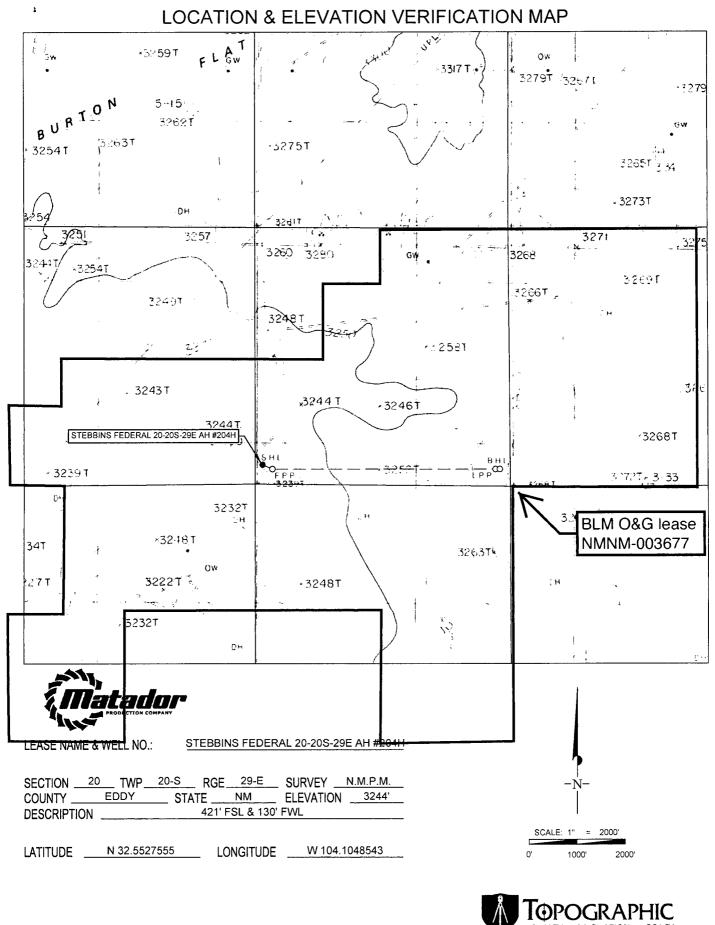
Carlsbad Fie	ld Of	fice		HIGH (CAVE	EKARST
160-3 OCD Ar				OMB N	APPROVI o. 1004-011 ctober 31, 2	37
UNITED STATES DEPARTMENT OF THE I BUREAU OF LAND MAN	INTERIOR			5. Lease Serial No. NMNM-003	· ·	
APPLICATION FOR PERMIT TO		REENTER		6. If Indian, Allotee N/A	or Tribe 1	Name
la. Type of work: DRILL REENTE	ER			7 If Unit or CA Agreen N/A	ement, Na	ame and No.
Ib. Type of Well: Oil Well 🖌 Gas Well 🗌 Other	Sing Sing	gle Zone 🔲 Multip	le Zone	8. Lease Name and W STEBBINS 20 FED		
2. Name of Operator MATADOR PRODUCTION COMPANY				9. API Well No. 30-015- 4441	77	
3a. Address 5400 LBJ FREEWAY, SUITE 1500 DALLAS, TX 75240	3b. Phone No. 972 371 524	(include area code) 41		10. Field and Pool, or E BURTON FLAT; W	-	-
4. Location of Well (Report location clearly and in accordance with an	y State requireme		TION	11. Sec., T. R. M. or B	lk. and Su	rvey or Area
At surface 421' FSL & 130' FWL 20-20S-29E At proposed prod. zone 330' FSL & 240' FEL 20-20S-29E	A	RTESIA DISTRICI	-	SHL: SWSW 20-20 BHL: SESE 20-20		
 14. Distance in miles and direction from nearest town or post office* 11 MILES NE OF CARLSBAD, NM 		MAY 1 5 2017		12. County or Parish EDDY		13. State NM
15. Distance from proposed* location to nearest property or lease line, ft. BHL: 408' (Also to nearest drig. unit line, if any)	16. No. of ac BLM lease	res HCEIVED = 2150.97 acres	17. Spacin S2 20-2	g Unit dedicated to this v 0S-29E	vell	<u>_</u>
 18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. SHL: 30' Steb. 20 134H BHL: 255' (dittto) 	19. Proposed TVD: 9305' MD: 14136'			BIA Bond No. on file 1B-001079		
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3244' UNGRADED	22 Approxim	ate date work will star	t*	23. Estimated duration 3 MONTHS	n	
	24. Attacl	hments		<u>- 1</u>		•····
The following, completed in accordance with the requirements of Onshor	re Oil and Gas O	Order No.1, must be at	tached to th	is form:		
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office). 	Lands, the	Item 20 above). 5. Operator certific	ation	ns unless covered by an ormation and/or plans as	-	
25. Signature		Printed Typed) WOOD (PH	ONE: 505	466-8120)	Date 11/05/	2016
Title		(FA)	X: 505 46	6-9682)		
Approved by (Signature)	Name	(Printed Typed)	1.1	an jon	Date	110/17
Title Gran FIELD MANAGER	Office	CARLSB	4D FI	ELD OFFIC	E	
Application approval does not warrant or certify that the applicant hold conduct operations thereon. Conditions of approval, if any, are attached.	• •	able title to those right		- _	ntitle the	applicant to
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	rime for any pe to any matter wi	rson knowingly and w thin its jurisdiction.	villfully to n	nake to any department o	r agency	of the United
(Continued on page 2)				*(Inst	ruction	s on page 2)

SEE ATTACHED FOR CONDITIONS OF APPROVAL

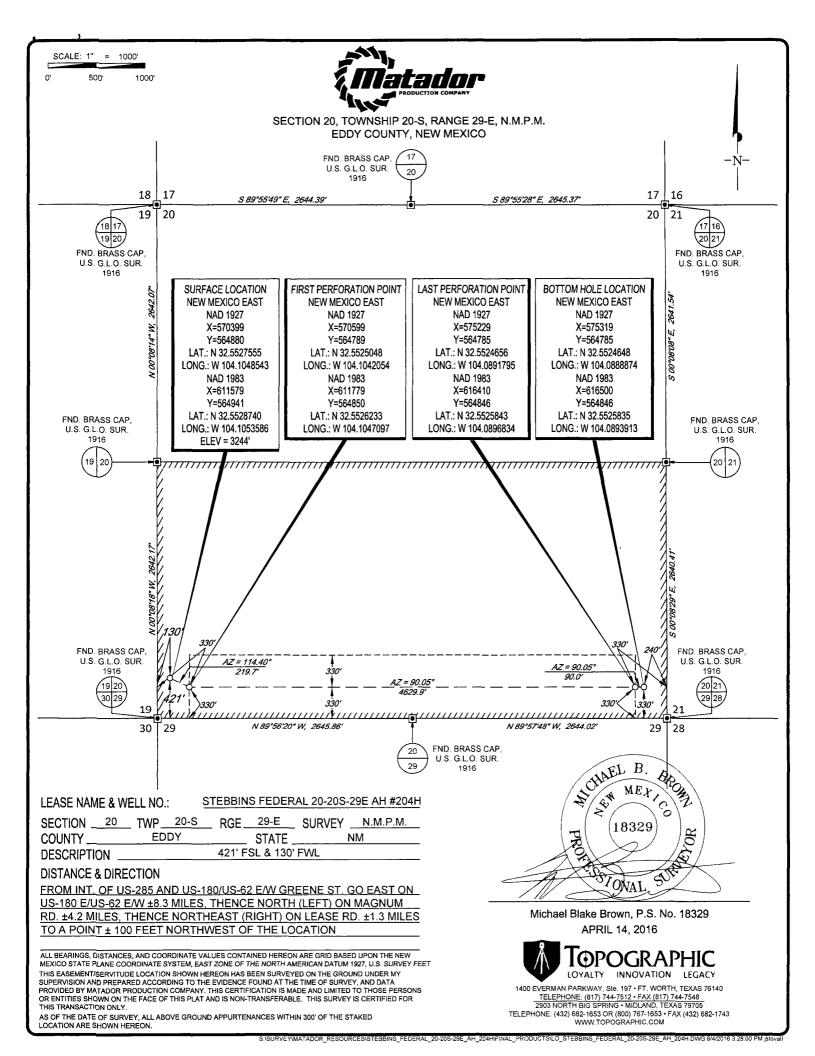
• 2													
District I 1625 N. French Dr., H	Jobbe NM 882	10				State of	of Nev	w Mexico					FORM C-102
Phone: (575) 393-616					Energ	v. Minera	als &	Natural Res	ources			R	Revised August 1, 201
District II 811 S. First St., Artes	ia, NM 88210				211012		eparti		NM C	AL CON	ISERVA	THOR on	e copy to appropriate
Phone: (575) 748-128 District III	3 Fax: (575) 74	48-9720			OII		*	TION DIVIS			DISTRICT		District Office
1000 Rio Brazos Road					UIL					1 AV 1	F 2017		District Office
Phone: (505) 334-617 District IV	8 Fax: (505) 3.	34-6170						. Francis Dr.		MAY Ł	5 2017		
1220 S. St. Francis Di Phone: (505) 476-346						Sante	Fe, N	M 87505				ł	AMENDED REPORT
Thone: (303) 170 5 10	1 u. (505) 1									RECE	IVED		
			WEL	LLC)CAT	ION AND	ACR	EAGE DEDI	[CATI	ON PL	AT		
	¹ API Numbe				² Pool C		1			³ Pool I			
30-015-	4417	7			7348	80		BURTON	FLAT;	WOLF	CAMP	EAST	(GAS)
⁴ Property	Code		I				operty N	ame					⁶ Well Number
3150	07			ST	EBB	INS 20 FE	Ð						#204H
⁷ OGRID						⁸ O	perator N	ame				1	⁹ Elevation
22893	37			I	MATA	DOR PRO	DUCI	FION COMP	ANY				3244'
1 ,						¹⁰ Sur	face Lo	ocation				•	
UL or lot no.	Section	Township		Range	Lot		from the	North/South li	пе	Feet from the	E	ast/West lin	e County
M	20	20-	S 29)-Е	—	421		SOUTH	1	.30'	WE	EST	EDDY
<u></u>	<u> </u>												, <u>, , , , , , , , , , , , , , , , , , </u>
UL or lot no.	Section	Township		Range	Lot	Idn Feet	from the	North/South li	ne	Feet from the	E	ast/West lin	e County
Р	20	20-	S 29)-E	_	330)'	SOUTH		240'	EA	ST	EDDY
¹² Dedicated Acres	¹³ Joint or	Infill	¹⁴ Consolida	ation Coc	ie ¹	⁵ Order No.			I		.l		
320					l l								

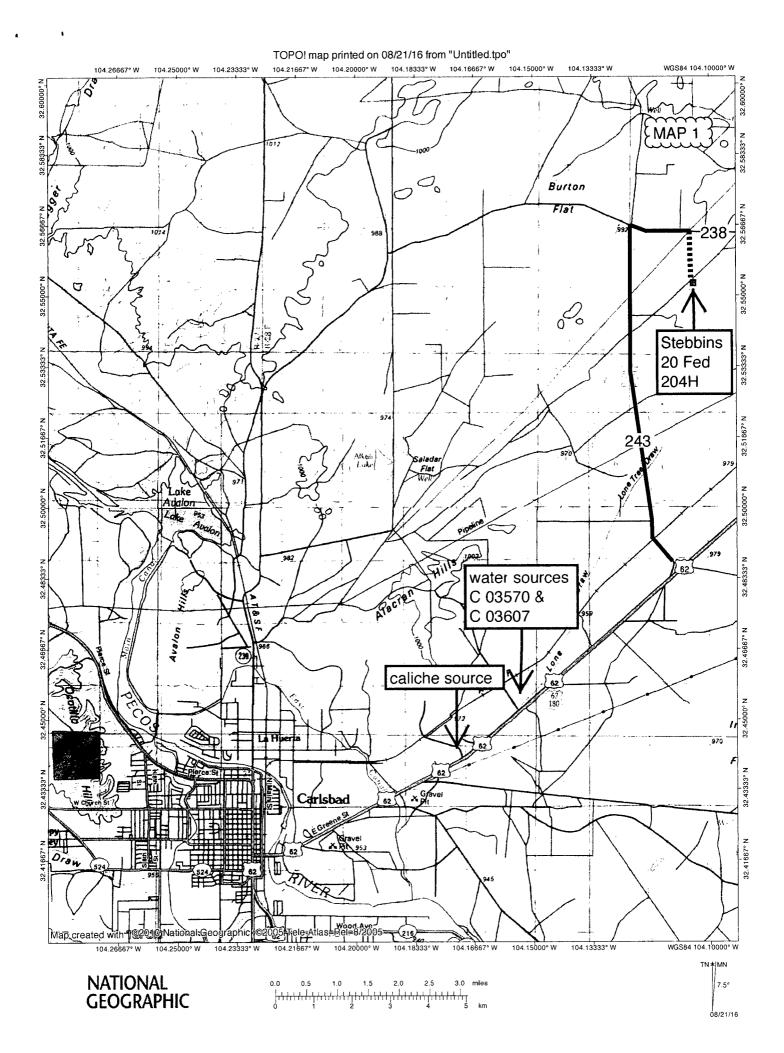
No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

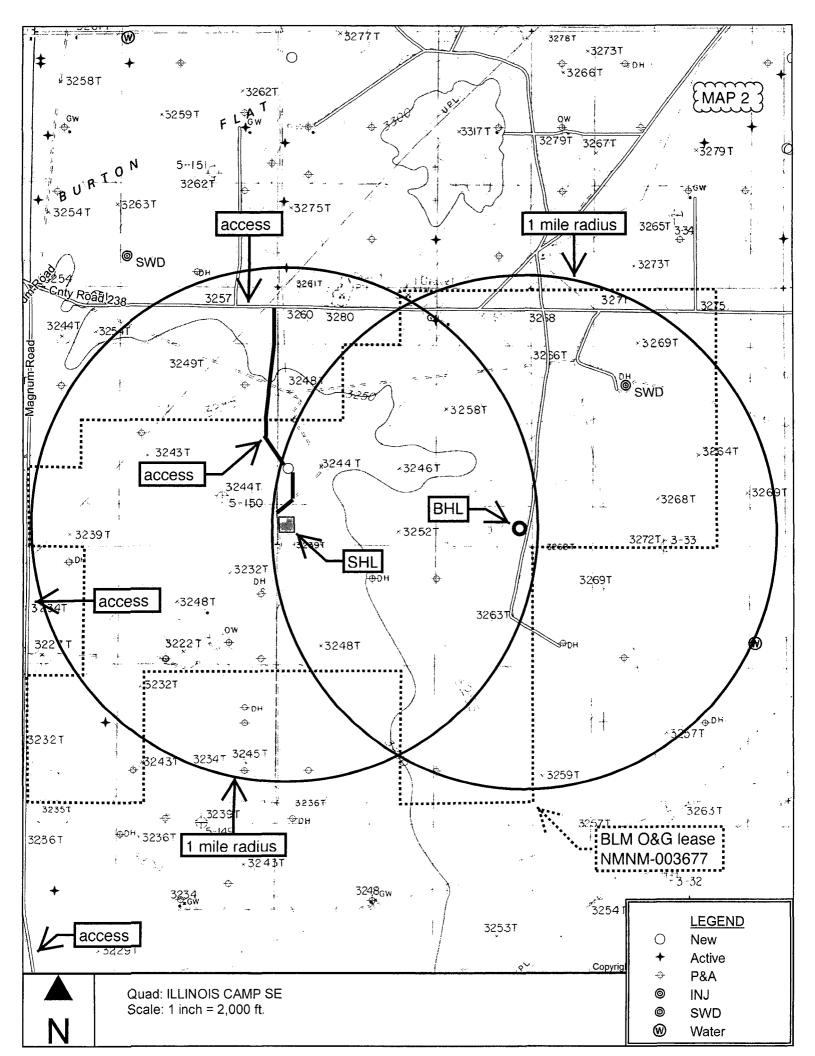


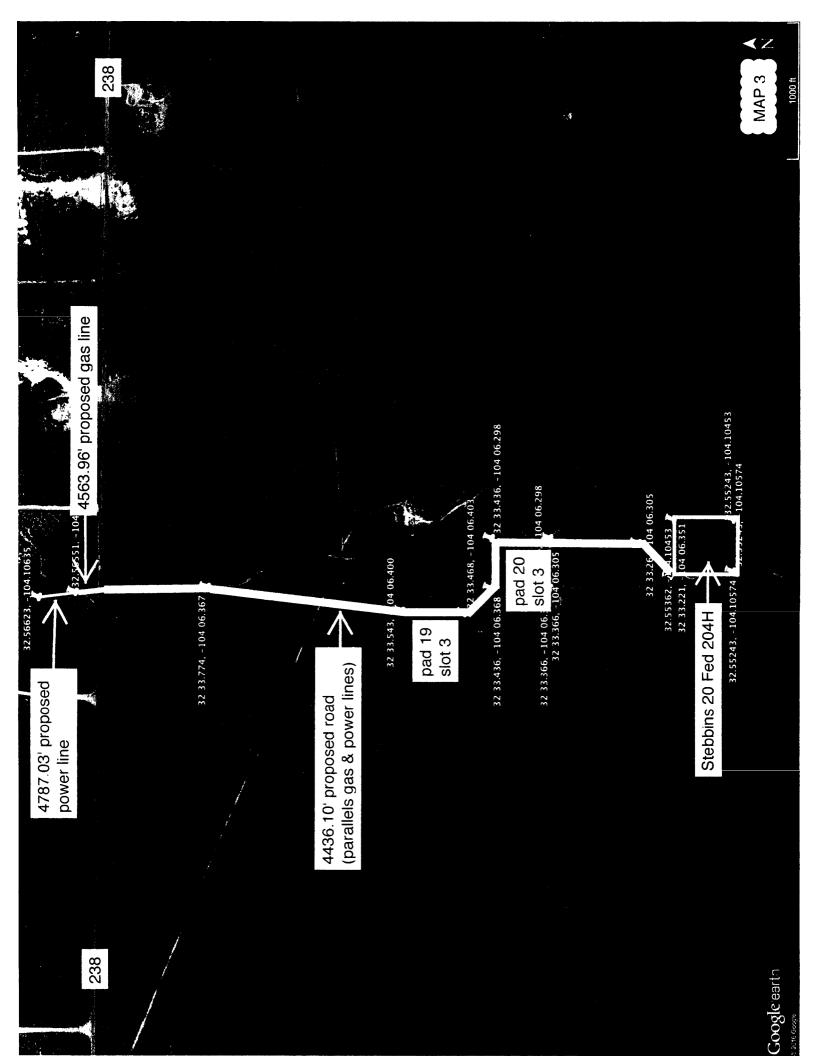
THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY MATADOR PRODUCTION COMPANY. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY. LOYALTY INNOVATION LEGACY 1400 EVERMAN PARKWAY, SIE, 197 • FT. WORTH, TEXAS 76140 <u>TELEPHONE:</u> (817) 744-7512 • FAX (817) 744-7548 2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705 TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743 WWW.TOPOGRAPHIC.COM

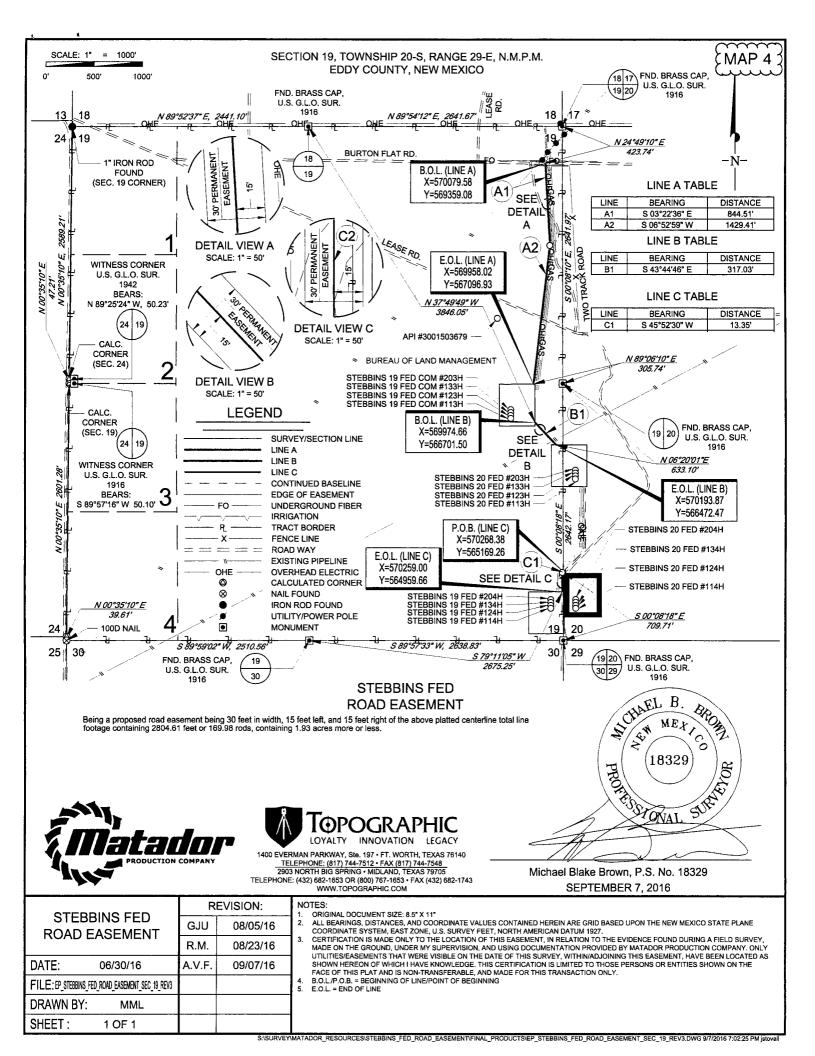
ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE OF THE NORTH AMERICAN DATUM 1927, U.S. SURVEY FEET.

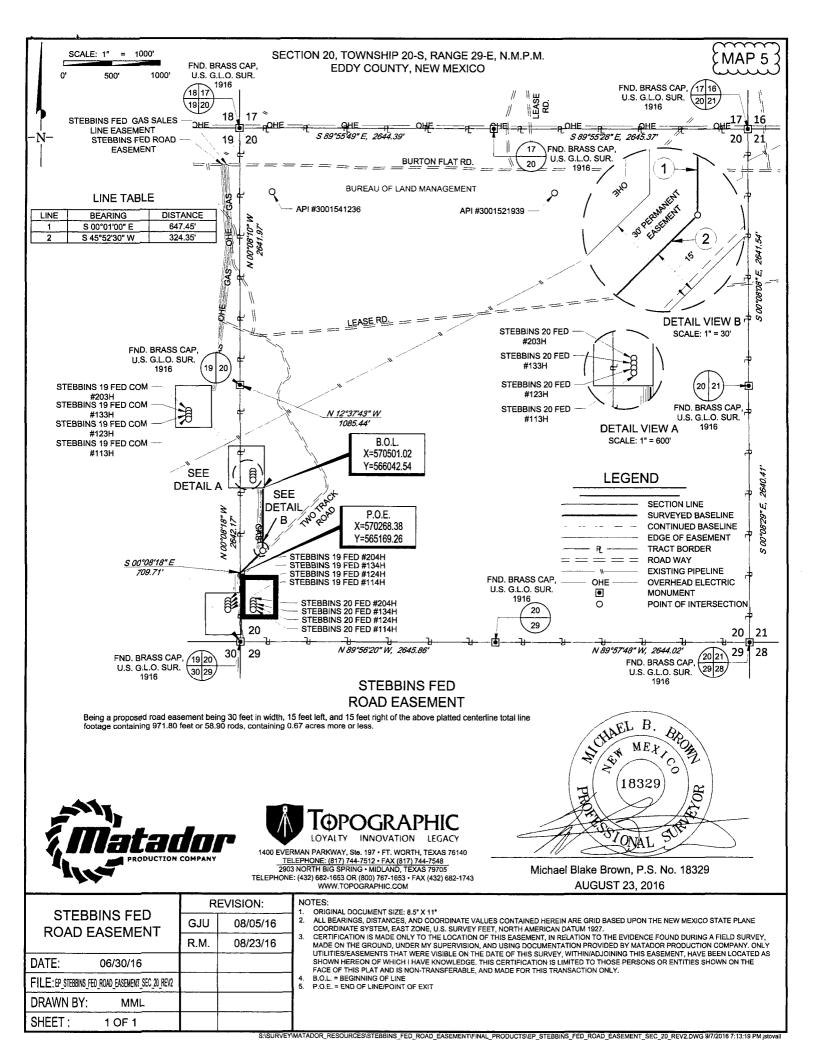


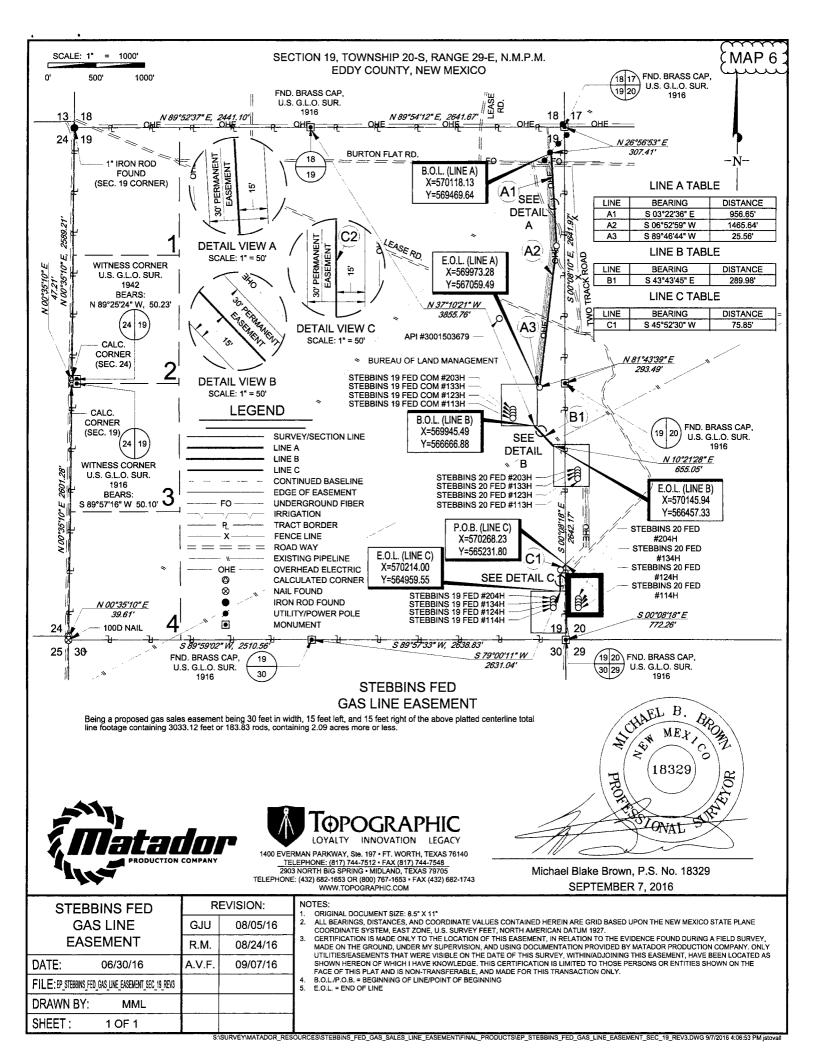


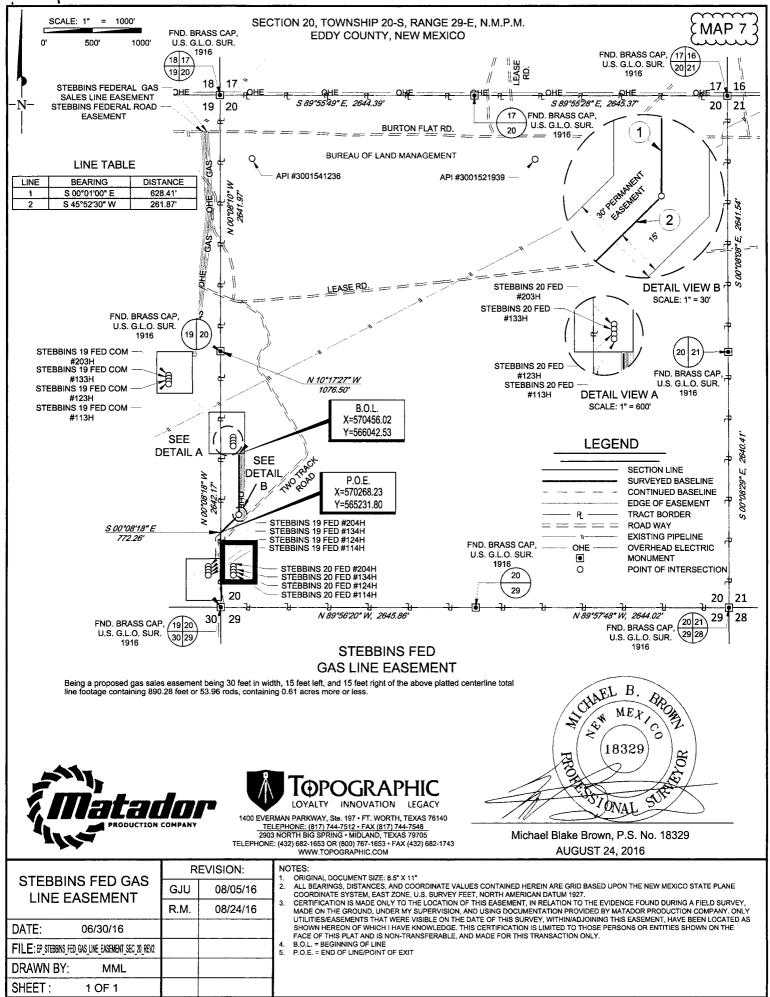


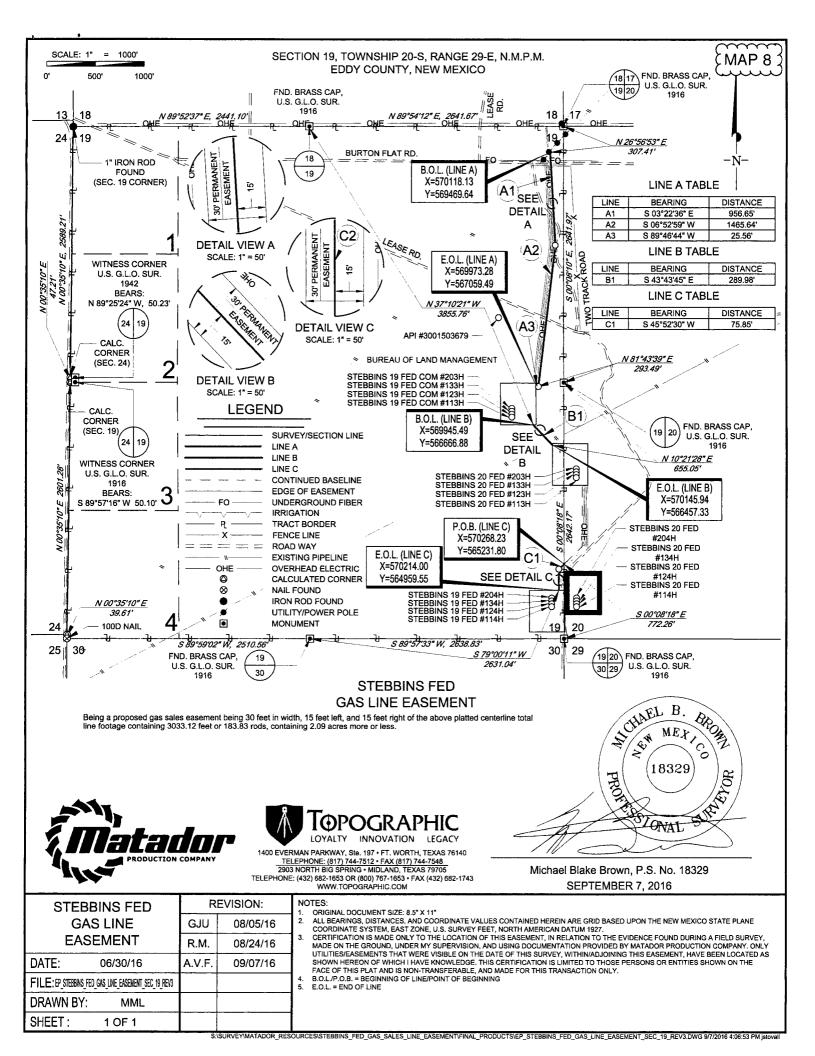


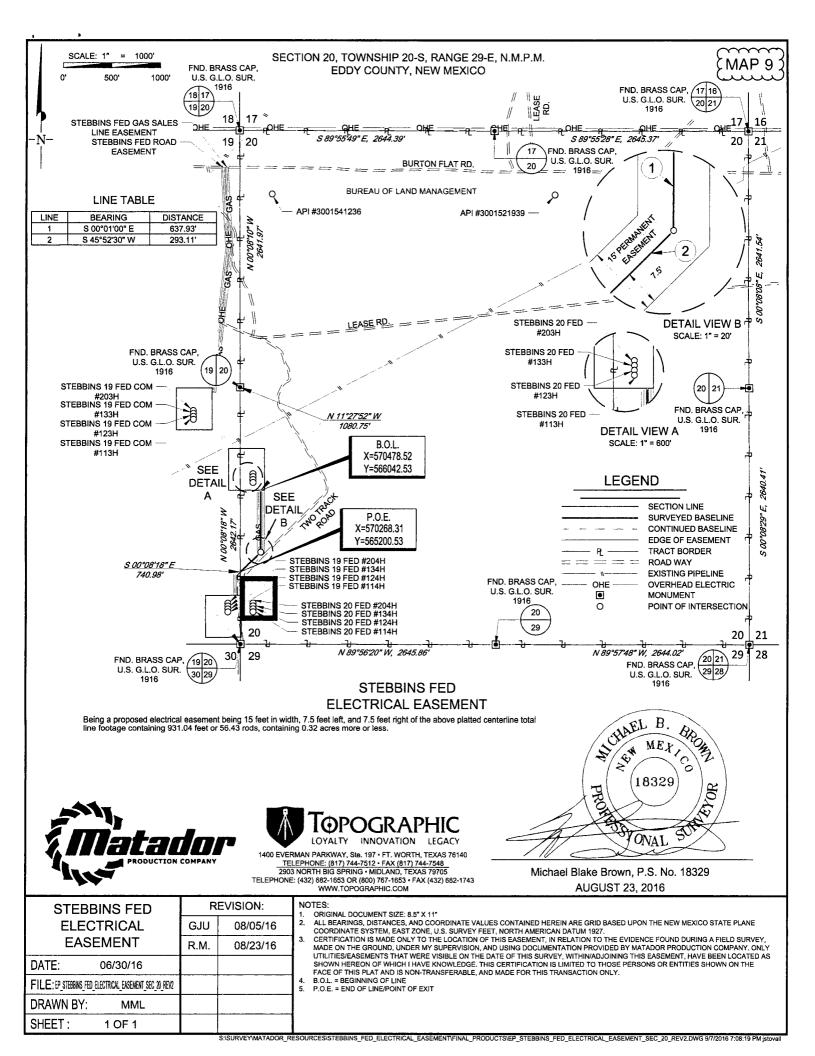


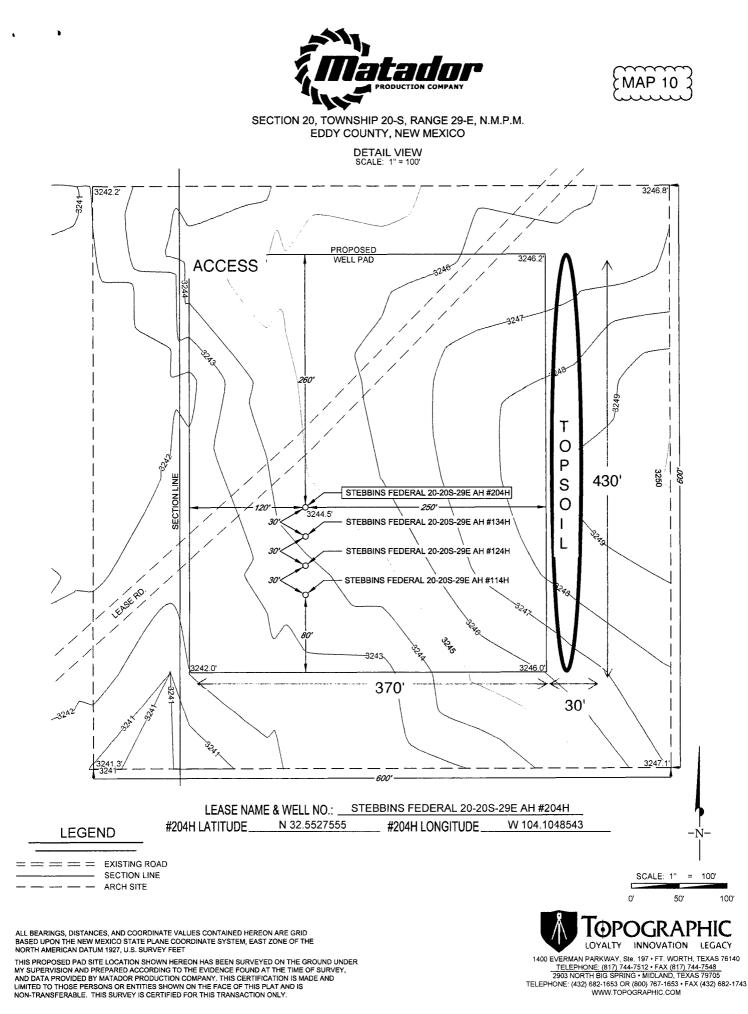




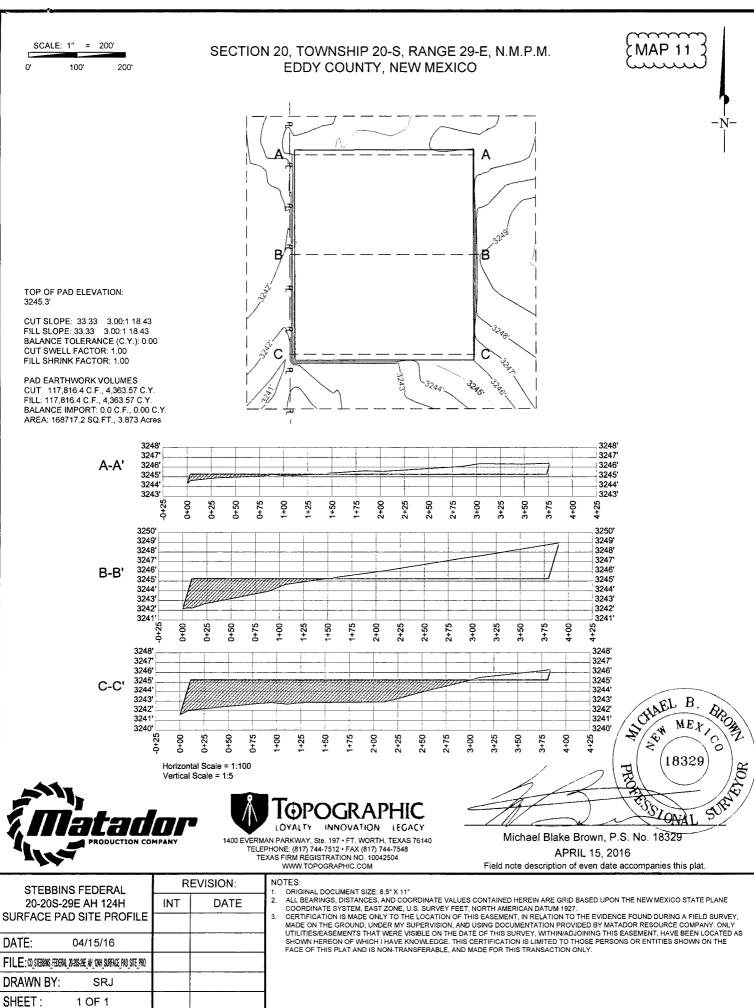








ORIGINAL DOCUMENT SIZE: 8.5" X 11"



RODUCTSICD STEBBINS FEDERAL 20-20S-29E AH 124H SURFACE PAD SITE

O DWG 4/20/2016 2 36 49

AL 20-20S-29E AH 124H SURFACE PAD SITE\FINAL F

Matador Production CompanyDRILStebbins 20 Fed 204HSHL 421' 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
2 nd Bone Spring Carbonate	7155	hydrocarbons
2 nd Bone Spring Sand	7585	hydrocarbons
3 rd Bone Spring Carbonate	7965	hydrocarbons
3 rd Bone Spring Sand	8750	hydrocarbons
Wolfcamp	9180	hydrocarbons & goal
TD (MD = 14136)	9305	hydrocarbons

2. NOTABLE ZONES

Wolfcamp is the goal. 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 1894' north. Depth to water was 52' in this now dry 89' deep well.



Matador Production Company DRIL Stebbins 20 Fed 204H SHL 421' 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

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.

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 in Onshore Order 2. Kelly cock and sub equipped with a full opening valve sized to fit the drill pipe and collars will be available on the rig floor in the open position.

A third party company will test the BOPs.

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. Intermediate 3 casing pressure tests will be made to 250 psi low and 7500 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 and 3 casing. In the case of running a speed head with landing mandrel for 9-5/8" and 7-5/8" x 7" 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. The BOP will then be lifted to install the D-section of the wellhead. BOP will be nippled back up and pressure tests will be made to 250 psi low and 7500 psi high. The annular will be tested to 250 psi low and 2500 psi high.



Matador Production Company DRIL Stebbins 20 Fed 204H SHL 421' 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

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.

4. CASING & CEMENT

All casing will be new. Minimum safety factors are burst = 1.125, collapse = 1.125, and tension = 1.8.

Hole O. D.	Set @ (MD)	Name	Casing O. D.	тос	Weight (lb/ft)	Grade	Thread Collar
26"	400'	Surface	20"	GL	94	K-55	втс
17.5"	1200'	Intermediate 1	13.375"	GL	54.5	J-55	втс
12.25"	3100'	Intermediate 2	9.625"	GL	40	J-55	ВТС
	0'-3000'		7.625"		29.7	P-110	втс
8.75"	3000'-8639'	Intermediate 3	7.625″	2100′	29.7	P-110	Hydril 513
	8639'-9639'		7″		29	P-110	BTC
6 125"	0'-8589'	Dreduction	5.5″	9620/	20	P-110	Tenaris XP
6.125″	8589′-14136′	Production	4.5″	8639′	13.5	P-110	Tenaris XP



Matador Production CompanyDRILStebbins 20 Fed 204HSHL 421' 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

	r				1	
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	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 btn	n jt, 1 on 2nd jt, 1 every 4th jt to GL
Intermediate	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		1	100% Excess		2 on btm jt, 1 on 2nd jt, 1 every 4th jt to	
Intermediate 3	Lead	632	2.36	1491	11.5	TXI + Fluid Loss + Dispersant + Retarder + LCM
	Tail	263	1.38	369	13.2	TXI + Fluid Loss + Dispersant + Retarder + LCM
TOC = 210	0'	Э	35% Exces	S	2 on btm jt, 1 on 2nd jt, 1 every other jt top of tail cement (500' above TOC), 1 every 4 th jt to GL	
Production	Tail	413	1.38	569	15.8	Class H + Fluid loss + Dispersant + Retarder +LCM
TOC = 863	9'	1	10% exces	S		n jt, 1 on 2 nd jt, 1 every 3 rd jt to top f tail cement (1000' tie back)

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.



Matador Production Company DRIL Stebbins 20 Fed 204H SHL 421' 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

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
Intermediate 3	8.75"	9.0	30-32	NC	FW/Cut Brine
Production	6.125″	12.5	50-60	<10 cc	OBM

6. CORES, TESTS, & LOGS

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 ≈ 6978 psi. Expected bottom hole temperature is $\approx 135^{\circ}$ 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. 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.



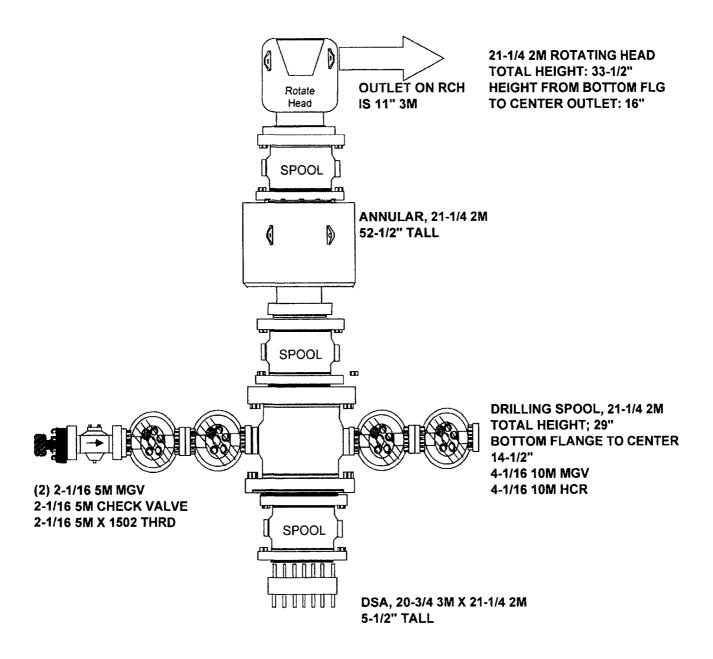
Matador Production Company DRIL Stebbins 20 Fed 204H SHL 421' FSL & 130' FWL Sec. 20, T. 20 S., R. 29 E. BHL 330' FSL & 240' FEL Sec. 20, T. 20 S., R. 29 E. Eddy County, NM

8. OTHER INFORMATION

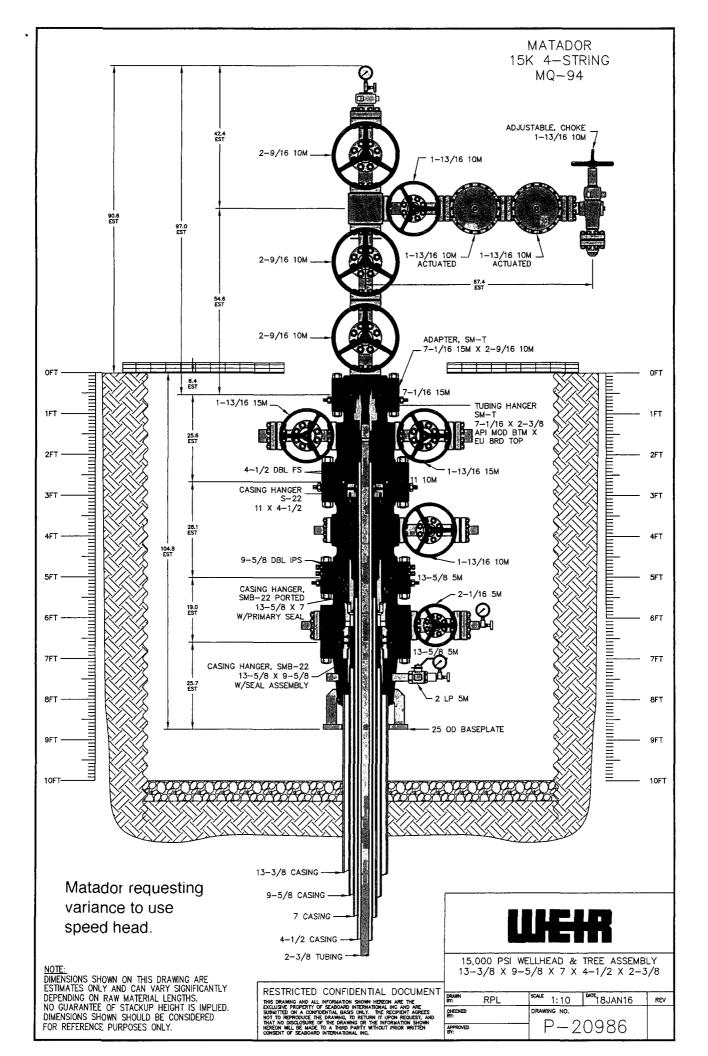
Anticipated spud date is upon approval. It is expected it will take \approx 3 months to drill and complete the well.

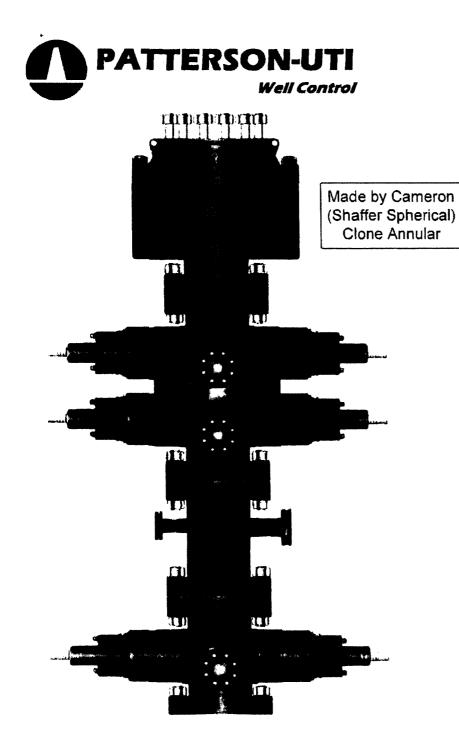
Matador Production Company owns the majority working interest in this well. Per its discussions with its potential partners, Matador will be named operator upon execution of the final Operating Agreements signed by the partners or the issuance of a pooling order by the State.





SPOOL HEIGHTS CAN BE ADJUSTED AS NEEDED*





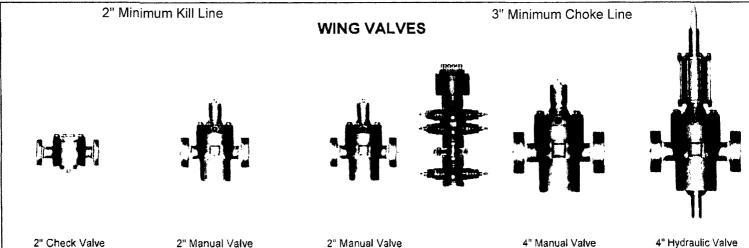
PATTERSON-UTI # _	PS2-628
STYLE: New Shaf	fer Spherical
BORE 13 5/8" PRES	SURE 5,000
HEIGHT: 48 1/2" WEIG	нт: <u>13,800 lbs</u>

809

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
неіднт: <u>66 5/8" w</u> еіднт: <u>24,000 lbs</u>

Length _	40"	Outlets_	4" 10M
DSA	4"	10M x 2	" 10M

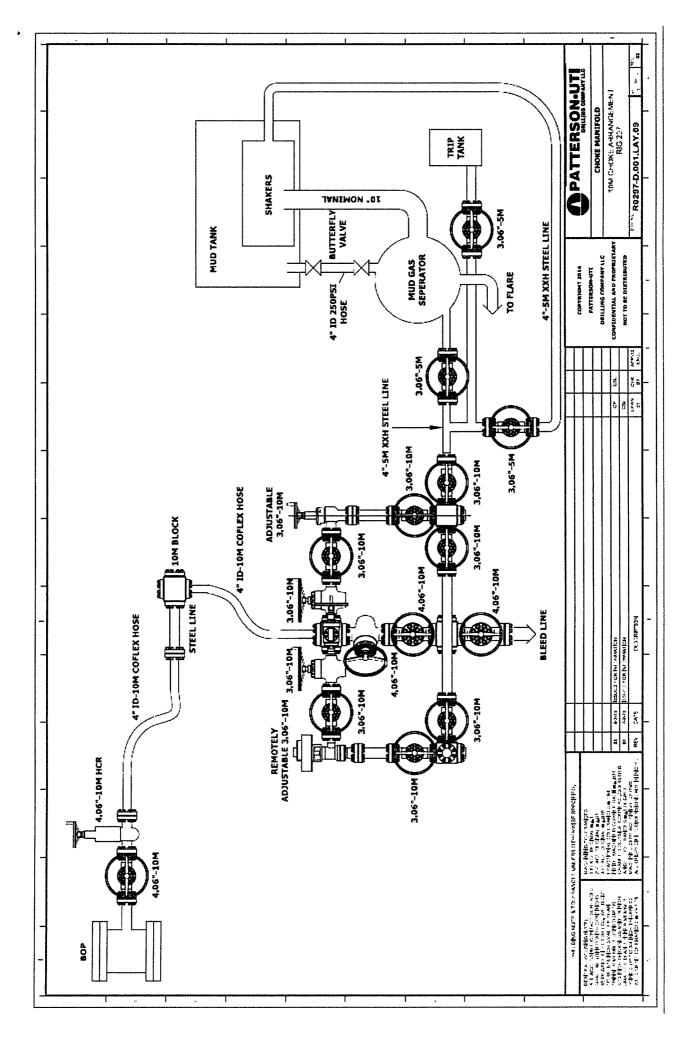
PATTER	SON-UTI	#PC	2-228
STYLE:_	New C	ameron	Type U
BORE 1	<u>3 5/8"</u> (PRESSURE_	10,000
RAMS:	5" Pip	be	
HEIGHT:_4	41 <u>5/8" v</u>	NEIGHT: 13	3,000 lbs



2" Manual Valve

2" Manual Valve

4" Manual Valve



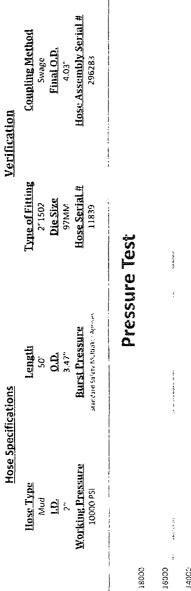
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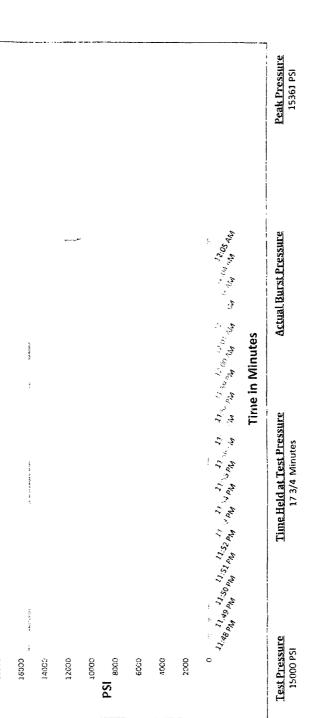


Internal Hydrostatic Test Graph

Customer: Patterson B&E

Pick Ticket #: 296283





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

Approved By: Ryan Adams

Tested By: Richard Davis

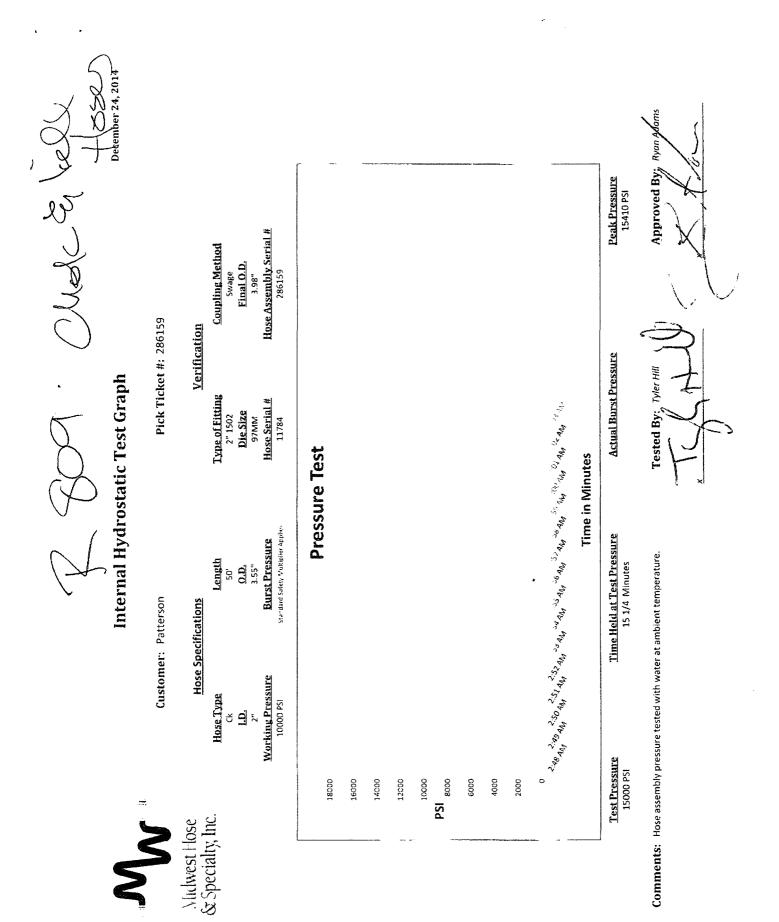
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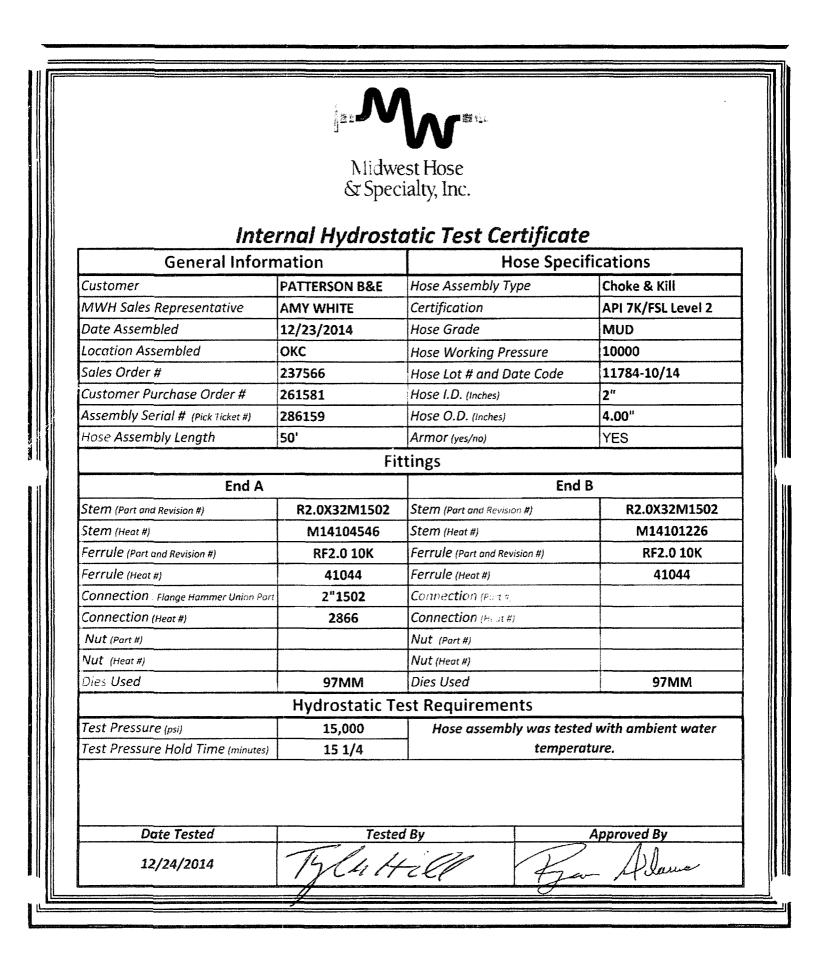
	2	VV	
		est Hose	
	& Spec	rialty, Inc.	
	fra ti.		
	initia and a statistic sector of the sector	atic Test Certificate	
General Info	rmation	Hose Speci	ifications
Customer	PATTERSON B&E	Hose Assembly Type	Choke & Kill
MWH Sales Representative	AMY WHITE	Certification	API 7K/FSL Level 2
Date Assembled	3/10/2015	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 ^{ir}
Assembly Serial # (Pick Ticket #)	296283	Hose O.D. (Inches)	3.99"
Hose Assembly Length	50'	Armor (yes/no)	YES
	Fi	ttings	
End A	, analog and the first and an and a state of the state of	End	В
Stem (Part and Revision #)	R2.0X32M1502	Steph (Part and Report #)	RF2.0 32F1502
Stem (Heat #)	14 10 4546	Stern (Veat #)	A144853
Ferrule (Part and Revision #)	RF2.0 10K	Ferrule (Part and Revision #)	RF2.0 10K
Ferrule (Heat #)	41044	Ferrule (Heat #)	41044
Connection . Flonge Hammer Union Pe	art	Connection Borting	
Connection (Heat #)		Connection (Heat #	······································
Nut (Part #)	2" 1502 H2S	Nut (Part #)	
Nut (Heat #)		Nut (Heat #j	
Dies Used	37MM	Dies Used	97MM
а, ул «на райналасан тараталаруудага сануудага ал ор ал сануулаган ни оронда ал адабага	Hydrostatic To	Escolequirements	
Test Pressure (psi)	15,000	Hose assembly was teste	ed with ambient water
Test Pressure Hold Time (minutes		tempero	
Date Tested	Teste	d By	Approved By
3/10/2015	100- 11	C H	- Alama

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Teres.

		lidwest Hose Specialty, Inc.	
<u></u>	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
		ied for the referenced purchase order t urrent industry standards.	to be true according
to the requirements of the purcl Supplier: Midwest Hose & Specialty, Inc. 3312 S I-35 Service Rd		·	
to the requirements of the purcl Supplier: Midwest Hose & Specialty, Inc.			

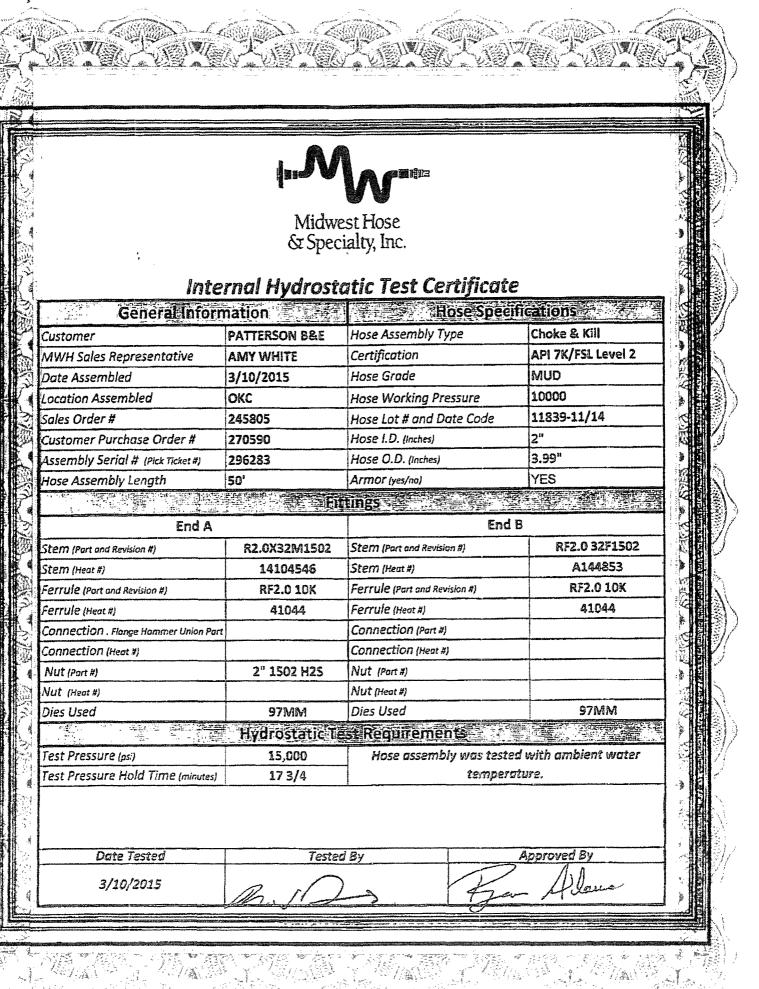




		vest Hose cialty, Inc.	
	Certificate	of Conformity	
Customer: PATTERSON B&E		Customer P.O.# 261581	
Sales Order # 237566		Date Assembled: 12/23/2014	
	Spec	ifications	
Hose Assembly Type: C	hoke & Kill		
Assembly Serial # 2	86159	Hose Lot # and Date Code	11784-10/14
Hose Working Pressure (psi) 1	0000	Test Pressure (psi)	15000
We hereby certify that the above n to the requirements of the purchas Supplier: Midwest Hose & Specialty, Inc. 3312 S I-35 Service Rd			to be true according
Oklahoma City, OK 73129			
Oklahoma City, OK 73129 Comments: Approved By		Date	

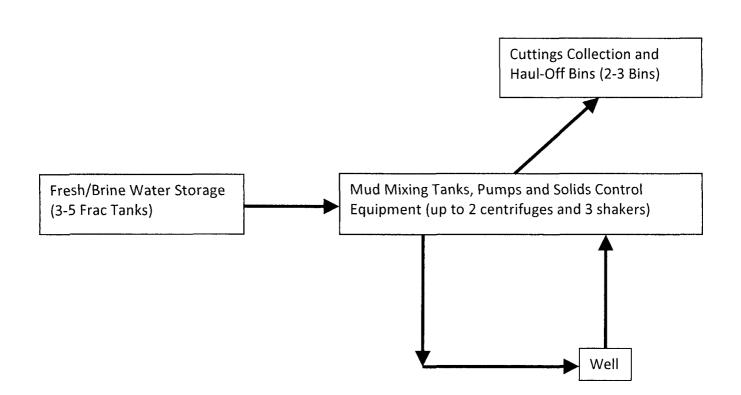
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MHSI-009 Rev.0.0 Proprietary



Closed-Loop System

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

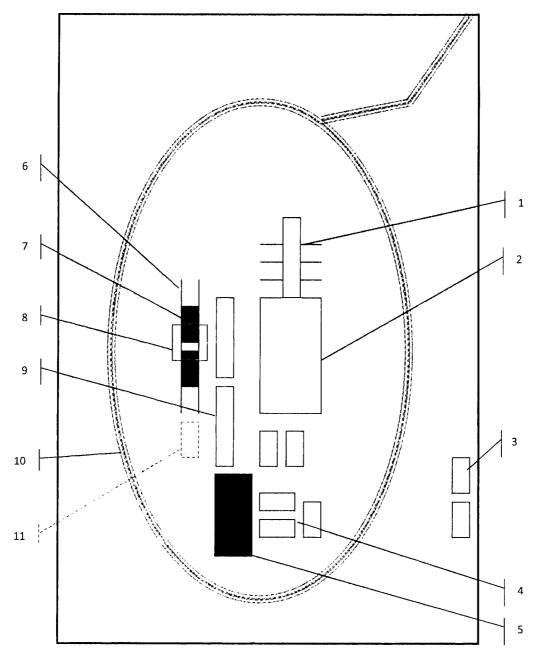


Operating and Maintenance Plan:

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.

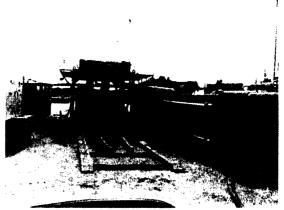


Schematic Closed Loop Drilling Rig*

- 1. Pipe Rack
- 2. Drill 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

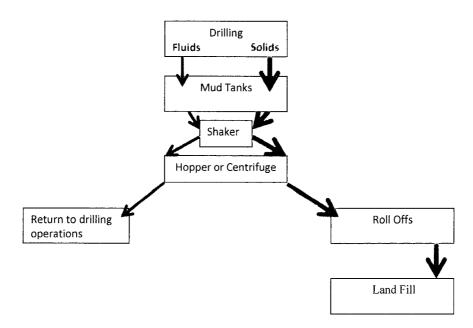


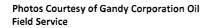
Closed Loop Drilling System: Mud tanks to right (1)

i.

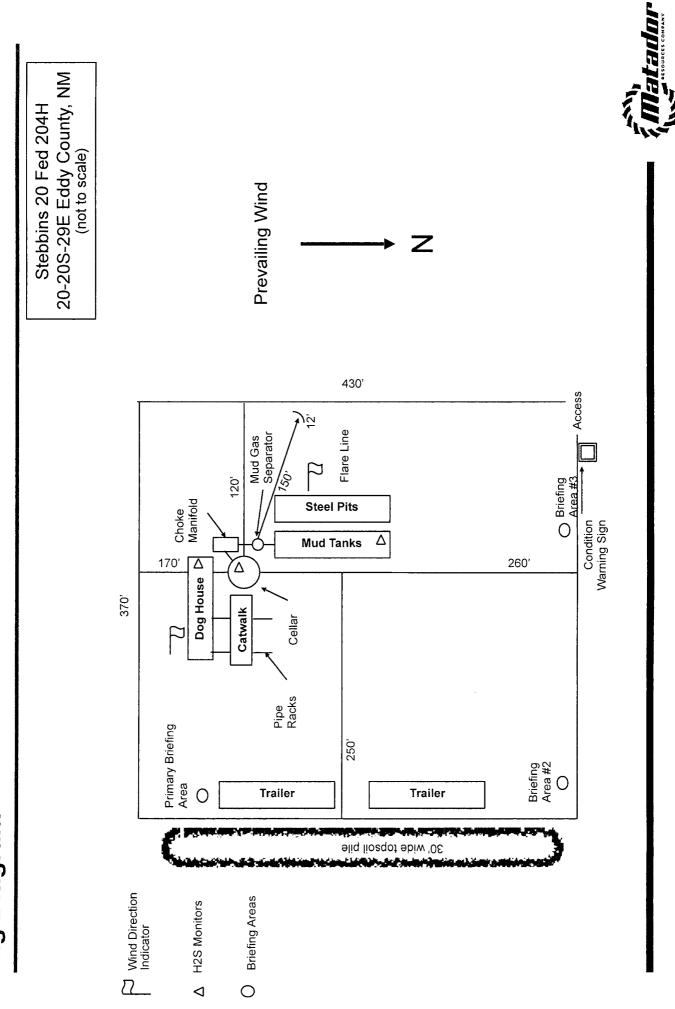
Hopper in air to settle out solids (2) Water return pipe (3) Shaker between hopper and mud tanks (4) Roll offs on skids (5)

Flow Chart for Drilling Fluids and Solids

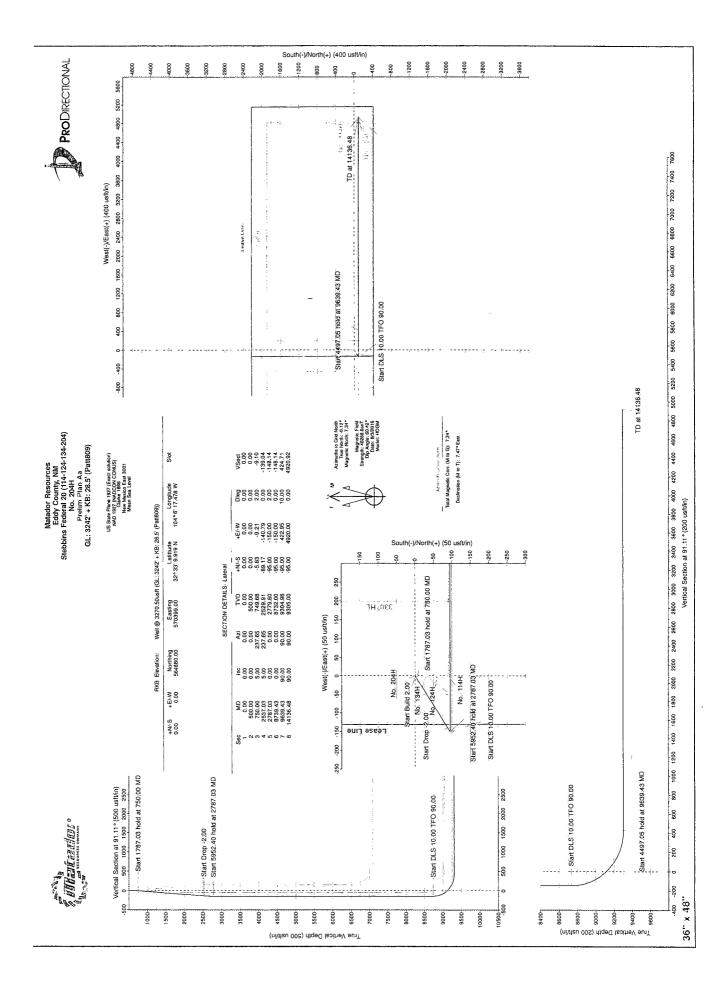








Rig Diagram



.

Pro Directional

Survey Report



Company:	Matador Resour	ces		Local Co-ordinat	e Reference:	Well No. 204H		
Project:	Eddy County, N	М		TVD Reference:		Well @ 3270.50usf (Patt809))	't (GL: 3242' + KB: 2	28.5'
Site:	Stebbins Federa	Il 20 (114-124-134	-204)	MD Reference:		Well @ 3270.50usf (Patt809))	't (GL: 3242' + KB: 2	28.5'
Well:	No. 204H			North Reference	:	Grid		
Wellbore:	ОН			Survey Calculati	on Method:	Minimum Curvature	Э	
Design:	Prelim Plan Aa			Database:		Well_Planner1		
Project	Eddy Coun	ty, NM		an f annan Markan. Af sangada an an Angalon (ada an				
Map System: Geo Datum:		ine 1927 (Exact si IADCON CONUS		System Datum	:	Mean Sea Level		
Map Zone:	New Mexico		, 	·····				
Site	Stebbins Fe	ederal 20 (114-124	4-134-204)					
Site Position:			Northing:	564,790	00 usft Latitu	de:		32° 33' 9.029 N
From:	Мар		Easting:	570,399	00 usft Longi	tude:		104° 6' 17.480 W
Position Uncertain	nty:	3.30 usft	Slot Radius:	13-3	(16 " Grid (Convergence:		0.12 °
Well	No. 204H							
Well Position	+N/-S	0.00 usft	Northing:	Ę	64,880.00 usft	Latitude:		32° 33' 9.919 N
	+E/-W	0.00 usft	Easting:	ŧ	70,399.00 usft	Longitude:		104° 6' 17.478 W
Position Uncertair	nty	1.10 usft	Wellhead Ele	vation:	0.00 usft	Ground Level:		3,242.00 usft
Wellbore	ОН							
Magnetics	Model	Name	Sample Date	Declination (°)	I	Dip Angle (°)	Field Stren (nT)	gth
		HDGM	8/3/2016		7.47	60.42		48,289
Design	Prelim Plan	Aa						
Audit Notes:								
Version:			Phase:	PLAN	Tie On De	epth:		0.00
Vertical Section:			rom (TVD) ısft)	+N/-S (usft)	+E/-W (usft)		ection (°)	
		·	0.00	0.00	0.00		91.11	
Survey Tool Progr	am	Date 8/4/20)16					
From	To							
(usft)	(usft)	Survey (Wellbo	ore)	Tool N	ame	Description		
0.0	•	18 Prelim Plan Aa			OWSG	MWD - OWSG		
Planned Survey					· · · · · · · · · · · · · · · · · · ·			
Measured	I.		Vertical		Vertica	l Dogleg	Build T	urn

	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)	
ł	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	1
:	200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	
	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	:
											÷
	500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	
	600.00	2.00	237.65	599.98	-0.93	-1.47	-1.46	2.00	2.00	0.00	
	700.00	4.00	237.65	699.84	-3.73	-5.90	-5.82	2.00	2.00	0.00	
! L	750.00	5.00	237.65	749.68	-5.83	-9.21	-9.10	2.00	2.00	0.00	

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Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 204H
Project:	Eddy County, NM	TVD Reference:	Well @ 3270.50usft (GL: 3242' + KB: 28.5' (Patt809))
Site:	Stebbins Federal 20 (114-124-134-204)	MD Reference:	Well @ 3270.50usft (GL: 3242' + KB: 28.5' (Patt809))
Well:	No. 204H	North Reference:	Grid
Wellbore:	он	Survey Calculation Method:	Minimum Curvature
Design:	Prelim Plan Aa	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	237.65	799.49	-8.16	-12.89	-12.73	0.00	0.00	0.00
900.00	5.00	237.65	899.11	-12.83	-20.25	-20.00	0.00	0.00	0.00
1,000.00	5.00	237.65	998.73	-17.49	-27.62	-27.27	0.00	0.00	0.00
1,100.00	5.00	237.65	1,098.35	-22.15	-34.98	-34.55	0.00	0.00	0.00
1,200.00	5.00	237.65	1,197.97	-26.82	-42.34	-41.82	0.00	0.00	0.00
1,300.00	5.00	237.65	1,297.59	-31.48	-49.71	-49.09	0.00	0.00	0.00
1,400.00	5.00	237.65	1,397.21	-36.14	-57.07	-56.36	0.00	0.00	0.00
1,500.00	5.00	237.65	1,496.83	-40.81	-64.43	-63.63	0.00	0.00	0.00
1,600.00	5.00	237.65	1,596.45	-45.47	-71.80	-70.90	0.00	0.00	0.00
1,700.00	5.00	237.65	1,696.07	-50.13	-79.16	-78.18	0.00	0.00	0.00
1,800.00	5.00	237.65	1,795.69	-54.80	-86.52	-85.45	0.00	0.00	0.00
1,900.00	5.00	237.65	1,895.31	-59.46	-93.89	-92.72	0.00	0.00	0.00
2,000.00	5.00	237.65	1,994.93	-64.12	-101.25	-99.99	0.00	0.00	0.00
2,100.00	5.00	237.65	2,094.55	-68.79	-108.61	-107.26	0.00	0.00	0.00
2,200.00	5.00	237.65	2,194.17	-73.45	-115.97	-114.53	0.00	0.00	0.00
2,300.00	5.00	237.65	2,293.78	-78.11	-123.34	-121.81	0.00	0.00	0.00
2,400.00	5.00	237.65	2,393.40	-82.78	-130.70	-129.08	0.00	0.00	0.00
2,500.00	5.00	237.65	2,493.02	-87.44	-138.06	-136.35	0.00	0.00	0.00
2,537.03	5.00	237.65	2,529.91	-89.17	-140.79	-139.04	0.00	0.00	0.00
2,600.00	3.74	237.65	2,592.70	-91.73	-144.84	-143.05	2.00	-2.00	0.00
2,700.00	1.74	237.65	2,692.58	-94.29	-148.88	-147.04	2.00	-2.00	0.00
2,787.03	0.00	0.00	2,779.60	-95.00	-150.00	-148.14	2.00	-2.00	0.00
2,800.00	0.00	0.00	2,792.57	-95.00	-150.00	-148.14	0.00	0.00	0.00
2,900.00	0.00	0.00	2,892.57	-95.00	-150.00	-148.14	0.00	0.00	0.00
3,000.00	0.00	0.00	2,992.57	-95.00	-150.00	-148.14	0.00	0.00	0.00
3,100.00	0.00	0.00	3,092.57	-95.00	-150.00	-148.14	0.00	0.00	0.00
3,200.00	0.00	0.00	3,192.57	-95.00	-150.00	-148.14	0.00	0.00	0.00
3,300.00	0.00	0.00	3,292.57	-95.00	-150.00	-148.14	0.00	0.00	0.00
3,400.00	0.00	0.00	3,392.57	-95.00	-150.00	-148.14	0.00	0.00	0.00
3,500.00	0.00	0.00	3,492.57	-95.00	-150.00	-148.14	0.00	0.00	0.00
3,600.00	0.00	0.00	3,592.57	-95.00	-150.00	-148.14	0.00	0.00	0.00
3,700.00	0.00	0.00	3,692.57	-95.00	-150.00	-148.14	0.00	0.00	0.00
3,800.00	0.00	0.00	3,792.57	-95.00	-150.00	-148.14	0.00	0.00	0.00
3,900.00	0.00	0.00	3,892.57	-95.00	-150.00	-148.14	0.00	0.00	0.00
4,000.00	0.00	0.00	3,992.57	-95.00	-150.00	-148.14	0.00	0.00	0.00
4,100.00	0.00	0.00	4,092.57	-95.00	-150.00	-148.14	0.00	0.00	0.00
4,200.00	0.00	0.00	4,192.57	-95.00	-150.00	-148.14	0.00	0.00	0.00
4,300.00	0.00	0.00	4,292.57	-95.00	-150.00	-148.14	0.00	0.00	0.00
4,400.00	0.00	0.00	4,392.57	-95.00	-150.00	-148.14	0.00	0.00	0.00
4,500.00	0.00	0.00	4,492.57	-95.00	-150.00	-148.14	0.00	0.00	0.00
4,600.00	0.00	0.00	4,592.57	-95.00	-150.00	-148.14	0.00	0.00	0.00
4,700.00	0.00	0.00	4,692.57	-95.00	-150.00	-148.14	0.00	0.00	0.00



Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 204H
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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	4,792.57	-95.00	-150.00	-148.14	0.00	0.00	0.00
4,900.00	0.00	0.00	4,892.57	-95.00	-150.00	-148.14	0.00	0.00	0.00
5,000.00	0.00	0.00	4,992.57	-95.00	-150.00	-148.14	0.00	0.00	0.00
5,100.00	0.00	0.00	5,092.57	-95.00	-150.00	-148.14	0.00	0.00	0.00
5,200.00	0.00	0.00	5,192.57	-95.00	-150.00	-148.14	0.00	0.00	0.00
5,300.00	0.00	0.00	5,292.57	-95.00	-150.00	-148.14	0.00	0.00	0.00
5,400.00	0.00	0.00	5,392.57	-95.00	-150.00	-148.14	0.00	0.00	0.00
5,500.00	0.00	0.00	5,492.57	-95.00	-150.00	-148.14	0.00	0.00	0.00
5,600.00	0.00	0.00	5,592.57	-95.00	-150.00	-148.14	0.00	0.00	0.00
5,700.00	0.00	0.00	5,692.57	-95.00	-150.00	-148.14	0.00	0.00	0.00
5,800.00	0.00	0.00	5,792.57	-95.00	-150.00	-148.14	0.00	0.00	0.00
5,900.00	0.00	0.00	5,892.57	-95.00	-150.00	-148.14	0.00	0.00	0.00
6,000.00	0.00	0.00	5,992.57	-95.00	-150.00	-148.14	0.00	0.00	0.00
6,100.00	0.00	0.00	6,092.57	-95.00	-150.00	-148.14	0.00	0.00	0.00
6,200.00	0.00	0.00	6,192.57	-95.00	-150.00	-148.14	0.00	0.00	0.00
6,300.00	0.00	0.00	6.292.57	-95.00	-150.00	-148.14	0.00	0.00	0.00
6,400.00	0.00	0.00	6,392.57	-95.00	-150.00	-148.14	0.00	0.00	0.00
6,500.00	0.00	0.00	6,492.57	-95.00	-150.00	-148.14	0.00	0.00	0.00
6,600.00	0.00	0.00	6,592.57	-95.00	-150.00	-148.14	0.00	0.00	0.00
6,700.00	0.00	0.00	6,692.57	-95.00	-150.00	-148.14	0.00	0.00	0.00
6,800.00	0.00	0.00	6,792.57	-95.00	-150.00	-148.14	0.00	0.00	0.00
6,900.00	0.00	0.00	6,892.57	-95.00	-150.00	-148.14	0.00	0.00	0.00
7,000.00	0.00	0.00	6,992.57	-95.00	-150.00	-148.14	0.00	0.00	0.00
7,100.00	0.00	0.00	7,092.57	-95.00	-150.00	-148.14	0.00	0.00	0.00
7,200.00	0.00	0.00	7,192.57	-95.00	-150.00	-148.14	0.00	0.00	0.00
7,300.00	0.00	0.00	7,292.57	-95.00	-150.00	-148.14	0.00	0.00	0.00
7,400.00	0.00	0.00	7,392.57	-95.00	-150.00	-148.14	0.00	0.00	0.00
7,500.00	0.00	0.00	7,492.57	-95.00	-150.00	-148.14	0.00	0.00	0.00
7,600.00	0.00	0.00	7,592.57	-95.00	-150.00	-148.14	0.00	0.00	0.00
7,700.00	0.00	0.00	7,692.57	-95.00	-150.00	-148.14	0.00	0.00	0.00
7,800.00	0.00	0.00	7,792.57	-95.00	-150.00	-148.14	0.00	0.00	0.00
7,900.00	0.00	0.00	7,892.57	-95.00	-150.00	-148.14	0.00	0.00	0.00
8,000.00	0.00	0.00	7,992.57	-95.00	-150.00	-148.14	0.00	0.00	0.00
8,100.00	0.00	0.00	8,092.57	-95.00	-150.00	-148.14	0.00	0.00	0.00
8,200.00	0.00	0.00	8,192.57	-95.00	-150.00	-148.14	0.00	0.00	0.00
8,300.00	0.00	0.00	8,292.57	-95.00	-150.00	-148.14	0.00	0.00	0.00
8,400.00	0.00	0.00	8,392.57	-95.00	-150.00	-148.14	0.00	0.00	0.00
8,500.00	0.00	0.00	8,492.57	-95.00	-150.00	-148.14	0.00	0.00	0.00
8,600.00	0.00	0.00	8,592.57	-95.00	-150.00	-148.14	0.00	0.00	0.00
8,700.00	0.00	0.00	8,692.57	-95.00	-150.00	-148.14	0.00	0.00	0.00
8,739.43	0.00	0.00	8,732.00	-95.00	-150.00	-148.14	0.00	0.00	0.00
8,750.00	1.06	90.00	8,742.57	-95.00	-149.90	-148.04	10.00	10.00	0.00



Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 204H
Project:	Eddy County, NM	TVD Reference:	Well @ 3270.50usft (GL: 3242' + KB: 28.5' (Patt809))
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Design:	Prelim Plan Aa	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)
							· · ·		
8,800.00	6.06	90.00	8,792.45	-95.00	-146.80	-144.94	10.00	10.00	0.00
8,850.00	11.06	90.00	8,841.88	-95.00	-139.36	-137.51	10.00	10.00	0.00
8,900.00	16.06	90.00	8,890.47	-95.00	-127.65	-125.79	10.00	10.00	0.00
8,950.00	21.06	90.00	8,937.86	-95.00	-111.74	-109.89	10.00	10.00	0.00
9,000.00	26.06	90.00	8,983.68	-95.00	-91.77	-89.91	10.00	10.00	0.00
9,050.00	31.06	90.00	9,027.58	-95.00	-67.87	-66.02	10.00	10.00	0.00
9,100.00	36.06	90.00	9,069.23	-95.00	-40.24	-38.40	10.00	10.00	0.00
9,150.00	41.06	90.00	9,108.32	-95.00	-9.09	-7.25	10.00	10.00	0.00
9,200.00	46.06	90.00	9,144.54	-95.00	25.35	27.18	10.00	10.00	0.00
9,250.00	51.06	90.00	9,177.63	-95.00	62.82	64.65	10.00	10.00	0.00
9,300.00	56.06	90.00	9,207.32	-95.00	103.03	104.85	10.00	10.00	0.00
9,350.00	61.06	90.00	9,233.39	-95.00	145.68	147.48	10.00	10.00	0.00
9,400.00	66.06	90.00	9,255.65	-95.00	190.43	192.23	10.00	10.00	0.00
9,450.00	71.06	90.00	9,273.93	-95.00	236.96	238.75	10.00	10.00	0.00
9,500.00	76.06	90.00	9,288.08	-95.00	284.90	286.68	10.00	10.00	0.00
9,550.00	81.06	90.00	9,297.99	-95.00	333.89	335.66	10.00	10.00	0.00
9,600.00	86.06	90.00	9,303.60	-95.00	383.55	385.32	10.00	10.00	0.00
9,639.43	90.00	90.00	9,304.96	-95.00	422.95	424.71	10.00	10.00	0.00
9,700.00	90.00	90.00	9,304.96	-95.00	483.52	485.27	0.00	0.00	0.00
9,800.00	90.00	90.00	9,304.96	-95.00	583.52	585.25	0.00	0.00	0.00
9,900.00	90.00	90.00	9,304.96	-95.00	683.52	685.23	0.00	0.00	0.00
10,000.00	90.00	90.00	9,304.96	-95.00	783.52	785.21	0.00	0.00	0.00
10,100.00	90.00	90.00	9,304.96	-95.00	883.52	885.19	0.00	0.00	0.00
10,200.00	90.00	90.00	9,304.96	-95.00	983.52	985.17	0.00	0.00	0.00
10,300.00	90.00	90.00	9,304.96	-95.00	1,083.52	1,085.16	0.00	0.00	0.00
10,400.00	90.00	90.00	9,304.97	-95.00	1,183.52	1,185.14	0.00	0.00	0.00
10,500.00	90.00	90.00	9,304.97	-95.00	1,283.52	1,285.12	0.00	0.00	0.00
10,600.00	90.00	90.00	9,304.97	-95.00	1,383.52	1,385.10	0.00	0.00	0.00
10,700.00	90.00	90.00	9,304.97	-95.00	1,483.52	1,485.08	0.00	0.00	0.00
10,800.00	90.00	90.00	9,304.97	-95.00	1,583.52	1,585.06	0.00	0.00	0.00
10,900.00	90.00	90.00	9,304.97	-95.00	1,683.52	1,685.04	0.00	0.00	0.00
11,000.00	90.00	90.00	9,304.97	-95.00	1,783.52	1,785.02	0.00	0.00	0.00
11,100.00	90.00	90.00	9,304.97	-95.00	1,883.52	1,885.01	0.00	0.00	0.00
11,200.00	90.00	90.00	9,304.97	-95.00	1,983.52	1,984.99	0.00	0.00	0.00
11,300.00	90.00	90.00	9,304.97	-95.00	2,083.52	2,084.97	0.00	0.00	0.00
11,400.00	90.00	90.00	9,304.97	-95.00	2,183.52	2,184.95	0.00	0.00	0.00
11,500.00	90.00	90.00	9,304.98	-95.00	2,283.52	2,284.93	0.00	0.00	0.00
11,600.00	90.00	90.00	9,304.98	-95.00	2,383.52	2,384.91	0.00	0.00	0.00
11,700.00	90.00	90.00	9,304.98	-95.00	2,483.52	2,484.89	0.00	0.00	0.00
11,800.00	90.00	90.00	9,304.98	-95.00	2,583.52	2,584.88	0.00	0.00	0.00
11,900.00	90.00	90.00	9,304.98	-95.00	2,683.52	2,684.86	0.00	0.00	0.00
12,000.00	90.00	90.00	9,304.98	-95.00	2,783.52	2,784.84	0.00	0.00	0.00



Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 204H
Project:	Eddy County, NM	TVD Reference:	Well @ 3270.50usft (GL: 3242' + KB: 28.5' (Patt809))
Site:	Stebbins Federal 20 (114-124-134-204)	MD Reference:	Well @ 3270.50usft (GL: 3242' + KB: 28.5' (Patt809))
Well:	No. 204H	North Reference:	Grid
Wellbore:	ОН	Survey Calculation Method:	Minimum Curvature
Design:	Prelim Plan Aa	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)
12,100.00	90.00	90.00	9,304.98	-95.00	2,883.52	2,884.82	0.00	0.00	0.00
12,200.00	90.00	90.00	9,304.98	-95.00	2,983.52	2,984.80	0.00	0.00	0.00
12,300.00	90.00	90.00	9,304.98	-95.00	3,083.52	3,084.78	0.00	0.00	0.00
12,400.00	90.00	90.00	9,304.98	-95.00	3,183.52	3,184.76	0.00	0.00	0.00
12,500.00	90.00	90.00	9,304.98	-95.00	3,283.52	3,284.75	0.00	0.00	0.00
12,600.00	90.00	90.00	9,304.99	-95.00	3,383.52	3,384.73	0.00	0.00	0.00
12,700.00	90.00	90.00	9,304.99	-95.00	3,483.52	3,484.71	0.00	0.00	0.00
12,800.00	90.00	90.00	9,304.99	-95.00	3,583.52	3,584.69	0.00	0.00	0.00
12,900.00	90.00	90.00	9,304.99	-95.00	3,683.52	3,684.67	0.00	0.00	0.00
13,000.00	90.00	90.00	9,304.99	-95.00	3,783.52	3,784.65	0.00	0.00	0.00
13,100.00	90.00	90.00	9,304.99	-95.00	3,883.52	3,884.63	0.00	0.00	0.00
13,200.00	90.00	90.00	9,304.99	-95.00	3,983.52	3,984.61	0.00	0.00	0.00
13,300.00	90.00	90.00	9,304.99	-95.00	4,083.52	4,084.60	0.00	0.00	0.00
13,400.00	90.00	90.00	9,304.99	-95.00	4,183.52	4,184.58	0.00	0.00	0.00
13,500.00	90.00	90.00	9,304.99	-95.00	4,283.52	4,284.56	0.00	0.00	0.00
13,600.00	90.00	90.00	9,305.00	-95.00	4,383.52	4,384.54	0.00	0.00	0.00
13,700.00	90.00	90.00	9,305.00	-95.00	4,483.52	4,484.52	0.00	0.00	0.00
13,800.00	90.00	90.00	9,305.00	-95.00	4,583.52	4,584.50	0.00	0.00	0.00
13,900.00	90.00	90.00	9,305.00	-95.00	4,683.52	4,684.48	0.00	0.00	0.00
14,000.00	90.00	90.00	9,305.00	-95.00	4,783.52	4,784.47	0.00	0.00	0.00
14,100.00	90.00	90.00	9,305.00	-95.00	4,883.52	4,884.45	0.00	0.00	0.00
14,136.48	90.00	90.00	9,305.00	-95.00	4,920.00	4,920.92	0.00	0.00	0.00

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#204H]LPP - plan misses target - Point	0.00 center by 483	0.00 0.93usft at 0	0.00 .00usft MD ((-95.00 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#204H]FPP - plan misses target - Point	0.00 center by 219.	0.00 73usft at 0.0	0.00 00usft MD (0.	-91.00 00 TVD, 0.00	200.00 N, 0.00 E)	564,789.00	570,599.00	32° 33' 9.015 N	104° 6' 15.143 W
	0.00	0.00	9.305.00	-95.00	4,920.00	564,785.00	575,319.00	32° 33' 8.871 N	104° 5′ 19.997 W

Checked By:

Approved By:

Date:



Anticollision Report



From (usft)	To (usft) Survey (Wellbore)	Tool Name	Description
Survey Tool Program	Date 8/4/2016		
Warning Levels Evalua	ted at: 2.00 Sigma	Casing Method:	Not applied
Results Limited by:	Maximum center-center distance of 1,875.15 usft	Error Surface:	Elliptical Conic
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Interpolation Method:	MD Interval 100.00usft	Error Model:	ISCWSA
Filter type:	NO GLOBAL FILTER: Using user defined selection	& filtering criteria	
Reference	Prelim Plan Aa		
Reference Design:	Prelim Plan Aa	Offset TVD Reference:	Offset Datum
Reference Wellbore	ОН	Database:	Well_Planner1
Nell Error:	1.10 usft	Output errors are at	2.00 sigma
Reference Well:	No. 204H	Survey Calculation Method:	Minimum Curvature
Site Error:	3.30 usft	North Reference:	Grid
Reference Site:	Stebbins Federal 20 (114-124-134-204)	MD Reference:	Well @ 3270.50usft (GL: 3242' + KB: 28.5' (Patt809))
Project:	Eddy County, NM	TVD Reference:	Well @ 3270.50usft (GL: 3242' + KB: 28.5' (Patt809))
Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 204H

Summary

14,136.48 Prelim Plan Aa (OH)

0.00

	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. 114H - OH - Prelim Plan A	762.90	761.77	86.94	81.52	16.045 C	С
No. 114H - OH - Prelim Plan A	800.00	798.31	87.01	81.35	15.375 E	S
No. 114H - OH - Prelim Plan A	6,600.00	6,575.10	302.93	256.91	6.582 S	F
No. 124H - OH - Prelim Plan A	415.99	417.99	60.00	56.65	17.900 C	С
No. 124H - OH - Prelim Plan A	600.00	600.70	60.17	55.76	13.649 E	S
No. 124H - OH - Prelim Plan A	7,101.40	7,098.31	200.00	150.15	4.012 S	F
No. 134H - OH - Prelim Plan A	415.99	417.99	30.00	26.65	8.950 C	С
No. 134H - OH - Prelim Plan A	600.00	601.16	30.50	26.09	6.917 E	S
No. 134H - OH - Prelim Plan A	8,500.00	8,495.21	100.23	40.54	1.679 S	F

MWD - OWSG

MWD - OWSG

urvey Prog	ram: 0-MV	VD - OWSG											Offset Well Error:	1.10 us
Refer	ence	Offse	et 👘	Semi Major	Axis				Dista	nce				
leasured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usit)	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	180.00	-90.00	0.00	90.00					
100.00	100.00	101.00	101.00	1.11	1,11	180.00	-90.00	0.00	90.00	87.78	2.22	40.627		
200.00	200.00	201.00	201.00	1.20	1.20	180.00	-90.00	0.00	90.00	87.59	2.41	37.389		
300.00	300.00	301.00	301.00	1.39	1.39	180.00	-90.00	0.00	90.00	87.22	2.78	32.415		
400.00	400.00	401.00	401.00	1.63	1.63	180.00	-90.00	0.00	90.00	86.74	3.26	27.576		
500.00	500.00	501.00	501.00	1.91	1.91	180.00	-90.00	0.00	90.00	86.18	3.82	23.537		
516.83	516.83	517.82	517.82	1.96	1.96	-57.71	-90.00	0.06	89.98	86.06	3.92	22.951		
600.00	599.98	600.78	600.76	2.20	2.21	-59.75	-90.06	1.77	89.18	84.77	4.41	20.219		
700.00	699.84	700.00	699.84	2.51	2.51	-66.13	-90.23	6.97	87.46	82.44	5.02	17.427		
762.90	762.56	761.77	761.41	2.71	2.71	-72.13	-90.40	11.92	86.94	81.52	5.42	16.045 CC		
800.00	799.49	798.31	797.80	2.83	2.83	-76.33	-90.50	15.10	87.01	81.35	5.66	15.375 ES		
900.00	899.11	896.92	896.04	3.16	3.17	-86.85	-90.79	23.69	89.59	83.26	6.32	14.164		
1,000.00	998.73	995.53	994.28	3.51	3.51	-96.49	-91.08	32.28	95.04	88.04	7.00	13.571		
1,100.00	1,098.35	1,094.14	1,092.52	3.86	3.86	-104.90	-91.36	40.87	102.91	95.22	7.69	13.388		
1,200.00	1,197.97	1,192.76	1,190.75	4.22	4.22	-112.01	-91.65	49.46	112.69	104.32	8.37	13.458		
1,300.00	1,297.59	1,291.37	1,288.99	4.59	4.58	-117.93	-91.94	58.05	123.93	114.87	9.06	13.676		



Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 204H
Project:	Eddy County, NM	TVD Reference:	Well @ 3270.50usft (GL: 3242' + KB: 28.5' (Patt809))
Reference Site:	Stebbins Federal 20 (114-124-134-204)	MD Reference:	Well @ 3270.50usft (GL: 3242' + KB: 28.5' (Patt809))
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	No. 204H	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 Aa	Offset TVD Reference:	Offset Datum

Offset De	sign	Stebbin	s Federal	20 (114-124	4-134-204	4) - No. 114	H - OH - Prelir	m Plan A					Offset Site Error:	0.00 usft
Survey Prog		WD - OWSG											Offset Well Error:	1.10 usft
Refer		Offs		Semi Major		11	08		Dista		Minimum	Concention		
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbo +N/-S	+E/-W	Between Centres	Between Eilipses	Minimum Separation	Separation Factor	Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(")	(usft)	(usft)	(usft)	(usft)	(usft)			
1,400.00	1,397.21	1,389.98	1,387.23	4.95	4.94	-122.83	-92.22	66.64	136.27	126.52	9.75	13.972		
1,500.00	1,496.83	1,488.59	1,485.47	5.32	5.30	-126.90	-92.51	75.23	149.44	138.99	10.45	14.304		
1,600.00	1,596.45	1,587.21	1,583.70	5.69	5.67	-130.31	-92.79	83.82	163.23	152.09	11.14	14.648		
1,700.00	1,696.07	1,685.82	1,681.94	6.07	6.04	-133.18	-93.08	92.41	177.51	165.67	11.84	14.989		
1,800.00	1,795.69	1,784.43	1,780.18	6.44	6.41	-135.62	-93.37	101.00	192.16	179.62	12.54	15.320		
1,900.00	1,895.31	1,883.04	1,878.42	6.82	6.78	-137.71	-93.65	109.59	207.10	193.86	13.25	15.635		
2,000.00	1,994.93	1,981.66	1,976.65	7.20	7.15	-139.52	-93.94	118.18	222.28	208.33	13.95	15.933		
2,100.00	2,094.55	2,080.27	2,074.89	7.58	7.52	-141.10	-94.23	126.77	237.65	222.99	14.66	16.213		
2,200.00	2,194.17	2,178.88	2,173.13	7.96	7.89	-142.49	-94.51	135.36	253.18	237.81	15.37	16.476		
2,300.00	2,293.78	2,283.24	2,277.14	8.34	8.28	-143.78	-94.79	143.80	268.24	252.12	16.12	16.643		
2,400.00	2,393.40	2,392.92	2,386.69	8.72	8.68	-144.98	-94.96	148.91	279.99	263.10	16.89	16.578		
2,500.00	2,493.02	2,500.26	2,494.02	9.10	9.05	-146.05	-95.00	150.00	288.16	270.54	17.62	16.351		
2,600.00	2,592.70	2,599.93	2,593.70	9.47	9.38	-146.96	-95.00	150.00	294.86	276.54	18.32	16.091		
2,700.00	2,692.58	2,699.81	2,693.58	9.84	9.71	-147.50	-95.00	150.00	298.88	279.86	19.02	15.713		
2,800.00	2,792.57	2,799.80	2,793.57	10.17	10.05	90.00	-95.00	150.00	300.00	280.30	19.70	15.225		
2,900.00	2,892.57	2,899.80	2,893.57	10.50	10.39	90.00	-95.00	150.00	300.00	279.62	20.38	14.720		
3,000.00	2,992.57	2,999.80	2,993.57	10.82	10.73	90.00	-95.00	150.00	300.00	278.94	21.06	14.246		
3,100.00	3,092.57	3,099.80	3,093.57	11.15	11.07	90.00	-95.00	150.00	300.00	278.26	21.74	13.800		
3,200.00	3,192.57	3,199.80	3,193.57	11.48	11.41	90.00	-95.00	150.00	300.00	277.58	22.42	13.380		
3,300.00	3,292.57	3,299.80	3,293.57	11.81	11.76	90.00	-95.00	150.00	300.00	276.89	23.11	12.983		
3,400.00	3,392.57	3,399.80	3,393.57	12.15	12.10	90.00	-95.00	150.00	300.00	276.21	23.79	12.608		
3,500.00	3,492.57	3,499.80	3,493.57	12.48	12.44	90.00	-95.00	150.00	300.00	275.52	24.48	12.254		
3,600.00	3,592.57	3,599.80	3,593.57	12.82	12.79	90.00	-95.00	150.00	300.00	274.83	25.17	11,918		
3,700.00	3,692.57	3,699.80	3,693.57	13.16	13.14	90.00	-95.00	150.00	300.00	274.14	25.86	11.599		
3,800.00	3,792.57	3,799.80	3,793.57	13.50	13.48	90.00	-95.00	150.00	300.00	273.44	26.56	11.297		
3,900.00	3,892.57	3,899.80	3,893.57	13.83	13.83	90.00	-95.00	150.00	300.00	272.75	27.25	11.009		
4,000.00	3,992.57	3,999.80	3,993.57	14.17	14.18	90.00	-95.00	150.00	300.00	272.05	27.95	10.735		
4,000.00	4,092.57	4,099.80	4,093.57	14.52	14.53	90.00	-95.00	150.00	300.00	271.36	28.64	10.474		
4,200.00	4,192.57	4,199.80	4,193.57	14.86	14.88	90.00	-95.00	150.00	300.00	270.66	29.34	10.225		
4,300.00	4,292.57	4,299.80	4,293.57	15.20	15.22	90.00	-95.00	150.00	300.00	269.96	30.04	9.987		
4,400.00	4,392.57	4,399.80	4,393.57	15.54	15.57	90.00	-95.00	150.00	300.00	269.26	30.74	9.760		
4,500.00	4,492.57	4,499.80	4,493.57	15.89	15.92	90.00	-95.00	150.00	300.00	268.56	31.44	9.543		
4,600.00	4,592.57	4,599.80	4,593.57	16.23	16.28	90.00	-95.00	150.00	300.00	267.86	32.14	9.335		
4,700.00	4,692.57	4,699.80	4,693.57	16.58	16.63	90.00	-95.00	150.00	300.00	267.16	32.84	9.135		
4,800.00	4,792.57	4,799.80	4,793.57	16.92	16.98	90.00	-95.00	150.00	300.00	266.46	33.54	8.944		
4,900.00	4,892.57	4,899.80	4,893.57	17.27	17.33	90.00	-95.00	150.00	300.00	265.76	34.24	8.761		
5,000.00	4,992.57	4,999.80	4,993.57	17.62	17.68	90.00	-95.00	150.00	300.00	265.05	34.95	8.584		
5,100.00	4,992.57 5,092.57	4,999.80 5,099.80	4,993.57 5,093.57	17.97	18.03	90.00	-95.00	150.00	300.00	264.35	35.65	8.415		
5,200.00	5,192.57	5,199.80	5,193.57	18.31	18.39	90.00	-95.00	150.00	300.00	263.64	36.36	8.252		
5,300.00	5,292.57	5,299.80	5,293.57	18.66	18.74	90.00	-95.00	150.00	300.00	262.94	37.06	8.095		
5,400.00	5,392.57	5,399.80	5,393.57	19.01	19.09	90.00	-95.00	150.00	300.00	262.23	37.77	7.944		
5,500.00	5,492.57	5,499.80	5,493.57	19.36	19.44	90.00	-95.00	150.00	300.00	261.53	38.47	7.798		
5,600.00	5,592.57	5,599.80	5,593.57	19.71	19.80	90.00	-95.00	150.00	300.00	260.82 260.12		7.657 7.522		
5,700.00	5,692.57	5,699.80	5,693.57 5,793.57	20.06 20.41	20.15 20.50	90.00 90.00	-95.00 -95.00	150.00 150.00	300.00 300.00	259.41	40.59	7.322		
5,800.00 5,900.00	5,792.57 5,892.57	5,799.80 5,899.80	5,893.57	20.41	20.50	90.00	-95.00	150.00	300.00	259.41	40.39	7.264		
-,000.00	2,202.01													
6,000.00	5,992.57	5,999.80	5,993.57	21.11	21.21	90.00	-95.00	150.00	300.00	257.99	42.01	7.142		
6,100.00	6,092.57	6,099.80	6,093.57	21.46	21.57	90.00	-95.00	150.00	300.00	257.29		7.024		
6,200.00	6,192.57	6,199.80	6,193.57	21.81	21.92	90.00 90.00	-95.00	150.00	300.00 300.00	256.58	43.42 44.13	6.909 6.798		
6,300.00 6,400.00	6,292.57 6,392.57	6,299.80 6,399.80	6,293.57 6.393.57	22.16 22.51	22.27 22.63	90.00 90.00	-95.00 -95.00	150.00 150.00	300.00	255.87 255.16	44.13	6.691		
0,400.00	0,002.01						rgent point, SI							



Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 204H
Project:	Eddy County, NM	TVD Reference:	Well @ 3270.50usft (GL: 3242' + KB: 28.5' (Patt809))
Reference Site:	Stebbins Federal 20 (114-124-134-204)	MD Reference:	Well @ 3270.50usft (GL: 3242' + KB: 28.5' (Patt809))
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	No. 204H	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 Aa	Offset TVD Reference:	Offset Datum

Offset De	÷		s Federal	20 (114-124	1-134-204	l) - No. 114	H - OH - Prelir	n Pian A					Offset Site Error:	0.00 usft
Survey Prog Refer		WD - OWSG Offse		Semi Major	Avie				Dista				Offset Well Error:	1.10 usft
Measured 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	
6,500.00	6,492.57	6,499.80	6,493.57	22.87	22.98	90.00	-95.00	150.00	300.00	254.45	45.55	6.587		
6,600.00	6,592.57	6,575.10	6,568.81	23.22	23.25	90.00	-95.00	151.92	302.93	256.91	46.02	6.582 SF		
6,700.00	6,692.57	6,639.42	6,632.49	23.57	23.49	90.00	-95.00	160.75	316.70	270.78	45.92	6.897		
6,800.00	6,792.57	6,700.00	6,691.20	23.92	23.72	90.00	-95.00	175.55	341.27	296.00	45.27	7.538		
6,900.00	6,892.57	6,750.00	6,738.27	24.27	23.93	90.00	-95.00	192.38	375.96	332.10	43.85	8.573		
7,000.00	6,992.57	6,812.01	6,794.32	24.63	24.19	90.00	-95.00	218.85	419.23	376.22	43.01	9.748		
7,100.00	7,092.57	6,850.00	6,827.12	24.98	24.37	90.00	-95.00	238.00	470.68	429.72	40.96	11.492		
7,200.00	7,192.57	6,900.00	6,868.22	25.33	24.61	90.00	-95.00	266.44	528.46	488.67	39.79	13.282		
7,300.00	7,292.57	6,950.00	6,906.69	25.69	24.88	90.00	-95.00	298.35	592.19	553.35	38.84	15.246		
7,400.00	7,392.57	6,977.78	6,926.82	26.04	25.05	90.00	-95.00	317.49	660.61	623.63	36.98	17.864		
7,500.00	7,492.57	7,000.00	6,942.24	26.39	25.18	90.00	-95.00	333.49	733.30	698.16	35.14	20.867		
7,600.00	7,592.57	7,050.00	6,974.58	26.75	25.52	90.00	-95.00	371.60	809.45	774.57	34.88	23.203		
7,700.00	7,692.57	7,050.00	6,974.58	27.10	25.52	90.00	-95.00	371.60	888.26	855.69	32.58	27.268		
7,800.00	7,792.57	7,083.53	6,994.36	27.45	25.78	90.00	-95.00	398.67	969.42	937.44	31.98	30.316		
7,900.00	7,892.57	7,100.00	7,003.48	27.81	25.91	90.00	-95.00	412.38	1,052.87	1,022.01	30.86	34.120		
8,000.00	7,992.57	7,121.46	7,014.78	28.16	26.10	90.00	-95.00	430.63	1,138.05	1,107.95	30.10	37.803		
8,100.00	8,092.57	7,150.00	7,028.72	28.52	26.35	90.00	-95.00	455.53	1,224.98	1,195.24	29.73	41.201		
8,200.00	8,192.57	7,150.00	7,028.72	28.87	26.35	90.00	-95.00	455.53	1,312.84	1,284.31	28.53	46.022		
8,300.00	8,292.57	7,150.00	7,028.72	29.22	26.35	90.00	-95.00	455.53	1,402.32	1,374.83	27.49	51.003		
8,400.00	8,392.57	7,178.18	7,041.25	29.58	26.63	90.00	-95.00	480.76	1,492.18	1,464.76	27.43	54.409		
8,500.00	8,492.57	7,200.00	7,050.10	29.93	26.85	90.00	-95.00	500.71	1,583.36	1,556.13	27.23	58.151		
8,600.00	8,592.57	7,200.00	7,050.10	30.29	26.85	90.00	-95.00	500.71	1,675.03	1,648.51	26.52	63.161		
8,700.00	8,692.57	7,200.00	7,050.10	30.64	26.85	90.00	-95.00	500.71	1,767.60	1,741.68	25.92	68.206		
8,800.00	8,792.45	7,200.00	7,050.10	30.99	26.85	0.00	-95.00	500.71	1,859.72	1,834.38	25.34	73.400		



Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 204H
Project:	Eddy County, NM	TVD Reference:	Well @ 3270.50usft (GL: 3242' + KB: 28.5' (Patt809))
Reference Site:	Stebbins Federal 20 (114-124-134-204)	MD Reference:	Well @ 3270.50usft (GL: 3242' + KB: 28.5' (Patt809))
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	No. 204H	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 Aa	Offset TVD Reference:	Offset Datum

Offset De	-		is Federal	20 (114-124	+-134-204	+) - NO. 124	H - OH - Preli	m Plan A					Offset Site Error:	0.00 L
urvey Prog Refer		WD - OWSG Offs	et	Semi Major	Axis				Dista	ince			Offset Well Error:	1.10 L
Aeasured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbo	re 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 (usit)	Separation (usft)	Factor		
0.00	0.00	2.00	2.00	1.10	1.10	180.00	-60.00	0.00	60.00					
100.00	100.00	102.00	102.00	1.11	1.11	180.00	-60.00	0.00	60.00	57.78	2.22	27.079		
200.00	200.00	202.00	202.00	1.20	1.21	180.00	-60.00	0.00	60.00	57.59	2.41	24.911		
300.00	300.00	302.00	302.00	1.39	1.39	180.00	-60.00	0.00	60.00	57.22	2.78	21.593		
400.00	400.00	402.00	402.00	1.63	1.64	180.00	-60.00	0.00	60.00	56.73	3.27	18.369		
415.99	415.99	417.99	417.99	1.67	1.68	180.00	-60.00	0.00	60.00	56.65	3.35	17.900 CC		
500.00	500.00	501.98	501.98	1.91	1.92	180.00	-60.00	0.00	60.00	56.17	3.83	15.680		
600.00	599.98	600.70	600.68	2.20	2.20	-60.42	-61.01	1.45	60.17	55.76	4.41	13.649 ES		
700.00	699.84	698.94	698.78	2.51	2.50	-68.37	-63.96	5.66	61.40	56.39	5.01	12.260		
800.00	799.49	797.15	796.65	2.83	2.82	-79.95	-68.61	12.30	65.66	60.02	5.64	11.639		
900.00	899.11	896.10	895.23	3.16	3.15	-90.36	-73.55	19.36	72.74	66.45	6.30	11.554		
1,000.00	998.73	995.05	993.80	3.51	3.49	-98.73	-78.50	26.43	81.80	74.83	6.96	11.744		
1,100.00	1,098.35	1,093.99	1,092.37	3.86	3.84	-105.35	-83.44	33.49	92.24	84.60	7.64	12.068		
1,200.00	1,197.97	1,192.94	1,190.94	4.22	4.19	-110.57	-88.39	40.56	103.66	95.33	8.33	12.443		
1,300.00	1,297.59	1,295.72	1,293.44	4.59	4.56	-114.92	-92.61	46.59	114.23	105.19	9.05	12.629		
1,400.00	1,397.21	1,399.41	1,397.07	4.95	4.92	-118.71	-94.74	49.63	121.75	111.99	9.76	12.470		
1,500.00	1,496.83	1,501.18	1,498.83	5.32	5.26	-122.21	-95.00	50.00	126.62	116.15	10.47	12.096		
1,600.00	1,596.45	1,600.80	1,598.45	5.69	5.60	-125.42	-95.00	50.00	131.48	120.32	11. 17	11.775		
1,700.00	1,696.07	1,700.42	1,698.07	6.07	5.93	-128.39	-95.00	50.00	136.73	124.86	11.87	11.522		
1,800.00	1,795.69	1,800.03	1,797.69	6.44	6.27	-131.14	-95.00	50.00	142.32	129.75	12.57	11.323		
1,900.00	1,895.31	1,899.65	1,897.31	6.82	6.61	-133.67	-95.00	50.00	148.21	134.94	13.27	11.167		
2,000.00	1,994.93	1,999.27	1,996.93	7.20	6.96	-136.01	-95.00	50.00	154.37	140.39	13.98	11.045		
2,100.00	2,094.55	2,098.89	2,096.55	7.58	7.30	-138.16	-95.00	50.00	160.76	146.08	14.68	10.950		
2,200.00	2,194.17	2,198.51	2,196.17	7.96	7.64	-140.15	-95.00	50.00	167.37	151.98	15.39	10.876		
2,300.00	2,293.78	2,298.13	2,295.78	8.34	7.99	-141.98	-95.00	50.00	174.16	158.06	16.09	10.821		
2,400.00	2,393.40	2,397.75	2,395.40	8.72	8.34	-143.68	-95.00	50.00	181.11	164.31	16.80	10.779		
2,500.00	2,493.02	2,497.37	2,495.02	9.10	8.69	-145.25	-95.00	50.00	188.22	170.71	17.51	10.749		
2,600.00	2,592.70	2,597.05	2,594.70	9.47	9.03	-146.64	-95.00	50.00	194.87	176.65	18.22	10.697		
2,700.00	2,692.58	2,696.93	2,694.58	9.84	9.38	-147.44	-95.00	50.00	198.88	179.96	18.92	10.511		
2,800.00	2,792.57	2,796.91	2,794.57	10.17	9.74	90.00	-95.00	50.00	200.00	180.39	19.61	10.198		
2,900.00	2,892.57	2,896.91	2,894.57	10.50	10.09	90.00	-95.00	50.00	200.00	179.70	20.30	9.855		
3,000.00	2,992.57	2,996.91	2,994.57	10.82	10.44	90.00	-95.00	50.00	200.00	179.02	20.98	9.533		
3,100.00	3,092.57	3,096.91	3,094.57	11.15	10.79	90.00	-95.00	50.00	200.00	178.33	21.67	9.230		
3,200.00	3,192.57	3,196.91	3,194.57	11.48	11.14	90.00	-95.00	50.00	200.00	177.64	22.36	8.946		
3,300.00	3,292.57	3,296.91	3,294.57	11.81	11.50	90.00	-95.00	50.00	200.00	176.95	23.05	8.678 8.425		
3,400.00	3,392.57	3,396.91	3,394.57	12.15	11.85	90.00	-95.00	50.00	200.00	176.26	23.74	0.420		
3,500.00	3,492.57	3,496.91	3,494.57	12.48	12.21	90.00	-95.00	50.00	200.00	175.57	24.43	8.186		
3,600.00	3,592.57	3,596.91	3,594.57	12.82	12.56	90.00	-95.00	50.00	200.00	174.87	25.13	7.959		
3,700.00	3,692.57	3,696.91	3,694.57	13.16	12.91	90.00	-95.00	50.00	200.00	174.18	25.82	7.745		
3,800.00	3,792.57	3,796.91	3,794.57	13.50	13.27	90.00	-95.00	50.00	200.00		26.52	7.541		
3,900.00	3,892.57	3,896.91	3,894.57	13.83	13.62	90.00	-95.00	50.00	200.00	172.78	27.22	7.348		
4,000.00	3,992.57	3,996.91	3,994.57	14.17	13.98	90.00	-95.00	50.00	200.00	172.08	27.92	7.164		
4,100.00	4,092.57	4,096.91	4,094.57	14.52	14.33	90.00	-95.00	50.00	200.00	171.38	28.62	6.988		
4,200.00	4,192.57	4,196.91	4,194.57	14.86	14.69	90.00	-95.00	50.00	200.00	170.68	29.32	6.821		
4,300.00	4,292.57	4,296.91	4,294.57	15.20	15.04	90.00	-95.00	50.00	200.00	169.98	30.02	6.662		
4,400.00	4,392.57	4,396.91	4,394.57	15.54	15.40	90.00	-95.00	50.00	200.00	169.28	30.72	6.510		
4,500.00	4,492.57	4,496.91	4,494.57	15.89	15.76	90.00	-95.00	50.00	200.00	168.57	31.43	6.364		
4,600.00	4,592.57	4,596.91	4,594.57	16.23	16.11	90.00	-95.00	50.00	200.00	167.87	32.13	6.225		
4,700.00	4,692.57	4,696.91	4,694.57	16.58	16.47	90.00	-95.00	50.00	200.00	167.17	32.83	6.091		
4,800.00	4,792.57	4,796.91	4,794.57	16.92	16.82	90.00	-95.00	50.00	200.00	166.46	33.54	5.963		
4,900.00	4,892.57	4,896.91	4,894.57	17.27	17.18	90.00	-95.00	50.00	200.00	165.76	34.24	5.840		



Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 204H
Project:	Eddy County, NM	TVD Reference:	Well @ 3270.50usft (GL: 3242' + KB: 28.5' (Patt809))
Reference Site:	Stebbins Federal 20 (114-124-134-204)	MD Reference:	Well @ 3270.50usft (GL: 3242' + KB: 28.5' (Patt809))
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	No. 204H	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 Aa	Offset TVD Reference:	Offset Datum

	ram 0.M	WD - OWSG											Office at 181-11 Prove-	4 4 4
rvey Prog Refer		VVD - UVVSG Offse	ət	Semi Major	Axis				Dista	ince			Offset Well Error:	1.10
asured lepth usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (*)	Offset Wellbor +N/-S	+E/-W	Between Centres	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
			• •			(*)	(usft)	(usft)	(usft)					
5,000.00	4,992.57	4,996.91	4,994.57	17.62	17.54	90.00	-95.00	50.00	200.00	165.05	34.95	5.722		
5,100.00	5,092.57	5,096.91	5,094.57	17.97	17.89	90.00	-95.00	50.00	200.00	164.34	35.66	5.609		
,200.00	5,192.57	5,196.91	5,194.57	18.31	18.25	90.00	-95.00	50.00	200.00	163.64	36.36	5.500		
5,300.00	5,292.57	5,296.91	5,294.57	18.66	18.60	90.00	-95.00	50.00	200.00	162.93	37.07	5.395		
5,400.00	5,392.57	5,396.91	5,394.57	19.01	18.96	90.00	-95.00	50.00	200.00	162.22	37.78	5.294		
5,500.00	5,492.57	5,496.91	5,494.57	19.36	19.32	90.00	-95.00	50.00	200.00	161.52	38.48	5.197		
5,600.00	5,592.57	5,596.91	5,594.57	19.71	19.67	90.00	-95.00	50.00	200.00	160.81	39.19	5.103		
5,700.00	5,692.57	5,696.91	5,694.57	20.06	20.03	90.00	-95.00	50.00	200.00	160.10	39.90	5.012		
5,800.00	5,792.57	5,796.91	5,794.57	20.41	20.39	90.00	-95.00	50.00	200.00	159.39	40.61	4.925		
5,900.00	5,892.57	5,896.91	5,894.57	20.76	20.75	90.00	-95.00	50.00	200.00	158.68	41.32	4.840		
6,000.00	5,992.57	5,996.91	5,994.57	21.11	21.10	90.00	-95.00	50.00	200.00	157.97	42.03	4.759		
6,100.00	6,092.57	6,096.91	6,094.57	21.46	21.46	90.00	-95.00	50.00	200.00	157.26	42.74	4.680		
6,200.00	6,192.57	6,196.91	6,194.57	21.81	21.82	90.00	-95.00	50.00	200.00	156.55	43.45	4.603		
6,300.00	6,292.57	6,296.91	6,294.57	22.16	22.17	90.00	-95.00	50.00	200.00	155.84	44.16	4.529		
6,400.00	6,392.57	6,396.91	6,394.57	22.51	22.53	90.00	-95.00	50.00	200.00	155.13	44.87	4.458		
6,500.00	6,492.57	6,496.91	6,494.57	22.87	22.89	90.00	-95.00	50.00	200.00	154.42	45.58	4.388		
6,600.00	6,592.57	6,596.91	6,594.57	23.22	23.25	90.00	-95.00	50.00	200.00	153.71	46.29	4.321		
6,700.00	6,692.57	6,696.91	6,694.57	23.57	23.60	90.00	-95.00	50.00	200.00	153.00	47.00	4.255		
6,800.00	6,792.57	6,796.91	6,794.57	23.92	23.96	90.00	-95.00	50.00	200.00	152.29	47.71	4.192		
6,900.00	6,892.57	6,896.91	6,894.57	24.27	24.32	90.00	-95.00	50.00	200.00	151.58	48.42	4.130		
7,000.00	6,992.57	6,996.91	6,994.57	24.63	24.67	90.00	-95.00	50.00	200.00	150.87	49.13	4.071		
7,100.00	7,092.57	7,096.91	7,094.57	24.98	25.03	90.00	-95.00	50.00	200.00	150.16	49.84	4.013		
7,101.40	7,093.96	7,098.31	7,095.96	24.98	25.04	90.00	-95.00	50.00	200.00	150.15	49.85	4.012 SF	-	
7,200.00	7,192.57	7,181.94	7,179.55	25.33	25.33	90.00	-95.00	51.58	202.14	151.80	50.34	4.015		
7,300.00	7,292.57	7,250.00	7,246.97	25.69	25.57	90.00	-95.00	60.65	215.96	166.12	49.84	4.333		
7,400.00	7,392.57	7,323.64	7,318.13	26.04	25.84	90.00	-95.00	79.38	241.78	192.65	49.13	4.921		
7,500.00	7,492.57	7,387.60	7,377.56	26.39	26.07	90.00 90.00	-95.00	102.94	278.70	231.02	49.13	5.846		
7,600.00	7,592.57	7,450.00	7,432.65	26.75	26.31	90.00	-95.00	132.17	325.33	279.09	46.24	7.036		
7,700.00	7,692.57	7,500.00	7,474.30	20.75	26.51	90.00	-95.00	159.81	320.33	335.97	40.24	8.608		
7,800.00	7,792.57	7,550.00	7,513.39	27.10	26.73	90.00	-95.00	190.97	441.95	399.46	44.10	10.400		
7,000.00	1,192.51	1,000.00	7,313.33	27.40	20.75	30.00	-53.00	190.97	441.55	555.40	42.00	10.400		
7,900.00	7,892.57	7,583.59	7,538.05	27.81	26.90	90.00	-95.00	213.76	509.34	469.23	40.11	12.699		
8,000.00	7,992.57	7,619.05	7,562.59	28.16	27.08	90.00	-95.00	239.35	581.55	543.21	38.34	15.170		
8,100.00	8,092.57	7,650.00	7,582.68	28.52	27.25	90.00	-95.00	262.89	657.65	620.95	36.70	17.921		
8,200.00	8,192.57	7,677.72	7,599.58	28.87	27.43	90.00	-95.00	284.87	736.97	701.73	35.24	20.913		
8,300.00	8,292.57	7,700.00	7,612.37	29.22	27.57	90.00	-95.00	303.11	818.96	785.14	33.82	24.213		
8,400.00	8,392.57	7,723.58	7,625.13	29.58	27.74	90.00	-95.00	322.93	903.16	870.41	32.75	27.575		
8,500.00	8,492.57	7,750.00	7,638.44	29.93	27.93	90.00	-95.00	345.75	989.31	957.28	32.03	30.886		
8,600.00	8,592.57	7,750.00	7,638.44	30.29	27.93	90.00	-95.00	345.75	1,077.01	1,046.60	30.42	35.410		
8,700.00	8,692.57	7,775.41	7,650.23	30.64	28.14	90.00	-95.00	368.26	1,165.86	1,135.84	30.02	38.841		
8,800.00	8,792.45	7,800.00	7,660.69	30.99	28.35	0.00	-95.00	390.51	1,254.64	1,225.05	29.59	42.395		
8,900.00	8,890.47	7,800.00	7,660.69	31.31	28.35	0.00	-95.00	390.51	1,336.33	1,308.27	28.07	47.614		
9,000.00	8,983.68	7,827.98	7,671.41	31.61	28.61	0.00	-95.00	416.35	1,409.07	1,381.84	27.23	51.741		
9,100.00	9,069.23	7,850.00	7,678.95	31.91	28.82	0.00	-95.00	437.04	1,471.81	1,445.77	26.04	56.510		
9,200.00	9,144.54	7,873.73	7,686.19	32.25	29.02	0.00	-95.00	459.64	1,523.56	1,498.75	20.04	61.409		
9,300.00	9,144.34 9,207.32	7,900.00	7,693.10	32.23	29.08	0.00	-95.00	459.84	1,563.59	1,498.75	24.61	66.206		
	0.055.05	7 00 1 07	7 000 10	00.07	00.05			con .c						
9,400.00	9,255.65 9,288.08	7,924.07 7,950.00	7,698.40 7,703.01	33.27 34.04	29.65 29.95	0.00 0.00	-95.00 -95.00	508.46 533.97	1,591.35 1,606.50	1,568.93 1,585.07	22.43	70.954 74.981		
9,500.00 9,600.00									1,608.82		21.43			
9,500.00	9,303.60 9,304.96	7,976.35	7,706.50	35.01	30.29	0.00	-95.00	560.09	· ·	1,588.16	20.66	77.878		
		8,000.00	7,708.61	36.17	30.60	0.00	-95.00	583.64	1,601.48	1,581.33	20.15	79.466		
9,800.00	9,304.96	8,039.34	7,709.96	37.52	31.14	0.00	-95.00	622.95	1,597.49	1,577.33	20.16	79.251		



Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 204H
Project:	Eddy County, NM	TVD Reference:	Well @ 3270.50usft (GL: 3242' + KB: 28.5' (Patt809))
Reference Site:	Stebbins Federal 20 (114-124-134-204)	MD Reference:	Well @ 3270.50usft (GL: 3242' + KB: 28.5' (Patt809))
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	No. 204H	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 Aa	Offset TVD Reference:	Offset Datum

Offset De Jurvey Prog	-	Steppin WD - OWSG	s Federal	20 (114-124	+-104-20-	+) = 110. 124							Offset Site Error: Offset Well Error:	0.00 us 1.10 us
Refer		Offse	ot	Semi Major	Axis				Dista	ince			Criset Weit Error,	1.10 42
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (*)	Offset Wellbor +N/-S (usft)	re Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
9,900.00	9,304.96	8,099.93	7,709.96	39.05	32.04	0.00	-95.00	683.54	1,597.00	1,576.44	20.57	77.656		
9,905.53	9,304.96	8,105.46	7,709.96	39.14	32.13	0.00	-95.00	689.07	1,597.00	1,576.39	20.61	77.491		
10,000.00	9,304.96	8,199.93	7,709.96	40.74	33.67	0.00	-95.00	783.54	1,597.00	1,575.64	21.36	74.774		
10,100.00	9,304.96	8,299.93	7,709.96	42.57	35.48	0.00	-95.00	883.54	1,597.00	1,574.77	22.24	71.823		
10,200.00	9,304.96	8,399.93	7,709.96	44.52	37.43	0.00	-95.00	983.54	1,597.00	1,573.81	23.19	68.873		
10,300.00	9,304.96	8,499.93	7,709.96	46.58	39.52	0.00	-95.00	1,083.54	1,597.00	1,572.80	24.21	65.978		
10,400.00	9.304.97	8,599.93	7,709.96	48.74	41.71	0.00	-95.00	1,183.54	1,597.00	1,571.72	25.28	63.173		
10,500.00	9,304.97	8,699.93	7,709.96	50.97	43.99	0.00	-95.00	1,283.54	1,597.00	1,570.60	26.40	60.483		
10,600.00	9,304.97	8,799.93	7,709.97	53.28	46.36	0.00	-95.00	1,383.54	1,597.00	1,569.43	27.57	57.921		
10,700.00	9,304.97	8,899.93	7,709.97	55.66	48.79	0.00	-95.00	1,483.54	1,597.00	1,568.22	28.78	55.494		
10,800.00	9,304.97	8,999.93	7,709.97	58.08	51.27	0.00	-95.00	1,583.54	1,597.00	1,566.98	30.02	53.203		
10,900.00	9,304.97	9,099.93	7,709.97	60.56	53.81	0.00	-95.00	1,683.54	1,597.00	1,565.72	31.29	51.045		
11,000.00	9,304.97	9,199.93	7,709.97	63.08	56.39	0.00	-95.00	1,783.54	1,597.00	1,564.42	32.58	49.017		
11,100.00	9,304.97	9,299.93	7,709.97	65.64	59.00	0.00	-95.00	1,883.54	1,597.00	1,563.10	33.90	47.112		
11,200.00	9,304.97	9,399.93	7,709.97	68.23	61.65	0.00	-95.00	1,983.54	1,597.00	1,561.77	35.24	45.323		
11,300.00	9,304.97	9,499.93	7,709.97	70.85	64.32	0.00	-95.00	2,083.54	1,597.00	1,560.41	36.59	43.643		
11,400.00	9,304.97	9,599.93	7,709.97	73.50	67.03	0.00	-95.00	2,183.54	1,597.00	1,559.04	37.96	42.066		
11,500.00	9,304.98	9,699.93	7,709.97	76.17	69.75	0.00	-95.00	2,283.54	1,597.00	1,557.65	39.35	40.583		
11,600.00	9,304.98	9,799.93	7,709.98	78.86	72.49	0.00	-95.00	2,383.54	1,597.00	1,556.25	40.75	39.189		
11,700.00	9,304.98	9,899.93	7,709.98	81.58	75.25	0.00	-95.00	2,483.54	1,597.00	1,554.84	42.16	37.877		
11,800.00	9,304.98	9,999.93	7,709.98	84.31	78.03	0.00	~95.00	2,583.54	1,597.00	1,553.42	43.59	36.641		
11,900.00	9,304.98	10,099.93	7,709.98	87.05	80.82	0.00	-95.00	2,683.54	1,597.00	1,551.98	45.02	35.475		
12,000.00	9,304.98	10,199.93	7,709.98	89.81	83.62	0.00	-95.00	2,783.54	1,597.00	1,550.54	46.46	34.375		
12,100.00	9,304.98	10,299.93	7,709.98	92.59	86.44	0.00	-95.00	2,883.54	1,597.00	1,549.09	47.91	33.336		
12,200.00	9,304.98	10,399.93	7,709.98	95.37	89.26	0.00	-95.00	2,983.54	1,597.00	1,547.64	49.36	32.353		
12,300.00	9,304.98	10,499.93	7,709.98	98.17	92.09	0.00	-95.00	3,083.54	1,597.00	1,546.18	50.82	31.422		
12,400.00	9,304.98	10,599.93	7,709.98	100.98	94.94	0.00	-95.00	3,183.54	1,597.00	1,544.71	52.29	30.539		
12,400.00	9,304.98 9,304.98	10,699.93	7,709.98	100.98	94.94 97.79	0.00	-95.00	3,183.54	1,597.00	1,543.23	53.77	29.702		
12,600.00	9,304.99	10,799.93	7,709.99	106.62	100.64	0.00	-95.00	3,383.54	1,597.00	1,541.75	55.25	28.906		
12,700.00	9,304.99	10,899.93	7,709.99	109.45	103.51	0.00	-95.00	3,483.54	1,597.00	1,540.27	56.73	28.150		
12,800.00	9,304.99	10,999.93	7,709.99	112.29	106.38	0.00	-95.00	3,583.54	1,597.00	1,538.78	58.22	27.430		
12 000 00	0 204 00	11 000 02	7 700 00	115 14	100.25	0.00	05.00	3 693 54	1 507 00	1 527 20	50.71	26 745		
12,900.00 13,000.00	9,304.99 9,304.99	11,099.93 11,199.93	7,709.99 7,709.99	115.14 117.99	109.25 112.13	0.00 0.00	-95.00 -95.00	3,683.54 3,783.54	1,597.00 1,597.00	1,537.29 1,535.79	59.71 61.21	26.745 26.091		
13,100.00	9,304.99	11,299.93	7,709.99	120.85	112.13	0.00	-95.00	3,883.54	1,597.00	1,534.29	62.71	25.467		
13,200.00	9,304.99	11,399.93	7,709.99	123.71	117.90	0.00	-95.00	3,983.54	1,597.00	1,534.25	64.21	24.870		
13,300.00	9,304.99	11,499.93	7,709.99	126.58	120.80	0.00	-95.00	4,083.54	1,597.00	1,531.28	65.72	24.300		
13,400.00	9,304.99	11,599.93	7,709.99	129.45	123.70	0.00	-95.00	4,183.54	1,597.00	1,529.77	67.23	23.755		
13,500.00	9,304.99	11,699.93	7,709.99	132.33	126.60	0.00	-95.00	4,283.54	1,597.00	1,528.26	68.74	23.232		
13,600.00	9,305.00	11,799.93	7,709.99	135.21	129.50	0.00	-95.00	4,383.54	1,597.00	1,526.75	70.26	22.731		
13,700.00 13,800.00	9,305.00 9,305.00	11,899.93 11,999.93	7,710.00 7,710.00	138.10 140.99	132.41 135.32	0.00 0.00	-95.00 -95.00	4,483.54 4,583.54	1,597.00 1,597.00	1,525.23 1,523.71	73.29	22.251 21.790		
13,000.00	9,303.00	11,599.93	7,710.00	140.99	133.32	0.00	-95.00	4,000.04	1,387.00	1,023.11	13.29	21.190		
13,900.00	9,305.00	12,099.93	7,710.00	143.88	138.23	0.00	-95.00	4,683.54	1,597.00	1,522.19	74.81	21.347		
14,000.00	9,305.00	12,199.93	7,710.00	146.78	141,14	0.00	-95.00	4,783.54	1,597.00	1,520.67	76.33	20.921		
14,100.00	9,305.00	12,299.93	7,710.00	149.68	144.06	0.00	-95.00	4,883.54	1,597.00	1,519.14	77.86	20.511		
14,125.10	9,305.00	12,325.03	7,710.00	150.40	144.52	0.00	- 9 5.00	4,908.64	1,597.00	1,518.85	78.15	20.436		
14,136.48	9,305.00	12,336.39	7,710.00	150.73	144.73	0.00	-95.00	4,920.00	1,597.00	1,518.72	78.28	20.402		



Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 204H
Project:	Eddy County, NM	TVD Reference:	Well @ 3270.50usft (GL: 3242' + KB: 28.5' (Patt809))
Reference Site:	Stebbins Federal 20 (114-124-134-204)	MD Reference:	Well @ 3270.50usft (GL: 3242' + KB: 28.5' (Patt809))
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	No. 204H	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 Aa	Offset TVD Reference:	Offset Datum

offset De			s Federal	20 (114-124	1-134-204	4) - No. 134I	H - OH - Prelii	n Plan A					Offset Site Error:	0.00 ust
rvey Prog		WD - OWSG Offs		Semi Major	Avla				0				Offset Well Error:	1.10 us
Refere easured	ence Vertical	Measured	et Vertical	Semi Major Reference	Offset	Highside	Offset Wellbor	e Centre	Dista 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	warning	
0.00	0.00	2.00	2.00	1.10	1.10	180.00	-30.00	0.00	30.00					
100.00	100.00	102.00	102.00	1.11	1.11	180.00	-30.00	0.00	30.00	27.78	2.22	13.540		
200.00	200.00	202.00	202.00	1.20	1.21	180.00	-30.00	0.00	30.00	27.59	2.41	12,455		
300.00	300.00	302.00	302.00	1.39	1.39	180.00	-30.00	0.00	30.00	27.22	2.78	10.796		
400.00	400.00	402.00	402.00	1.63	1.64	180.00	-30.00	0.00	30.00	26.73	3.27	9.185		
415.99	415.99	417.99	417.99	1.67	1.68	180.00	-30.00	0.00	30.00	26.65	3.35	8.950 CC		
500.00	500.00	501.98	501.98	1.91	1.92	-180.00	-30.00	0.00	30.00	26.17	3.83	7.840		
600.00	599.98	601.16	601.13	2.20	2.20	-58.35	-31.42	-1.09	30.50	26.09	4.41	6.917 ES		
700.00	699.84	700.30	700.14	2.51	2.50	-60.46	-35.55	-4.27	31.90	26.89	5.01	6.370		
800.00	799.49	799.84	799.33	2.83	2.82	-63.51	-42.08	-9.30	34.18	28.54	5.64	6.059		
900.00	899.11	899.79	898.91	3.16	3.15	-66.33	-48.99	-14.61	36.67	30.36	6.30	5.818		
1,000.00	998.73	999.75	998.48	3.51	3.49	-68.79	-55.89	-19.92	39.23	32.25	6.99	5.616		
1,100.00	1,098.35	1,099.70	1,098.05	3.86	3.85	-70.95	-62.80	-25.23	41.86	34.18	7.68	5.448		
1,200.00	1,197.97	1,199.65	1,197.63	4.22	4.20	-72.85	-69.70	-30.54	44.54	36.15	8.40	5.305		
1,300.00	1,297.59	1,299.61	1,297.20	4.59	4.57	-74.53	-76.61	-35.85	47.27	38.15	9.12	5.185		
1,400.00	1,397.21	1,399.56	1,396.77	4.95	4.93	-76.03	-83.51	-41.16	50.03	40.18	9.85	5.081		
1,500.00	1,496.83	1,500.10	1,496.98	5.32	5.30	-77.94	-89.97	-46.13	52.49	41.91	10.58	4.960		
1,600.00	1,596.45	1,600.93	1,597.68	5.69	5.66	-82.69	-93.88	-49.14	53.46	42.13	11.33	4.720		
1,700.00	1,696.07	1,701.33	1,698.07	6.07	6.00	-90.67	-95.00	-50.00	53.51	41.45	12.06	4.439		
1,800.00	1,795.69	1,800.95	1,797.69	6.44	6.33	-99.87	-95.00	-50.00	54.31	41.55	12.77	4.255		
1,900.00	1,895.31	1,900.57	1,897.31	6.82	6.66	-108.58	-95.00	-50.00	56.47	43.01	13.46	4.195		
2,000.00	1,994.93	2,000.19	1,996.93	7.20	6.99	-116.50	-95.00	-50.00	59.83	45.68	14.15	4.229		
2,100.00	2,094.55	2,099.81	2,096.55	7.58	7.33	-123.46	-95.00	-50.00	64.21	49.38	14.83	4.331		
2,200.00	2,194.17	2,199.43	2,196.17	7.96	7.67	-129.46	-95.00	-50.00	69.40	53.90	15.50	4.477		
2,300.00	2,293.78	2,299.05	2,295.78	8.34	8.01	-134.58	-95.00	-50.00	75.26	59.08	16.18	4.651		
2,400.00	2,393.40	2,398.67	2,395.40	8.72	8.35	-138.93	-95.00	-50.00	81.62	64.76	16.86	4.841		
2,500.00	2,493.02	2,498.29	2,495.02	9.10	8.69	~142.64	-95.00	-50.00	88.39	70.84	17.54	5.038		
2,600.00	2,592.70	2,597.96	2,594.70	9.47	9.03	-145.62	-95.00	-50.00	94.90	76.67	18.23	5.206		
2,700.00	2,692.58	2,697.84	2,694.58	9.84	9.38	-147.23	-95.00	-50.00	98.89	79.96	18.92	5.226		
2,800.00	2,792.57	2,797.83	2,794.57	10.17	9.73	90.00	-95.00	-50.00	100.00	80.39	19.61	5.100		
2,900.00	2,892.57	2,897.83	2,894.57	10.50	10.07	90.00	-95.00	-50.00	100.00	79.71	20.29	4.930		
3,000.00	2,992.57	2,997.83	2,994.57	10.82	10.42	90.00	-95.00	-50.00	100.00	79.03	20.97	4.769		
3,100.00	3,092.57	3,097.83	3,094.57	11.15	10.77	90.00	-95.00	-50.00	100.00	78.35	21.65	4.619		
3,200.00	3,192.57	3,197.83	3,194.57	11.48	11.12	90.00	-95.00	-50.00	100.00	77.66	22.34	4.477		
3,300.00	3,292.57	3,297.83	3,294.57	11.81	11.47	90.00	-95.00	-50.00	100.00	76.98	23.02	4.343		
3,400.00	3,392.57	3,397.83	3,394.57	12.15	11.82	90.00	-95.00	-50.00	100.00	76.29	23.71	4.217		
3,500.00	3,492.57	3,497.83	3,494.57	12.48	12.17	90.00	-95.00	-50.00	100.00	75.60	24.40	4.098		
3,600.00	3,592.57	3,597.83	3,594.57	12.82	12.52	90.00	-95.00	-50.00	100.00	74.90	25.10	3.985		
3,700.00	3,692.57	3,697.83	3,694.57	13.16	12.87	90.00	-95.00	-50.00	100.00	74.21	25.79	3.878		
3,800.00	3,792.57	3,797.83	3,794.57	13.50	13.23	90.00	-95.00	-50.00	100.00	73.52	26.48	3.776		
3,900.00	3,892.57	3,897.83	3,894.57	13.83	13.58	90.00	-95.00	-50.00	100.00	72.82	27.18	3.679		
4,000.00	3,992.57	3,997.83	3,994.57	14.17	13.93	90.00	-95.00	-50.00	100.00	72.12	27.88	3.587		
4,100.00	4,092.57	4,097.83	4,094.57	14.52	14.28	90.00	-95.00	-50.00	100.00	71.42	28.58	3.499		
4,200.00	4,192.57	4,197.83	4,194.57	14.86	14.64	90.00	-95.00	-50.00	100.00	70.73	29.27	3.416		
4,300.00	4,292.57	4,297.83	4,294.57	15.20	14.99	90.00	-95.00	-50.00	100.00	70.03	29.97	3.336		
4,400.00	4,392.57	4,397.83	4,394.57	15.54	15.35	90.00	-95.00	-50.00	100.00	69.33	30.67	3.260		
4,500.00	4,492.57	4,497.83	4,494.57	15.89	15.70	90.00	-95.00	-50.00	100.00	68.62	31.38	3.187		
4,600.00	4,592.57	4,597.83	4,594.57	16.23	16.05	90.00	-95.00	-50.00	100.00	67.92	32.08	3.117		
4,700.00	4,692.57	4,697.83	4,694.57	16.58	16.41	90.00	-95.00	-50.00	100.00	67.22	32.78	3.051		
4,800.00	4,792.57	4,797.83	4,794.57	16.92	16.76	90.00	-95.00	-50.00	100.00	66.52	33.48	2.986		
4,900.00	4,892.57	4,897.83	4,894.57	17.27	17.12	90.00	-95.00	-50.00	100.00	65.81	34.19	2.925		



Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 204H
Project:	Eddy County, NM	TVD Reference:	Well @ 3270.50usft (GL: 3242' + KB: 28.5' (Patt809))
Reference Site:	Stebbins Federal 20 (114-124-134-204)	MD Reference:	Well @ 3270.50usft (GL: 3242' + KB: 28.5' (Patt809))
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	No. 204H	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 Aa	Offset TVD Reference:	Offset Datum

Offset De	sign	Stebbin	s Federal	20 (114-124	4-134-204	4) - No. 1341	H - OH - Prelir	n Plan A					Offset Site Error:	0.00 usft
Survey Prog	ram: 0-M	WD - OWSG											Offset Well Error:	1.10 usft
Refer		Offs		Semi Major					Dista	ince				
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbor +N/-S	e Centre +E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(*)	(usft)	(usft)	(usft)	(usft)	(usft)			
5,000.00	4,992.57	4,997.83	4,994.57	17.62	17.47	90.00	-95.00	-50.00	100.00	65.11	34.89	2.866		
5,100.00	5,092.57	5,097.83	5,094.57	17.97	17.83	90.00	-95.00	-50.00	100.00	64.40	35.60	2.809		
5,200.00	5,192.57	5,197.83	5,194.57	18.31	18.18	90.00	-95.00	-50.00	100.00	63.70	36.30	2.755		
5,300.00	5,292.57	5,297.83	5,294.57	18.66	18.54	90.00	-95.00	-50.00	100.00	62.99	37.01	2.702		
5,400.00	5,392.57	5,397.83	5,394.57	19.01	18.89	90.00	-95.00	-50.00	100.00	62.29	37.71	2.651		
5,500.00	5,492.57	5,497.83	5,494.57	19.36	19.25	90.00	-95.00	-50.00	100.00	61.58	38.42	2.603		
5,600.00	5,592.57	5,597.83	5,594.57	19.71	19.61	90.00	-95.00	-50.00	100.00	60.87	39.13	2.556		
5,700.00	5,692.57	5,697.83	5,694.57	20.06	19.96	90.00	-95.00	-50.00	100.00	60.16	39.84	2.510		
5,800.00	5,792.57	5,797.83	5,794.57	20.41	20.32	90.00	-95.00	-50.00	100.00	59.46	40.54	2.466		
5,900.00	5,892.57	5,897.83	5,894.57	20.76	20.67	90.00	-95.00	-50.00	100.00	58.75	41.25	2.424		
6,000.00	5,992.57	5,997.83	5,994.57	21.11	21.03	90.00	-95.00	-50.00	100.00	58.04	41.96	2.383		
6,100.00	6,092.57	6,097.83	6,094.57	21.46	21.39	90.00	-95.00	-50.00	100.00	57.33	42.67	2.344		
6,200.00	6,192.57	6,197.83	6,194.57	21.81	21.74	90.00	-95.00	-50.00	100.00	56.62	43.38	2.305		
6,300.00	6,292.57	6,297.83	6,294.57	22.16	22.10	90.00	-95.00	-50.00	100.00	55.91	44.09	2.268		
6,400.00	6,392.57	6,397.83	6,394.57	22.51	22.45	90.00	-95.00	-50.00	100.00	55.20	44.80	2.232		
6,500.00	6,492.57	6,497.83	6,494.57	22.87	22.81	90.00	-95.00	-50.00	100.00	54.49	45.51	2.198		
6,600.00	6,592.57	6,597.83	6,594.57	23.22	23.17	90.00	-95.00	-50.00	100.00	53.78	46.22	2.164		
6,700.00	6,692.57	6,697.83	6,694.57	23.57	23.52	90.00	-95.00	-50.00	100.00	53.07	46.93	2.131		
6,800.00	6,792.57	6,797.83	6,794.57	23.92	23.88	90.00	-95.00	-50.00	100.00	52.36	47.64	2.099		
6,900.00	6,892.57	6,897.83	6,894.57	24.27	24.24	90.00	-95.00	-50.00	100.00	51.65	48.35	2.068		
7,000.00	6,992.57	6,997.83	6,994.57	24.63	24.59	90.00	-95.00	-50.00	100.00	50.94	49.06	2.038		
7,100.00	7,092.57	7,097.83	7,094.57	24.98	24.95	90.00	-95.00	-50.00	100.00	50.23	49.77	2.009		
7,200.00	7,192.57	7,197.83	7,194.57	25.33	25.31	90.00	-95.00	-50.00	100.00	49.52	50.48	1.981		
7,300.00	7,292.57	7,297.83	7,294.57	25.69	25.66	90.00	-95.00	-50.00	100.00	48.81	51.19	1.954		
7,400.00	7,392.57	7,397.83	7,394.57	26.04	26.02	90.00	-95.00	-50.00	100.00	48.10	51.90	1.927		
7,500.00	7,492.57	7,497.83	7,494.57	26.39	26.38	90.00	-95.00	-50.00	100.00	47.39	52.61	1.901		
7,600.00	7,592.57	7,597.83	7,594.57	26.75	26.73	90.00	-95.00	-50.00	100.00	46.68	53.32	1.875		
7,700.00	7,692.57	7,697.83	7,694.57	27.10	27.09	90.00	-95.00	-50.00	100.00	45.96	54.04	1.851		
7,800.00	7,792.57	7,797.83	7,794.57	27.45	27.45	90.00	-95.00	-50.00	100.00	45.25	54.75	1.827		
7,900.00	7,892.57	7,897.83	7,894.57	27.81	27.81	90.00	-95.00	-50.00	100.00	44.54	55.46	1.803		
8,000.00	7,992.57	7,997.83	7,994.57	28.16	28.16	90.00	-95.00	-50.00	100.00	43.83	56.17	1.780		
8,100.00	8,092.57	8,097.83	8,094.57	28.52	28.52	90.00	-95.00	-50.00	100.00	43.12	56.88	1.758		
8,200.00	8,192.57	8,197.83	8,194.57	28.87	28.88	90.00	-95.00	-50.00	100.00	42.40	57.60	1.736		
8,300.00	8,292.57	8,297.83	8,294.57	29.22	29.23	90.00	-95.00	-50.00	100.00	41.69	58.31	1.715		
8,400.00	8,392.57	8,397.83	8,394.57	29.58	29.59	90.00	-95.00	-50.00	100.00	40.98	59.02	1.694		
8,409.56	8,402.13	8,407.39	8,404.13	29.61	29.63	90.00	-95.00	-50.00	100.00	40.91	59.09	1.692		
8,500.00	8,492.57	8,495.21	8,491.95	29.93	29.94	90.00	-95.00	-49.80	100.23	40.54	59.69	1.679 SI	=	
8,600.00	8,592.57	8,579.36	8,575.60	30.29	30.22	90.00	-95.00	-41.45	110.19	50.75	59.44	1.854		
8,700.00	8,692.57	8,659.42	8,653.25	30.64	30.49	90.00	-95.00	-22.22	134.30	76.16	58.13	2.310		
8,800.00	8,792.45	8,733.86	8,722.40	30.99	30.73	0.00	-95.00	5.21	168.23	112.22	56.01	3.004		
8,900.00	8,890.47	8,800.00	8,780.40	31.31	30.95	0.00	-95.00	36.92	199.11	146.87	52.24	3.811		
9,000.00	8,983.68	8,876.34	8,842.27	31.61	31.22	0.00	-95.00	81.53	224.94	175.26	49.68	4.528		
9,100.00	9,069.23	8,950.00	8,895.86	31.91	31.52	0.00	-95.00	132.01	245.82	199.44	46.38	5.300		
9,200.00	9,144.54	9,014.07	8,936.86	32.25	31.83	0.00	-95.00	181.19	261.25	219.94	41.30	6.325		
9,300.00	9,207.32	9,081.96	8,974.04	32.68	32.21	0.00	-95.00	237.95	271.22	234.52	36.69	7.391		
9,400.00	9,255.65	9,150.00	9,004.31	33.27	32.67	0.00	-95.00	298.84	275.57	243.41	32.15	8.570		
9,500.00	9,288.08	9,217.07	9,026.87	34.04	33.23	0.00	-95.00	361.96	274.25	246.43	27.82	9.857		
9,600.00	9,303.60	9,284.76	9,042.02	35.01	33.87	0.00	-95.00	427.90	267.29	242.84	24.45	10.934		
9,700.00	9,304.96	9,350.00	9,049.16	36.17	34.58	0.00	-95.00	492.71	257.96	235.41	22.55	11.439		
9,800.00	9,304.96	9,440.83	9,049.96	37.52	35.71	0.00	-95.00	583.53	257.00	234.08	22.92	11.215		



Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 204H
Project:	Eddy County, NM	TVD Reference:	Well @ 3270.50usft (GL: 3242' + KB: 28.5' (Patt809))
Reference Site:	Stebbins Federal 20 (114-124-134-204)	MD Reference:	Well @ 3270.50usft (GL: 3242' + KB: 28.5' (Patt809))
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	No. 204H	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 Aa	Offset TVD Reference:	Offset Datum
nore ener Boolgin			

Offset De Survey Prog	-	Stebbin wp - owsg	s Federal	20 (114-124	4-134-204	4) - No. 134	H - OH - Preli	m Plan A					Offset Site Error:	0.00 usf 1.10 usf
Survey Prog Refer		Offs	et	Semi Major	Axis				Dista	ance			Offset Well Error:	1.10 US
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usit)	Highside Toolfacø (")	Offset Wellbo +N/-S (usft)	re Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
9,823.05	9,304.96	9,463.88	9,049.96	37.87	36.02	0.00	-95.00	606.57	257.00	233.94	23.06	11.143		
9,900.00	9,304.96	9,540.83	9,049.96	39.05	37.12	0.00	-95.00	683.53	257.00	233.43	23.57	10.902		
10,000.00	9,304.96	9,640.83	9,049.96	40.74	38.71	0.00	-95.00	783.53	257.00	232.69	24.31	10.570		
10,100.00	9,304.96	9,740.83	9,049.96	42.57	40.45	0.00	-95.00	883.53	257.00	231.87	25.13	10.226		
10,200.00	9,304.96	9,840.83	9,049.96	44.52	42.34	0.00	-95.00	983.53	257.00	230.98	26.02	9.878		
10,300.00	9,304.96	9,940.83	9,049.96	46.58	44.34	0.00	-95.00	1,083.53	257.00	230.03	26.97	9.530		
10,400.00	9,304.97	10,040.83	9,049.96	48.74	46.44	0.00	-95.00	1,183.53	257.00	229.03	27.97	9.188		
10,500.00	9,304.97	10,140.83	9,049.97	50.97	48.64	0.00	-95.00	1,283.53	257.00	227.97	29.03	8.854		
10,600.00	9,304.97	10,240.83	9,049.97	53.28	50.91	0.00	-95.00	1,383.53	257.00	226.87	30.13	8.531		
10,700.00	9,304.97	10,340.83	9,049.97	55.66	53.25	0.00	-95.00	1,483.53	257.00	225.73	31.27	8.219		
10,800.00	9,304.97	10,440.83	9,049.97	58.08	55.66	0.00	-95.00	1,583.53	257.00	224.56	32.44	7.921		
10,900.00	9,304.97	10,540.83	9,049.97	60.56	58.11	0.00	-95.00	1,683.53	257.00	223.35	33.65	7.637		
11,000.00	9,304.97	10,640.83	9,049.97	63.08	60.62	0.00	-95.00	1,783.53	257.00	222.11	34.89	7.366		
11,100.00	9,304.97	10,740.83	9,049.97	65.64	63.16	0.00	-95.00	1,883.53	257.00	220.85	36.15	7.109		
11,200.00	9,304.97	10,840.83	9,049.97	68.23	65.74	0.00	-95.00	1,983.53	257.00	219.56	37.44	6.865		
11,300.00	9,304.97	10,940.83	9,049.97	70.85	68.35	0.00	-95.00	2,083.53	257.00	218.25	38.75	6.633		
11,400.00	9,304.97	11,040.83	9,049.97	73.50	70.99	0.00	-95.00	2,183.53	257.00	216.93	40.07	6.414		
11,500.00	9,304.98	11,140.83	9,049.97	76.17	73.66	0.00	-95.00	2,283.53	257.00	215.59	41.41	6.206		
11,600.00	9,304.98	11,240.83	9,049.98	78.86	76.35	0.00	-95.00	2,383.53	257.00	214.23	42.77	6.008		
11,700.00	9,304.98	11,340.83	9,049.98	81.58	79.05	0.00	-95.00	2,483.53	257.00	212.85	44.15	5.822		
11,800.00	9,304.98	11,440.83	9,049.98	84.31	81.78	0.00	-95.00	2,583.53	257.00	211.47	45.53	5.644		
11,900.00	9,304.98	11,540.83	9,049.98	87.05	84.53	0.00	-95.00	2,683.53	257.00	210.07	46.93	5.476		
12,000.00	9,304.98	11,640.83	9,049.98	89.81	87.28	0.00	-95.00	2,783.53	257.00	208.66	48.34	5.317		
12,100.00	9,304.98	11,740.83	9,049.98	92.59	90.06	0.00	-95.00	2,883.53	257.00	207.25	49.75	5.166		
12,200.00	9,304.98	11,840.83	9,049.98	95.37	92.84	0.00	-95.00	2,983.53	257.00	205.82	51.18	5.022		
12,300.00	9,304.98	11,940.83	9,049.98	98.17	95.64	0.00	-95.00	3,083.53	257.00	204.39	52.61	4.885		
12,400.00	9,304.98	12,040.83	9,049.98	100.98	98.44	0.00	-95.00	3,183.53	257.00	202.95	54.06	4.754		
12,500.00	9,304.98	12,140.83	9,049.98	103.79	101.26	0.00	-95.00	3,283.53	257.00	201.50	55.50	4.630		
12,600.00	9,304.99	12,240.83	9,049.99	106.62	104.08	0.00	-95.00	3,383.53	257.00	200.04	56.96	4.512		
12,700.00	9,304.99	12,340.83	9,049.99	109.45	106.92	0.00	-95.00	3,483.53	257.00	198.58	58.42	4.399		
12,800.00	9,304.99	12,440.83	9,049.99	112.29	109.76	0.00	-95.00	3,583.53	257.00	197.11	59.89	4.291		
12,900.00	9,304.99	12,540.83	9,049.99	115.14	112.60	0.00	-95.00	3,683.53	257.00	195.64	61.36	4.189		
13,000.00	9,304.99	12,640.83	9,049.99	117.99	115.46	0.00	-95.00	3,783.53	257.00	194.17	62.83	4.090		
13,100.00	9,304.99	12,740.83	9,049.99	120.85	118.32	0.00	-95.00	3,883.53	257.00	192.68	64.32	3.996		
13,200.00	9,304.99	12,840.83	9,049.99	123.71	121.18	0.00	-95.00	3,983.53	257.00	191.20	65.80	3.906		
13,300.00	9,304.99	12,940.83	9,049.99	126.58	124.05	0.00	-95.00	4,083.53	257.00	189.71	67.29	3.819		
13,400.00	9,304.99	13,040.83	9,049.99	129.45	126.92	0.00	-95.00	4,183.53	257.00	188.22	68.78	3.736		
13,500.00	9,304.99	13,140.83	9,049.99	132.33	129.80	0.00	-95.00	4,283.53	257.00	186.72	70.28	3.657		
13,600.00	9,305.00	13,240.83	9,050.00	135.21	132.69	0.00	-95.00	4,383.53	257.00	185.22	71.78	3.581		
13,700.00	9,305.00	13,340.83	9,050.00	138.10	135.57	0.00	-95.00	4,483.53	257.00	183.72	73.28	3.507		
13,800.00	9,305.00	13,440.83	9,050.00	140.99	138.46	0.00	-95.00	4,583.53	257.00	182.22	74.78	3.437		
13,900.00	9,305.00	13,540.83	9,050.00	143.88	141.36	0.00	-95.00	4,683.53	257.00	180.71	76.29	3.369		
14,000.00	9,305.00	13,640.83	9,050.00	146.78	144.25	0.00	-95.00	4,783.53	257.00	179.20	77.80	3.303		
14,100.00	9,305.00	13,740.83	9,050.00	149.68	147.15	0.00	-95.00	4,883.53	257.00	177.69	79.31	3.240		
14,124.72	9,305.00	13,765.55	9,050.00	150.39	147.87	0.00	-95.00	4,908.24	257.00	177.31	79.69	3.225		



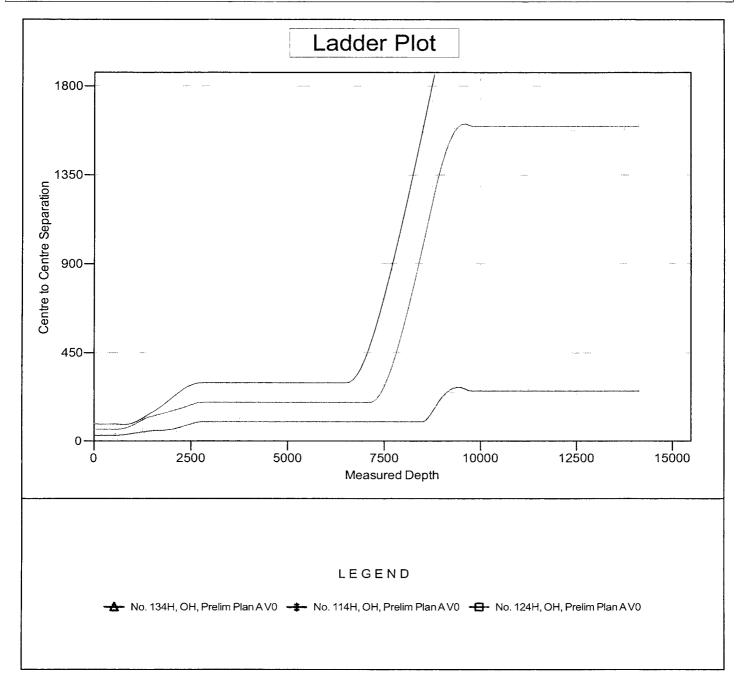
Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 204H
Project:	Eddy County, NM	TVD Reference:	Well @ 3270.50usft (GL: 3242' + KB: 28.5' (Patt809))
Reference Site:	Stebbins Federal 20 (114-124-134-204)	MD Reference:	Well @ 3270.50usft (GL: 3242' + KB: 28.5' (Patt809))
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	No. 204H	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 Aa	Offset TVD Reference:	Offset Datum

Reference Depths are relative to Well @ 3270.50usft (GL: 3242' + KB: Offset Depths are relative to Offset Datum Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: No. 204H Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30 Grid Convergence at Surface is: 0.12°



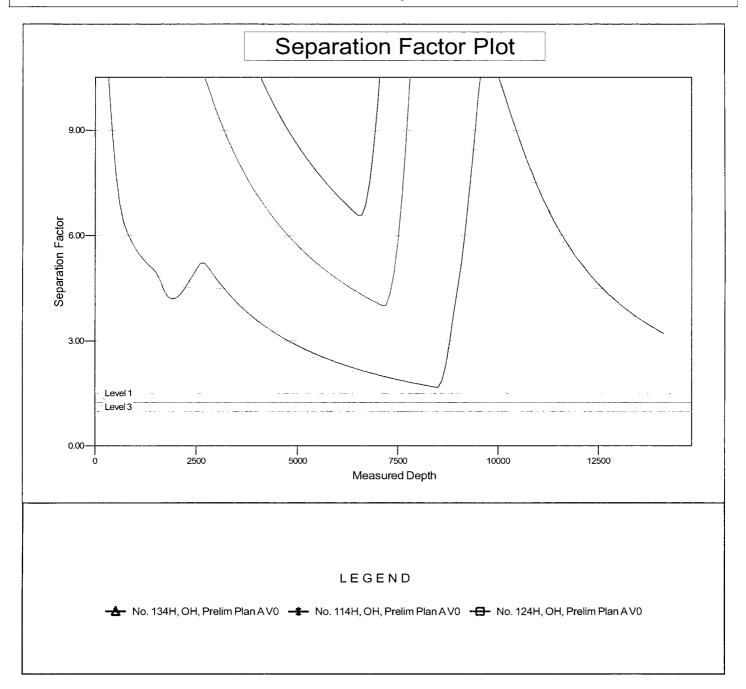


Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 204H
Project:	Eddy County, NM	TVD Reference:	Well @ 3270.50usft (GL: 3242' + KB: 28.5 (Patt809))
Reference Site:	Stebbins Federal 20 (114-124-134-204)	MD Reference:	Well @ 3270.50usft (GL: 3242' + KB: 28.5 (Patt809))
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	No. 204H	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 Aa	Offset TVD Reference:	Offset Datum

Reference Depths are relative to Well @ 3270.50usft (GL: 3242' + KB: Offset Depths are relative to Offset Datum Central Meridian is 104° 20' 0.000 W Coordinates are relative to: No. 204H Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30 Grid Convergence at Surface is: 0.12°





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
 - o 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 <u>Communication:</u>

- 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.

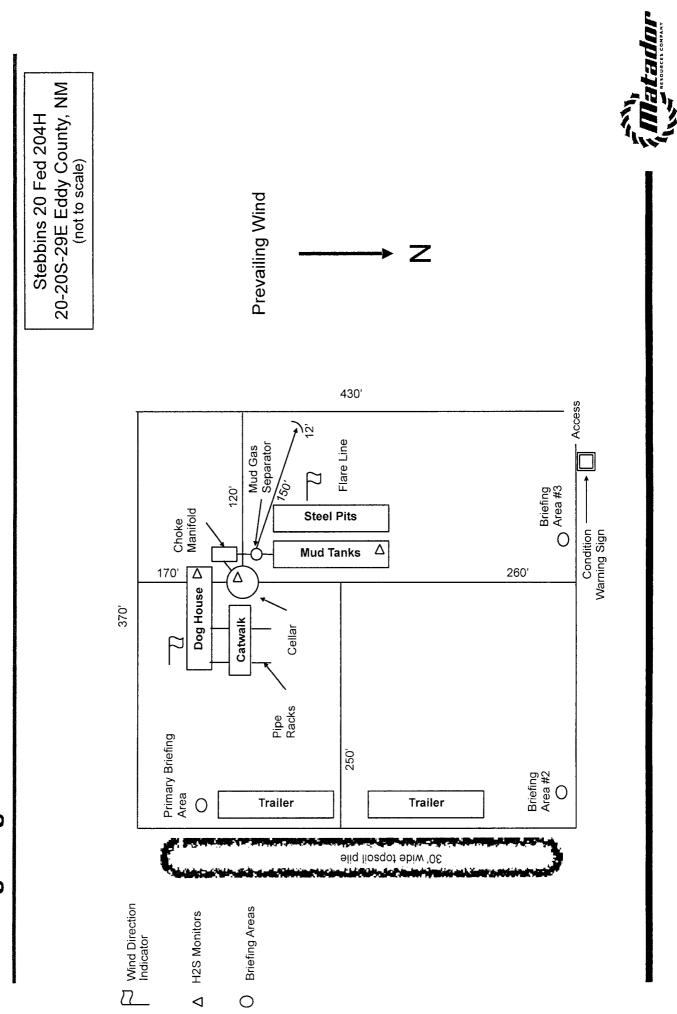
9 If H2S is encountered, mud system will be altered if necessary to maintain control of formation. A mud gas separator will be brought into service along with H2S scavengers if necessary.

11 Emergency Contacts

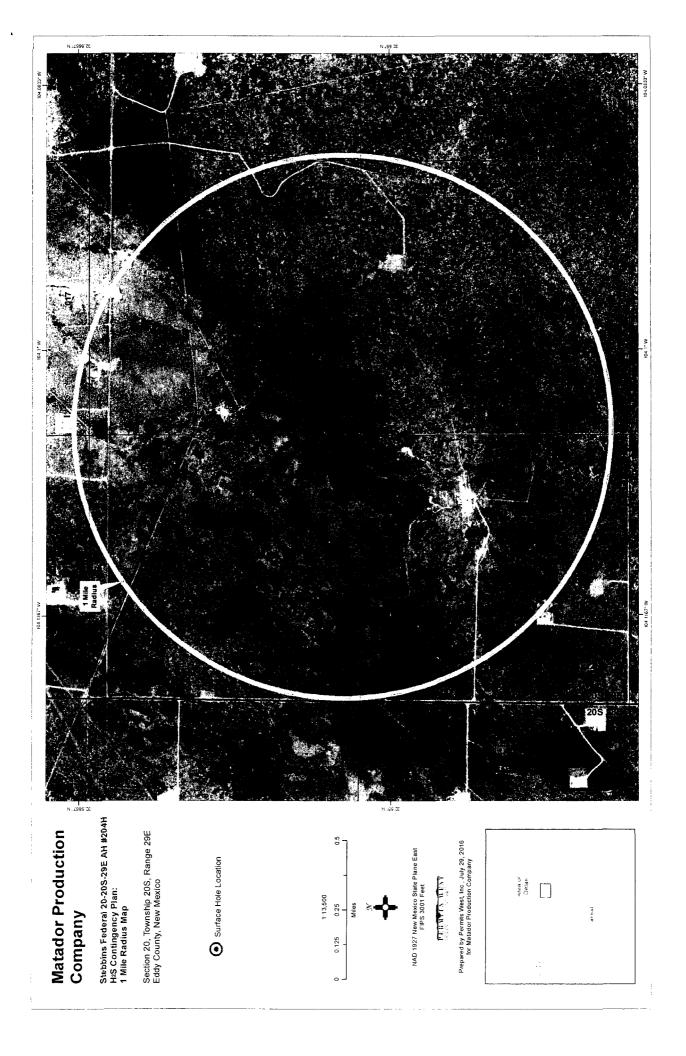
• See APD

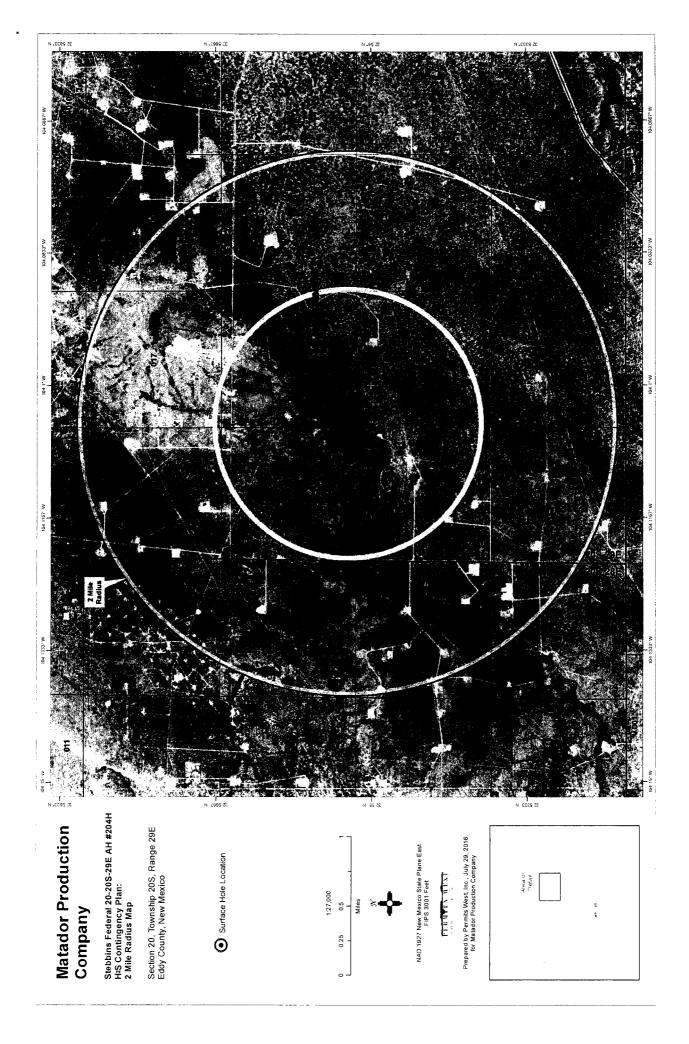
H2S Contingency Plan Emergency Contacts Matador Production Company Sec. 20, T2OS, R29E, Eddy County, NM

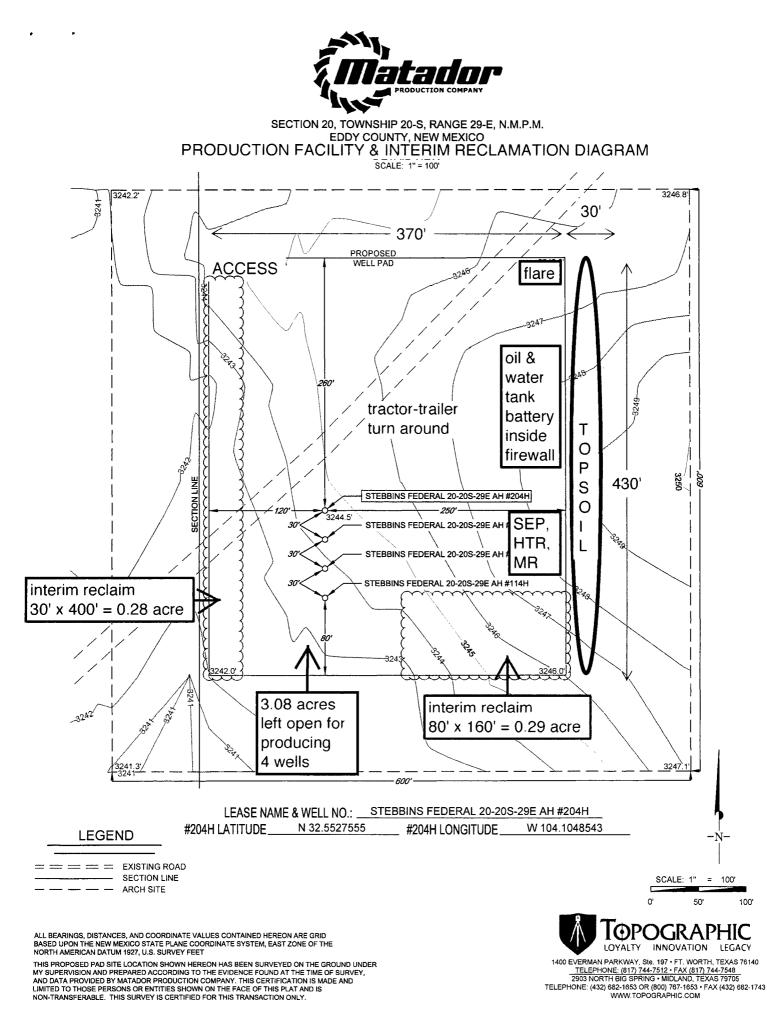
Company Office		·	
Matador Production Company	(972)-371-5200		
Key Personnel			
Name	Title	Office	Mobile
Billy Goodwin	Vice President Drilling	972-371-5210	817-522-2928
Gary Martin	Drilling Superintendent		601-669-1774
Dee Smith	Drilling Superintendent	972-371-5447	972-822-1010
Aaron Byrd	Drilling Engineer	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 Committee	tee	575-746-2122	
New Mexico Oil Conservation Divis	ion	575-748-1283	
<u>Carlsbad</u>			
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	Commission (Santa Fe)	505-476-9600	
New Mexico Emergency Response	Commission (Santa Fe) 24 hrs	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	ick, TX	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>Other</u>			
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	



H2S Rig Diagram







ORIGINAL DOCUMENT SIZE: 8.5" X 11"

Matador Production Company Stebbins 20 Fed 204H SHL 421' 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 204H SHL 421' 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 204H SHL 421' 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 204H SHL 421' 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 204H SHL 421' 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
	NMNM03677
WELL NAME & NO.:	204H-Stebbins 20 Fed
SURFACE HOLE FOOTAGE:	421'/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. Abnormal pressure might be encountered upon entering third Bone Spring and

Abnormal pressure might be encountered upon entering third Bone Spring and subsequent formations.

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 **7-5/8 X 7.0** inch 3rd intermediate casing is:

Cement should tie-back at least 50 feet above the Capitan Reef which is 1435 feet. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to Capitan Reef.

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

Cement as proposed. Operator shall provide method of verification. Excess calculated to -44%. Additional cement will be required.

6. 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**.
- 4. 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.

Option 1:

- i. 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.
- ii. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **7-5/8 X 7** inch third intermediate casing shoe shall be **5000 (5M)** psi.

5M system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.

Option 2:

- i. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the second intermediate casing. 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 **5000 (5M)** 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. <u>After the 9 5/8" casing has been landed and cemented, the</u> <u>operator will then lift up the BOP to install the 'D-section' of the</u> <u>wellhead. Therefore, per Onshore Oil and Has Order No. 2, the</u> <u>entire BOP/BOPE shall be tested prior to drilling out the second</u> <u>intermediate casing hole.</u>
 - f. 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.

5M system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.

- 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.
- g. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the **Wolfcamp** formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

D. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the **Wolfcamp** formation, and shall be used until production casing is run and cemented.

Proposed mud weight may not be adequate for drilling through Wolfcamp.

E. DRILL STEM TEST

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

F. 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 04112017

Matador Production CompanyDRILL PLAN PAGE 3Stebbins 20 Fed 204HSHL 421' 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

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.

4. CASING & CEMENT

All casing will be new. Minimum safety factors are burst = 1.125, collapse = 1.125, and tension = 1.8.

Hole O. D.	Set @ (MD)	Name	Casing O. D.	тос	Weight (lb/ft)	Grade	Thread Collar
26"	400'	Surface	20"	GL	94	K-55	BTC
17.5"	1200'	Intermediate 1	13.375"	GL	54.5	J-55	втс
12.25"	3100'	Intermediate 2	9.625"	GL	40	J-55	втс
8.75"	0'-3000'	Intermediate 3	7.625"	2100' 1435'	29.7	P-110	BTC
	3000-8639' 1425'		7.625″		29.7	P-110	Hydril 513
	8639'-9639'		7"		29	P-110	втс
6.125"	0'-8589'	Production	5.5″	8639'	20	P-110	Tenaris XP
	8589'-14136'		4.5″		13.5	P·110	Tenaris XP

SEE (DA

PECOS DISTRICT SURFACE USE CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Matador Production Company
LEASE NO.:	NMNM03677
WELL NAME & NO.:	204H-Stebbins 20 Fed
SURFACE HOLE FOOTAGE:	421'/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
Special Requirements
Cave/Karst
Range waterline
Construction
Notification
Topsoil
Closed Loop System
Federal Mineral Material Pits
Well Pads
Roads
Road Section Diagram
Roduction (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.

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

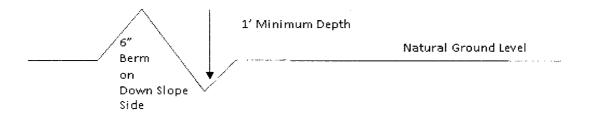
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

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: $\underline{400'} + 100' = 200'$ 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.

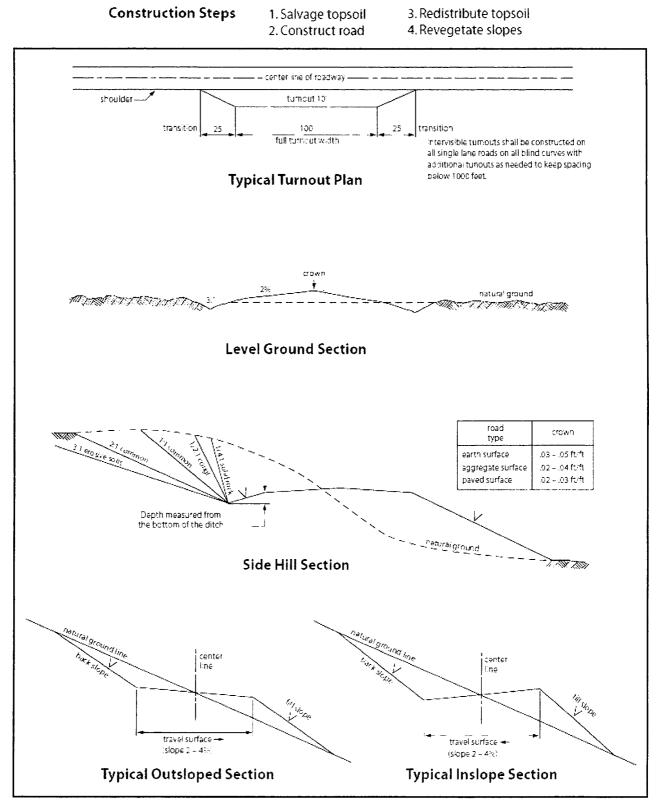


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

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 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, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C.6901, et seq.) 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 <u>20</u> 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 6 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