' Carlsbad Fiel	d Off	fice		HIGH C/	AVEł	(ARST
Form 3160-3 (March 2012) *WC-015 G-04 S202920D; E		APPROVE 1004-013 tober 31, 2	7			
UNITED STATES DEPARTMENT OF THE 1 BUREAU OF LAND MAN.	AGEMENT	ARTESI	A DISTRI			
APPLICATION FOR PERMIT TO	DRILL OR	REENTERMAY	1120	N/A	of THUE P	Name
ia. Type of work: DRILL REENTE	R	RE	CEIVE			me and No.
lb. Type of Well: 🔽 Oil Well 🛄 Gas Well 🛄 Other	Sin	gle Zone 🔲 Multip	le Zone	8. Lease Name and W STEBBINS 20 FED		315007
2. Name of Operator MATADOR PRODUCTION COMPANY				9. API Well No. 30-015- 44/6	,9	
3a. Address 5400 LBJ FREEWAY, SUITE 1500 DALLAS, TX 75240	3b. Phone No. 972 371 52	(include area code) 41		10. Field and Pool, or E WILDCAT; BONE S		CA-15
 Location of Well (Report location clearly and in accordance with any At surface 331' FSL & 130' FWL 20-20S-29E At proposed prod. zone 330' FSL & 240' FEL 20-20S-29E 		11. Sec., T. R. M. or Blk. and Survey or Area SHL: SWSW 20-20S-29E NMPM BHL: SESE 20-20S-29E NMPM				
 Distance in miles and direction from nearest town or post office* 11 MILES NE OF CARLSBAD, NM 		12. County or Parish EDDY		13. State NM		
15. Distance from proposed* location to nearest property or lease line, ft. BHL: 2309' (Also to nearest drig. unit line, if any)	16. No. of a BLM lease	eres in lease = 2150.97 acres		g Unit dedicated to this w D-20S-29E	ell	<u></u>
 Distance from proposed location* SHL: 1332' Steb 20 113 to nearest well, drilling, completed, BHL: 1539' (ditto) applied for, on this lease, ft. 	19. Proposed TVD: 7095 MD: 11625	TVD: 7095' BLM NM		BIA Bond No. on file MB-001079		
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3243' UNGRADED	22. Approxin 01/02/201	nate date work will star 7	23. Estimated duration 3 MONTHS			
	24. Attac					<u></u>
The following, completed in accordance with the requirements of Onshor	e Oil and Gas	Order No.1, must be at	tached to the	is form:		
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on-National Forest System 1 	Lands, the	Item 20 above). 5. Operator certific	ation	ns unless covered by an e	-	
SUPO must be filed with the appropriate Forest Service Office).		 Such other site : BLM. 	specific info	ormation and/or plans as i	may be re	equired by the
25. Signature Dutyd		(Printed/Typed) NWOOD (PH	ONE: 505	1	Date 11/02/2	2016
Title CONSULTANT		(FA)	K: 505 466	6-9682)		
Approved by (Signature) (ad light	Name	(Printed/Typed)	P. La	ypan	Date $\frac{1}{65/8}$	03/17
Title AN FIELDMANAGER	Office	CARLSB	AD FI	ELD OFFICE		
Application approval does not warrant or certify that the applicant holds conduct operations thereon. Conditions of approval, if any, are attached.	s legal or equit	5		ject lease which would en /AL FOR TWO		••
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a cr. States any false, fictitious or fraudulent statements or representations as to	ime for any pe o any matter w	rson knowingly and w ithin its jurisdiction.	illfully to m	nake to any department or	agency	of the United

(Continued on page 2)

3

*(Instructions on page 2)

5.17.17 P.P.

SEE ATTACHED FOR CONDITIONS OF APPROVAL

<u>District I</u> 1625 N. French Dr., H Phone: (575) 393-616 <u>District II</u> 811 S. First St., Artesi Phone: (575) 748-128: <u>District III</u> 1000 Rio Brazos Road Phone: (505) 334-617: <u>District IV</u> 1220 S. St. Francis Dr Phone: (505) 476-3460	1 Fax: (575) 39 a, NM 88210 3 Fax: (575) 74 l, Aztec, NM 87 8 Fax: (505) 33 ., Sante Fe, NM	93-0720 48-9720 7410 94-6170 1 87505 76-3462	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Sante Fe, NM 87505 WELL LOCATION AND ACREAGE DEDICATION PLAT						ıbmit one	FORM C-102 vised August 1, 2011 copy to appropriate District Office MENDED REPORT Spring Sand
30-015- 4	API Number	7	² Pool Code 98015 WC-015 G-04 S202920D							
	⁴ Property Code 3/5007 STEBB			EBBINS	⁵ Property N S 20 FED	Vame				Vell Number #114H
⁷ OGRID 1 22893			⁸ Operator Name MATADOR PRODUCTION COMPANY							⁹ Elevation 3243'
					¹⁰ Surface L	ocation				
UL or lot no. M	Section 20	Township 20-S	Range 29–E	Lot Idn	Feet from the 331 '	North/South line SOUTH	Feet from the 130'	Ea WE	st/West line ST	County EDDY
UL or lot no. P	Section 20	Township 20–S	RangeLot IdnFeet from theNorth/South lineFeet from the29-E-330'SOUTH240'				EAS	st/West line ST	County EDDY	

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

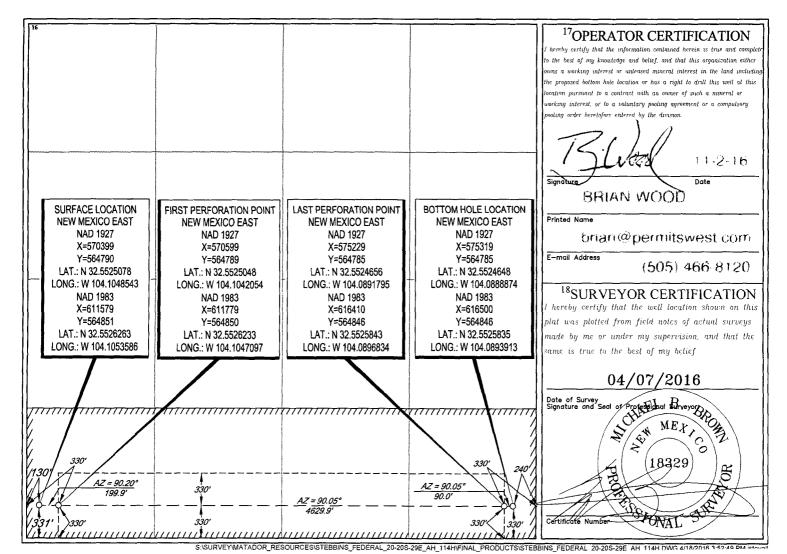
⁵Order No.

²Dedicated Acres

160

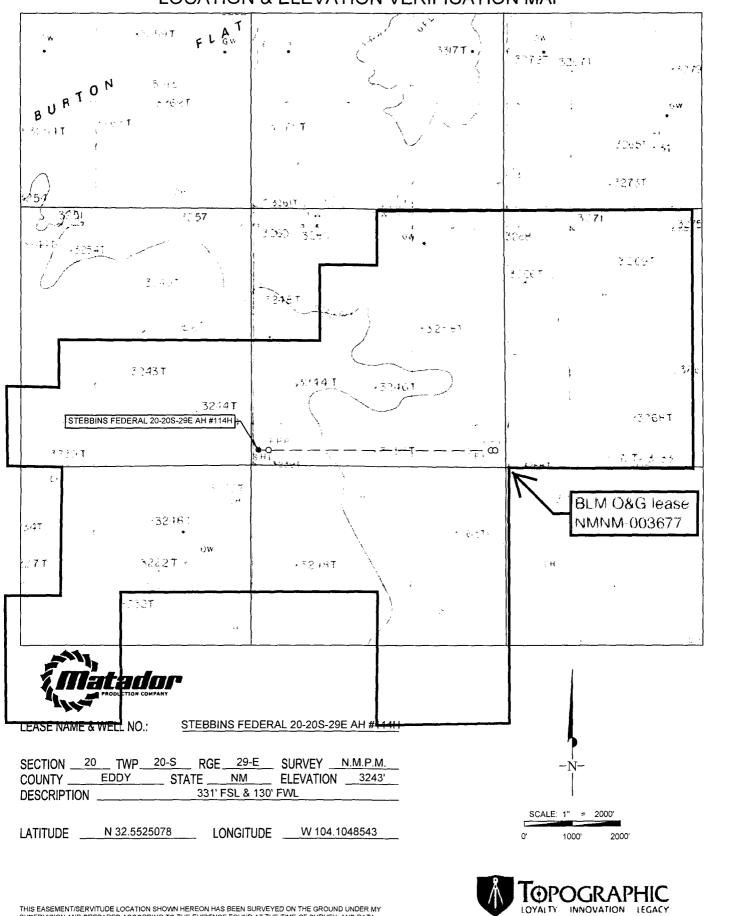
¹³Joint or Infill

⁴Consolidation Code





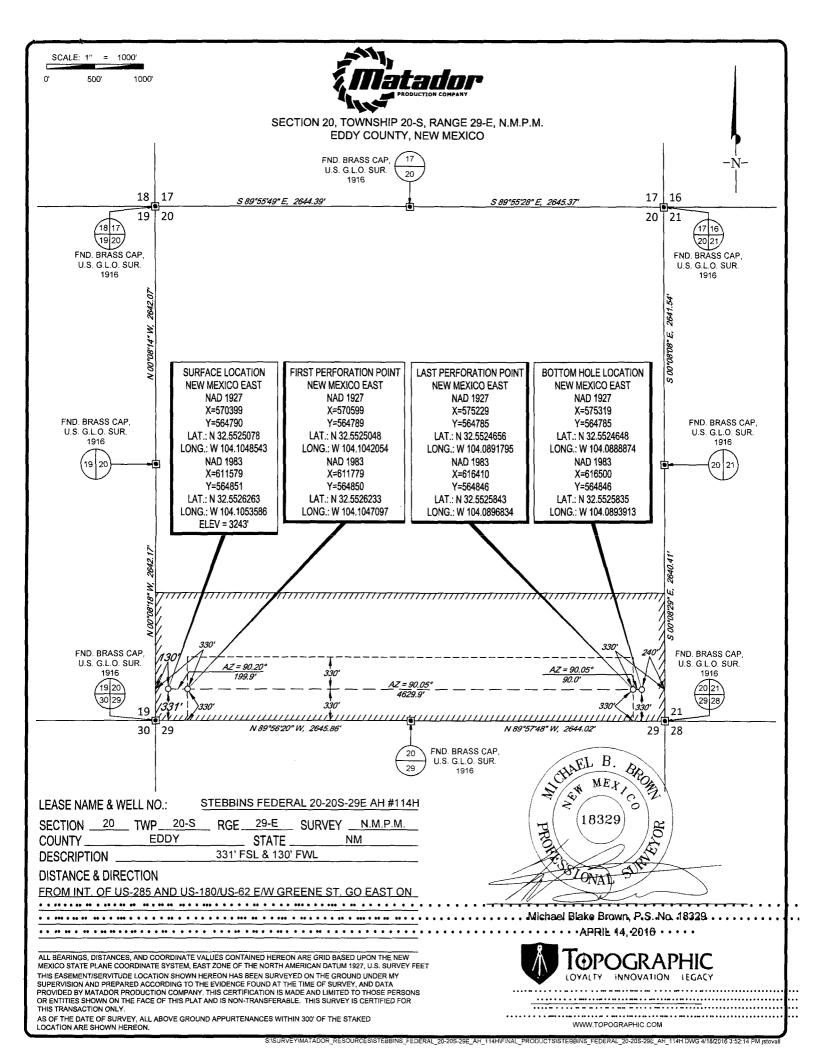
5

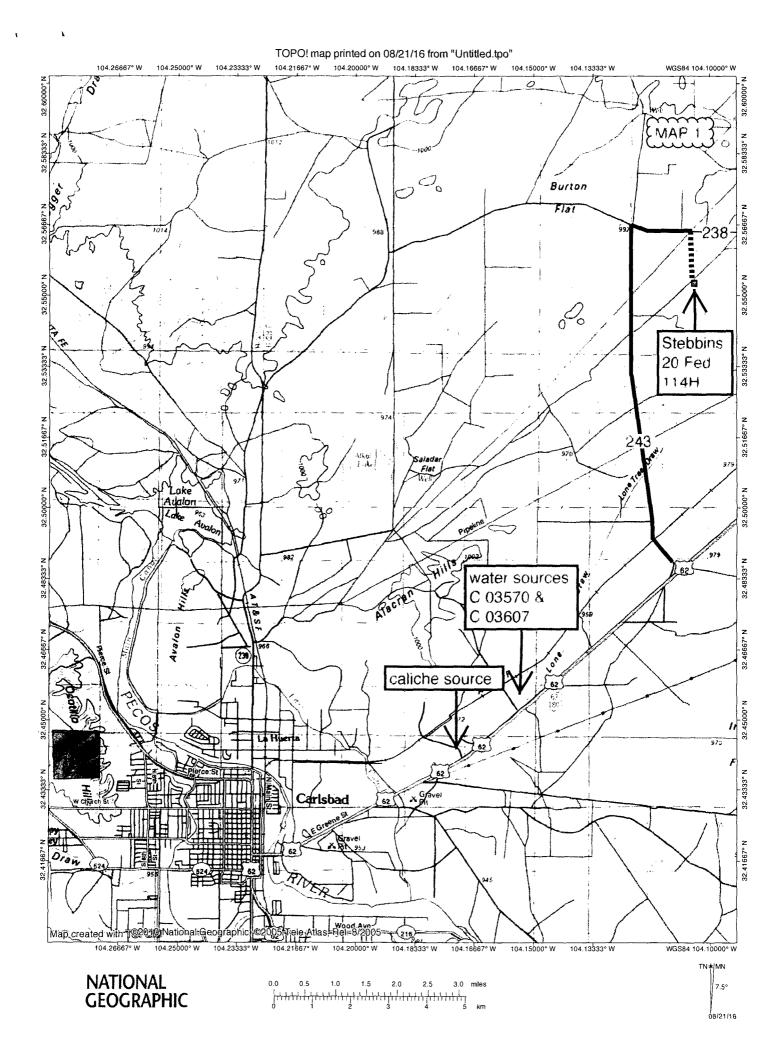


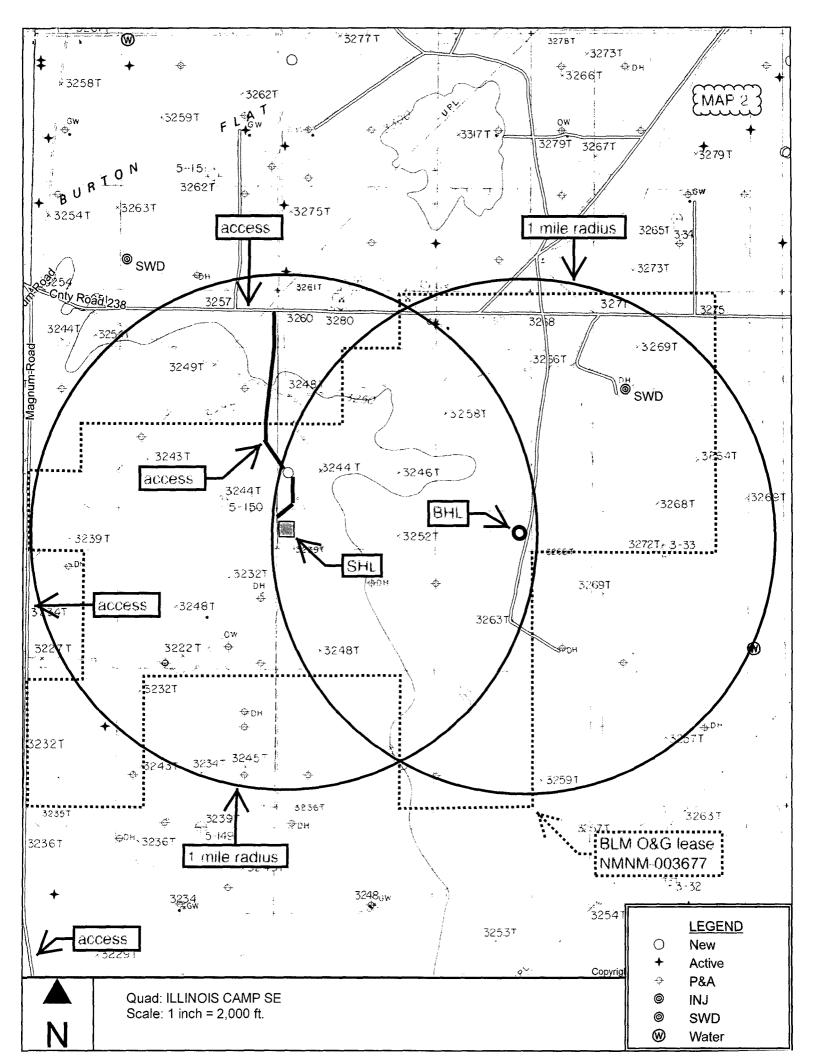
THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND REPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY MATADOR PRODUCTION COMPANY. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

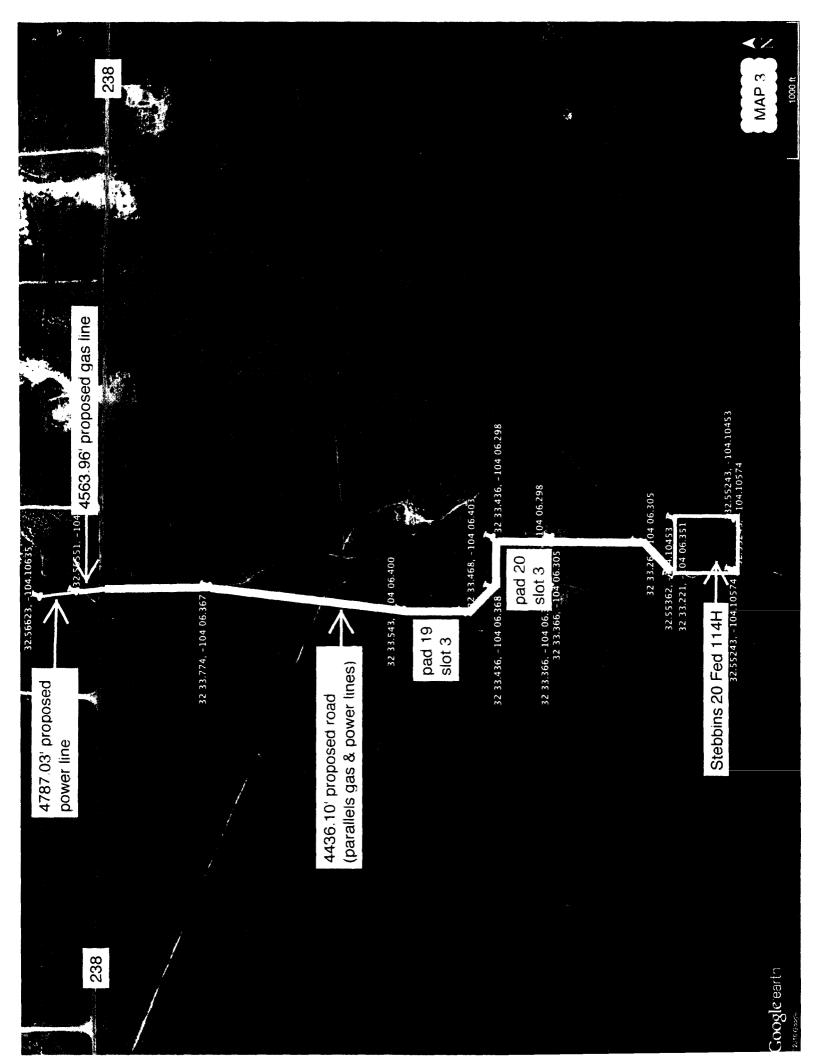
www.topographic.com

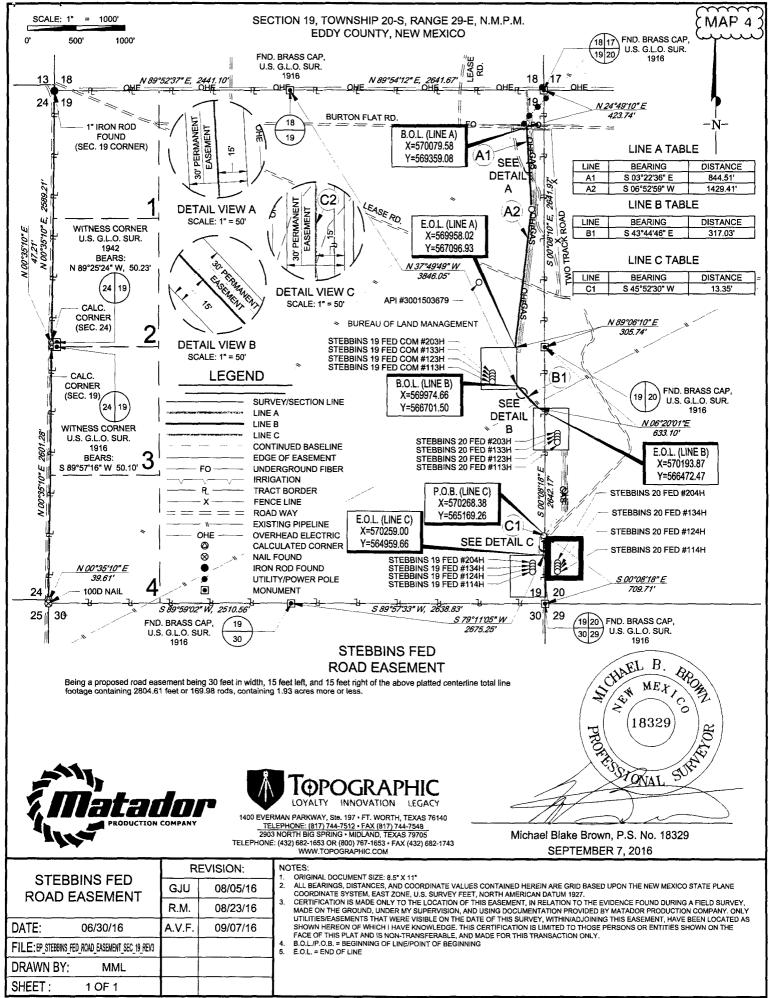
ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE OF THE NORTH AMERICAN DATUM 1927, U.S. SURVEY FEET.

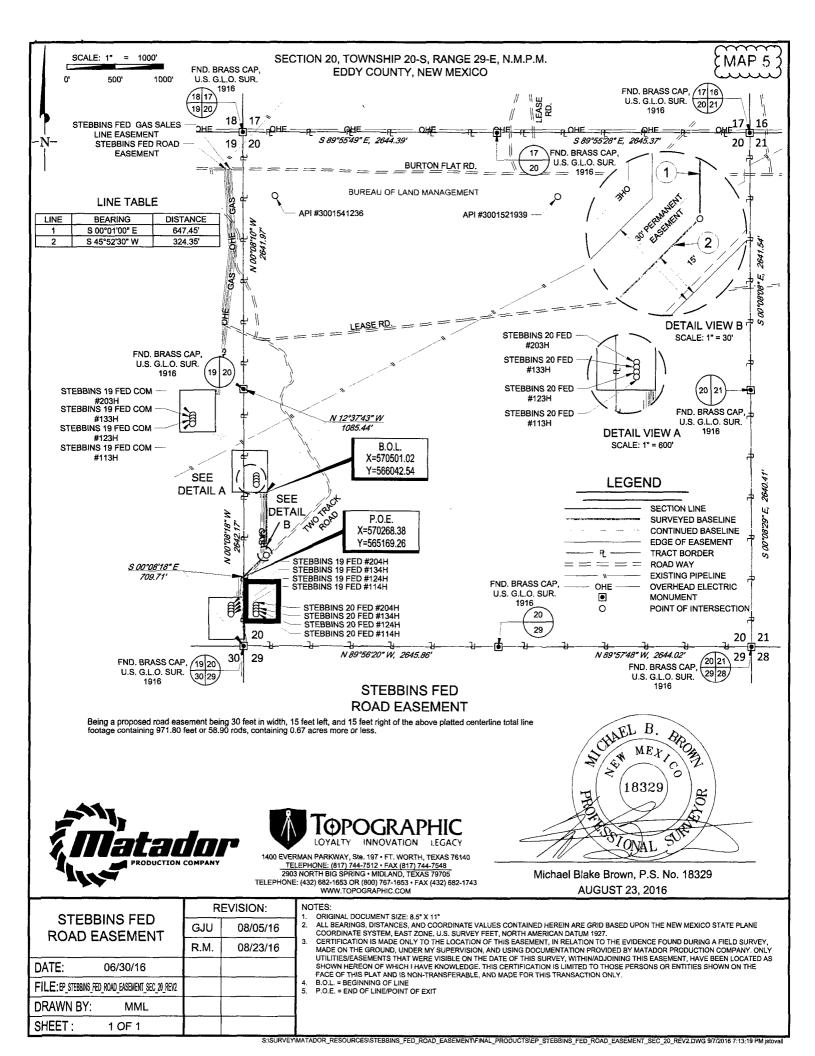


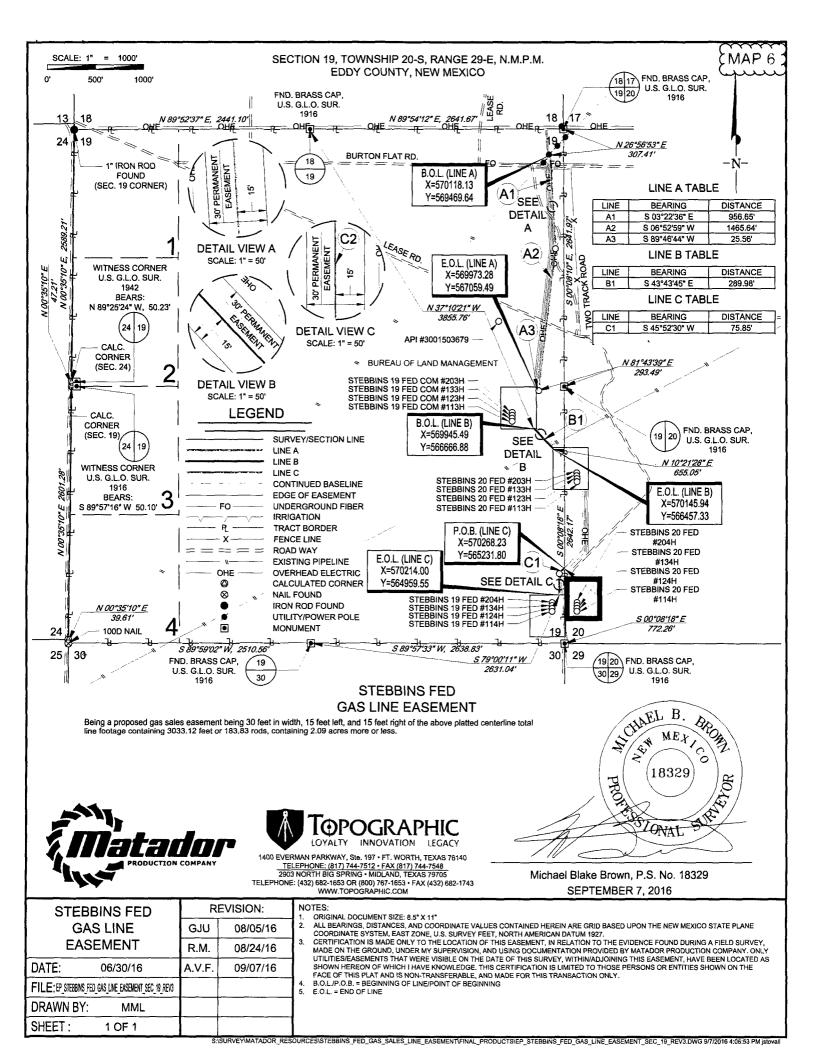


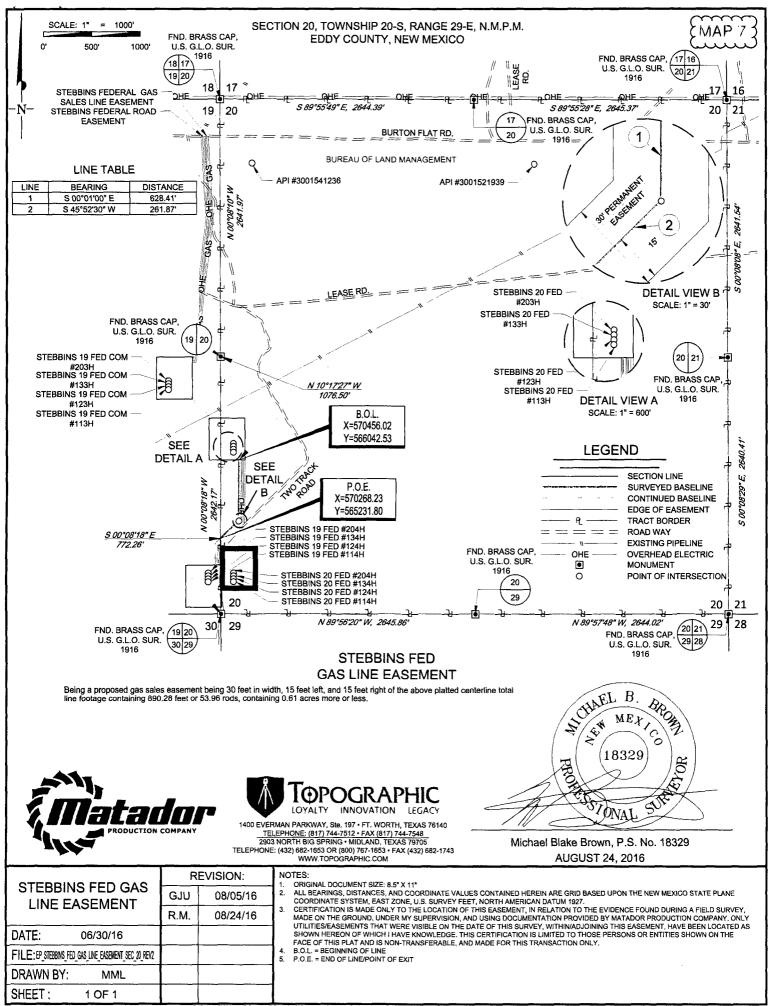


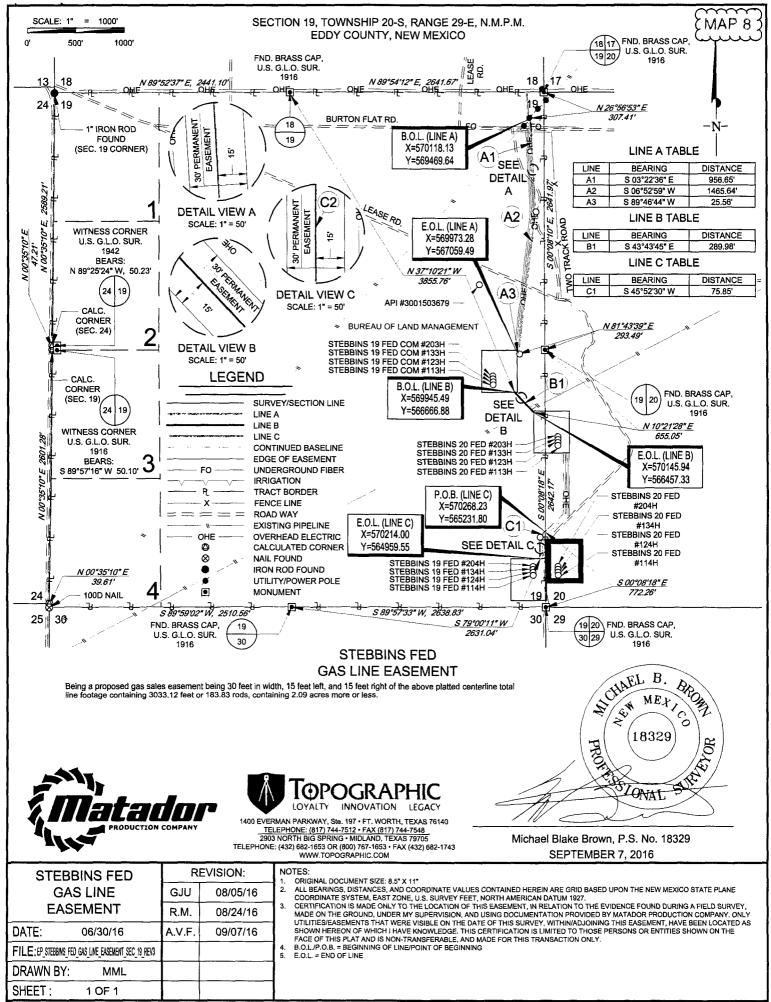




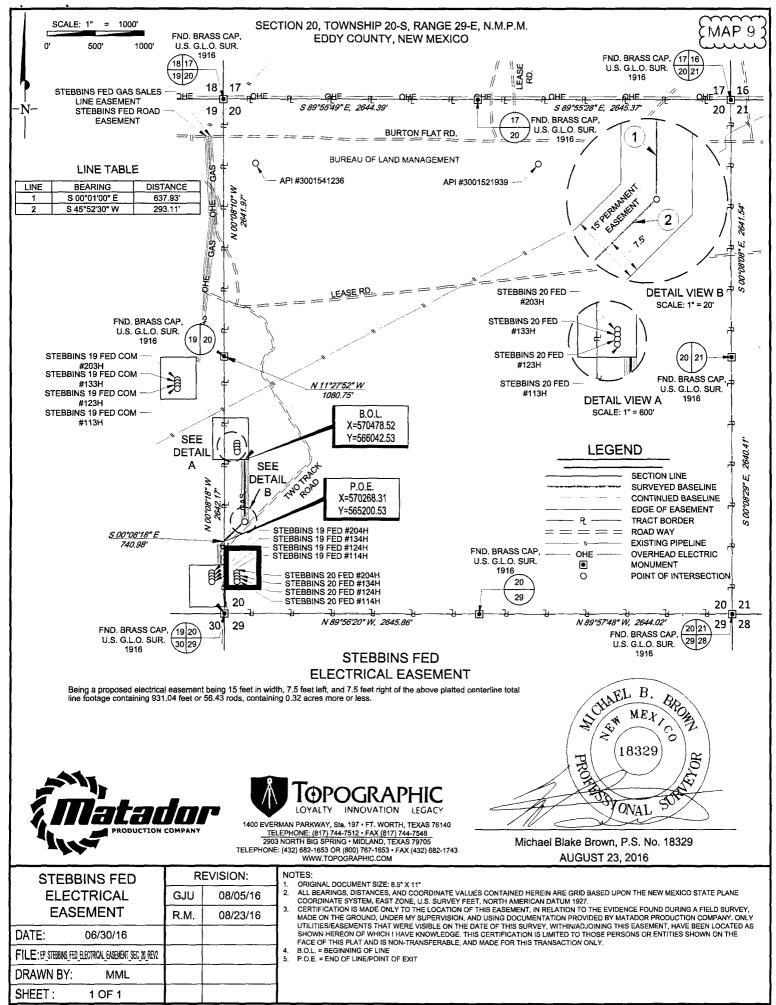








S.SURVEY:MATADOR_RESOURCES/STEBBINS_FED_GAS_SALES_LINE_EASEMENT/FINAL_PRODUCTS/EP_STEBBINS_FED_GAS_LINE_EASEMENT_SEC_19_REV3.DWG 9/7/2016 4:06:53 PM jstoval

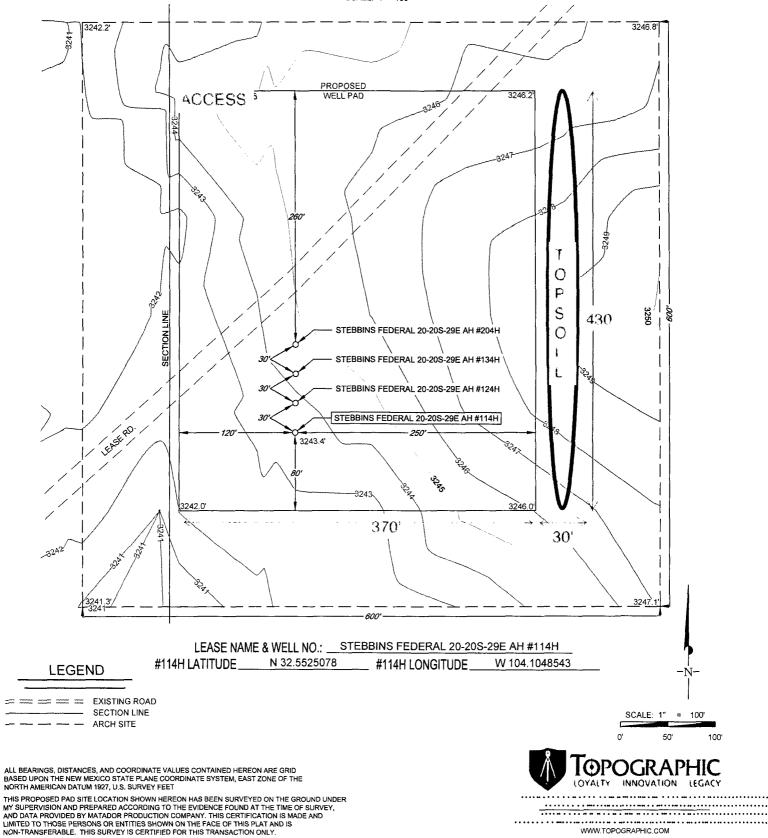




MAP 10

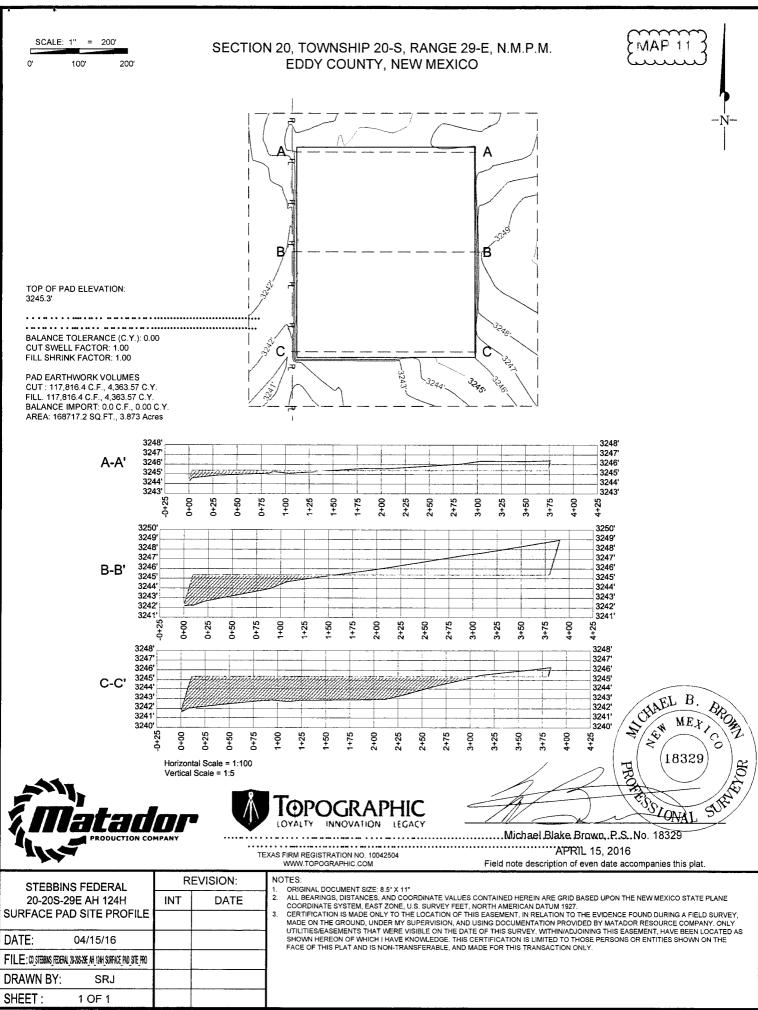
SECTION 20, TOWNSHIP 20-S, RANGE 29-E, N.M.P.M. EDDY COUNTY, NEW MEXICO

DETAIL VIEW SCALE: 1" = 100'



ORIGINAL DOCUMENT SIZE: 8.5" X 11"

WWW.TOPOGRAPHIC.COM



S\SURVEY\MATADOR_RESOURCES\STEBBINS_FEDERAL_20-205-29E_AH_124H_SURFACE_PAD_SITE/FINAL_PRODUCTS\CD_STEBBINS_FEDERAL_20-205-29E_AH_124H_SURFACE_PAD_SITE_PRO.DWG 4/20/2016 2:36.49 PM jstor

 Matador Production Company
 DRIL

 Stebbins 20 Fed 114H
 SHL 331' FSL & 130' FWL Sec. 20, T. 20 S., R. 29 E.

 BHL 330' FSL & 240' FEL Sec. 20, T. 20 S., R. 29 E.
 Eddy County, NM

Drilling Program

1. ESTIMATED TOPS

Formation Name	TVD	Bearing
Quaternary	Surface	water
Salado/Salt	440	salt
Yates	860	gypsum
Seven Rivers	1160	dolomite
Capitan Reef	1230	water
Cherry Canyon	3175	hydrocarbons
Brushy Canyon	4295	hydrocarbons
Bone Spring Lime	5775	hydrocarbons
1 st Bone Spring Carbonate	6460	hydrocarbons
1 st Bone Spring Sand	6970	hydrocarbons & goal
TD (MD = 11625)	7095	hydrocarbons

2. NOTABLE ZONES

First Bone Spring sand is the goal for this well. Hole will extend east of the last perforation point to allow for pump installation. All perforations will be \geq 330' from the dedication perimeter. Closest water well (C 03265) is 1984' to the north. Depth to water was 52' in this now dry 89' deep well.

3. PRESSURE CONTROL

Matador requests a variance for a speed head and for a 2000 psi annular to be installed after running 20" surface casing.



Matador Production Company DRIL Stebbins 20 Fed 114H SHL 331' FSL & 130' FWL Sec. 20, T. 20 S., R. 29 E. BHL 330' FSL & 240' FEL Sec. 20, T. 20 S., R. 29 E. Eddy County, NM

After 20" surface casing, a BOP stack consisting of 3 rams with 2 pipe rams, 1 blind ram, and 1 annular preventer will be installed. The BOP will be used below intermediate casing 1 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 by 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.

Intermediate 1 casing pressure tests will be made to 250 psi low and 2000 psi high. Intermediate 2 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 intermediate 1 casing and tested to 250 psi low and 2500 psi high on the intermediate 2 casing. In the case of running a speed head with landing mandrel for 9-5/8" casing, initial intermediate 1 casing test pressures will be 250 psi low and 3000 psi high, with wellhead seals tested to 5000 psi once the 9-5/8" casing has been landed and cemented.

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. The hose is not required by the manufacturer to be anchored. If the specific hose is not available, then one of equal or higher rating will be used.



Matador Production Company DRII Stebbins 20 Fed 114H SHL 331' FSL & 130' FWL Sec. 20, T. 20 S., R. 29 E. BHL 330' FSL & 240' FEL Sec. 20, T. 20 S., R. 29 E. Eddy County, NM

4. CASING & CEMENT

.

Hole O. D.	Set @ (MD)	Casing O. D.	Age	Weight (lb/ft)	Grade	Thread Collar	Collapse	Burst	Tension
26"	400'	20"	New	94	K-55	BTC	1.125	1.125	1.8
17.5"	1200'	13.375"	New	54.5	J-55	BTC	1.125	1.125	1.8
12.25"	3100'	9.625"	New	40	J-55	BTC	1.125	1.125	1.8
8.75"	11625'	5.5"	New	20	P-110	DWC/C	1.125	1.125	1.8

Casing Name	Туре	Sacks	Yield	Cu. Ft.	Weight	Blend	
Surface	Tail	873	1.38	1204	14.8	Class C + 5% NaCl + LCM	
TOC = GL		1	00% Exces	55	Centralizers per Onshore Order 2.III.B.1		
Intermediate 1	Lead	528	2.09	1103	12.6	Class C + Bentonite + 1% CaCl ₂ + 8% NaCl + LCM	
	Tail	302	1.38	416	14.8	Class C + 5% NaCl + LCM	
TOC = GL		1	00% Exces	SS	2 on btm jt, 1 on 2nd jt, 1 every 4th jt to G		
Intermediate 2	Lead	499	2.48	1237	11.9	Class C + Bentonite + 2% CaCl ₂ + 3% NaCl + LCM	
	Tail	308	1.26	388	14.4	Class C + 5% NaCl +	
TOC = GL		100% Excess			2 on btm jt, 1 on 2nd jt, 1 every 4th jt to 0		
Production	Lead	483	2.25	1086	11.5	TXI + Fluid Loss + Dispersant + Retarder + LCM	
	Tail	1507	1.38	2079	13.2	TXI + Fluid Loss + Dispersant + Retarder + LCM	
TOC = 210	0'	3	35% Exces	s	2 on btm jt, 1 on 2nd jt, 1 every other jt to top of tail cement (1000' above TOC)		



 Matador Production Company
 DRIL

 Stebbins 20 Fed 114H
 SHL 331' FSL & 130' FWL Sec. 20, T. 20 S., R. 29 E.

 BHL 330' FSL & 240' FEL Sec. 20, T. 20 S., R. 29 E.
 Eddy County, NM

5. MUD PROGRAM

An electronic Pason mud monitoring system satisfying the requirements of Onshore Order 1 will be used. All necessary mud products for weight addition and fluid loss control will be on location at all times. Mud program is subject to change due to hole conditions.

Name	Hole Size	Mud Weight	Visc	Fluid Loss	Type Mud
Surface	26"	8.4	28	NC	FW Spud Mud
Intermediate 1	17.5"	10.0	30-32	NC	Brine Water
Intermediate 2	12.25"	8.4 - 8.6	28-30	NC	Fresh Water
Production	8.75"	9.0	30-32	NC	FW/Cut Brine

6. <u>CORES, TESTS, & LOGS</u>

No core or drill stem test is planned.

A 2-person mud-logging program will be used from \approx 1200' to TD.

No electric logs are planned at this time. GR will be collected through the MWD tools from intermediate 2 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 \approx 3547 psi. Expected bottom hole temperature is \approx 135° F.

In accordance with Onshore Order 6, Matador does not anticipate that there will be enough H_2S from the surface to the Bone Spring to meet the BLM's minimum requirements for the submission of an " H_2S Drilling Operation Plan" or "Public Protection Plan" for the drilling and completion of this well. Since Matador has an H_2S safety package on all wells, an " H_2S Drilling Operations Plan" is attached.



 Matador Production Company
 DRIL

 Stebbins 20 Fed 114H
 SHL 331' FSL & 130' FWL Sec. 20, T. 20 S., R. 29 E.

 BHL 330' FSL & 240' FEL Sec. 20, T. 20 S., R. 29 E.
 Eddy County, NM

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 \approx 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.



Technical Specifications

Connection Type:
DWC/C-IS PLUS Casing
standard

VST P110 EC

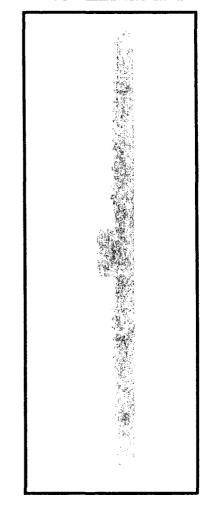
Size(O.D.):	
5-1/2 in	

Weight (Wall): 20.00 lb/ft (0.361 in)

Grade: VST P110 EC



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



Mi	nimum	١

Material

Grade

125.000 Minimum Yield Strength (psi) Minimum Ultimate Strength (psi) 135,000

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

- Minimum Pipe Body Yield Strength (lbs) 729.000
- Minimum Collapse Pressure (psi) 12.090
- 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 (sg in)
- Joint Efficiency (%) 100.0

Connection Performance Properties

- 729,000 Joint Strength (lbs) Reference String Length (ft) 1.4 Design Factor 26,040 728.000 API Joint Strength (lbs) 729,000 Compression Rating (lbs) API Collapse Pressure Rating (psi) 12,090 14,360 API Internal Pressure Resistance (psi)
 - Maximum Uniaxial Bend Rating [degrees/100 ft] 104.2

Appoximated 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)

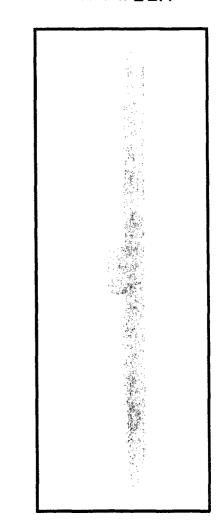
For detailed information on performance properties, refer to DWC Connection Data Notes on following page(s).

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.

All information is provided by VAM USA or its affiliates at user's sole risk, without liability for loss, damage or injury resulting from the use thereof, and on an "AS IS" basis without warranty or representation of any kind, whether express or implied, including without limitation any warranty of merchantability, fitness for purpose or completeness. This document and its contents are subject to change without notice. In no event shall VAM USA or its affiliates be responsible for any indirect, special, incidental, punitive, exemplary or consequential loss or damage (including without limitation, loss of use, loss of bargain, loss of revenue, profit or anticipated profit) however caused or arising, and whether such losses or damages were foreseeable or VAM USA or its affiliates was advised of the possibility of such damages.

DWC Connection Data Notes:

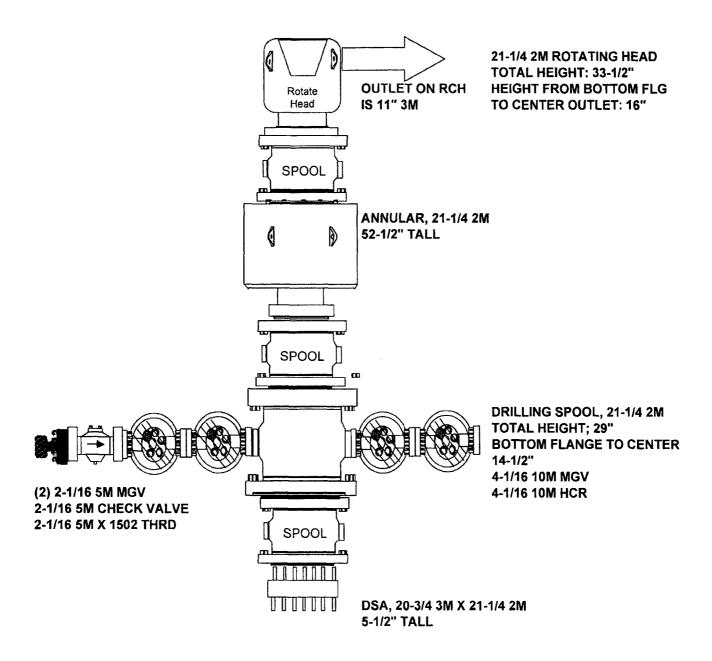
- 1. DWC connections are available with a seal ring (SR) option.
- 2. All standard DWC/C connections are interchangeable for a give pipe OD. DWC connections are interchangeable with DWC/C-SR connections of the same OD and wall.
- 3. Connection performance properties are based on nominal pipe body and connection dimensions.
- 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.
- 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.



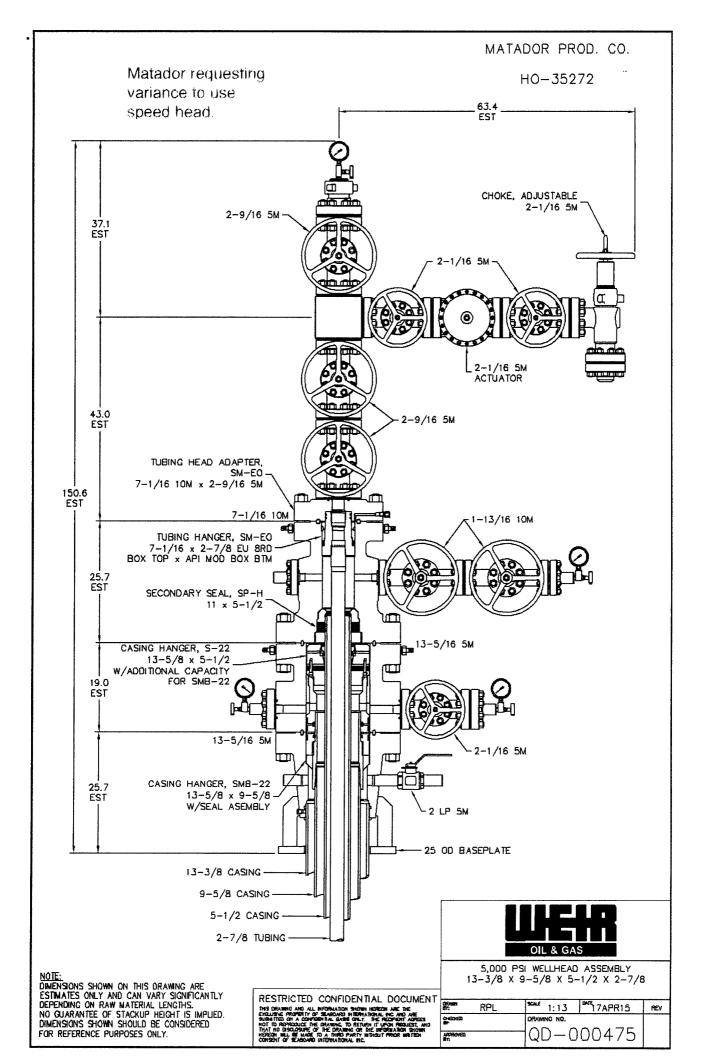
Connection specifications within the control of VAM USA were correct as of the date printed. Specifications are subject to change without notice. Certain connection specifications are dependent on the mechanical properties of the pipe. Mechanical properties of mill proprietary pipe grades were obtained 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.

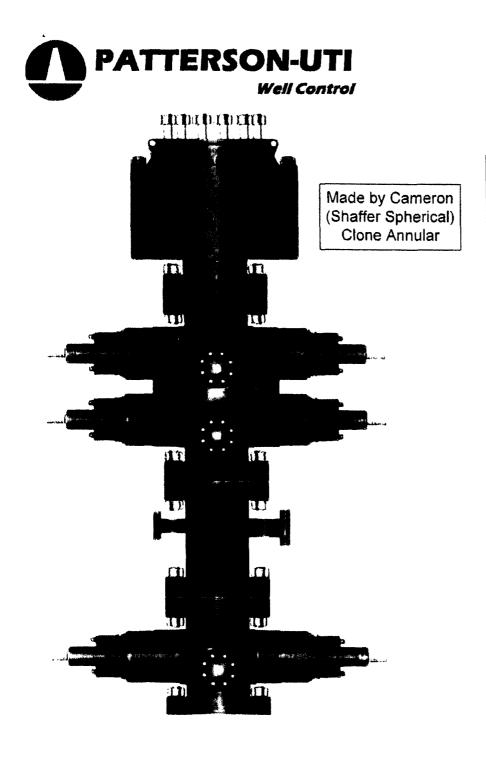
All information is provided by VAM USA or its affiliates at user's sole risk, without liability for loss, damage or injury resulting from the use thereof; and on an "AS IS" basis without warranty or representation of any kind, whether express or implied, including without limitation any warranty of merchantability, fitness for purpose or completeness. This document and its contents are subject to change without notice. In no event shall VAM USA or its affiliates be responsible for any indirect, special, incidental, punitive, exemplary or consequential loss or damage (including without limitation, loss of use, loss of bargain, loss of revenue, profit or anticipated profit) however caused or arising, and whether such losses or damages were foreseeable or VAM USA or its affiliates was advised of the possibility of such damages.

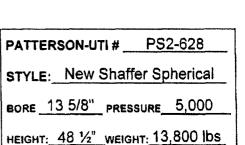
4/14/2015



SPOOL HEIGHTS CAN BE ADJUSTED AS NEEDED*



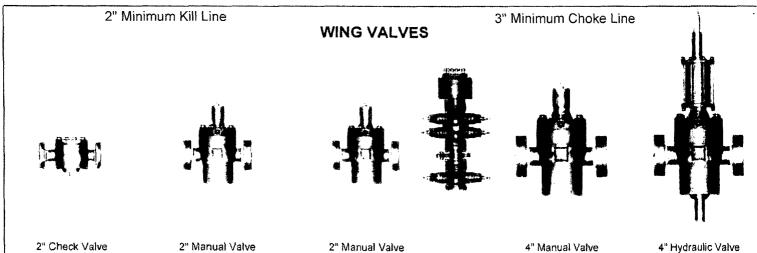


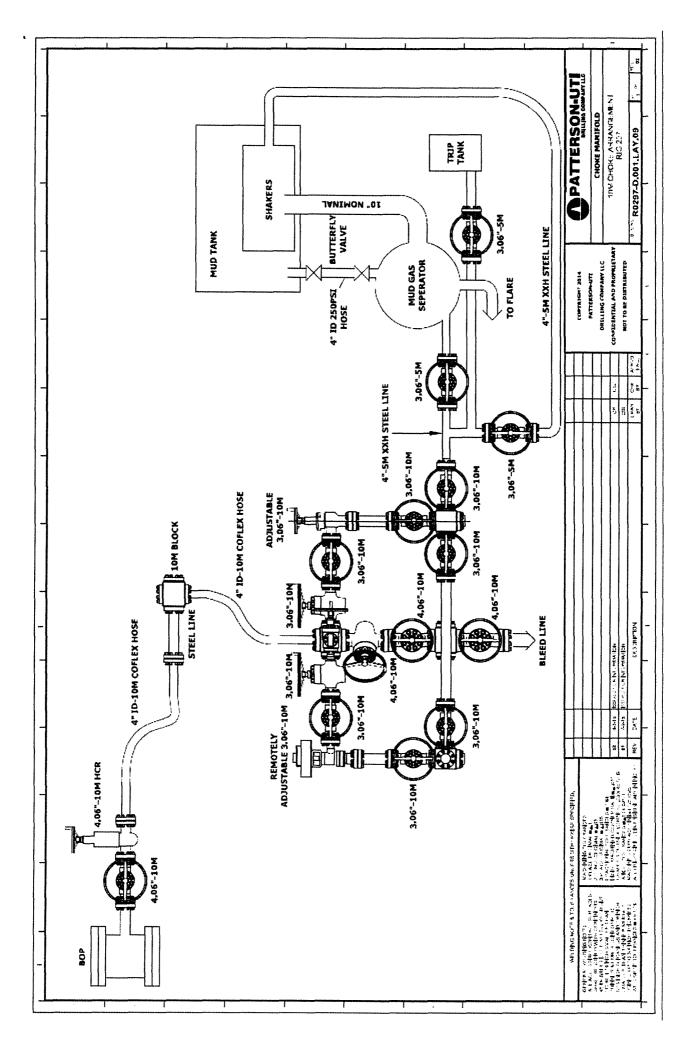


PATTERSON-UTI # PC2-128
STYLE: New Cameron Type U
BORE <u>13 5/8"</u> pressure <u>10,000</u>
RAMS: TOP 5" Pipe BTM Blinds
HEIGHT: 66 5/8" WEIGHT: 24,000 lbs

Length _	40" Outlets 4" 10	<u>л</u>
DSA	4" 10M x 2" 10M	

PATTERSON	N-UTI #	PC2-228
STYLE: N	ew Came	ron Type U
BORE 13 5/	/8"_ PRESS	ure 10,000
RAMS: 5	" Pipe	
неібнт: <u>41 </u> {	5/8" weigh	т: <u>13,000 lbs</u>





1.78 March 10, 2015

\$

,



Internal Hydrostatic 'Test Graph

Customer: Patterson B&E

Pick Ticket #: 296283

Coupling Method

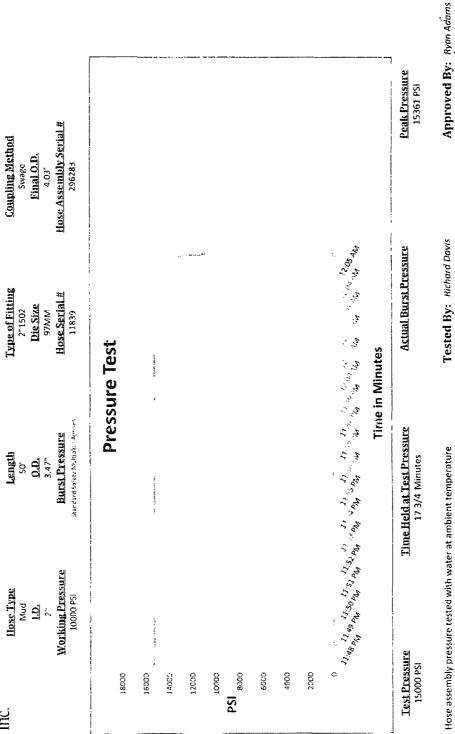
Length

Hose Type Mud

Hose Specifications

50'

<u>Verification</u>



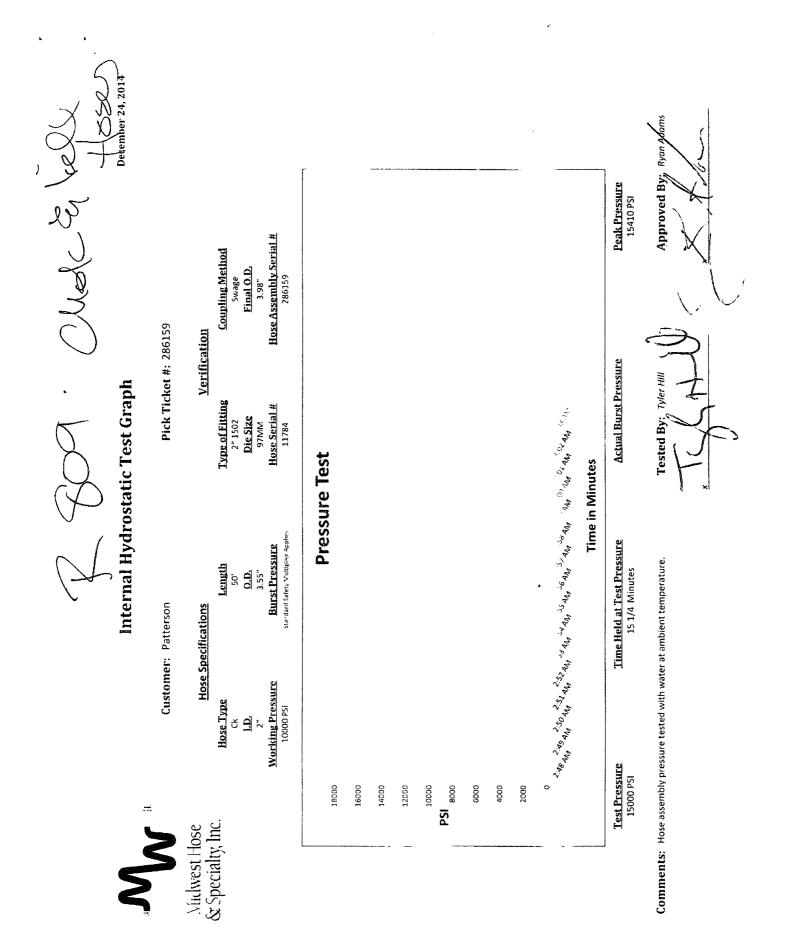
Comments: Hose assembly pressure tested with water at ambient temperature.

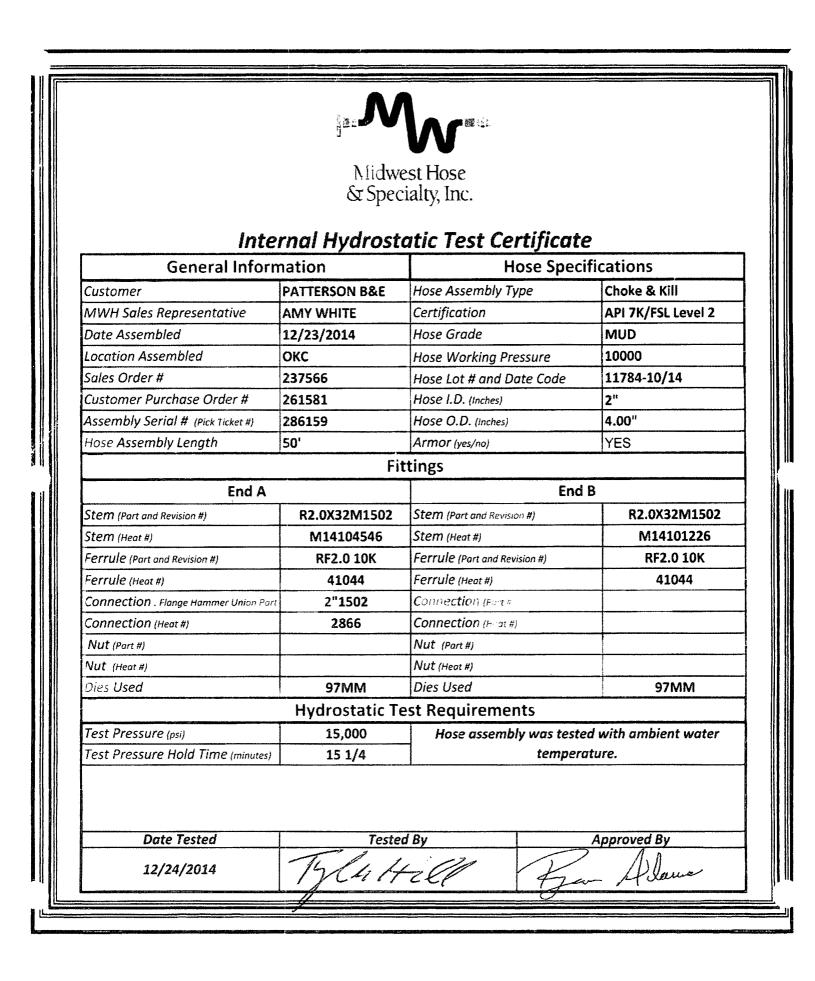
	Mida	est Hose	
		rialty, Inc.	
	Q opti	iany, inc.	
inte	ernal Hydrost	atic Test Certificat	ø
General Infor	ويستجد الدرية الجامعة أتبيهم بين أبد مناهية ما الكالا البهام بالمحبوطات	Hose Spec	
Customer	PATTERSON B&E	Hose Assembly Type	Choke & Kill
MWH Sales Representative	AMY WHITE	Certification	API 7K/FSL Level 2
Date Assembled	3/10/2015	Hose Grade	MUD
Location Assembled	ОКС	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
	Fi	ttings	
End A	1997	End	B
Stem (Part and Revision #)	R2.0X32M15U2	Stena (nart and Havinian #)	RF2.0 32F1502
Stem (Heat #)	14104546	Stem (-:eat #)	A144853
	RF2.0 10K	Ferrule (Part and Revision #)	RF2.0 10K
Ferrule (Part and Revision #)			
	41044	Ferrule (Heat #)	41044
Ferrule (Heat #)		Ferrule (Heat #) Connection a art #	41044
Ferrule (Heat #) Connection . Flange Harrimer Union Pa			41044
Ferrule (Heat #) Connection . Flange Harrimer Union Pa		Connection and an	41044
Ferrule (Part and Revision #) Ferrule (Heat #) Connection . Flange Hammer Union Pa Connection (Heat #) Nut (Part #) Nut (Heat #)	rt	Connection (Far M) Connection (Heat M)	41044
Ferrule (Heat #) Connection . Flange Hammer Union Pa Connection (Heat #) Nut (Part #)	rt	Connection (Fart 4) Connection (Heat 11) Nut (Part #)	41044
Ferrule (Heat #) Connection . Flange Hammer Union Pa Connection (Heat #) Nut (Part #) Nut (Heat #)	2" 1502 H2S Э7№М	Connection (Farth) Connection (Heat # Nut (Part#) Nut (Heat#)	
Ferrule (Heat #) Connection . Flange Hammer Union Pa Connection (Heat #) Nut (Part #) Nut (Heat #)	2" 1502 H2S Э7№М	Connection (Farth) Connection (Heat # Nut (Part#) Nut (Heat#) Dies Used	97MM

, .

Ş ti k	
	fidwest Hose Specialty, Inc.
Certifica	ate of Conformity
Customer: PATTERSON B&E Customer P.O.# 270590	
Sales Order # 245805	Date Assembled: 3/10/2015
Sp	pecifications
Hose Assembly Type: Choke & Kill	
Assembly Serial # 296283	Hose Lot # and Date Code 11839-11/14
Hose Working Pressure (psi) 10000	Test Pressure (psi) 15000
to the requirements of the purchase order and c Supplier: Midwest Hose & Specialty, Inc. 3312 S I-35 Service Rd Oklahoma City, OK 73129	lied for the referenced purchase order to be true according current industry standards.
to the requirements of the purchase order and c Supplier: Midwest Hose & Specialty, Inc. 3312 S I-35 Service Rd	• • •
to the requirements of the purchase order and c Supplier: Midwest Hose & Specialty, Inc. 3312 S I-35 Service Rd Oklahoma City, OK 73129	• • •

MHSI-009 Rev.0.0 Proprietary





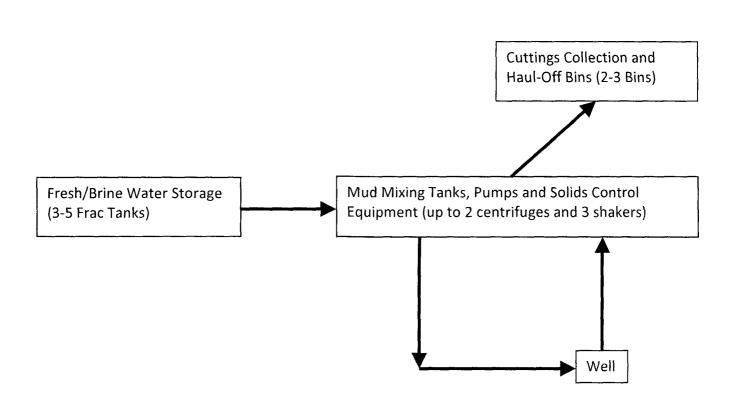
	lwest Hose becialty, Inc.
Certificat	te of Conformity
Customer: PATTERSON B&E	Customer P.O.# 261581
Sales Order # 237566	Date Assembled: 12/23/2014
Spe	cifications
Hose Assembly Type: Choke & Kill	
Assembly Serial # 286159	Hose Lot # and Date Code 11784-10/14
Hose Working Pressure (psi) 10000	Test Pressure (psi) 15000
Ve hereby certify that the above material supplied o the requirements of the purchase order and cur upplier: Aidwest Hose & Specialty, Inc. 1 312 S I-35 Service Rd	d for the referenced purchase order to be true according rent industry standards.
Oklahoma City, OK 73129	

MHSI-009 Rev.0.0 Proprietary

		vest Hose cialty, Inc.	
		atic Test Certificat	<i>'E</i>
GeneralInfo	mation	Hose Spe	ifications
Customer	PATTERSON B&E	Hose Assembly Type	Choke & Kill
MWH Sales Representative	AMY WHITE	Certification	AP1 7K/FS1 Level 2
Date Assembled	3/10/2015	Hose Grade	MUD
Location Assembled	ОКС	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
	1993年1月1日第1日	TINES	
End A		Enc	
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 . Flonge Hommer Union Pa		Connection (Port #)	
Connection (Heat #)	20 4522 1122	Connection (Heat #)	
Nut (Part #) Nut (Heat #)	2° 1502 H2S	Nut (Port #)	
Dies Used	97MM	Nut (Heot #) Dies Used	97MM
		est Requirements	
Test Pressure (psi)			ad with an bigat water
Test Pressure Hold Time (minutes)	15,000 17 3/4	Hose assembly was tested with ambient water temperature.	
Date Tested	Teste		Approved By
3/10/2015			Delana

Closed-Loop System

Matador Production Company Stebbins wells 20-20S-29E Eddy County, NM

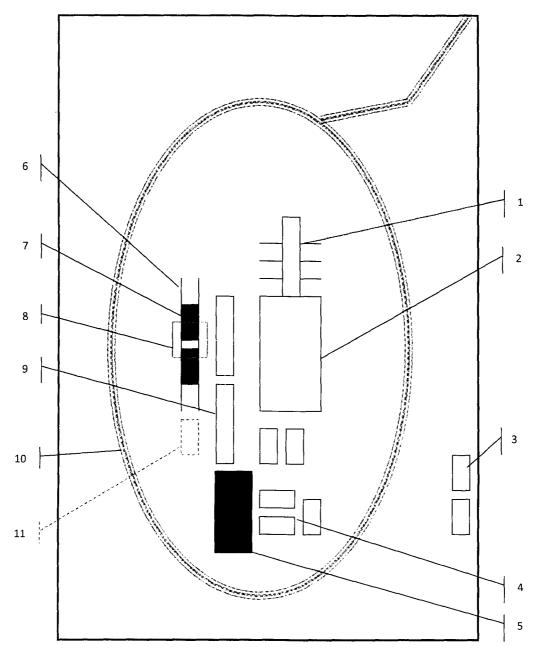


Operating and Maintenance Plan:

During drilling operations, third party service companies will utilize solids control equipment to remove cuttings from the drilling fluids and collect it in haul-off bins. Equipment will be closely monitored at all times while drilling by the derrick man and the service company employees.

Closure Plan:

During drilling operations, third party service companies will haul off drill solids and fluids to an approved disposal facility. At the end of the well, all closed loop equipment will be removed from the location.

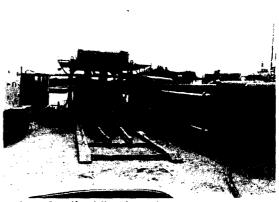


Schematic Closed Loop Drilling Rig*

- 1. Pipe Rack
- 2. Drili Rig
- 3. House Trailers/ Offices
- 4. Generator/Fuel/Storage
- 5. Overflow-Frac Tank
- 6. Skids
- 7. Roll Offs
- 8. Hopper or Centrifuge
- 9. Mud Tanks
- 10. Loop Drive
- 11. Generator (only for use with centrifuge)

*Not drawn to scale: Closed loop system requires at least 30 feet beyond mud tanks. Ideally 60 feet would be available





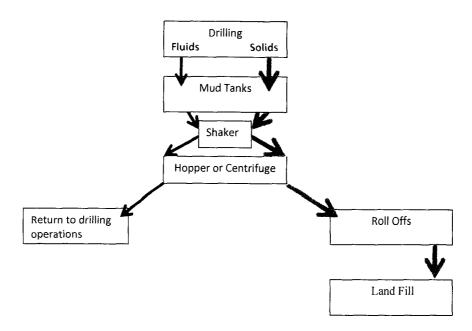
Above: Centrifugal Closed Loop System



.

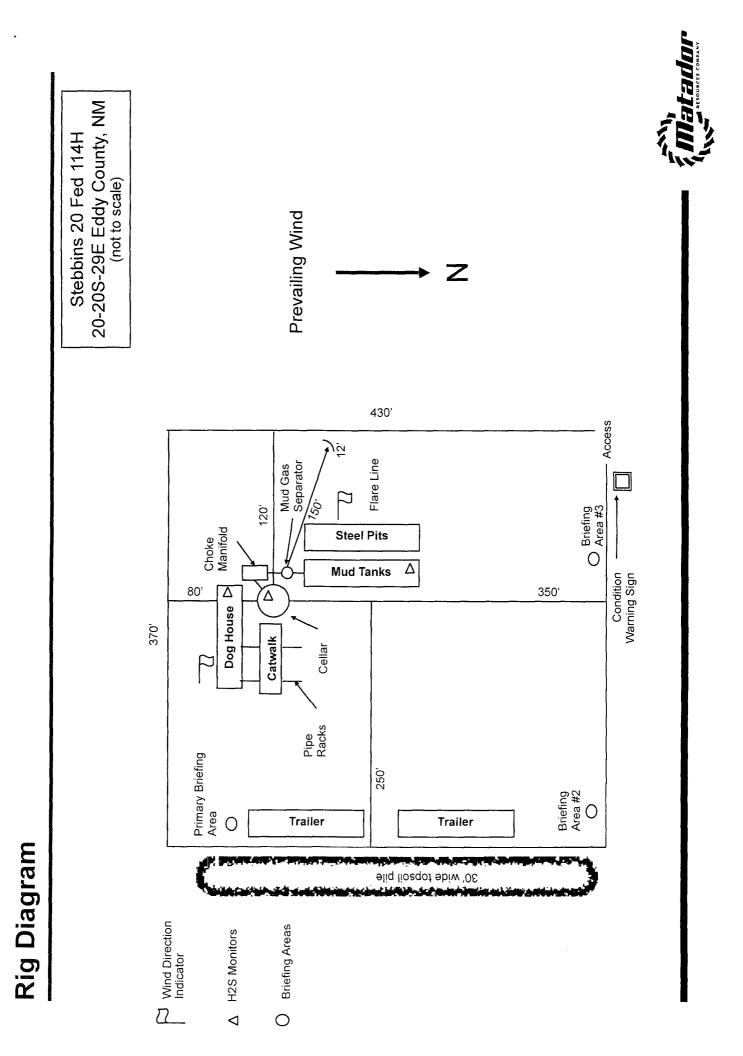
Closed Loop Drilling System: Mud tanks to right (1) Hopper in air to settle out solids (2) Water return pipe (3) Shaker between hopper and mud tanks (4) Roll offs on skids (5)

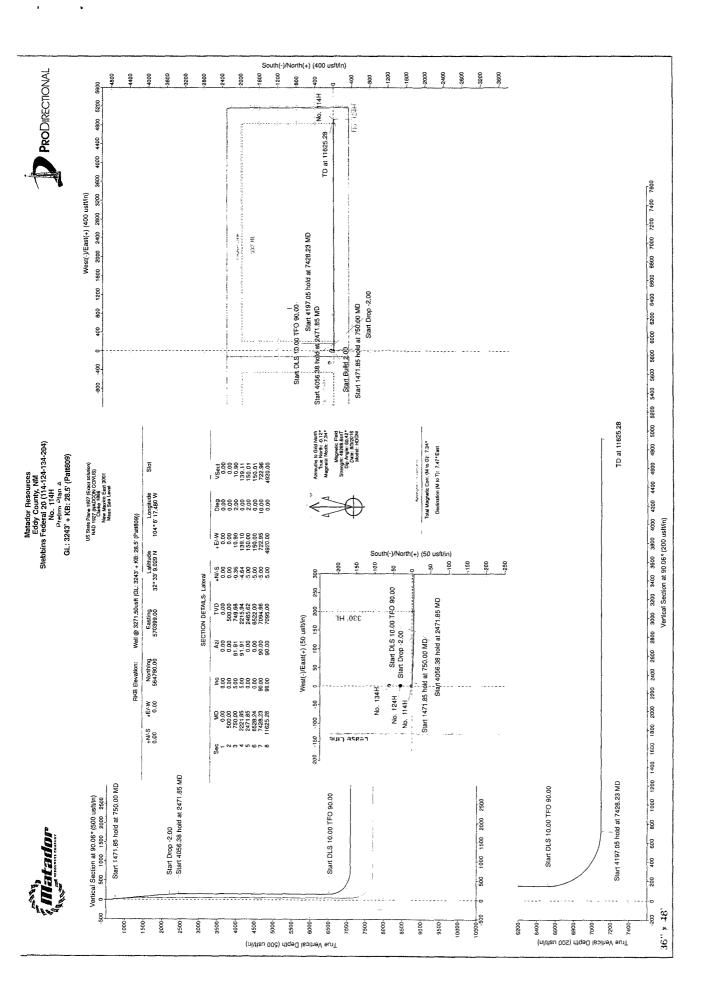
Flow Chart for Drilling Fluids and Solids



Photos Courtesy of Gandy Corporation Oil Field Service







200 B
2 Matador
ARSOUNCES COMPANY
ult-

.

Pro Directional

Survey Report



Company: Project:	Matador Resour Eddy County, N			Local Co-ordinate TVD Reference:	Reference:	Site Stebbins Federa Well @ 3271.50usft (
Site:		v I 20 (114-124-134	-204)	MD Reference:		(Patt809)) Well @ 3271.50usft (
QICC.	Olebbilits i edela	20 (114-124-104	204)	mp Reference.		(Patt809))	OE. 0240 • ND.	20.0
Well:	No. 114H			North Reference:		Grid		
Wellbore:	OH			Survey Calculation	n Method:	Minimum Curvature		
Design:	Prelim Plan A			Database:		Well_Planner1		
Project	Eddy Count	y, NM						
Map System: Geo Datum:		ne 1927 (Exact so IADCON CONUS)	,	System Datum:		Mean Sea Level		
Map Zone:	New Mexico	East 3001						
Site	Stebbins Fe	ederal 20 (114-124	4-134-204)					
Site Position:			Northing:	564,790.0	0 usft Latitu	de:		32° 33' 9.029 N
From:	Мар		Easting:	570,399.0				104° 6' 17.480 W
Position Uncerta	inty:	3.30 usft	Slot Radius:	13-3/1	6 "Grid C	Convergence:		0.12 °
Well	No. 114H							
Well Position	+N/-S	0.00 usft	Northing:	56	4,790.00 usft	Latitude:		32° 33' 9.029 N
	+E/-W	0.00 usft	Easting:		0,399.00 usft	Longitude:		104° 6' 17.480 W
Position Uncerta		1.10 usft	Wellhead Elev		0.00 usft	Ground Level:		3,243.00 usft
Wellbore	он			-			-	_
Manualian	Model	M+	Sample Date	Declination			Field Stre	
Magnetics	Model	Name	Sample Date	(°)		Dip Angle (°)	(nT)	ngui
		HDGM	8/3/2016		7.47	60.42		48,289
Design	Prelim Plan	A						
Audit Notes:								
Version:			Phase:	PLAN	Tie On De	pth:		0.00
Vertical Section:			rom (TVD) isft)	+N/-S (usft)	+E/-W (usft)	Direc (°		
			0.00	0.00	0.00		90.06	
Survey Tool Prog	nam	Date 8/3/20)16					
	g							
From	То							

Planned Survey

0.00

11,625.28 Prelim Plan A (OH)

	Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1
1	100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	(
	200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	•
1	300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	•
I	400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00	1
	500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	
I	600.00	2.00	91.91	599.98	-0.06	1.74	1.74	2.00	2.00	0.00	
	700.00	4.00	91.91	699.84	-0.23	6.97	6.97	2.00	2.00	0.00	
i 	750.00	5.00	91.91	749.68	-0.36	10.90	10.90	2.00	2.00	0.00	

MWD - OWSG

MWD - OWSG



Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Site Stebbins Federal 20 (114-124-134-204)
Project:	Eddy County, NM	TVD Reference:	Well @ 3271.50usft (GL: 3243' + KB: 28.5' (Patt809))
Site:	Stebbins Federal 20 (114-124-134-204)	MD Reference:	Well @ 3271.50usft (GL: 3243՝ + KB: 28.5' (Patt809))
Well:	No. 114H	North Reference:	Grid
Wellbore:	ОН	Survey Calculation Method:	Minimum Curvature
Design:	Prelim Plan A	Database:	Well_Planner1

· Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
800.00	5.00	91.91	799.49	-0.51	15.25	15.25	0.00	0.00	0.00
900.00	5.00	91.91	899.11	-0.80	23.96	23.96	0.00	0.00	0.00
1,000.00	5.00	91.91	998.73	-1.09	32.67	32.67	0.00	0.00	0.00
1,100.00	5.00	91.91	1,098.35	-1.38	41.38	41.38	0.00	0.00	0.00
1,200.00	5.00	91.91	1,197.97	-1.67	50.09	50.10	0.00	0.00	0.00
1,300.00	5.00	91.91	1,297.59	-1.96	58.80	58.81	0.00	0.00	0.00
1,400.00	5.00	91.91	1,397.21	-2.25	67.52	67.52	0.00	0.00	0.00
1,500.00	5.00	91.91	1,496.83	-2.54	76.23	76.23	0.00	0.00	0.00
1,600.00	5.00	91.91	1,596.45	-2.83	84.94	84.94	0.00	0.00	0.00
1,700.00	5.00	91.91	1,696.07	-3.12	93.65	93.65	0.00	0.00	0.00
1,800.00	5.00	91.91	1,795.69	-3.41	102.36	102.36	0.00	0.00	0.00
1,900.00	5.00	91.91	1,895.31	-3.70	111.07	111.07	0.00	0.00	0.00
2,000.00	5.00	91.91	1,994.93	-3.99	119.78	119.78	0.00	0.00	0.00
2,100.00	5.00	91.91	2,094.55	-4.28	128.49	128.49	0.00	0.00	0.00
2,200.00	5.00	91.91	2,194.17	-4.57	137.20	137.21	0.00	0.00	0.00
2,221.85	5.00	91.91	2,215.94	-4.64	139.10	139.11	0.00	0.00	0.00
2,300.00	3.44	91.91	2,293.87	-4.83	144.85	144.85	2.00	-2.00	0.00
2,400.00	1.44	91.91	2,393.77	-4.97	149.10	149.10	2.00	-2.00	0.00
2,471.85	0.00	0.00	2,465.62	-5.00	150.00	150.01	2.00	-2.00	0.00
2,500.00	0.00	0.00	2,493.76	-5.00	150.00	150.01	0.00	0.00	0.00
2,600.00	0.00	0.00	2,593.76	-5.00	150.00	150.01	0.00	0.00	0.00
2,700.00	0.00	0.00	2,693.76	-5.00	150.00	150.01	0.00	0.00	0.00
2,800.00	0.00	0.00	2,793.76	-5.00	150.00	150.01	0.00	0.00	0.00
2,900.00	0.00	0.00	2,893.76	-5.00	150.00	150.01	0.00	0.00	0.00
3,000.00	0.00	0.00	2,993.76	-5.00	150.00	150.01	0.00	0.00	0.00
3,100.00	0.00	0.00	3,093.76	-5.00	150.00	150.01	0.00	0.00	0.00
3,200.00	0.00	0.00	3,193.76	-5.00	150.00	150.01	0.00	0.00	0.00
3,300.00	0.00	0.00	3,293.76	-5.00	150.00	150.01	0.00	0.00	0.00
3,400.00	0.00	0.00	3,393.76	-5.00	150.00	150.01	0.00	0.00	0.00
3,500.00	0.00	0.00	3,493.76	-5.00	150.00	150.01	0.00	0.00	0.00
3,600.00	0.00	0.00	3,593.76	-5.00	150.00	150.01	0.00	0.00	0.00
3,700.00	0.00	0.00	3,693.76	-5.00	150.00	150.01	0.00	0.00	0.00
3,800.00	0.00	0.00	3,793.76	-5.00	150.00	150.01	0.00	0.00	0.00
3,900.00	0.00	0.00	3,893.76	-5.00	150.00	150.01	0.00	0.00	0.00
4,000.00	0.00	0.00	3,993.76	-5.00	150.00	150.01	0.00	0.00	0.00
4,100.00	0.00	0.00	4,093.76	-5.00	150.00	150.01	0.00	0.00	0.00
4,200.00	0.00	0.00	4,193.76	-5.00	150.00	150.01	0.00	0.00	0.00
								0.00	0.00
4,300.00	0.00	0.00	4,293.76	-5.00	150.00	150.01	0.00		
4,400.00	0.00	0.00	4,393.76	-5.00	150.00	150.01	0.00	0.00	0.00
4,500.00	0.00	0.00	4,493.76	-5.00	150.00	150.01	0.00	0.00	0.00
4,600.00	0.00	0.00	4,593.76	-5.00	150.00	150.01	0.00	0.00	0.00
4,700.00	0.00	0.00	4,693.76	-5.00	150.00	150.01	0.00	0.00	0.00

Matador

Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Site Stebbins Federal 20 (114-124-134-204)
Project:	Eddy County, NM	TVD Reference:	Well @ 3271.50usft (GL: 3243' + KB: 28.5' (Patt809))
Site:	Stebbins Federal 20 (114-124-134-204)	MD Reference:	Well @ 3271.50usft (GL: 3243' + KB: 28.5' (Patt809))
Well:	No. 114H	North Reference:	Grid
Wellbore:	ОН	Survey Calculation Method:	Minimum Curvature
Design:	Prelim Plan A	Database:	Well_Planner1
*			

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,800.00	0.00	0.00	4,793.76	-5.00	150.00	150.01	0.00	0.00	0.00
4,900.00	0.00	0.00	4,893.76	-5.00	150.00	150.01	0.00	0.00	0.00
5,000.00	0.00	0.00	4,993.76	-5.00	150.00	150.01	0.00	0.00	0.00
5,100.00	0.00	0.00	5,093.76	-5.00	150.00	150.01	0.00	0.00	0.00
5,200.00	0.00	0.00	5,193.76	-5.00	150.00	150.01	0.00	0.00	0.00
5,300.00	0.00	0.00	5,293.76	-5.00	150.00	150.01	0.00	0.00	0.00
5,400.00	0.00	0.00	5,393.76	-5.00	150.00	150.01	0.00	0.00	0.00
5,500.00	0.00	0.00	5,493.76	-5.00	150.00	150.01	0.00	0.00	0.00
5,600.00	0.00	0.00	5,593.76	-5.00	150.00	150.01	0.00	0.00	0.00
5,700.00	0.00	0.00	5,693.76	-5.00	150.00	150.01	0.00	0.00	0.00
5,800.00	0.00	0.00	5,793.76	-5.00	150.00	150.01	0.00	0.00	0.00
5,900.00	0.00	0.00	5,893.76	-5.00	150.00	150.01	0.00	0.00	0.00
6,000.00	0.00	0.00	5,993.76	-5.00	150.00	150.01	0.00	0.00	0.00
6,100.00	0.00	0.00	6,093.76	-5.00	150.00	150.01	0.00	0.00	0.00
6,200.00	0.00	0.00	6,193.76	-5.00	150.00	150.01	0.00	0.00	0.00
6,300.00	0.00	0.00	6,293.76	-5.00	150.00	150.01	0.00	0.00	0.00
6,400.00	0.00	0.00	6,393.76	-5.00	150.00	150.01	0.00	0.00	0.00
6,500.00	0.00	0.00	6,493.76	-5.00	150.00	150.01	0.00	0.00	0.00
6,528.24	0.00	0.00	6,522.00	-5.00	150.00	150.01	0.00	0.00	0.00
6,550.00	2.18	90.00	6,543.76	-5.00	150.41	150.42	10.00	10.00	0.00
6,600.00	7.18	90.00	6,593.58	-5.00	154.49	154.49	10.00	10.00	0.00
6,650.00	12.18	90.00	6,642.85	-5.00	162.89	162.90	10.00	10.00	0.00
6,700.00	17.18	90.00	6,691.20	-5.00	175.55	175.56	10.00	10.00	0.00
6,750.00	22.18	90.00	6,738.27	-5.00	192.38	192.39	10.00	10.00	0.00
6,800.00	27.18	90.00	6,783.69	-5.00	213.25	213.26	10.00	10.00	0.00
6,850.00	32.18	90.00	6,827.12	-5.00	238.00	238.00	10.00	10.00	0.00
6,900.00	37.18	90.00	6,868.22	-5.00	266.44	266.44	10.00	10.00	0.00
6,950.00	42.18	90.00	6,906.69	-5.00	298.35	298.35	10.00	10.00	0.00
7,000.00	47.18	90.00	6,942.24	-5.00	333.49	333.50	10.00	10.00	0.00
7,050.00	52.18	90.00	6,974.58	-5.00	371.60	371.61	10.00	10.00	0.00
7,100.00	57.18	90.00	7,003.48	-5.00	412.38	412.39	10.00	10.00	0.00
7,150.00	62.18	90.00	7,028.72	-5.00	455.53	455.53	10.00	10.00	0.00
7,200.00	67.18	90.00	7,050.10	-5.00	500.71	500.72	10.00	10.00	0.00
7,250.00	72.18	90.00	7,067.46	-5.00	547.58	547.59	10.00	10.00	0.00
7,300.00	77.18	90.00	7,080.67	-5.00	595.79	595.80	10.00	10.00	0.00
7,350.00	82.18	90.00	7,089.62	-5.00	644.97	644.97	10.00	10.00	0.00
7,400.00	87.18	90.00	7,094.26	-5.00	694.73	694.74	10.00	10.00	0.00
7,428.23	90.00	90.00	7,094.96	-5.00	722.95	722.96	10.00	10.00	0.00
7,500.00	90.00	90.00	7,094.96	-5.00	794.72	794.73	0.00	0.00	0.00
7,600.00	90.00	90.00	7,094.96	-5.00	894.72	894.73	0.00	0.00	0.00
7,700.00	90.00	90.00	7,094.96	-5.00	994.72	994,73	0.00	0.00	0.00
7,800.00	90.00	90.00	7,094.96	-5.00	1,094.72	1,094.73	0.00	0.00	0.00



Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Site Stebbins Federal 20 (114-124-134-204)
Project:	Eddy County, NM	TVD Reference:	Well @ 3271.50usft (GL: 3243' + KB: 28.5' (Patt809))
Site:	Stebbins Federal 20 (114-124-134-204)	MD Reference:	Well @ 3271.50usft (GL: 3243' + KB: 28.5' (Patt809))
Well:	No. 114H	North Reference:	Grid
Wellbore:	ОН	Survey Calculation Method:	Minimum Curvature
Design:	Prelim Plan A	Database:	Well_Planner1

Planned Survey

leasured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,900.00	90.00	90.00	7,094.96	-5.00	1,194.72	1,194.73	0.00	0.00	0.00
8,000.00	90.00	90.00	7,094.96	-5.00	1,294.72	1,294.73	0.00	0.00	0.00
8,100.00	90.00	90.00	7,094.96	-5.00	1,394.72	1,394.73	0.00	0.00	0.00
8,200.00	90.00	90.00	7,094.97	-5.00	1,494.72	1,494.73	0.00	0.00	0.00
8,300.00	90.00	90.00	7,094.97	-5.00	1,594.72	1,594.73	0.00	0.00	0.00
8,400.00	90.00	90.00	7,094.97	-5.00	1,694.72	1,694.73	0.00	0.00	0.00
8,500.00	90.00	90.00	7,094.97	-5.00	1,794.72	1,794.73	0.00	0.00	0.00
8,600.00	90.00	90.00	7,094.97	-5.00	1,894.72	1,894.73	0.00	0.00	0.00
8,700.00	90.00	90.00	7,094.97	-5.00	1,994.72	1,994.73	0.00	0.00	0.00
8,800.00	90.00	90.00	7,094.97	-5.00	2,094.72	2,094.73	0.00	0.00	0.00
8,900.00	90.00	90.00	7,094.97	-5.00	2,194.72	2,194.73	0.00	0.00	0.00
9,000.00	90.00	90.00	7,094.97	-5.00	2,294.72	2,294.73	0.00	0.00	0.00
9,100.00	90.00	90.00	7,094.97	-5.00	2,394.72	2,394.73	0.00	0.00	0.00
9,200.00	90.00	90.00	7,094.98	-5.00	2,494.72	2,494.73	0.00	0.00	0.00
9,300.00	90.00	90.00	7,094.98	-5.00	2,594.72	2,594.73	0.00	0.00	0.00
9,400.00	90.00	90.00	7,094.98	-5.00	2,694.72	2,694.73	0.00	0.00	0.00
9,500.00	90.00	90.00	7,094.98	-5.00	2,794.72	2,794.73	0.00	0.00	0.00
9,600.00	90.00	90.00	7,094.98	-5.00	2,894.72	2,894.73	0.00	0.00	0.00
9,700.00	90.00	90.00	7,094.98	-5.00	2,994.72	2,994.73	0.00	0.00	0.00
9,800.00	90.00	90.00	7,094.98	-5.00	3,094.72	3,094.73	0.00	0.00	0.00
9,900.00	90.00	90.00	7,094.98	-5.00	3,194.72	3,194.73	0.00	0.00	0.00
10,000.00	90.00	90.00	7,094.98	-5.00	3,294.72	3,294.73	0.00	0.00	0.00
10,100.00	90.00	90.00	7,094.98	-5.00	3,394.72	3,394.73	0.00	0.00	0.00
10,200.00	90.00	90.00	7,094.99	-5.00	3,494.72	3,494.73	0.00	0.00	0.00
10,300.00	90.00	90.00	7,094.99	-5.00	3,594.72	3,594.73	0.00	0.00	0.00
10,400.00	90.00	90.00	7,094.99	-5.00	3,694.72	3,694.73	0.00	0.00	0.00
10,500.00	90.00	90.00	7,094.99	-5.00	3,794.72	3,794.73	0.00	0.00	0.00
10,600.00	90.00	90.00	7,094.99	-5.00	3,894.72	3,894.73	0.00	0.00	0.00
10,700.00	90.00	90.00	7,094.99	-5.00	3,994.72	3,994.73	0.00	0.00	0.00
10,800.00	90.00	90.00	7,094.99	-5.00	4,094.72	4,094.73	0.00	0.00	0.00
10,900.00	90.00	90.00	7,094.99	-5.00	4,194.72	4,194.73	0.00	0.00	0.00
11,000.00	90.00	90.00	7,094.99	-5.00	4,294.72	4,294.73	0.00	0.00	0.00
11,100.00	90.00	90.00	7,094.99	-5.00	4,394.72	4,394.73	0.00	0.00	0.00
11,200.00	90.00	90.00	7,095.00	-5.00	4,494.72	4,494.73	0.00	0.00	0.00
11,300.00	90.00	90.00	7,095.00	-5.00	4,594.72	4,594.73	0.00	0.00	0.00
11,400.00	90.00	90.00	7,095.00	-5.00	4,694.72	4,694.73	0.00	0.00	0.00
11,500.00	90.00	90.00	7,095.00	-5.00	4,794.72	4,794.73	0.00	0.00	0.00
11,600.00	90.00	90.00	7,095.00	-5.00	4,894.72	4,894.73	0.00	0.00	0.00
11,625.28	90.00	90.00	7,095.00	-5.00	4,920.00	4,920.00	0.00	0.00	0.00



Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Site Stebbins Federal 20 (114-124-134-204)
Project:	Eddy County, NM	TVD Reference:	Well @ 3271.50usft (GL: 3243' + KB: 28.5' (Patt809))
Site:	Stebbins Federal 20 (114-124-134-204)	MD Reference:	Well @ 3271.50usft (GL: 3243' + KB: 28.5' (Patt809))
Well:	No. 114H	North Reference:	Grid
Wellbore:	ОН	Survey Calculation Method:	Minimum Curvature
Design:	Prelim Plan A	Database:	Well_Planner1

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
[StebFed20#114H]LPP - plan misses target - Point	0.00 center by 483	0.00 0.00usft at 0	0.00 .00usft MD ((-5.00 0.00 TVD, 0.0	4,830.00 0 N, 0.00 E)	564,785.00	575,229.00	32° 33' 8.873 N	104° 5' 21.048 W
[StebFed20#114H]FPP - plan misses target - Point	0.00 center by 202.	0.00 91usft at 70	7,095.00 00.00usft ME	-1.00) (6942.24 TV	200.00 D, -5.00 N, 33	564,789.00 33.49 E)	570,599.00	32° 33' 9.015 N	104° 6' 15.143 W
[StebFed20#114H]BHL - plan hits target cen - Point	0.00 ter	0.00	7,095.00	-5.00	4,920.00	564,785.00	575,319.00	32° 33' 8.871 N	104° 5' 19.997 W
Checked By:				Approved	By:			Date:	



٢

Pro Directional

Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 114H
Project:	Eddy County, NM	TVD Reference:	Well @ 3271.50usft (GL: 3243' + KB: 28.5' (Patt809))
Reference Site:	Stebbins Federal 20 (114-124-134-204)	MD Reference:	Well @ 3271.50usft (GL: 3243' + KB: 28.5' (Patt809))
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	No. 114H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.10 usft	Output errors are at	2.00 sigma
Reference Wellbore	ОН	Database:	Well_Planner1
Reference Design:	Prelim Plan A	Offset TVD Reference:	Offset Datum
Reference	Prelim Plan A		
Filter type:	NO GLOBAL FILTER: Using user defined selectio	n & filtering criteria	
Interpolation Method:	MD Interval 100.00usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 1,875.15 usft	Error Surface:	Elliptical Conic
Warning Levels Evalua	ated at: 2.00 Sigma	Casing Method:	Not applied
Survey Tool Program	Date 8/3/2016		
From	То		

(usft)	(lo (usft)	Survey (Wellbore)	Tool Name	Description
(0.00	11,625.28	Prelim Plan A (OH)	MWD - OWSG	MWD - OWSG

	Reference	Offset	Dista	nce		
Site Name Offset Well - Wellbore - Design	Measured Depth (usft)	Measured Depth (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning
Stebbins Federal 20 (114-124-134-204)						
No. 124H - OH - Prelim Plan A	1,197.45	1,199.24	9.38	1.05	1.126 Leve	el 2, CC
No. 124H - OH - Prelim Plan A	1,200.00	1,201.78	9.38	1.03	1.124 Leve	el 2, ES, SF
No. 134H - OH - Prelim Plan A	792.30	795.48	53.98	48.37	9.614 CC,	ES
No. 134H - OH - Prelim Plan A	6,500.00	6,498.03	200.00	154.38	4.384 SF	
No. 204H - OH - Prelim Plan Aa	772.86	774.06	86.73	81.24	15.795 CC,	ES
No. 204H - OH - Prelim Plan Aa	6,600.00	6,600.01	304.49	258.23	6.583 SF	

Offset De	esign	Stebbin	s Federal	20 (114-124	1-134-204	l) - No. 124	H - OH - Prelia	n Plan A					Offset Sile Error:	0.00 ut
arvey Prog		WD - OWSG											Offset Well Error:	1 10 u
Refer		Offse		Semi Major					Dista					
feasured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (*)	Offset Wellbor +N/-S (usft)	e Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.00	0.00	1.00	1.00	1.10	1.10	0.00	30.00	0.00	30.00					
100.00	100.00	101.00	101.00	1.11	1.11	0.00	30.00	0.00	30.00	27.78	2.22	13.542		
200.00	200.00	201.00	201.00	1.20	1.20	0.00	30.00	0.00	30.00	27.59	2.41	12,463		
300.00	300.00	301.00	301.00	1.39	1.39	0.00	30.00	0.00	30.00	27.22	2.78	10.805		
400.00	400.00	401.00	401.00	1.63	1.63	0.00	30.00	0.00	30.00	26.74	3.26	9.192		
500.00	500.00	501.01	501.01	1.91	1.91	0.00	30.00	0.00	30.00	26.18	3.82	7.846		
600.00	599.98	601.60	601.58	2.21	2.21	-92.48	28.97	1,48	29.03	24.62	4.41	6.577		
700.00	699.84	702.13	701.96	2.51	2.51	-94.56	25.91	5.84	26.19	21.17	5.03	5.210		
800.00	799.49	802.28	801.76	2.84	2.83	-98.98	21.14	12.66	21.83	16.16	5.67	3.849		
900.00	899.11	902.16	901.26	3.18	3.17	-105.98	16.14	19.79	17.48	11.15	6.34	2.759		
1,000.00	998.73	1,002.03	1,000.76	3.53	3.51	-117.30	11.15	26.93	13.56	6.55	7.01	1.935		
1,100.00	1,098.35	1,101.91	1,100.25	3.88	3.87	-136.27	6.16	34.06	10.55	2.88	7.67	1.375 Le	vel 3	
1,197.45	1,195.43	1,199.24	1,197.21	4.24	4.22	-163.52	1.30	41.01	9.38	1.05	8.33	1.126 Le [,]	vel 2, CC	
1,200.00	1,197.97	1,201.78	1,199.75	4.24	4.23	-164.29	1.17	41.19	9.38	1.03	8.35	1.124 Le	vel 2, ES, SF	
1,300.00	1,297.59	1,301.36	1,299.07	4.61	4.58	174.14	-2.79	46.84	12.01	2.94	9.06	1.325 Le	vel 3	
1,400.00	1,397.21	1,400.78	1,398.44	4.98	4.93	170.08	-4.76	49.65	18.04	8.28	9.76	1.848		
1,500.00	1,496.83	1,500.18	1,497.83	5.35	5.26	172.71	-5.00	50.00	26.34	15.90	10.44	2.524		
1,600.00	1,596.45	1,599.80	1,597.45	5.72	5.59	174.52	-5.00	50.00	35.00	23.88	11.12	3.147		
1,700.00	1,696.07	1,699.42	1,697.07	6.09	5.93	175.61	-5.00	50.00	43.69	31.88	11.81	3.699		
1,800.00	1,795.69	1,799.03	1,796.69	6.47	6.27	176.34	-5.00	50.00	52.38	39.88	12.50	4.189		

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 114H
Project:	Eddy County, NM	TVD Reference:	Well @ 3271.50usft (GL: 3243' + KB: 28.5'
			(Patt809))
Reference Site:	Stebbins Federal 20 (114-124-134-204)	MD Reference:	Well @ 3271.50usft (GL: 3243' + KB: 28.5' (Patt809))
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	No. 114H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.10 usft	Output errors are at	2.00 sigma
Reference Wellbore	ОН	Database:	Well_Planner1
Reference Design:	Prelim Plan A	Offset TVD Reference:	Offset Datum
-			

0.00 usft Stebbins Federal 20 (114-124-134-204) - No. 124H - OH - Prelim Plan A Offset Site Error: **Offset Design** 0-MWD - OWSG Survey Program: Offset Well Error: 1.10 usft Reference Offset Semi Major Axis Distance Offset Measured Vertical Reference Offset Wellbore Centre Measured Vertical Highside Betw Between Minimum Separation Warning Depth Depth Depth Depth Toolface Centres Ellipses Separation Factor +N/-S +E/-W (usft) (usft) (usft) (usft) (usft) (usft) (*) (usft) (usft) (usft) (usft) (usft) 1,900.00 1.898.65 1,896.31 6.61 176.86 47.88 1.895.31 6.84 -5.00 50.00 61.08 13.20 4.628 2.000.00 1,994.93 1.998.27 1 995 93 7 22 6.95 177 25 -5.00 50.00 69.79 55.89 13.90 5.021 2,100.00 2,097.89 2,095.55 7.60 7.30 2,094.55 177.56 -5.00 50.00 78.49 63.89 14.60 5.376 2,197.51 2,195.17 7.97 7.64 71.90 2,200.00 2,194.17 177.80 50.00 87.20 15.30 5.699 -5.00 2.300.00 2.293.87 2.297.22 2,294.87 8.35 7.99 177.98 -5.00 50.00 94.85 78.84 16.01 5.926 2,400.00 2,393.77 2,397.12 2,394.77 8.71 8.34 178.07 50.00 99.10 82.39 16.71 -5.00 5.931 2 500 00 2 493 76 2 497.11 2,494.76 9.05 8 68 -90.00 -5.00 50.00 100.00 82 60 17 40 5 746 2,600.00 2,593.76 2,597.11 2.594.76 9.38 9.03 -90.00 50.00 100.00 81.91 18.09 5.526 -5.00 2,700.00 2,693.76 2,697.11 2.694.76 9.71 9.39 -90.00 -5.00 50.00 100.00 81.21 18.79 5.322 2 797.11 2.794.76 10.05 9.74 2 800 00 2 793 76 -90.00 -5.00 50.00 100.00 80.52 1948 5.132 2,900.00 2,893.76 2,897.11 2.894.76 10.39 10.09 -90.00 -5.00 50.00 100.00 79.82 20.18 4.955 10.73 100.00 3.000.00 2 993.76 2 997.11 2.994.76 10.44 -90.00 -5.00 50.00 79.12 20.88 4.789 3,100.00 3,093.76 3,097.11 3.094.76 11.07 10.79 -90.00 -5.00 50.00 100.00 78.42 21.58 4,634 3,200.00 3,193.76 3,197.11 3,194.76 11.41 11.15 -90.00 -5.00 50.00 100.00 77.72 22.28 4.488 3.297.11 3,294.76 11.76 11.50 -90.00 -5.00 100.00 77.02 22.98 4.351 3.300.00 3.293.76 50.00 3,400.00 3,393.76 3,397.11 3.394.76 12.10 11.85 -90.00 -5.00 50.00 100.00 76 32 23 68 4 222 3.500.00 3.493.76 3.497.11 3,494.76 12.44 12.21 -5.00 100.00 75.61 24.39 -90.00 50.00 4.100 3.600.00 3.593.76 3.597.11 3.594.76 12.79 12.56 -90.00 -5.00 50.00 100.00 74.91 25.09 3.985 3,700.00 3,697.11 3,694.76 100.00 3,693.76 13.14 12.91 -90.00 -5.00 50.00 74.20 25.80 3.876 3,797.11 3,794.76 13.48 13.27 100.00 73.50 26.50 3,800.00 3,793,76 -90.00 -5.00 50.00 3.773 3.900.00 3.893.76 3.897.11 3.894.76 13.83 13.62 -90.00 -5.00 50.00 100.00 72.79 27.21 3.675 3,994.76 4,000.00 3,993.76 3,997.11 14.18 13.98 -90.00 -5.00 50.00 100.00 72.08 27.92 3.582 4.100.00 4.093.76 4.097.11 4 094 76 14.53 14.33 -90.00 -5.00 50.00 100.00 71.38 28.62 3 4 9 4 4,194.76 4,200.00 4,193.76 4,197.11 14.88 14.69 -90.00 -5.00 50.00 100.00 70.67 29.33 3.409 4,300.00 4,293.76 4,297.11 4,294.76 15.23 15.04 -90.00 -5.00 100.00 69.96 30.04 3.329 50.00 4,400.00 4.393.76 4.397.11 4,394.76 15.58 15.40 -90.00 -5.00 50.00 100.00 69.25 30.75 3.252 4,494,76 15.93 100.00 4,500.00 4,493.76 4,497.11 15.76 -90.00 -5.00 50.00 68.54 3.179 31.46 4 600 00 4 593 76 4 597.11 4.594.76 16.28 16.11 -90.00 -5.00 50.00 100.00 67.83 32 17 3 109 4,700.00 4,693.76 4,697.11 4.694.76 16.63 16.47 -90.00 -5.00 50.00 100.00 67.12 32.88 3.042 4,800.00 4,793,76 4,797.11 4,794.76 16.98 16.82 -90.00 -5.00 50.00 100.00 66.41 33.59 2.977 4,894.76 4,897.11 4,900.00 4,893.76 17.33 17.18 -90.00 -5.00 50.00 100.00 65.70 34.30 2.916 5,000.00 4,993.76 4,997.11 4,994.76 17.68 17.54 -90.00 -5.00 50.00 100.00 64.99 35.01 2.857 5,100.00 5,093.76 5,097.11 5.094.76 18.03 17.89 -90.00 -5.00 50.00 100.00 64.28 35.72 2.800 5,194.76 5.197.11 18.25 -5.00 63.57 2.745 5.200.00 5.193.76 18.39 -90.00 50.00 100.00 36.43 5,300.00 5,293.76 5,297.11 5 294 76 18 74 18.61 -90.00 -5.00 50.00 100.00 62.86 37.14 2.693 5,400.00 5,393.76 5,397.11 5,394.76 19.09 18.96 -90.00 -5.00 50.00 100.00 62.15 37.85 2.642 5.500.00 5.493.76 5.497.11 5 494 76 19.44 19.32 -90.00 -5.00 50.00 100.00 61 44 38 56 2 593 5,600.00 5,593.76 5,597.11 5.594.76 19.80 19.68 -90.00 -5.00 50.00 100.00 60.73 39.27 2.546 5,700.00 5,693.76 5,697.11 5,694.76 20.15 20.03 -90.00 -5.00 50.00 100.00 60.01 39.99 2.501 5.800.00 5.793.76 5.797.11 5.794.76 20.50 20.39 -90.00 -5.00 50.00 100.00 59.30 40.70 2.457 20.75 5,900.00 5,893.76 5,897.11 5,894.76 20.86 -90.00 -5.00 50.00 100.00 58.59 41.41 2.415 6.000.00 5.993.76 5 997.11 5.994.76 21 21 21 10 -90.00 -5.00 50.00 100.00 57.88 42 12 2 374 6,100.00 6,093.76 6.097.11 6,094.76 21.57 21.46 -90.00 -5.00 50.00 100.00 57.16 42.84 2.334

> -5.00 CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

-5.00

-5.00

-5.00

-5.00

-5.00

-5.00

-5.00

100.00

100.00

100.00

100.00

104.49

125 55

163.25

216.44

50.00

50.00

50.00

50.00

50.00

50.00

50.00

50.00

56.45

55.74

55.03

54.31

58.09

78 46

115.50

168.08

43.55

44.26

44.97

45.69

46,40

47 10

47.76

48.35

2.296

2.259

2.223

2.189

2.252

2 666

3.418

4.476

6,200.00

6.300.00

6,400.00

6,500.00

6,600.00

6 700 00

6,800.00

6,900.00

6,193.76

6,293.76

6.393.76

6,493.76

6,593.58

6 691 20

6,783.69

6.868.22

6,197.11

6,297.11

6.397.11

6,497.11

6,596.92

6 694.55

6,787.04

6,871.57

6,194.76

6 294 76

6,394.76

6.494.76

6,594.58

6.692.20

6.784.69

6,869.22

21.92

22 27

22.63

22.98

23.34

23 72

24.14

24.61

21.82

22 17

22.53

22.89

23.25

23.59

23.92

24.23

-90.00

-90.00

-90.00

-90.00

180.00

180.00

180.00

180.00



Anticollision Report



0.00 usft

1.10 usft

Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 114H
Project:	Eddy County, NM	TVD Reference:	Well @ 3271.50usft (GL: 3243' + KB: 28.5' (Patt809))
Reference Site:	Stebbins Federal 20 (114-124-134-204)	MD Reference:	Well @ 3271.50usft (GL: 3243' + KB: 28.5' (Patt809))
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	No. 114H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.10 usft	Output errors are at	2.00 sigma
Reference Wellbore	ОН	Database:	Well_Planner1
Reference Design:	Prelim Plan A	Offset TVD Reference:	Offset Datum
-			

Stebbins Federal 20 (114-124-134-204) - No. 124H - OH - Prelim Plan A Offset Site Error: **Offset Design** Survey Program: 0-MWD - OWSG Offset Well Error: Reference Offset Semi Maior Axis Distance Vertical Vertical Offset Offset Wellbore Centre Between Measured Measured Reference Highside Betv Minimum Separation eer Warning Depth Depth Depth Depth Toolface Centres Ellipses Separation Factor +N/-S +E/-W (usft) (usit) (usft) (usft) (usft) (usft) (*) (usft) (usft) (usft) (usft) (usft) 7,000.00 6,942.24 6.945.58 6,943.24 25.18 24.49 180.00 -5.00 50.00 283.49 234.63 48.86 5.802 7.100.00 7,003.48 7.006.83 7.004.48 25.91 24.71 180.00 -5.00 50.00 362.38 313.11 49.28 7.354 7,200.00 7,050.10 7,053.44 7,051.10 26.85 24.88 180.00 -5.00 450.71 49.58 9.091 50.00 401.13 7,300.00 7,080.67 7,084.01 7,081.67 28.04 24.99 180.00 10.967 -5.00 50.00 545.79 496.02 49.77 7,400.00 7.094.26 8.111.12 7,709.96 29.46 32.22 180.00 -5.00 694.73 614.70 599.32 15.38 39.971 7,486.95 7,096.68 8,198.02 7,709.96 30.86 38.047 33.64 180.00 -5.00 781.63 612.28 596.18 16.09 7.500.00 7 094 96 8 211 11 7,709.96 31.07 33.87 180.00 -5.00 794 72 614.00 597 80 16 21 37 888 7,600.00 7,094.96 8,311.11 7,709.96 32.87 35.70 180.00 -5.00 894.72 614.00 596.86 17.14 35.828 7,700.00 7,094.96 8,411.11 7,709.96 34.83 37.67 180.00 -5.00 994.72 614.00 595.84 18.16 33.815 7.800.00 7 094 96 8 511 11 7 709.96 36.92 39 76 180.00 -5.00 1 094 72 614 00 594 75 19 25 31 892 7,900.00 7,709.96 30.084 7,094.96 8,611.11 39.13 41.97 180.00 593.59 -5.00 1,194.72 614.00 20.41 8.000.00 7 094 96 8,711 11 7 709 96 41.44 44 26 180.00 -5.00 1.294.72 614 00 592 38 21.62 28 402 8,100.00 7,094.96 8.811.11 7,709.97 43.82 46.63 180.00 -5.00 1,394.72 614.00 591.13 22.87 26.846 8,200.00 7,094.97 8,911.11 7,709.97 46.28 49.06 180.00 -5.00 1,494.72 614.00 589.84 24.16 25.412 8.300.00 7.094.97 24.095 9.011.11 7,709.97 48.79 51.55 180.00 -5.00 1.594.72 614.00 588.52 25.48 8,400.00 7,094.97 9,111.11 7,709.97 51.35 54.10 180.00 -5.00 1,694.72 614.00 587.17 26.83 22.884 8.500.00 53.95 56.68 180.00 7.094.97 9.211.11 7.709.97 -5.00 1.794.72 614.00 585.80 28.20 21.772 8,600.00 7.094.97 9,311.11 7.709.97 56.59 59.30 180.00 -5.00 1.894.72 614.00 584 41 29.59 20 749 8,700.00 7,709.97 7,094.97 59.26 583.00 9,411.11 61.95 180.00 -5.00 1,994.72 614.00 31.00 19.807 8,800.00 7.094.97 9,511,11 7,709,97 61.96 64.63 180.00 -5.00 2.094.72 614.00 581.58 32.42 18.938 8,900.00 7,094.97 9.611.11 7.709.97 64.69 67.33 180.00 -5.00 2,194.72 614.00 580.14 33.86 18,135 9,000.00 7,094.97 9,711.11 7,709.97 67.43 70.06 180.00 -5.00 614.00 578.70 35.30 17.391 2.294.72 9.100.00 7.094.97 9 811 11 7 709 98 70 19 72.80 180.00 -5.00 2.394.72 614.00 577.24 36.76 16 702 9,200.00 7,094.98 9,911.11 7,709.98 72.97 75.56 180.00 -5.00 2,494.72 614.00 575.77 38.23 16.062 9,300.00 7,094.98 10,011.11 7,709.98 75.76 78.34 180.00 -5.00 2,594.72 614.00 574.30 15.466 39.70 9,400.00 7,094.98 10,111.11 7,709.98 78.57 81.13 180.00 -5.00 2,694.72 614.00 572.82 41.18 14.909 9,500.00 7,094.98 10,211.11 7,709.98 81.39 83.94 180.00 614.00 42.67 14.390 -5.00 2,794.72 571.33 9 600 00 7.094.98 10.311.11 7.709.98 84.22 86.75 180.00 -5.00 2 894 72 614.00 569.84 44.16 13.903 9,700.00 7.094.98 10.411.11 7,709.98 87.06 89 58 180.00 -5.00 2,994.72 614.00 568.34 45.66 13.447 7,094.98 9,800.00 10,511.11 7,709.98 89.90 92.41 180.00 -5.00 3,094.72 614.00 566.84 47.16 13.019 7.094.98 12 616 9 900 00 10.611.11 95 25 -5.00 3.194.72 614.00 565 33 48 67 7 709 98 92 76 180.00

9,900.00	7,094.98	10,611.11	7,709.98	92.76	95.25	180.00	-5.00	3,194.72	614.00	565.33	48.67	12.616
10,000.00	7,094.98	10,711.11	7,709.98	95.62	98.10	180.00	-5.00	3,294.72	614.00	563.82	50.18	12.236
10,100.00	7,094.98	10,811.11	7,709.99	98.49	100.96	180.00	-5.00	3,394.72	614.00	562.31	51.69	11.878
10,200.00	7,094.99	10,911.11	7,709.99	101.37	103.83	180.00	-5.00	3,494.72	614.00	560.79	53.21	11.539
10,300.00	7,094.99	11,011.11	7,709.99	104.25	106.70	180.00	-5.00	3,594.72	614.00	559.27	54.73	11.218
10,400.00	7,094.99	11,111.11	7,709.99	107.13	109.57	180.00	-5.00	3,694.72	614.00	557.75	56.25	10.915
10,500.00	7,094.99	11,211.11	7,709.99	110.02	112.45	180.00	-5.00	3,794.72	614.00	556.22	57.78	10.626
10,600.00	7,094.99	11,311.11	7,709.99	112.92	115.34	180.00	-5.00	3,894.72	614.00	554.69	59.31	10.353
10,700.00	7,094.99	11,411.11	7,709.99	115.82	118.23	180.00	-5.00	3,994.72	614.00	553.16	60.84	10.092
10,800.00	7,094.99	11,511.11	7,709.99	118.72	121.12	180.00	-5.00	4,094.72	614.00	551.63	62.37	9.845
10,900.00	7,094.99	11,611.11	7,709.99	121.62	124.02	180.00	-5.00	4,194.72	614.00	550.10	63.90	9.608
11,000.00	7,094.99	11,711.11	7,709.99	124.53	126.92	180.00	-5.00	4,294.72	614.00	548.56	65.44	9.383
11,100.00	7,094.99	11,811.11	7,710.00	127.44	129.82	180.00	-5.00	4,394.72	614.00	547.02	66.98	9.167
11,200.00	7,095.00	11,911.11	7,710.00	130.36	132.73	180.00	-5.00	4,494.72	614.00	545.49	68.51	8.962
11,300.00	7,095.00	12,011.11	7,710.00	133.28	135.64	180.00	-5.00	4,594.72	614.00	543.95	70.05	8.765
11,400.00	7,095.00	12,111.11	7,710.00	136.19	138.55	180.00	-5.00	4,694.72	614.00	542.40	71.60	8.576
11,500.00	7,095.00	12,211.11	7,710.00	139.12	141.47	180.00	-5.00	4,794.72	614.00	540.86	73.14	8.395
11,600.00	7,095.00	12,311.11	7,710.00	142.04	144.27	180.00	-5.00	4,894.72	614.00	539.36	74.64	8.226
11,625.28	7,095.00	12,336.38	7,710.00	142.78	144.73	180.00	-5.00	4,919.99	614.00	539.07	74.93	8.194

CC - Min centre to center distance or covergent point, SF - min separation factor. ES - min ellipse separation



Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 114H
Project:	Eddy County, NM	TVD Reference:	Well @ 3271.50usft (GL: 3243' + KB: 28.5' (Patt809))
Reference Site:	Stebbins Federal 20 (114-124-134-204)	MD Reference:	Well @ 3271.50usft (GL: 3243' + KB: 28.5' (Patt809))
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	No. 114H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.10 usft	Output errors are at	2.00 sigma
Reference Wellbore	ОН	Database:	Well_Planner1
Reference Design:	Prelim Plan A	Offset TVD Reference:	Offset Datum

Survey Progra Refere Measured		WD - OWSG												
													Offset Well Error:	1.10 usft
ne Basurari		Offse	et Vertical	Semi Major Reference	Axis Offset	lillahat da	Oliver Mark	Cante-	Dista		6.81 m 1 m	Constant		
Depth	Vertical Depth	Measured Depth	Depth	Keterence	Offset	Highside Toolface	Offset Wellbo +N/-S	+E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(*)	(usft)	(usft)	(usft)	(usft)	(usft)			
0.00	0.00	1.00	1.00	1.10	1.10	0.00	60.00	0.00	60.00					
100.00	100.00	101.00	101.00	1.11	1.11	0.00	60.00	0.00	60.00	57.78	2.22	27.084		
200.00	200.00	201.00	201.00	1.20	1.20	0.00	60.00	0.00	60.00	57.59	2.41	24.926		
300.00	300.00	301.00	301.00	1.39	1.39	0.00	60.00	0.00	60.00	57.22	2.78	21.610		
400.00 500.00	400.00 500.00	401.00 501.02	401.00 501.02	1.63 1.91	1.63 1.91	0.00 0.00	60.00 60.00	0.00 0.00	60.00 60.00	56.74 56.18	3.26 3.82	18.384 15.691		
300.00	500.00	501.02	501.02	1.01	1.01	0.00	00.00	0.00	00.00	30.10	3.62	15.091		
600.00	599.98	602.60	602.58	2.21	2.21	-94.76	58.54	-1.12	58.69	54.28	4.42	13.289		
700.00	699.84	703.59	703.42	2.51	2.51	-103.85	54.27	-4.41	55.74	50.71	5.03	11.086		
792.30	791.85	795.48	794.99	2.82	2.80	-117.49	48.22	-9.06	53.98	48.37	5.61	9.614 (CC, ES	
800.00 900.00	799.49 899.11	803.04 901.83	802.52 900.94	2.84 3.18	2.83 3.16	-119.13 -134.72	47.70 40.87	-9.47 -14.72	54.21 56.86	48.54 50.53	5.66 6.33	9.570 8.989		
300.00	035.11	301.03	300.34	5.10	5.10	-104.72	40.07	-14.72	50.60	50.55	0.33	0.303		
1,000.00	998.73	1,000.63	999.36	3.53	3.50	-148.07	34.05	-19.97	63.29	56.29	7.00	9.042		
1,100.00	1,098.35	1,099.43	1,097.78	3.88	3.84	-158.55	27.22	-25.22	72.50	64.82	7.68	9.441		
1,200.00	1,197.97	1,198.23	1,196.20	4.24	4.20	-166.50	20.40	-30.47	83.57	75.21	8.36	9.992		
1,300.00 1,400.00	1,297.59 1,397.21	1,297.02 1,395.82	1,294.62 1,393.05	4.61 4.98	4.56 4.92	-172.52 -177.15	13.57 6.74	-35.72 -40.97	95.87 108.98	86.82 99.23	9.05 9.75	10.588 11.178		
1,-00.00	1,001.41	1,000.02	1,000.00	4.00	7.04		0.74	-40.07	100.90	33.23	0.70	, , , , , 0		
1,500.00	1,496.83	1,496.02	1,492.91	5.35	5.29	179.39	0.24	-45.97	122.32	111.87	10.46	11.698		
1,600.00	1,596.45	1,598.02	1,594.78	5.72	5.65	177.66	-3.81	-49.09	134.05	122.88	11.17	11.999		
1,700.00	1,696.07	1,700.33	1,697.07	6.09	6.00	177.33	-5.00	-50.00	143.66	131.79	11.87	12.098		
1,800.00 1,900.00	1,795.69 1,895.31	1,799.95 1,899.57	1,796.69 1,896.31	6.47 6.84	6.33 6.66	177.48 177.62	-5.00 -5.00	-50.00 -50.00	152.37 161.07	139.81 147.83	12.56 13.25	12.132 12.159		
1,500.00	1,035.51	1,033.37	1,000.01	0.04	0,00	111.02	-5.66	-30.00	101.07	147.05	13.25	12.155		
2,000.00	1,994.93	1,999.19	1,995.93	7.22	6.99	177.74	-5.00	-50.00	169.78	155.84	13.94	12.181		
2,100.00	2,094.55	2,098.81	2,095.55	7.60	7.33	177.85	-5.00	-50.00	178.49	163.86	14.63	12.199		
2,200.00	2,194.17	2,198.43	2,195.17	7.97	7.66	177.95	-5.00	-50.00	187.20	171.87	15.33	12.213		
2,300.00 2,400.00	2,293.87 2,393.77	2,298.13 2,398.04	2,294.87 2,394.77	8.35 8.71	8.00 8.35	178.04 178.08	-5.00 -5.00	-50.00 -50.00	194.85 199.10	178.82 182.38	16.03 16.72	12.159 11.906		
2,400.00	2,000.11	2,030.04	2,034.17	0.11	0.00	170.00	-5.00	-30.00	133.10	102.30	10.72	11.900		
2,500.00	2,493.76	2,498.03	2,494.76	9.05	8.69	-90.00	-5.00	-50.00	200.00	182.59	17.41	11.487		
2,600.00	2,593.76	2,598.03	2,594.76	9,38	9.03	-90.00	-5.00	-50.00	200.00	181.90	18.10	11.051		
2,700.00	2,693.76	2,698.03	2,694.76	9.71	9.38	-90.00	-5.00	-50.00	200.00	181.21	18.79	10.645		
2,800.00 2,900.00	2,793.76 2,893.76	2,798.03 2,898.03	2,794.76 2,894.76	10.05 10.39	9.73 10.07	-90.00 -90.00	-5.00 -5.00	-50.00 -50.00	200.00 200.00	180.52 179.83	19.48 20.17	10.268 9.915		
2,500.00	2,035.70	2,030.00	2,034.70	10.55	10.07	-30.00	-5.00	-30.00	200.00	179.05	20.17	9.915		
3,000.00	2,993.76	2,998.03	2,994.76	10.73	10.42	-90.00	-5.00	-50.00	200.00	179.13	20.87	9.585		
3,100.00	3,093.76	3,098.03	3,094.76	11.07	10.77	-90.00	-5.00	-50.00	200.00	178.44	21.56	9.275		
3,200.00	3,193.76	3,198.03	3,194.76	11.41	11.12	-90.00	-5.00	-50.00	200.00	177.74	22.26	8.985		
3,300.00 3,400.00	3,293.76 3,393.76	3,298.03 3,398.03	3,294.76 3,394.76	11.76 12.10	11.47 11.82	-90.00 -90.00	-5.00 -5.00	-50.00 -50.00	200.00 200.00	177.04 176.34	22.96 23.66	8.711 8.454		
3,400.00	0,000.70	0,000.00	0,004.10	12.10	11.04	-00.00	-0.00	-30.00	200.00	110.04	23.00	0.434		
3,500.00	3,493.76	3,498.03	3,494.76	12.44	12.17	-90.00	-5.00	-50.00	200.00	175.64	24.36	8.211		
3,600.00	3,593.76	3,598.03	3,594.76	12.79	12.52	-90.00	-5.00	-50.00	200.00	174.94	25.06	7.981		
3,700.00	3,693.76	3,698.03	3,694.76	13.14	12.87	-90.00	-5.00	-50.00	200.00	174.24	25.76	7.763		
3,800.00 3,900.00	3,793.76 3,893.76	3,798.03 3,898.03	3,794.76 3,894.76	13.48 13.83	13.23 13.58	-90.00 -90.00	-5.00 -5.00	-50.00 -50.00	200.00	173.53	26.47 27.17	7.557 7.361		
3,500.00	3,033.10	3,080.03	3,034.10	10.00	13.30	-30.00	-3.00	-00.00	200.00	172.83	21.11	1.501		
4,000.00	3,993.76	3,998.03	3,994.76	14.18	13.93	-90.00	-5.00	-50.00	200.00	172.13	27.87	7.175		
4,100.00	4,093.76	4,098.03	4,094.76	14.53	14.29	-90.00	-5.00	-50.00	200.00	171.42	28.58	6.998		
4,200.00	4,193.76	4,198.03	4,194.76	14.88	14.64	-90.00	-5.00	-50.00	200.00	170.71	29.29	6.829		
4,300.00	4,293.76	4,298.03	4,294.76	15.23	14.99	-90.00	-5.00	-50.00	200.00	170.01	29.99	6.668		
4,400.00	4,393.76	4,398.03	4,394.76	15.58	15.35	-90.00	-5.00	-50.00	200.00	169.30	30.70	6.515		
4,500.00	4,493.76	4,498.03	4,494.76	15.93	15.70	-90.00	-5.00	-50.00	200.00	168.59	31.41	6.368		
4,600.00	4,593.76	4,598.03	4,594.76	16.28	16.05	-90.00	-5.00	-50.00	200.00	167.89	32.11	6.228		
4,700.00	4,693.76	4,698.03	4,694.76	16.63	16.41	-90.00	-5.00	-50.00	200.00	167.18	32.82	6.093		
4,800.00	4,793.76	4,798.03	4,794.76	16.98	16.76	-90.00	-5.00	-50.00	200.00	166.47	33.53	5.965		
4,900.00	4,893.76	4,898.03	4,894.76	17.33	17.12	-90.00	-5.00 gent point, SF	-50.00	200.00	165.76	34.24	5.841		_



Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 114H
Project:	Eddy County, NM	TVD Reference:	Well @ 3271.50usft (GL: 3243' + KB: 28.5' (Patt809))
Reference Site:	Stebbins Federal 20 (114-124-134-204)	MD Reference:	(Pattoos)) Well @ 3271.50usft (GL: 3243' + KB: 28.5' (Patt809))
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	No. 114H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.10 usft	Output errors are at	2.00 sigma
Reference Wellbore	ОН	Database:	Well_Planner1
Reference Design:	Prelim Plan A	Offset TVD Reference:	Offset Datum

Offset De	sign	Stebbin	s Federal	20 (114-124	4-134-204	4) - No. 134	H - OH - Prelir	n Plan A					Offset Site Error:	0.00 usft
Survey Prog	ram: 0-M	WD - OWSG											Offset Well Error:	1.10 usfi
Refer	ence	Offs	et	Semi Major	Axis				Dista	ince				
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbor	e Centre	Between	Between	Minimum	Separation	Warning	
Depth	Depth	Depth	Depth	6	1.10	Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor		
(usft)	(usft)	(usft)	(usft)	(usit)	(usft)	(*)	(usft)	(usft)	(usft)	(usft)	(usft)			
5,000.00	4,993.76	4,998.03	4,994.76	17.68	17.47	-90.00	-5.00	-50.00	200.00	165.05	34.95	5.723		
5,100.00	5,093.76	5,098.03	5,094.76	18.03	17.83	-90.00	-5.00	-50.00	200.00	164.34	35.66	5.609		
5,200.00	5,193.76	5,198.03	5,194.76	18.39	18.18	-90.00	-5.00	-50.00	200.00	163.63	36.37	5.499		
5,300.00	5,293.76	5,298.03	5,294.76	18.74	18.54	-90.00	-5.00	-50.00	200.00	162.92	37.08	5.394		
5,400.00	5,393.76	5,398.03	5,394.76	19.09	18.89	-90.00	-5.00	-50.00	200.00	162.21	37.79	5.293		
5,500.00	5,493.76	5,498.03	5,494.76	19.44	19.25	-90.00	-5.00	-50.00	200.00	161.50	38.50	5.195		
5,600.00	5,593.76	5,598.03	5,594.76	19.44	19.23	-90.00	-5.00	-50.00	200.00	161.30	39.21	5.101		
5,700.00	5,693.76	5,698.03	5,694.76	20.15	19.96	-90.00	-5.00	-50.00	200.00	160.08	39.92	5.010		
5,800.00	5,793.76	5,798.03	5,794.76	20.10	20.32	-90.00	-5.00	-50.00	200.00	159.37	40.63	4.922		
5,900.00	5,893.76	5,898.03	5,894.76	20.86	20.67	-90.00	-5.00	-50.00	200.00	158.66	41.34	4.838		
-,	0,0000	0,000.00					0.00	00.00		100.00	11.01			
6,000.00	5,993.76	5,998.03	5,994.76	21.21	21.03	-90.00	-5.00	-50.00	200.00	157.95	42.05	4.756		
6,100.00	6,093.76	6,098.03	6,094.76	21.57	21.39	-90.00	-5.00	-50.00	200.00	157.23	42.77	4.677		
6,200.00	6,193.76	6,198.03	6,194.76	21.92	21.74	-90.00	-5.00	-50.00	200.00	156.52	43.48	4.600		
6,300.00	6,293.76	6,298.03	6,294.76	22.27	22.10	-90.00	-5.00	-50.00	200.00	155.81	44.19	4.526		
6,400.00	6,393.76	6,398.03	6,394.76	22.63	22.45	-90.00	-5.00	-50.00	200.00	155.10	44.90	4.454		
6,500.00	6,493.76	6,498.03	6,494.76	22.98	22.81	-90.00	-5.00	-50.00	200.00	154,38	45.62	4.384 SF		
6,600.00	6,593.58	6,597.84	6,594.58	23.34	23.17	-180.00	-5.00	-50.00	200.00	158.16	45.82	4.304 3F		
6,700.00	6,691.20	6,695.47	6,692.20	23.72	23.52	-180.00	-5.00	-50.00	225.55	178.53	47.02	4.797		
6,800.00	6,783.69	6,787.95	6,784.69	24.14	23.84	-180.00	-5.00	-50.00	263.25	215.57	47.68	5.521		
6,900.00	6,868.22	6,872.49	6,869.22	24.61	24.15	-180.00	-5.00	-50.00	316.44	268.16	48.28	6.555		
-,			•,				0.00	00.00	0.0.11	200.10	10.20	0.000		
7,000.00	6,942.24	6,946.50	6,943.24	25.18	24.41	-180.00	-5.00	-50.00	383.49	334.70	48.79	7.860		
7,100.00	7,003.48	7,007.74	7,004.48	25.91	24.63	-180.00	-5.00	-50.00	462.38	413.18	49.20	9.398		
7,200.00	7,050.10	7,054.36	7,051.10	26.85	24,80	-180.00	-5.00	-50.00	550.71	501.21	49.50	11.125		
7,300.00	7,080.67	7,084.93	7,081.67	28.04	24.90	-180.00	-5.00	-50.00	645.79	596.10	49.69	12.996		
7,400.00	7,094.26	7,098.53	7,095.26	29.46	24.95	-180.00	-5.00	-50.00	744.73	694.96	49.78	14.962		
7,500.00	7,094.96	7,099,22	7,095.96	31.07	24.96	-180.00	-5.00	-50.00	844.72	794.94	49.79	16.967		
7,600.00	7,094.96	7,099.22	7,095.96	32.87	24.96	-180.00	-5.00	-50.00	944.72	894.93	49.79	18.972		
7,700.00	7,094.96	7,099.22	7,095.96	34.83	24.96	-180.00	-5.00	-50.00	1,044.72	994.92	49.80	20.977		
7,800.00	7,094.96	7,099.22	7,095.96	36.92	24.96	-180.00	-5.00	-50.00	1,144.72	1,094.91	49.81	22.980		
7,900.00	7,094.96	7,099.23	7,095.96	39.13	24.96	-180.00	-5.00	-50.00	1,244.72	1,194.90	49.83	24.982		
			,						.,	.,				
8,000.00	7,094.96	7,099.23	7,095.96	41.44	24.96	-180.00	-5.00	-50.00	1,344.72	1,294.89	49.84	26.982		
8,100.00	7,094.96	7,099.23	7,095.96	43.82	24.96	-180.00	-5.00	-50.00	1,444.72	1,394.87	49.85	28.981		
8,200.00	7,094.97	7,099.23	7,095.97	46.28	24.96	-180.00	-5.00	-50.00	1,544.72	1,494.86	49.86	30.979		
8,300.00	7,094.97	7,099.23	7,095.97	48.79	24.96	-180.00	-5.00	-50.00	1,644.72	1,594.84	49.88	32.974		
8,400.00	7,094.97	7,099.23	7,095.97	51.35	24.96	-180.00	-5.00	-50.00	1,744.72	1,694.83	49.89	34.968		
8,500.00	7,094.97	7,099.23	7,095.97	53.95	24.96	-180.00	-5.00	-50.00	1,844.72	1,794.81	49.91	36.960		
0,000.00	1,094.97	1,035.23	1,050.37		24.30	-100.00	-5.00	-30.00	1,044.72	1,794.81	49.91	30.900		



Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 114H
Project:	Eddy County, NM	TVD Reference:	Well @ 3271.50usft (GL: 3243' + KB: 28.5' (Patt809))
Reference Site:	Stebbins Federal 20 (114-124-134-204)	MD Reference:	Well @ 3271.50usft (GL: 3243' + KB: 28.5' (Patt809))
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	No. 114H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.10 usft	Output errors are at	2.00 sigma
Reference Wellbore	ОН	Database:	Well_Planner1
Reference Design:	Prelim Plan A	Offset TVD Reference:	Offset Datum

rvey Prog	sign 	WD - OWSG		20 (114-124		,							6#	
rvey Prog Refer		VVD - OVVSG Offer	at	Semi Major	Axis				Dista				Offset Well Error:	1.10
easured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbor	e Centre	Between	Between	Minimum	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (*)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		
0.00	0.00	0.00	0.00	1.10	1.10	0.00	90.00	0.00	90.01					
100.00	100.00	99.00	99.00	1.10	1.11	0.00	90.00	0.00	90.00	87.79	2.21	40.637		
200.00	200.00	199.00	199.00	1.20	1.20	0.00	90.00	0.00	90.00	87.60	2.40	37.434		
300.00	300.00	299.00	299.00	1.39	1.38	0.00	90.00	0.00	90.00	87.23	2.40	32.466		
400.00	400.00	299.00 399.00	399.00	1.63	1.63	0.00	90.00	0.00	90.00	86.74	3.26	27.621		
500.00	500.00	499.00	499.00	1.03	1.03	0.00	90.00		90.00	86.18				
								0.00			3.82	23.572		
600.00	599.98	600.58	600.56	2.21	2.20	-94.02	89.06	-1.49	89.19	84.77	4.41	20.217		
700.00	699.84	701.49	701.32	2.51	2.51	-100.52	86.21	-5.98	87.44	82.42	5.02	17.405		
772.86	772.48	774.06	773.65	2.75	2.74	-107.69	83.05	-10.98	86.73	81.24	5.49	15.795 C	C, ES	
800.00	799.49	800,77	800.26	2.84	2.83	-110.84	81.80	-12.95	87.02	81.36	5.67	15.356		
900.00	899.11	899.38	898.50	3.18	3.16	-121.35	77.20	-20.21	89.64	83.31	6.33	14.155		
,000.00	998.73	998.00	996.74	3.53	3.50	-130.98	72.60	-27.47	95.12	88.11	7.01	13.566		
,100.00	1,098.35	1,096.61	1,094.97	3.88	3.85	-139.37	68.00	-34.73	103.02	95.32	7.70	13.385		
,200.00	1,197.97	1,195.22	1,193.21	4.24	4.20	-146.47	63.41	-41.99	112.82	104.44	8.38	13.456		
,300.00	1,297.59	1,293.83	1,291,45	4.61	4.56	-152.37	58.81	-49.25	124.08	115.00	9.07	13.674		
400.00	1,397.21	1,392.45	1,389.69	4.98	4.92	-157.26	54.21	-56.51	136.43	126.66	9.77	13.970		
,500.00	1,496.83	1,491.06	1,487.92	5.35	5.29	-161.33	49.61	-63.77	149.61	139.15	10.46	14.303		
600.00	1,596.45	1,589.67	1,586.16	5.72	5.66	-164.73	45.01	-71.04	163.41	152.25	11.16	14.647		
700.00	1,696.07	1,688.28	1,684.40	6.09	6.02	-167.59	40.41	-78.30	177.69	165.83	11.86	14.988		
800.00	1,795.69	1,786.90	1,782.63	6.47	6.39	-170.03	35.81	-85.56	192.34	179.79	12.56	15.318		
900.00	1,895.31	1,885.51	1,880.87	6.84	6.77	-172.12	31.22	-92.82	207.29	194.03	13.26	15.633		
300.00	1,000.01	1,000.01	1,000.07	0.04	0.77	-172.12	51.22	-52.02	207.23	194.00	15.20	15.055		
,000.00	1,994.93	1,984.12	1,979.11	7.22	7.14	-173.93	26.62	-100.08	222.47	208.51	13.96	15.932		
,100.00	2,094.55	2,082.73	2,077.35	7.60	7.51	-175.50	22.02	-107.34	237.84	223.17	14.67	16.212		
200.00	2,194.17	2,181.35	2,175.58	7.97	7.88	-176.89	17.42	-114.60	253.37	237.99	15.38	16.475		
300.00	2,293.87	2,280.12	2,273.98	8.35	8.26	-178.11	12.81	-121.87	267.97	251.89	16.09	16.658		
,400.00	2,393.77	2,379.34	2,372.82	8.71	8.64	-179.20	8.19	-129.18	279.30	262.51	16.80	16.630		
	_,	_,	.,							202.0				
,500.00	2,493.76	2,478.88	2,471.99	9.05	9.02	-88.29	3.54	-136.51	287.39	269.89	17.50	16.425		
,600.00	2,593.76	2,582.41	2,575.15	9.38	9.41	-89.24	-1.09	-143.83	294.38	276.16	18.23	16.151		
,700.00	2,693.76	2,691.81	2,684.39	9.71	9.81	-89.84	-4.15	-148.66	298.78	279.80	18.99	15.738		
,800.00	2,793.76	2,800.20	2,792.76	10.05	10.17	-90.00	-5.00	-150.00	300.00	280.29	19.71	15.224		
,900.00	2,893.76	2,900.20	2,892.76	10.39	10.50	-90.00	-5.00	-150.00	300.00	279.62	20.38	14.719		
,000.00	2,993.76	3,000.20	2,992.76	10.73	10.82	-90.00	-5.00	-150.00	300.00	278.94	21.06	14.245		
,100.00	3,093.76	3,100.20	3,092.76	11.07	11.15	-90.00	-5.00	-150.00	300.00	278.26	21.74	13.799		
,200.00	3,193.76	3,200.20	3,192.76	11.41	11.48	-90.00	-5.00	-150.00	300.00	277.58	22.42	13.379		
,300.00	3,293.76	3,300.20	3,292.76	11.76	11.82	-90.00	-5.00	-150.00	300.00	276.89	23.11	12.982		
,400.00	3,393.76	3,400.20	3,392.76	12.10	12.15	-90.00	-5.00	-150.00	300.00	276.21	23.80	12.608		
,500.00	3,493.76	3,500.20	3,492.76	12.44	12.48	-90.00	-5.00	-150.00	300.00	275.52	24.48	12.253		
,600.00	3,593.76	3,600.20	3,592.76	12.79	12.82	-90,00	-5.00	-150.00	300.00	274.83	25.17	11.917		
700.00	3,693.76	3,700.20	3,692.76	13.14	13.16	-90.00	-5.00	-150.00	300.00	274.13	25.87	11.599		
8,800.00	3,793.76	3,800.20	3,792.76	13.48	13.50	-90.00	-5.00	-150.00	300.00	273.44	26.56	11.296		
,900.00	3,893.76	3,900.20	3,892.76	13.83	13.84	-90.00	-5.00	-150.00	300.00	272.75	27.25	11.008		
,000.00	3,993.76	4,000.20	3,992.76	14.18	14.18	-90.00	-5.00	-150.00	300.00	272.05	27.95	10.734		
	4,093.76	4,000.20	4,092.76	14.18	14.18	-90.00								
,100.00							-5.00	-150.00	300.00	271.36	28.64	10.473		
,200.00	4,193.76	4,200.20	4,192.76	14.88	14.86	-90.00	-5.00	-150.00	300.00	270.66	29.34	10.224		
,300.00	4,293.76	4,300.20	4,292.76	15.23	15.20	-90.00	-5.00	-150.00	300.00	269.96	30.04	9.987		
,400.00	4,393.76	4,400.20	4,392.76	15.58	15.55	-90.00	-5.00	-150.00	300.00	269.26	30.74	9.760		
,500.00	4,493.76	4,500.20	4,492.76	15.93	15.89	-90.00	-5.00	-150.00	300.00	268.56	31.44	9.542		
600.00	4,593.76	4,600.20	4,592.76	16.28	16.23	-90.00	-5.00	-150.00	300.00	267.86	31.44	9.342		
,700.00	4,693.76	4,700.20	4,692.76	16.63	16.58	-90.00	-5.00	-150.00		267.16	32.84	9.334 9.135		
,700.00	4,693.76	4,700.20 4,800.20	4,692.76	16.98	16.58 16.93				300.00					
,900.00	4,793.76 4,893.76		4,792.76		16.93	-90.00	-5.00	-150.00	300.00	266.46	33.54	8.944		
500.00	+,090.10	4,900.20	4,032.10	17.33	11.41	-90.00	-5.00	-150.00	300.00	265.75	34.25	8.760		



Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 114H
Project:	Eddy County, NM	TVD Reference:	Well @ 3271.50usft (GL: 3243' + KB: 28.5 (Patt809))
Reference Site:	Stebbins Federal 20 (114-124-134-204)	MD Reference:	Well @ 3271.50usft (GL: 3243' + KB: 28.5 (Patt809))
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	No. 114H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.10 usft	Output errors are at	2.00 sigma
Reference Wellbore	ОН	Database:	Well_Planner1
Reference Design:	Prelim Plan A	Offset TVD Reference:	Offset Datum

Survey Progr	ram: 0-Mi	ND - OWSG											Offset Well Error:	1.10 u
Refer		Offse	it	Semi Major	Axis				Dista	nce			Offset Well Citor:	1.10 u
feasured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbo	re Centre	Between	Between	Minimum	Separation	Warning	
Depth (usft)	Depth (usit)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (*)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		
5,000.00	4,993.76	5,000.20	4,992.76	17.68	17.62	-90.00	-5.00	-150.00	300.00	265.05	34.95	8.584		
5,100.00	5,093.76	5,100.20	5,092.76	18.03	17.97	-90.00	-5.00	-150.00	300.00	264.35	35.65	8,415		
5,200.00	5,193.76	5,200.20	5,192.76	18.39	18.31	-90.00	-5.00	-150.00	300.00	263.64	36.36	8.251		
5,300.00	5,293.76	5,300.20	5,292.76	18.74	18.66	-90.00	-5.00	-150.00	300.00	262.94	37.06	8,095		
5,400.00	5,393.76	5,400.20	5,392.76	19.09	19.01	-90.00	-5.00	-150.00	300.00	262.23	37.77	7.943		
5,500.00	5,493.76	5,500.20	5,492.76	19.44	19.36	-90.00	-5.00	-150.00	300.00	261.53	38.47	7.798		
5,600.00	5,593.76	5,600.20	5,592.76	19.80	19.71	-90.00	-5.00	-150.00	300.00	260.82	39.18	7.657		
5,700.00	5,693.76	5,700.20	5,692.76	20.15	20.06	-90.00	-5.00	-150.00	300.00	260.11	39.89	7.522		
5,800.00	5,793.76	5,800.20	5,792.76	20.50	20.41	-90.00	-5.00	-150.00	300.00	259.41	40.59	7.391		
5,900.00	5,893.76	5,900.20	5,892.76	20.86	20.76	-90.00	-5.00	-150.00	300.00	258.70	41.30	7.264		
6,000.00	5,993.76	6,000.20	5,992.76	21.21	21.11	-90.00	-5.00	-150.00	300.00	257.99	42.01	7.142		
6,100.00	6,093.76	6,100.20	6.092.76	21.57	21,46	-90.00	-5.00	-150.00	300.00	257.29	42.71	7.023		
6,200.00	6,193.76	6,200.20	6,192.76	21.92	21.81	-90.00	-5.00	-150.00	300.00	256.58	43.42	6,909		
6,300.00	6,293.76	6,300.20	6,292.76	22.27	22.16	-90.00	-5.00	-150.00	300.00	255.87	44.13	6.798		
6,400.00	6,393.76	6,400.20	6,392.76	22.63	22.51	-90.00	-5.00	-150.00	300.00	255.16	44.84	6.690		
6,500.00	6,493.76	6,500.20	6,492.76	22.98	22.87	-90.00	-5.00	-150.00	300.00	254.45	45.55	6.586		
6,600.00	6,593.58	6,600.01	6,592.58	23.34	23.22	-180.00	-5.00	-150.00	304.49	258.23	46.25	6.583 SF		
6,700.00	6,691.20	6,697.64	6,690.20	23.72	23.56	-180.00	-5.00	-150.00	325.55	278.61	46.95	6.934		
6,800.00	6,783.69	6,790.12	6,782.69	24,14	23.89	-180.00	~5.00	-150.00	363.25	315.65	47.61	7.630		
6,900.00	6,868.22	6,874.66	6,867.22	24.61	24.18	-180.00	-5.00	-150.00	416.44	368.24	48.20	8.640		
7,000.00	6,942.24	6,948.67	6,941.24	25.18	24.45	-180.00	-5.00	-150.00	483.49	434.79	48.71	9.926		
7,100.00	7,003.48	7,009.92	7,002.48	25.91	24.66	-180.00	-5.00	-150.00	562.38	513.27	49.12	11.450		
7,200.00	7,050,10	7,056.53	7,049.10	26.85	24.83	-180.00	-5.00	-150.00	650.71	601.29	49.42	13.167		
7,300.00	7,080.67	7,087.10	7,079.67	28.04	24.93	-180.00	-5.00	-150.00	745.79	696.18	49.61	15.034		
7,400.00	7,094.26	7,100.70	7,093.26	29.46	24.98	-180.00	-5.00	-150.00	844.73	795.04	49.69	17.000		
7,500.00	7,094.96	7,101.39	7,093.96	31.07	24.98	-180.00	-5.00	-150.00	944.72	895.02	49.70	19.008		
7,600.00	7,094.96	7,101.39	7,093.96	32.87	24.98	-180.00	-5.00	-150.00	1,044.72	995.01	49.71	21.016		
7,700.00	7,094.96	7,101.40	7,093.96	34.83	24.98	-180.00	-5.00	-150.00	1,144.72	1,095.00	49.72	23.024		
7,800.00	7,094.96	7,101.40	7,093.96	36.92	24.98	-180.00	-5.00	-150.00	1,244.72	1,194.99	49.73	25.030		
7,900.00	7,094.96	7,101.40	7,093.96	39.13	24.98	-180.00	-5.00	-150.00	1,344.72	1,294.98	49.74	27.035		
8,000.00	7,094.96	7,101.40	7,093.96	41.44	24.98	-180.00	-5.00	-150.00	1,444.72	1,394.97	49.75	29.039		
8,100.00	7,094,96	7,101.40	7,093.96	43.82	24.98	-180.00	-5.00	-150.00	1,544.72	1,494.96	49.76	31.040		
8,200.00	7,094.97	7,101.40	7,093.97	46.28	24.98	-180.00	-5.00	-150.00	1,644.72	1,594.94	49.78	33.041		
8,300.00	7,094,97	7,101.40	7,093.97	48.79	24.98	-180.00	-5.00	-150.00	1,744.72	1,694.93	49.79	35.039		
8,400.00	7,094,97	7,101.40	7,093.97	51.35	24.98	-180.00	-5.00	-150.00	1,844.72	1,794.91	49.81	37.036		



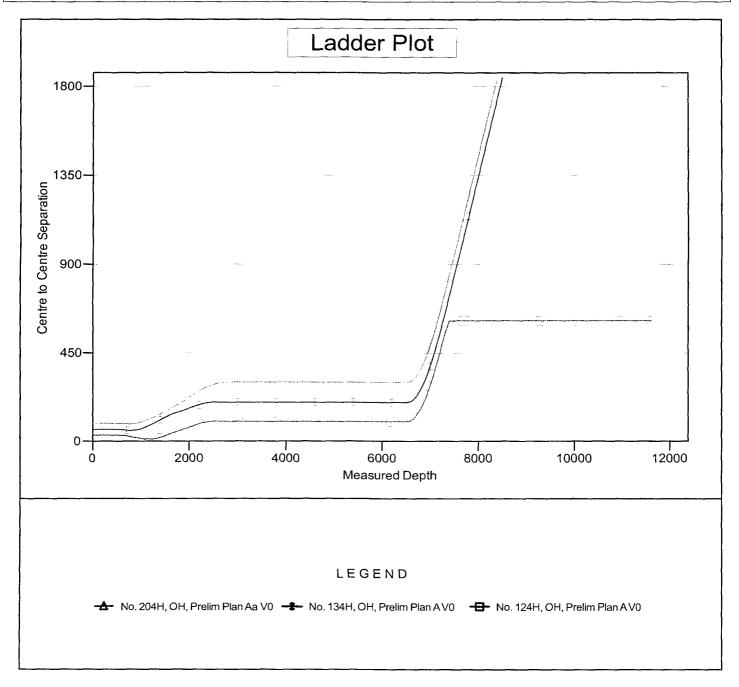
Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 114H
Project:	Eddy County, NM	TVD Reference:	Well @ 3271.50usft (GL: 3243' + KB: 28.5 (Patt809))
Reference Site:	Stebbins Federal 20 (114-124-134-204)	MD Reference:	Well @ 3271.50usft (GL: 3243' + KB: 28.5 (Patt809))
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	No. 114H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.10 usft	Output errors are at	2.00 sigma
Reference Wellbore	ОН	Database:	Well_Planner1
Reference Design:	Prelim Plan A	Offset TVD Reference:	Offset Datum

Reference Depths are relative to Well @ 3271.50usft (GL: 3243' + KB: Offset Depths are relative to Offset Datum Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: No. 114H Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30 Grid Convergence at Surface is: 0.12°



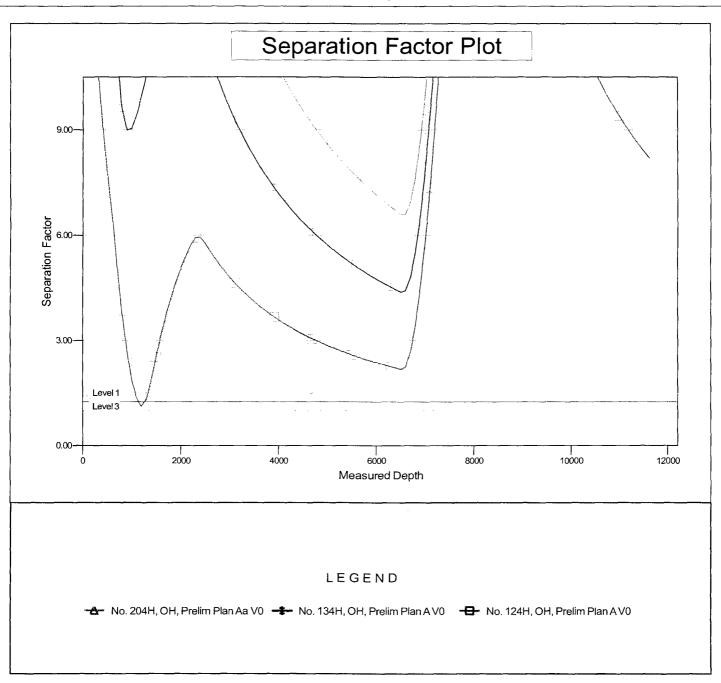


Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Weil No. 114H
Project:	Eddy County, NM	TVD Reference:	Well @ 3271.50usft (GL: 3243' + KB: 28.5' (Patt809))
Reference Site:	Stebbins Federal 20 (114-124-134-204)	MD Reference:	Well @ 3271.50usft (GL: 3243' + KB: 28.5' (Patt809))
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	No. 114H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.10 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Well_Planner1
Reference Design:	Prelim Plan A	Offset TVD Reference:	Offset Datum

Reference Depths are relative to Well @ 3271.50usft (GL: 3243' + KB: Offset Depths are relative to Offset Datum Central Meridian is 104° 20' 0.000 W Coordinates are relative to: No. 114H Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30 Grid Convergence at Surface is: 0.12°



CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation



Hydrogen Sulfide Drilling

Operations Plan

Matador Production Company

1 H2S safety instructions to the following:

- Characteristics of H2S
- Physical effects and hazards
- Principal and operation of H2S detectors, warning system, and briefing areas
- Evacuation procedures, routes, and first aid
- Proper use of safety equipment & life support systems
- Essential personnel meeting medical evaluation criteria will receive additional training on the proper use of 30-minute pressure demand air packs.

2 H2S Detection and Alarm Systems:

- H2S sensor/detectors will be located on the drilling rig floor, in the base of the sub structure / cellar area, and on the mud pits in the shale shaker area. Additional H2S detectors may be placed as deemed necessary.
- An audio alarm system will be installed on the derrick floor and in the doghouse.

3 Windsocks and / Wind Streamers:

- Windsocks at mud pit area should be high enough to be visible.
- Windsock on the rig floor and / top of doghouse should be high enough to be visible.

4 Condition Flags and Signs:

- Warning sign on access road to location
- Flags to be displayed on sign at entrance to location
 - Green Flag Normal Safe Operation Condition
 - Yellow Flag Potential Pressure and Danger
 - Red Flag Danger (H2S present in dangerous concentrations) Only H2S trained personnel admitted on location

5 Well Control Equipment:

See APD

6 Communication:

- While working under masks, chalkboards will be used for communications.
- Hand signals will be used where chalkboard is inappropriate.
- Two way radio will be used to communicate off location in case of emergency help is required. In most cases cellular telephones will be available at most drilling foreman's trailer or living quarters.



7 Drill Stem Testing:

• No DST or cores are planned at this time.

8 Drilling contractor supervisor will be required to be familiar with the effects H2S has on tubulars good and other mechanical equipment.

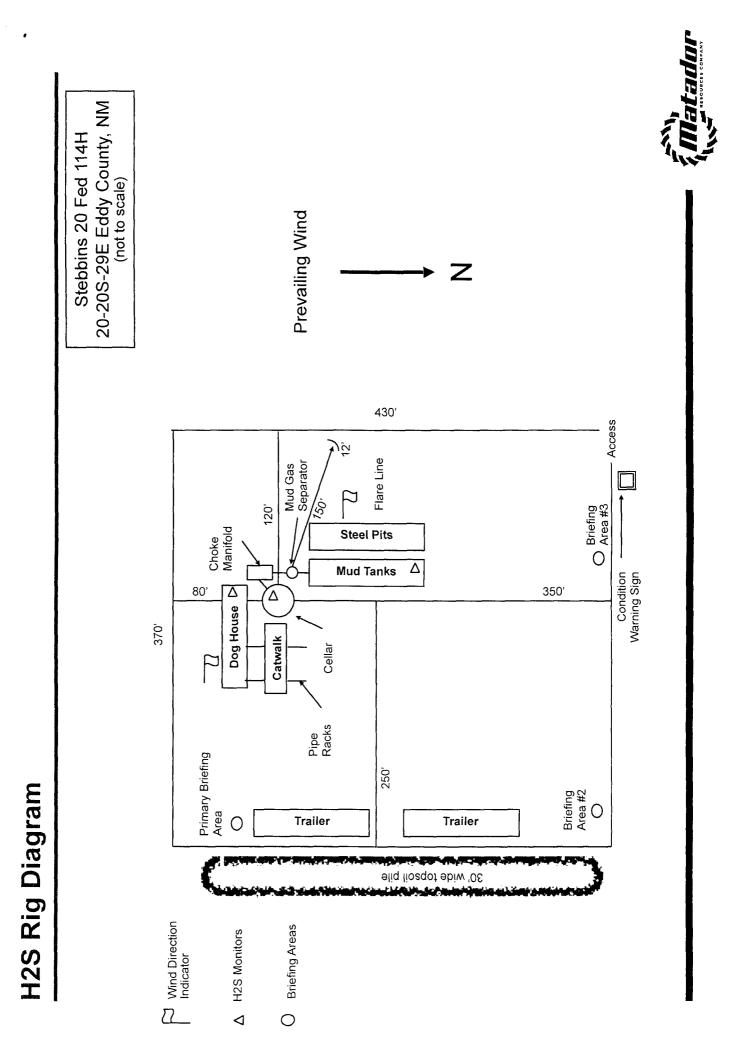
9 If H2S is encountered, mud system will be altered if necessary to maintain control of formation. A mud gas separator will be brought into service along with H2S scavengers if necessary.

11 Emergency Contacts

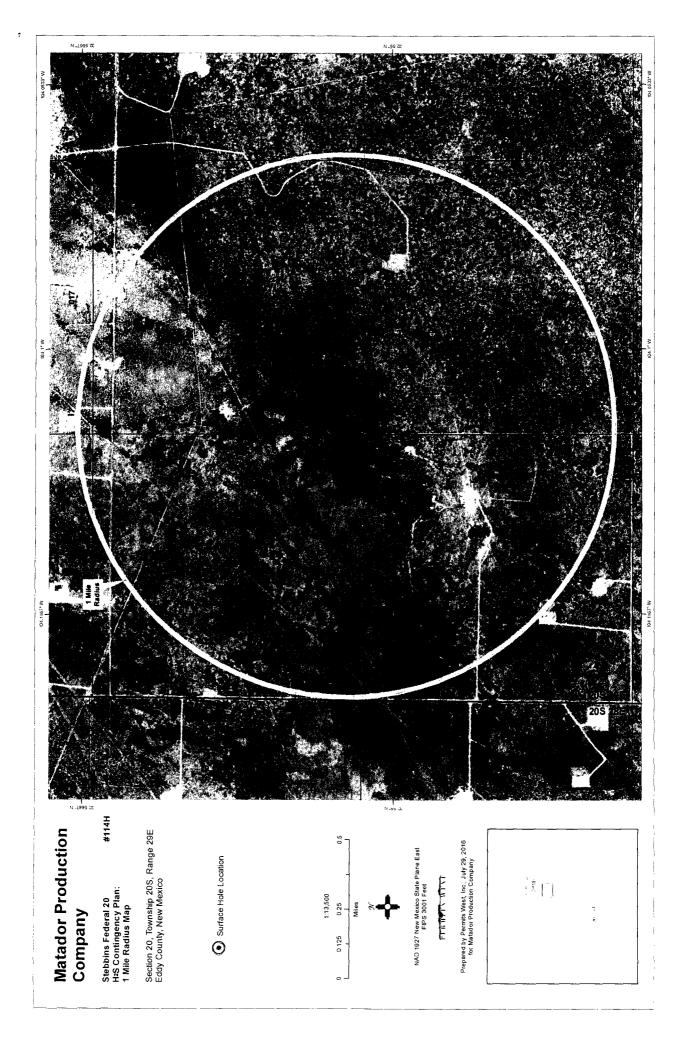
• See APD

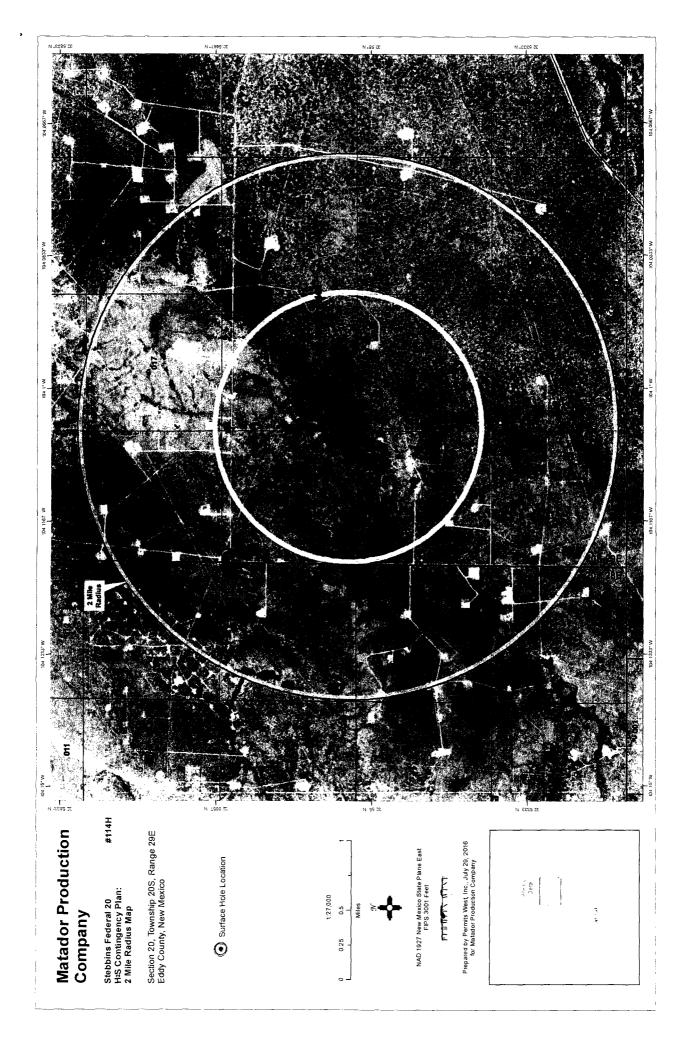
H2S Contingency Plan Emergency Contacts Matador Production Company Sec. 20, T20S, R29E, Eddy County, NM

Company Office			
Matador Production Company	(972)-371-5200		
Key Personnel			
Name	Title	Office	Mobile
Billy Goodwin	Vice President Drilling	972-371-5210	817-522-2928
Gary Martin	Drilling Superintendent		601-669-1774
Dee Smith	Drilling Superintendent	972-371-5447	972-822-1010
Aaron Byrd	Drilling Engineer	972-371-5267	214-507-2333
	Construction Superintendent		
	Construction Superintendent		
Artesia			
Ambulance		911	
State Police		575-746-2703	
City Police		575-746-2703	
Sheriff's Office		575-746-9888	
Fire Department		575-746-2701	
Local Emergency Planning Committ	ee	575-746-2122	
New Mexico Oil Conservation Divis	ion	575-748-1283	
Carlsbad			
Ambulance		911	
State Police		575-885-3137	
City Police		575-885-2111	
Sheriff's Office		575-887-7551	
Fire Department		575-887-3798	
Local Emergency Planning Committ	ee	575-885-3581	
<u>Santa Fe</u>			
New Mexico Emergency Response		505-476-9600	
New Mexico Emergency Response	505-827-9126		
New Mexico State Emergency Oper	rations Center	505-476-9635	
National			
Carlsbad BLM		575-234-5972	
National Emergency Response Cent	ter (Washington, D.C.)	800-424-8802	
Medical			
Flight for Life- 4000 24th St.; Lubbo		806-743-9911	
Aerocare- R3, Box 49F; Lubbock, TX		806-747-8923	
Med Flight Air Ambulance- 2301 Ya	505-842-4433		
SB Air Med Service- 2505 Clark Carr	LOOP S.E.; Albuquerque, NM	505-842-4949	<u> </u>
Other			001 001 000
Boots & Coots IWC		800-256-9688	or 281-931-8884
Cudd Pressure Control		432-699-0139	or 432-563-3356
Haliburton		575-746-2757	
B.J. Services		575-746-3569	<u></u>



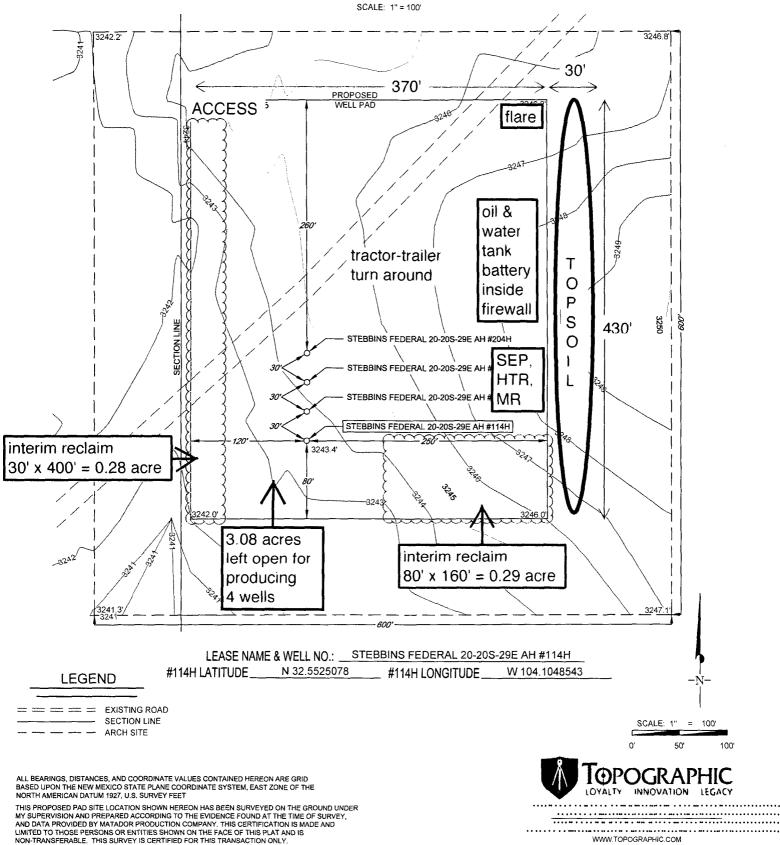
.







SECTION 20, TOWNSHIP 20-S, RANGE 29-E, N.M.P.M. EDDY COUNTY, NEW MEXICO PRODUCTION FACILITY & INTERIM RECLAMATION DIAGRAM



ORIGINAL DOCUMENT SIZE: 8.5" X 11"

Matador Production Company Stebbins 20 Fed 114H SHL 331' FSL & 130' FWL Sec. 20 BHL 330' FSL & 240' FEL Sec. 20 T. 20 S., R. 29 E., Eddy County, NM

Surface Use Plan

1. <u>ROAD DIRECTIONS & DESCRIPTIONS</u> (See MAPS 1–5)

From the junction of US 285 and Us 62/180 in Carlsbad... Go East 9.1 miles on paved US 62/180 to the equivalent of Mile Post 44.15 Then turn left and go North 5.8 miles on paved County Road 243 Then turn sharply right and go East 1 mile on paved County Road 238 Then turn right and go South 4436.1' cross-country to the proposed pad (length includes crossing 2 proposed Matador Stebbins well pads for 430' each)

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. Caliche will be hauled from the existing Constructors, Inc. pit on private land in NWNE 34-21s-27e.

2. <u>ROAD TO BE BUILT OR UPGRADED</u> (See MAPS 2-5)

A BLM approved archaeologist will fence a cultural resource site along the road and monitor initial construction. The 4436.1' of new road to the well will be crowned and ditched, have a 14' wide driving surface, and be surfaced with caliche. Maximum disturbed width = 30'. Maximum grade = 1%. Maximum cut or fill = 2'. An 18" x 50' culvert will be installed in the south borrow ditch of County Road 238. No upgrade, cattle guard, or vehicle turn out is needed.

Existing jeep trails will be blocked at 3 intersections: north and south of 32.56315° & -104.10602° west of 32.56075° & -104.10635°

Road right-of-way application was received by BLM November 3, 2016.



Matador Production Company Stebbins 20 Fed 114H SHL 331' FSL & 130' FWL Sec. 20 BHL 330' FSL & 240' FEL Sec. 20 T. 20 S., R. 29 E., Eddy County, NM

3. EXISTING WELLS (See MAP 2)

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

4. PROPOSED PRODUCTION FACILITIES (See MAPS 3 & 6-9)

A tank battery will be built on the east side of the pad. A \approx 6" O. D. steel gas line will be buried 4563.96' north parallel to the new road to NM Gas Company's 10" line (NMNM-112801). County road will be bored. Construction corridor will be 30' wide. Right-of-way application was received by BLM November 3, 2016.

A 4787.03' long overhead raptor safe 3-phase power line will be built north parallel to the gas line to Southwest Public Service's line (NMNM-120415). Construction corridor will be 15' wide. Right-of-way application was received by BLM November 3, 2016.

5. <u>WATER SUPPLY</u> (See MAPS 1-5)

Water will be trucked from existing water wells (C 0370 & C 03607) on private land in NENE 24-21s-27e.

6. <u>CONSTRUCTION MATERIALS & METHODS</u> (See MAPS 10 & 11)

NM One Call (811) will be notified before construction starts. Top \approx 6" of soil and brush will be stockpiled east of the pad. Pipe racks will be to the east. A closed loop drilling system will be used. Caliche will be hauled from the existing Constructors, Inc. pit on private land in NWNE 34-21s-27e.



Matador Production Company Stebbins 20 Fed 114H SHL 331' FSL & 130' FWL Sec. 20 BHL 330' FSL & 240' FEL Sec. 20 T. 20 S., R. 29 E., Eddy County, NM

7. WASTE DISPOSAL

All trash will be placed in a portable trash cage. It will be hauled to the Eddy County landfill. There will be no trash burning. Contents (drill cuttings, mud, salts, and other chemicals) of the mud tanks will be hauled to CRI's state approved (NM-01-0006) disposal site. Human waste will be disposed of in chemical toilets and hauled to the Carlsbad 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, or mud logger.

9. WELL SITE LAYOUT

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

10. <u>RECLAMATION</u>

Interim reclamation will consist of shrinking the pad $\approx 16\%$ by removing caliche and reclaiming the west side (30' x 400') and southeast corner (80' x 160'), leaving 3.08 acres around the production equipment. Disturbed areas will be contoured to match pre-construction grades. Soil and brush will be evenly spread over disturbed areas. Disturbed areas will be seeded in accordance with BLM requirements. Enough stockpiled topsoil will be retained to cover the remainder of the pad when the wells are plugged. Once the last well is plugged, then the remainder of the pad and new road will be similarly reclaimed. Noxious weeds will be controlled.



Matador Production Company Stebbins 20 Fed 114H SHL 331' FSL & 130' FWL Sec. 20 BHL 330' FSL & 240' FEL Sec. 20 T. 20 S., R. 29 E., Eddy County, NM

11. SURFACE OWNER

All construction will be on BLM

12. OTHER INFORMATION

On site inspection was held with Vance Wolf and Stan Allison (both BLM) on June 16, 2016.

These Lone Mountain archaeology reports cover the project from north to south: NMCRIS 136767 (October 21, 2016) NMCRIS 136774 (October 21, 2016) NMCRIS 136745 (September 23, 2016)



Matador Production Company Stebbins 20 Fed 114H SHL 331' FSL & 130' FWL Sec. 20 BHL 330' FSL & 240' FEL Sec. 20 T. 20 S., R. 29 E., Eddy County, NM

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 <u>5th</u> day of <u>November, 2016</u>.

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



PECOS DISTRICT DRILLING OPERATIONS CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Matador Production Company
LEASE NO.:	NMNM03677
WELL NAME & NO.:	114H-Stebbins 20 Fed
SURFACE HOLE FOOTAGE:	331'/S & 130'/W
BOTTOM HOLE FOOTAGE	330'/S & 240'/E
LOCATION:	Section 20, T.20 S., R.29 E., NMPM
COUNTY:	Eddy County, New Mexico

A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

Eddy County Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822

- 1. Although Hydrogen Sulfide has not been reported in the area, it is always a potential hazard. It is recommended that monitoring equipment be onsite for potential Hydrogen Sulfide. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, report measured amounts and formations to the BLM.
- Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval. If the drilling rig is removed without approval an Incident of Non-Compliance will be written and will be a "Major" violation.
- 3. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works is located, this does not include the dog house or stairway area.
- 4. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM

office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

B. CASING

Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

Wait on cement (WOC) for Water Basin:

After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least <u>8 hours</u>. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

High Cave/Karst Capitan Reef Possible water flows in the Artesia Group and Salado. Possibility of lost circulation in the Artesia Group, Rustler, Capitan Reef, and Delaware.

A MINIMUM OF TWO CASING STRINGS CEMENTED TO SURFACE IS <u>REQUIRED IN HIGH CAVE/KARST AREAS.</u> THE CEMENT MUST BE IN A SOLID SHEATH. THEREFORE, ONE INCH OPERATIONS ARE NOT SUFFICIENT TO PROTECT CAVE KARST RESOURCES. A CASING DESIGN THAT HAS A ONE INCH JOB PERFORMED DOES NOT COUNT AS A SOLID SHEATH.

1. The 20 inch surface casing shall be set at approximately 400 feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface. If salt is encountered, set casing at least 25 feet above the salt.

a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.

b. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.

- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The minimum required fill of cement behind the **13-3/8** inch 1st intermediate casing is:

Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.

3. The minimum required fill of cement behind the 9-5/8 inch 2^{nd} intermediate casing is:

Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to Capitan Reef.

4. The minimum required fill of cement behind the 5-1/2 inch production casing is:

Cement should tie-back at least 50 feet above the Capitan Reef, which will be 1180 feet (Top of Capitan Reef at 1230 feet). Operator shall provide method of verification. Excess calculated to 19%. Additional cement might be required.

5. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

C. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API 53.
- 2. Variance approved to use flex line from BOP to choke manifold. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor. If the BLM inspector questions the straightness of the hose, a BLM engineer will be contacted and will review in the field or via picture supplied by inspector to determine if changes are required (operator shall expect delays if this occurs).
- 3. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 20 inch surface casing shoe shall be 2000 (2M) annular.

Option 1:

- i. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **13-3/8** inch first intermediate casing shoe shall be **2000 (2M)** psi.
- ii. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **9-5/8** inch second intermediate casing shoe shall be **3000 (3M)** psi.

Option 2:

- i. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the first intermediate casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 13-3/8 inch first intermediate casing shoe shall be 3000 (3M) psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.

- c. Manufacturer representative shall install the test plug for the initial BOP test.
- d. Operator shall perform the intermediate casing integrity test to 70% of the casing burst. This will test the multi-bowl seals.
- e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 4. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. The tests shall be done by an independent service company utilizing a test plug **not a cup or J-packer**. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
 - c. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
 - d. The results of the test shall be reported to the appropriate BLM office.
 - e. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
 - f. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi.

The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.

D. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

E. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

MHH 04212017

PECOS DISTRICT SURFACE USE CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Matador Production Company
LEASE NO.:	NMNM03677
WELL NAME & NO.:	114H-Stebbins 20 Fed
SURFACE HOLE FOOTAGE:	331'/S & 130'/W
BOTTOM HOLE FOOTAGE	330'/S & 240'/E
LOCATION:	Section 20, T.20 S., R.29 E., NMPM
COUNTY:	Eddy County, New Mexico

TABLE OF CONTENTS

Standard Conditions of Approval (COA) apply to this APD. If any deviations to these standards exist or special COAs are required, the section with the deviation or requirement will be checked below.

	General Provisions
	Permit Expiration
	Archaeology, Paleontology, and Historical Sites
	Noxious Weeds
X	Special Requirements
	Cave/Karst
	Range waterline
	Two track road requirements
	Construction
	Notification
	Topsoil
	Closed Loop System
	Federal Mineral Material Pits
	Well Pads
	Roads
	Road Section Diagram
Х	Production (Post Drilling)
	Well Structures & Facilities
	Pipelines
	Electric Lines
	Interim Reclamation
	Final Abandonment & Reclamation

I. GENERAL PROVISIONS

The approval of the Application For Permit To Drill (APD) is in compliance with all applicable laws and regulations: 43 Code of Federal Regulations 3160, the lease terms, Onshore Oil and Gas Orders, Notices To Lessees, New Mexico Oil Conservation Division (NMOCD) Rules, National Historical Preservation Act As Amended, and instructions and orders of the Authorized Officer. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

II. PERMIT EXPIRATION

If the permit terminates prior to drilling and drilling cannot be commenced within 60 days after expiration, an operator is required to submit Form 3160-5, Sundry Notices and Reports on Wells, requesting surface reclamation requirements for any surface disturbance. However, if the operator will be able to initiate drilling within 60 days after the expiration of the permit, the operator must have set the conductor pipe in order to allow for an extension of 60 days beyond the expiration date of the APD. (Filing of a Sundry Notice is required for this 60 day extension.)

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural and/or paleontological resource discovered by the operator or by any person working on the operator's behalf shall immediately report such findings to the Authorized Officer. The operator is fully accountable for the actions of their contractors and subcontractors. The operator shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery shall be made by the Authorized Officer to determine the appropriate actions that shall be required to prevent the loss of significant cultural or scientific values of the discovery. The operator shall be held responsible for the cost of the proper mitigation measures that the Authorized Officer assesses after consultation with the operator on the evaluation and decisions of the discovery. Any unauthorized collection or disturbance of cultural or paleontological resources may result in a shutdown order by the Authorized Officer.

IV. NOXIOUS WEEDS

The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

V. SPECIAL REQUIREMENT(S)

Cave/Karst Surface Mitigation

The following stipulations will be applied to minimize impacts during construction, drilling and production.

Construction:

In the advent that any underground voids are opened up during construction activities, construction activities will be halted and the BLM will be notified immediately.

No Blasting:

No blasting will be utilized for pad construction. The pad will be constructed and leveled by adding the necessary fill and caliche.

Pad Berming:

The pad will be bermed to prevent oil, salt, and other chemical contaminants from leaving the pad.

Closed Mud System Using Steel Tanks with All Fluids and Cuttings Hauled Off.

A closed mud system using steel tanks for all cuttings and fluids is required. All fluids and cuttings will be hauled off site for disposal. <u>No pits are allowed</u>.

Tank Battery Liners and Berms:

Tank battery locations will be lined and bermed. A 20 mil permanent liner will be installed with a 4 oz. felt backing to prevent tears or punctures. Tank battery berms must be large enough to contain 1 $\frac{1}{2}$ times the content of the largest tank.

Leak Detection System:

A method of detecting leaks is required. The method could incorporate gauges to measure loss, situating values and lines so they can be visually inspected, or installing electronic sensors to alarm when a leak is present. Leak detection plan will be submitted to BLM for approval.

Automatic Shut-off Systems:

Automatic shut off, check values, or similar systems will be installed for pipelines and tanks to minimize the effects of catastrophic line failures used in production or drilling.

Cave/Karst Subsurface Mitigation

The following stipulations will be applied to protect cave/karst and ground water concerns:

Rotary Drilling with Fresh Water:

Fresh water will be used as a circulating medium in zones where caves or karst features are expected. SEE ALSO: Drilling COAs for this well.

Directional Drilling:

Kick off for directional drilling will occur at least 100 feet below the bottom of the cave occurrence zone. SEE ALSO: Drilling COAs for this well.

Lost Circulation:

ALL lost circulation zones from the surface to the base of the cave occurrence zone will be logged and reported in the drilling report.

Regardless of the type of drilling machinery used, if a void of four feet or more and circulation losses greater than 70 percent occur simultaneously while drilling in any cavebearing zone, the BLM will be notified immediately by the operator. The BLM will assess the situation and work with the operator on corrective actions to resolve the problem.

Abandonment Cementing:

Upon well abandonment in high cave karst areas additional plugging conditions of approval may be required. The BLM will assess the situation and work with the operator to ensure proper plugging of the wellbore.

Pressure Testing:

Annual pressure monitoring will be performed by the operator on all casing annuli and reported in a sundry notice. If the test results indicated a casing failure has occurred, remedial action will be undertaken to correct the problem to the BLM's approval.

Range Waterline

A livestock water line is located near the Stebbins 20 Federal Slot 3 well pad and would be re-routed by the Applicant prior to construction of the pad. Following proper procedures for crossing fence lines including bracing and tying off on both sides of the passageway with H-braces prior to cutting the fence, would mitigate the impacts to the fence. The operator would notify the grazing allotment holders prior to crossing any fences.

Any damage to fences, cattle guards, and pipelines or structures that provide water to livestock during construction, throughout the life of the project, and caused by its operation, must be immediately corrected by the Applicant. The Applicant must notify the grazing allottee or the private surface landowner and the BLM-CFO (575-234-5972) if any damage occurs to pipelines or structures that provide water to livestock.

Two-Track Road Reclamation Requirements

The two track road identified in the "Location Verification Map" in the APD and "Figure 1" in this document must be reclaimed during the same time as the new road construction. Reclamation procedures shall include ripping or disking the two-track road to break up the soil. The edges of the road and roadbed need to be contoured to match

the surrounding terrain. The two ends of the portion of two-track road to be reclaimed must be sufficiently barricaded to prevent vehicle traffic on the reclamation.

•

٠

VI. CONSTRUCTION

A. NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at (575) 234-5909 at least 3 working days prior to commencing construction of the access road and/or well pad.

When construction operations are being conducted on this well, the operator shall have the approved APD and Conditions of Approval (COA) on the well site and they shall be made available upon request by the Authorized Officer.

B. TOPSOIL

The operator shall strip the top portion of the soil (root zone) from the entire well pad area and stockpile the topsoil along the edge of the well pad as depicted in the APD. The root zone is typically six (6) inches in depth. All the stockpiled topsoil will be redistributed over the interim reclamation areas. Topsoil shall not be used for berming the pad or facilities. For final reclamation, the topsoil shall be spread over the entire pad area for seeding preparation.

Other subsoil (below six inches) stockpiles must be completely segregated from the topsoil stockpile. Large rocks or subsoil clods (not evident in the surrounding terrain) must be buried within the approved area for interim and final reclamation.

C. CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

The operator shall properly dispose of drilling contents at an authorized disposal site.

D. FEDERAL MINERAL MATERIALS PIT

Payment shall be made to the BLM prior to removal of any federal mineral materials. Call the Carlsbad Field Office at (575) 234-5972.

E. WELL PAD SURFACING

Surfacing of the well pad is not required.

If the operator elects to surface the well pad, the surfacing material may be required to be removed at the time of reclamation. The well pad shall be constructed in a manner which creates the smallest possible surface disturbance, consistent with safety and operational needs.

F. EXCLOSURE FENCING (CELLARS & PITS)

Exclosure Fencing

The operator will install and maintain exclosure fencing for all open well cellars to prevent access to public, livestock, and large forms of wildlife before and after drilling operations until the pit is free of fluids and the operator initiates backfilling. (For examples of exclosure fencing design, refer to BLM's Oil and Gas Gold Book, Exclosure Fence Illustrations, Figure 1, Page 18.)

G. ON LEASE ACCESS ROADS

Road Width

The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed fourteen (14) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed twenty-five (25) feet.

Surfacing

Surfacing material is not required on the new access road driving surface. If the operator elects to surface the new access road or pad, the surfacing material may be required to be removed at the time of reclamation.

Where possible, no improvements should be made on the unsurfaced access road other than to remove vegetation as necessary, road irregularities, safety issues, or to fill low areas that may sustain standing water.

The Authorized Officer reserves the right to require surfacing of any portion of the access road at any time deemed necessary. Surfacing may be required in the event the road deteriorates, erodes, road traffic increases, or it is determined to be beneficial for future field development. The surfacing depth and type of material will be determined at the time of notification.

Crowning

Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

Ditching

Ditching shall be required on both sides of the road.

Turnouts

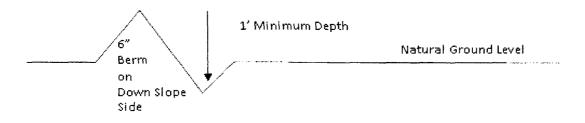
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outsloping and insloping, lead-off ditches, culvert installation, and low water crossings).

A typical lead-off ditch has a minimum depth of 1 foot below and a berm of 6 inches above natural ground level. The berm shall be on the down-slope side of the lead-off ditch.

Cross Section of a Typical Lead-off Ditch



All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval are variable for lead-off ditches and shall be determined according to the formula for spacing intervals of lead-off ditches, but may be amended depending upon existing soil types and centerline road slope (in %);

Formula for Spacing Interval of Lead-off Ditches

Example - On a 4% road slope that is 400 feet long, the water flow shall drain water into a lead-off ditch. Spacing interval shall be determined by the following formula:

400 foot road with 4% road slope: $\underline{400'}_{4\%}$ + 100' = 200' lead-off ditch interval $\underline{4\%}$

Cattle guards

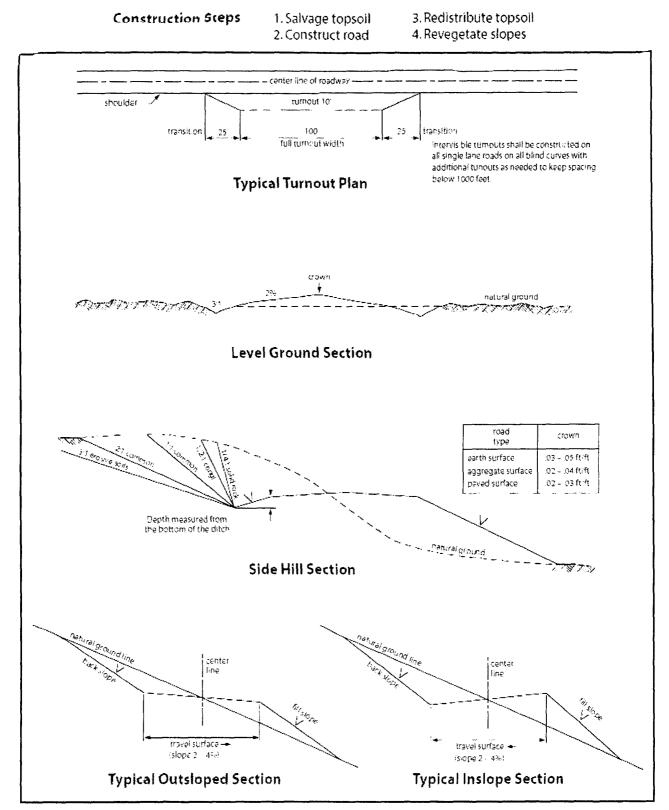
An appropriately sized cattle guard sufficient to carry out the project shall be installed and maintained at fence/road crossings. Any existing cattle guards on the access road route shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattle guards that are in place and are utilized during lease operations.

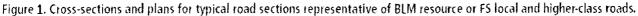
Fence Requirement

Where entry is granted across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting. The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fences.

Public Access

Public access on this road shall not be restricted by the operator without specific written approval granted by the Authorized Officer.





VII. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

Production facilities should be placed on the well pad to allow for maximum interim recontouring and revegetation of the well location.

Exclosure Netting (Open-top Tanks)

Immediately following active drilling or completion operations, the operator will take actions necessary to prevent wildlife and livestock access, including avian wildlife, to all open-topped tanks that contain or have the potential to contain salinity sufficient to cause harm to wildlife or livestock, hydrocarbons, or Resource Conservation and Recovery Act of 1976-exempt hazardous substances. At a minimum, the operator will net, screen, or cover open-topped tanks to exclude wildlife and livestock and prevent mortality. If the operator uses netting, the operator will cover and secure the open portion of the tank to prevent wildlife entry. The operator will net, screen, or cover the tanks until the operator removes the tanks from the location or the tanks no longer contain substances that could be harmful to wildlife or livestock. Use a maximum netting mesh size of 1 ½ inches. The netting must not be in contact with fluids and must not have holes or gaps.

Chemical and Fuel Secondary Containment and Exclosure Screening

The operator will prevent all hazardous, poisonous, flammable, and toxic substances from coming into contact with soil and water. At a minimum, the operator will install and maintain an impervious secondary containment system for any tank or barrel containing hazardous, poisonous, flammable, or toxic substances sufficient to contain the contents of the tank or barrel and any drips, leaks, and anticipated precipitation. The operator will dispose of fluids within the containment system that do not meet applicable state or U. S. Environmental Protection Agency livestock water standards in accordance with state law; the operator must not drain the fluids to the soil or ground. The operator will design, construct, and maintain all secondary containment systems to prevent wildlife and livestock exposure to harmful substances. At a minimum, the operator will install effective wildlife and livestock exclosure systems such as fencing, netting, expanded metal mesh, lids, and grate covers. Use a maximum netting mesh size of 1 ½ inches.

Open-Vent Exhaust Stack Exclosures

The operator will construct, modify, equip, and maintain all open-vent exhaust stacks on production equipment to prevent birds and bats from entering, and to discourage perching, roosting, and nesting. (*Recommended exclosure structures on open-vent exhaust stacks are in the shape of a cone.*) Production equipment includes, but may not be limited to, tanks, heater-treaters, separators, dehydrators, flare stacks, in-line units, and compressor mufflers.

Containment Structures

Proposed production facilities such as storage tanks and other vessels will have a secondary containment structure that is constructed to hold the capacity of 1.5 times the largest tank, plus freeboard to account for precipitation, unless more stringent protective requirements are deemed necessary.

Painting Requirement

All above-ground structures including meter housing that are not subject to safety requirements shall be painted a flat non-reflective paint color, <u>Shale Green</u> from the BLM Standard Environmental Color Chart (CC-001: June 2008).

B. PIPELINES

BURIED PIPELINE STIPULATIONS

A copy of the application (Grant, APD, or Sundry Notice) and attachments, including conditions of approval, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

1. The Holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.

2. The Holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.

3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, <u>et seq</u>. or the Resource Conservation and Recovery Act, 42 U.S.C.6901, <u>et seq</u>.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of

the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

4. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil or other pollutant, wherever found, shall be the responsibility of holder, regardless of fault. Upon failure of holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve holder of any responsibility as provided herein.

5. All construction and maintenance activity will be confined to the authorized right-of-way.

6. The pipeline will be buried with a minimum cover of 36 inches between the top of the pipe and ground level.

7. The maximum allowable disturbance for construction in this right-of-way will be $\underline{30}$ feet:

- Blading of vegetation within the right-of-way will be allowed: maximum width of blading operations will not exceed **20** feet. The trench is included in this area. (*Blading is defined as the complete removal of brush and ground vegetation.*)
- Clearing of brush species within the right-of-way will be allowed: maximum width of clearing operations will not exceed <u>30</u> feet. The trench and bladed area are included in this area. (*Clearing is defined as the removal of brush while leaving ground vegetation (grasses, weeds, etc.) intact. Clearing is best accomplished by holding the blade 4 to 6 inches above the ground surface.*)
- The remaining area of the right-of-way (if any) shall only be disturbed by compressing the vegetation. (*Compressing can be caused by vehicle tires, placement of equipment, etc.*)

8. The holder shall stockpile an adequate amount of topsoil where blading is allowed. The topsoil to be stripped is approximately <u>6</u> inches in depth. The topsoil will be segregated from other spoil piles from trench construction. The topsoil will be evenly distributed over the bladed area for the preparation of seeding. 9. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

10. Vegetation, soil, and rocks left as a result of construction or maintenance activity will be randomly scattered on this right-of-way and will not be left in rows, piles, or berms, unless otherwise approved by the Authorized Officer. The entire right-of-way shall be recontoured to match the surrounding landscape. The backfilled soil shall be compacted and a 6 inch berm will be left over the ditch line to allow for settling back to grade.

11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.

12. The holder will reseed all disturbed areas. Seeding will be done according to the attached seeding requirements, using the following seed mix.

() seed mixture 1	() seed mixture 3
() seed mixture 2	(X) seed mixture 4
() seed mixture 2/LPC	() Aplomado Falcon Mixture

13. All above-ground structures not subject to safety requirements shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be color which simulates "Standard Environmental Colors" – **Shale Green**, Munsell Soil Color No. 5Y 4/2.

14. The pipeline will be identified by signs at the point of origin and completion of the right-of-way and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. All signs and information thereon will be posted in a permanent, conspicuous manner, and will be maintained in a legible condition for the life of the pipeline.

15. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder before maintenance begins. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway. As determined necessary during the life of the pipeline, the Authorized Officer may ask the holder to construct temporary deterrence structures.

16. Any cultural and/or paleontological resources (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the Authorized Officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

17. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes associated roads, pipeline corridor and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

18. <u>Escape Ramps</u> - The operator will construct and maintain pipeline/utility trenches [that are not otherwise fenced, screened, or netted] to prevent livestock, wildlife, and humans from becoming entrapped. At a minimum, the operator will construct and maintain escape ramps, ladders, or other methods of avian and terrestrial wildlife escape in the trenches according to the following criteria:

- a. Any trench left open for eight (8) hours or less is not required to have escape ramps; however, before the trench is backfilled, the contractor/operator shall inspect the trench for wildlife, remove all trapped wildlife, and release them at least 100 yards from the trench.
- b. For trenches left open for eight (8) hours or more, earthen escape ramps (built at no more than a 30 degree slope and spaced no more than 500 feet apart) shall be placed in the trench.

C. ELECTRIC LINES

STANDARD STIPULATIONS FOR OVERHEAD ELECTRIC DISTRIBUTION LINES

A copy of the grant and attachments, including stipulations, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations. Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

1. The holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.

2. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 <u>et seq</u>. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.

3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, <u>et seq</u>. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, <u>et seq</u>.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

4. There will be no clearing or blading of the right-of-way unless otherwise agreed to in writing by the Authorized Officer.

5. Power lines shall be constructed and designed in accordance to standards outlined in "Suggested Practices for Avian Protection on Power lines: The State of the Art in 2006" Edison Electric Institute, APLIC, and the California Energy Commission 2006. The holder shall assume the burden and expense of proving that pole designs not shown in the above publication deter raptor perching, roosting, and nesting. Such proof shall be provided by a raptor expert approved by the Authorized Officer. The BLM reserves the right to require modification or additions to all powerline structures placed on this right-of-way, should they be necessary to ensure the safety of large perching birds. Such modifications and/or additions shall be made by the holder without liability or expense to the United States.

Raptor deterrence will consist of but not limited to the following: triangle perch discouragers shall be placed on each side of the cross arms and a nonconductive perching

deterrence shall be placed on all vertical poles that extend past the cross arms.

6. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

7. The BLM serial number assigned to this authorization shall be posted in a permanent, conspicuous manner where the power line crosses roads and at all serviced facilities. Numbers will be at least two inches high and will be affixed to the pole nearest the road crossing and at the facilities served.

8. Upon cancellation, relinquishment, or expiration of this grant, the holder shall comply with those abandonment procedures as prescribed by the Authorized Officer.

9. All surface structures (poles, lines, transformers, etc.) shall be removed within 180 days of abandonment, relinquishment, or termination of use of the serviced facility or facilities or within 180 days of abandonment, relinquishment, cancellation, or expiration of this grant, whichever comes first. This will not apply where the power line extends service to an active, adjoining facility or facilities.

10. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the Authorized Officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

- 11. Special Stipulations:
 - For reclamation remove poles, lines, transformer, etc. and dispose of properly.
 - Fill in any holes from the poles removed.

VIII. INTERIM RECLAMATION

During the life of the development, all disturbed areas not needed for active support of production operations should undergo interim reclamation in order to minimize the environmental impacts of development on other resources and uses.

Within six (6) months of well completion, operators should work with BLM surface management specialists (Jim Amos: 575-234-5909) to devise the best strategies to reduce

the size of the location. Interim reclamation should allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche is important to increasing the success of revegetating the site. Removed caliche that is free of contaminants may be used for road repairs, fire walls or for building other roads and locations. In order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for production or workover operations will be allowed. If there is significant disturbance and loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

All disturbed areas after they have been satisfactorily prepared need to be reseeded with the seed mixture provided below.

Upon completion of interim reclamation, the operator shall submit a Sundry Notices and Reports on Wells, Subsequent Report of Reclamation (Form 3160-5).

IX. FINAL ABANDONMENT & RECLAMATION

At final abandonment, well locations, production facilities, and access roads must undergo "final" reclamation so that the character and productivity of the land are restored.

Earthwork for final reclamation must be completed within six (6) months of well plugging. All pads, pits, facility locations and roads must be reclaimed to a satisfactory revegetated, safe, and stable condition, unless an agreement is made with the landowner or BLM to keep the road and/or pad intact.

After all disturbed areas have been satisfactorily prepared, these areas need to be revegetated with the seed mixture provided below. Seeding should be accomplished by drilling on the contour whenever practical or by other approved methods. Seeding may need to be repeated until revegetation is successful, as determined by the BLM.

Operators shall contact a BLM surface protection specialist prior to surface abandonment operations for site specific objectives (Jim Amos: 575-234-5909).

Mixture 4, for Gypsum Sites

The holder shall seed all the disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be <u>no</u> primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law(s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

Species	<u>lb/acre</u>
Alkli Sacaton (Sporobolus airoides)	1.5
DWS~ Four-wing saltbush (Atriplex canescens)	8.0

~DWS: DeWinged Seed

*Pounds of pure live seed:

Pounds of seed x percent purity x percent germination = pounds pure live seed

5 CFR 610.111 - Establishment of workweeks.

- eCFR
- Authorities (U.S. Code)
- What Cites Me

prev | next

§ 610.111 Establishment of workweeks.

(a) The head of each agency, with respect to each full-time employee to whom this subpart applies, shall establish by a written agency policy statement:

(1) A basic workweek of 40 hours which does not extend over more than 6 of any 7 consecutive days. Except as provided in paragraphs (b), (c), and (d) of this section, the written agency policy statement shall specify the days and hours within the administrative workweek that constitute the basic workweek.

(2) A regularly scheduled administrative workweek that consists of the 40-hour basic workweek established in accordance with paragraph (a)(1) of this section, plus the period of regular overtime work, if any, required of each employee. Except as provided in paragraphs (b), (c), and (d) of this section, the written agency policy statement, for purposes of leave and overtime pay administration, shall specify by days and hours of each day the periods included in the regularly scheduled administrative workweek that do not constitute a part of the basic workweek.

(b) When it is impracticable to prescribe a regular schedule of definite hours of duty for each workday of a regularly scheduled administrative workweek, the head of an agency may establish the first 40 hours of duty performed within a period of not more than 6 days of the administrative workweek as the basic workweek. A first 40-hour tour of duty is the basic workweek without the requirement for specific days and hours within the administrative workweek. All work performed by an employee within the first 40 hours is considered regularly scheduled work for premium pay and hours of duty purposes. Any additional hours of officially ordered or approved work within the administrative workweek are overtime work.

(c) (1) When an employee is paid additional pay under section 5545(c)(1) of title 5, United States Code, his regularly scheduled administrative workweek is the total number of regularly scheduled hours of duty a week.

(2) When an employee has a tour of duty which includes a period during which he remains at or within the confines of his station in a standby status rather than performing actual work his regularly scheduled administrative workweek is the total number of regularly scheduled hours of duty a week, including time in a standby status except that allowed for sleep and meals by a written agency policy statement.

J) When the head of an agency establishes a flexible or compressed work schedule under section 122 or section 6127 of title 5, United States Code, he or she shall establish a basic work quirement for each employee as defined in section 6121 of title 5, United States Code. A flexible or npressed work schedule is a scheduled tour of duty and all work performed by an employee hin the basic work requirement is considered regularly scheduled work for premium pay and rs of duty purposes.

.S.C. 5548 and 6101(c))