (ACOE) permit required? NO

ACOE Permit Number(s):

New road travel width: 14

New road access erosion control: Crown & ditch, surface with caliche

New road access plan or profile prepared? NO

New road access plan attachment:

Access road engineering design? NO

Access road engineering design attachment:

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: VERNA RAE FEDERAL COM

Well Number: 114H

Access surfacing type: OTHER

Access topsoil source: ONSITE

Access surfacing type description: Caliche

Access onsite topsoil source depth: 6

Offsite topsoil source description:

Onsite topsoil removal process: grader

Access other construction information:

Access miscellaneous information:

Number of access turnouts:

Access turnout map:

Drainage Control

New road drainage crossing: OTHER

Drainage Control comments: No drainage crossings needed.

Road Drainage Control Structures (DCS) description: Crown & ditch, no culverts needed.

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:

VernaRae_114H_Well_Map_05-16-2017.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:

VernaRae_114H_Production_Diagram_05-18-2017.pdf

Section 5 - Location and Types of Water Supply

Water Source Table

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: VERNA RAE FEDERAL COM

Well Number: 114H

Water source use type: DUST CONTROL, STIMULATION

Water source type: GW WELL

Describe type:

Source latitude:

Source longitude:

Source datum:

Water source permit type: PRIVATE CONTRACT

Source land ownership: PRIVATE

Water source transport method: TRUCKING

Source transportation land ownership: PRIVATE

Water source volume (barrels): 15000

Source volume (acre-feet): 1.9333965

Source volume (gal): 630000

Water source and transportation map:

VernaRae_114H_Water_Source_Map_05-16-2017.pdf

Water source comments:

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:

Water well additional information:

State appropriation permit:

Additional information attachment:

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: VERNA RAE FEDERAL COM

Well Number: 114H

Section 6 - Construction Materials

Construction Materials description: NM One Call (811) will be notified before construction starts. Top 6" of soil and brush will be stockpiled north of the pad. V-door will face south. Closed loop drilling system will be used. Caliche will be hauled from existing caliche pits on private land. Klein pit is in SWNW 27-19s-35e. Berry pit is in E2NE4 35-20s-34e.

Construction Materials source location attachment:

Section 7 - Methods for Handling Waste

Waste type: DRILLING

Waste content description: cuttings and mud

Amount of waste: 15000 barrels

Waste disposal frequency : Daily

Safe containment description: steel tanks

Safe containmant attachment:

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

Disposal type description:

Disposal location description: Halfway, NM

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit?

Reserve pit length (ft.) **Reserve pit width (ft.)**

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?

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: VERNA RAE FEDERAL COM

Well Number: 114H

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:

VernaRae_114H_Well_Site_Layout_05-16-2017.pdf

Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: VERNA RAE

Multiple Well Pad Number: SLOT 4

Recontouring attachment:

VernaRae_114H_Recontour_plat_05-16-2017.PDF

Drainage/Erosion control construction: Surface with caliche

Drainage/Erosion control reclamation: Disturbed areas will be contoured to match pre-construction grades. Soil and brush will be evenly spread over disturbed areas and harrowed on the contour. Disturbed areas will be seeded in accordance with the surface owner's requirements.

Wellpad long term disturbance (acres): 2.99

Wellpad short term disturbance (acres): 3.65

Access road long term disturbance (acres): 0.57

Access road short term disturbance (acres): 0.57

Pipeline long term disturbance (acres): 0

Pipeline short term disturbance (acres): 0

Other long term disturbance (acres): 0

Other short term disturbance (acres): 0.75

Total long term disturbance: 3.56

Total short term disturbance: 4.97

Reconstruction method: Within 7 days disturbed areas will be contoured to match pre-construction grades. Soil and brush will be evenly spread over disturbed areas and harrowed on the contour with a grader. Disturbed areas will be seeded in accordance with the surface owner's requirements.

Topsoil redistribution: Soil will be evenly spread over disturbed areas

Soil treatment: No soil treatment planned, site will be revegetated in accordance with the surface owner's requirements.

Existing Vegetation at the well pad:

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: VERNA RAE FEDERAL COM

Well Number: 114H

Existing Vegetation at the well pad attachment:

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?

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project?

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation?

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 Summary	
Seed Type	Pounds/Acre

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: VERNA RAE FEDERAL COM

Well Number: 114H

Seed reclamation attachment:

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: Noxious weeds will be controlled.

Weed treatment plan attachment:

Monitoring plan description: On pumper visits.

Monitoring plan attachment:

Success standards: To landowner's specifications.

Pit closure description: N/A (closed loop)

Pit closure attachment:

Section 11 - Surface Ownership

Disturbance type: WELL PAD

Describe:

Surface Owner: PRIVATE OWNERSHIP

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:

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: VERNA RAE FEDERAL COM

Well Number: 114H

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Fee Owner: Larry Hughes

Fee Owner Address: HC 69 Box 57 Monument NM 88265

Phone: (575)263-7602

Email:

Surface use plan certification: NO

Surface use plan certification document:

Surface access agreement or bond: Agreement

Surface Access Agreement Need description: Matador Resources Company has a private surface owner agreement with Larry Hughes (HC 69 Box 57, Monument NM 88265) for the Verna Rae Fed Com road in SESE Sec. 31, T. 19 S., R. 34 E. and the Verna Rae Fed Com slot 4 well site, road, and power line in Lot 1 Section 6, T. 20 S., R. 34 E., Lea County, NM. His phone number is (575) 263-7602. Matador Resources Company will file an Application for Right-Of-Way Easement with the NM State Land Office (PO Box 1148, Santa Fe NM 87504) for road access across S2S2 32-19s-34e. Their phone number is (505) 827-5728.

Surface Access Bond BLM or Forest Service: BLM

BLM Surface Access Bond number:

USFS Surface access bond number:

Section 12 - Other Information

Right of Way needed? NO

Use APD as ROW?

ROW Type(s):

ROW Applications

SUPO Additional Information:

Use a previously conducted onsite? YES

Previous Onsite information: On site inspection was held with Vance Wolf, Cassie Brooks, and Bob Ballard (all BLM) on April 3, 2017.

Other SUPO Attachment

VernaRae_114H_Surface_Use_Plan_05-18-2017.pdf

**Matador Production Company
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BHL 240' FSL & 660' FEL
Sec. 6, T. 20 S., R. 34 E., Lea County, NM**

SURFACE PLAN PAGE 1

Surface Use Plan

1. ROAD DIRECTIONS & DESCRIPTIONS (See MAPS 1 - 7)

From the Hobbs Airport....

Go SW 22.3 miles on US 62/180 to the equivalent of Mile Post 78.2

Then turn right and go West 1.0 mile on a caliche road to a fence

Then go W and SW 830.32' cross-country to the proposed pad

Non-county roads will be maintained as needed to Gold Book standards. This includes pulling ditches, preserving the crown, and cleaning culverts. This will be done at least once a year, and more often as needed.

2. ROAD TO BE BUILT OR UPGRADED (See MAPS 4 - 7)

The 830.32' of new road will be crowned and ditched, have a 14' wide driving surface, and be surfaced with caliche. Maximum disturbed width = 30'. Maximum grade = 3%. Maximum cut or fill = 2'. An underground pipeline will be padded before crossing. A cattle guard will be installed in the one fence that is crossed. No culvert or vehicle turn out is needed. Upgrading will consist of patching potholes with caliche.

3. EXISTING WELLS (See MAP 3)

Existing oil, gas, disposal, water, and P & A wells are within a mile. No injection wells are within a mile radius.

4. PROPOSED PRODUCTION FACILITIES (see MAPS 4, 8, & 9)

A 2203.97' long overhead raptor safe 3-phase power line will be built east to Southwestern Public Service's existing power line in Section 5. Oil tanks, water tanks, meter runs, separators, pumps, heater-treaters, combustion unit, and a flare will be installed on the south and west sides of the pad (see preceding diagram). Gas line

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DRILL PLAN PAGE 1

Drilling Program

1. ESTIMATED TOPS

Formation Name	TVD	MD	Bearing
Quaternary	000'	000'	water
Rustler	1475'	1475'	anhydrite
Top salt	1605'	1605'	salt
Base salt	3120'	3120'	salt
Tansill	3185'	3185'	sandstone
Yates	3340'	3340'	gypsum
Seven Rivers	3750'	3750'	dolomite
Queen	4570'	4570'	sandstone
Capitan/Goat Seep Reef carbonate	4750'	4750'	water
Delaware Mt. Group sandstones	5420'	5420'	hydrocarbons
Brushy Canyon Sand	6155'	6155'	hydrocarbons
Bone Spring Lime	8280'	8280'	hydrocarbons
(KOP	8917'	8920'	hydrocarbons)
1 st Bone Spring carbonate	9005'	9008'	hydrocarbons
1 st Bone Spring Sand	9390'	9477'	hydrocarbons & goal
TD	9490'	14001'	hydrocarbons

2. NOTABLE ZONES

First Bone Spring sand is the goal. Hole will extend south of the last perforation point to allow for pump installation. All perforations will be $\geq 330'$ from the dedication perimeter. Closest water well (L 07213) is 2079' NNW. Depth to water is 110' in this 160' deep well.

3. PRESSURE CONTROL

SCALE: 1" = 200'
 0' 100' 200'

SECTION 6, TOWNSHIP 20-S, RANGE 34-E, N.M.P.M.
 LEA COUNTY, NEW MEXICO

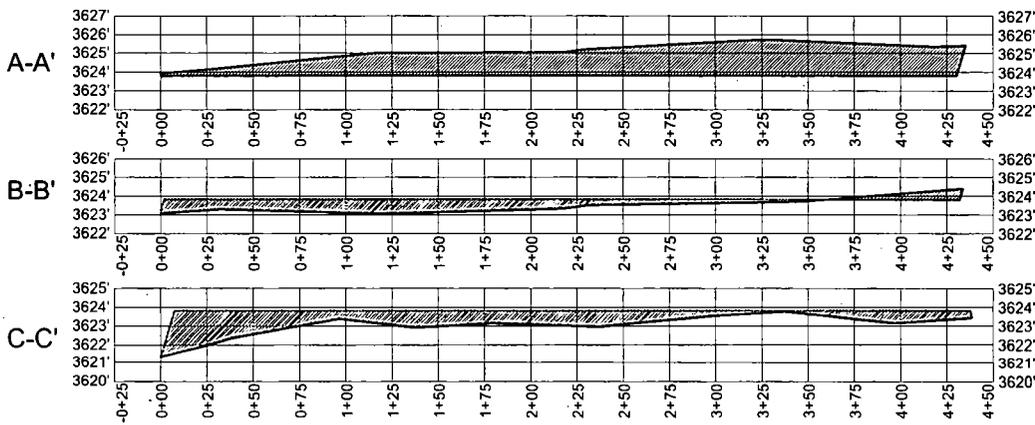
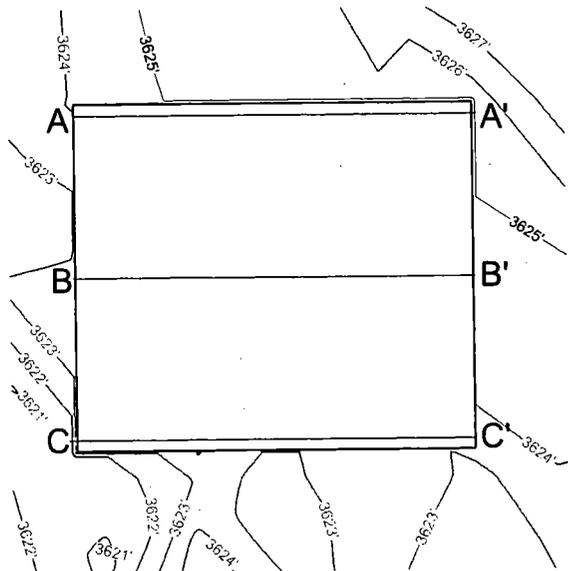
MAP 12



TOP OF PAD ELEVATION: 3623.8'

CUT SLOPE: 33.33% 3,000:1 18.43°
 FILL SLOPE: 33.33% 3,000:1 18.43°
 BALANCE TOLERANCE (C.Y.): 0.00
 CUT SWELL FACTOR: 1.00
 FILL SHRINK FACTOR: 1.00

PAD EARTHWORK VOLUMES
 CUT : 52,450.7 C.F., 1,942.62 C.Y.
 FILL: 52,450.7 C.F., 1,942.62 C.Y.
 AREA: 163888.0 SQ.FT., 3.762 ACRES



Horizontal Scale = 1:100
 Vertical Scale = 1:10



Michael Blake Brown, P.S. No. 18329

FEBRUARY 15, 2017

Field note description of even date accompanies this plat.



1400 EVERMAN PARKWAY, Ste. 197 - FT. WORTH, TEXAS 76140
 TELEPHONE: (817) 744-7512 - FAX (817) 744-7548
 TEXAS FIRM REGISTRATION NO. 10042504
 WWW.TOPOGRAPHIC.COM

VERNA RAE FED #204H SURFACE PAD SITE PROFILE	REVISION:
DATE: 02/15/2017	
FILE: CD\VERNA_RAE_FED_204H_SURFACE_PAD_SITE_CUT_FILL	
DRAWN BY: MML	
SHEET :	

NOTES:

1. ORIGINAL DOCUMENT SIZE: 8.5" X 11"
2. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET, NORTH AMERICAN DATUM 1927.
3. CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT, IN RELATION TO THE EVIDENCE FOUND DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY MATADOR RESOURCE COMPANY. ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.

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SURFACE PLAN PAGE 2

plans have not been finalized, though it appears DCP will build a short line from its existing line that is between the Verna Rae Fed Com slot 3 and 4 pads.

5. WATER SUPPLY (See MAP 2)

Water will be trucked from existing water stations on private land. Sonny's water station (L 07431A) is in NENE 5-19s-36e. Berry's water station (CP 00802) is in SWNE 2-21s-32e.

6. CONSTRUCTION MATERIALS & METHODS (See MAPS 2 & 10-12)

NM One Call (811) will be notified before construction starts. Top ≈6" of soil and brush will be stockpiled north of the pad. V-door will face south. Closed loop drilling system will be used. Caliche will be hauled from existing caliche pits on private land. Klein pit is in SWNW 27-19s-35e. Berry pit is in E2NE4 35-20s-34e.

7. WASTE DISPOSAL

All trash will be placed in a portable trash cage. It will be hauled to the Lea County landfill. There will be no trash burning. Contents (drill cuttings, mud, salts, and other chemicals) of the mud tanks will be hauled to R360's state approved (NM-01-0006) disposal site at Halfway. Human waste will be disposed of in chemical toilets and hauled to the Hobbs wastewater treatment plant.

8. ANCILLARY FACILITIES

There will be no airstrip or camp. Camper trailers will be on location for the company man, tool pusher, and mud logger.

9. WELL SITE LAYOUT (See MAPS 10 & 11)

See Rig Layout diagram for depictions of the well pad, trash cage, access onto the location, parking, living facilities, and rig orientation.

10. RECLAMATION

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SURFACE PLAN PAGE 3

Interim reclamation will be completed within 6 months of completing the well. Interim reclamation will consist of shrinking the pad $\approx 18\%$ (0.66 acre) by removing caliche and reclaiming the north side (50' x 430') and southeast corner (100' x 150' x 180'). This will leave 2.99 acres for the production equipment (e. g., tank battery, heater-treater, separator), pump jacks, and tractor-trailer turn around. Disturbed areas will be contoured to match pre-construction grades. Soil and brush will be evenly spread over disturbed areas and harrowed on the contour. Disturbed areas will be seeded in accordance with the surface owner's requirements.

Enough stockpiled topsoil will be retained to cover the remainder of the pad when the well is plugged. Once the well is plugged, then the rest of the pad and 830.32' of new road will be similarly reclaimed within 6 months of plugging. Noxious weeds will be controlled. Land use:

830.32' x 30' road = 0.57 acres
2203.97' x 15' power line = 0.75 acre
+ 370' x 430' pad = 3.65 acres
4.97 acres short term
- 0.75 acre power line
- 0.66 acre interim reclamation
3.56 acres long term (0.57 road + 2.99 pad)

11. SURFACE OWNER

All pad, most road (754.99'), and some power line (658.08') construction will be on land owned by Larry Hughes (HC 69 Box 57, Monument NM 88265). His phone number is 575 263-7602.

Remaining road construction (75.33') will be on NM State Land Office land. Their address is PO Box 1148, Santa Fe NM 87504. Phone is 505 827-5728.

Most power line construction (1545.89') will be on BLM for which a power line right-of-way application will be filed.

12. OTHER INFORMATION

On site inspection was held with Vance Wolf, Cassie Brooks, and Bob Ballard (all BLM) on April 3, 2017.

Lone Mountain inspected and will file an archaeology report.

**Matador Production Company
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Sec. 6, T. 20 S., R. 34 E., Lea County, NM**

SURFACE PLAN PAGE 4

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. Executed this 12th day of May, 2017.

Brian Wood, Consultant
Permits West, Inc.
37 Verano Loop, Santa Fe, NM 87508
(505) 466-8120 FAX: (505) 466-9682 Cellular: (505) 699-2276

Field representative will be:
Sam Pryor, Senior Staff Landman
Matador Production Company
5400 LBJ Freeway, Suite 1500
Dallas TX 75240

**Matador Production Company
Verna Rae Fed Com 114H
SHL 229' FNL & 722' FEL
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Sec. 6, T. 20 S., R. 34 E., Lea County, NM**

SURFACE PLAN PAGE 5

Phone: (972) 371-5241
FAX: (214) 866-4841



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:

Assigned injection well API number?

Injection well new surface disturbance (acres):

Minerals protection information:

Mineral protection attachment:

Underground Injection Control (UIC) Permit?

UIC Permit attachment:

Injection well name:

Injection well API number:

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

12/21/2017

Bond Information

Federal/Indian APD: FED

BLM Bond number: NMB001079

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

Operator Certification Data Report

12/21/2017

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: Brian Wood

Signed on: 05/31/2017

Title: President

Street Address: 37 Verano Loop

City: Santa Fe

State: NM

Zip: 87508

Phone: (505)466-8120

Email address: afmss@permitswest.com

Field Representative

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Email address: