	ANAGEMEN		EIN	NMNM113418	
APPLICATION FOR PERMIT TO	O DRILL C	R REENTER		6. If Indian, Allotee	or Tribe Name
Type of work: Type of work: REEN	NTER			7. If Unit or CA Agre	ement, Name and No.
Type of Well: 🔽 Oil Well 🔲 Gas Well 🔲 Other		Single Zone 🔲 Multij	ple Zone	8. Lease Name and V CARL MOTTEK FE	Well No. (32/609) EDERAL 101H
Name of Operator MATADOR PRODUCTION COMPA	NY (228	(937)		9. API Well No. 30-025-	44917
Address 5400 LBJ Freeway, Suite 1500 Dallas TX 75	3b. Phone 1 (972)371	No. (include area code) -5200		10. Field and Pool, or RED HILLS / BONI	Exploratory 78939 E SPRING, NORTH
Location of Well (Report location clearly and in accordance with	any State require	ements.*)		11. Sec., T. R. M. or B	lk and Survey or Area
At surface NWNW / 326 FNL / 440 FWL / LAT 32.223 At proposed prod. zone. SWSW / 240 ESL / 330 EWL / L/	9334 / LONG AT 32 21098	6 -103.4990697 06 / LONG -103 499	3951	SEC 17 / T24S / R	34E / NMP
Distance in miles and direction from nearest town or post office* 9 miles				12. County or Parish LEA	13. State NM
Distance from proposed* location to nearest 326 feet property or lease line, ft. (Also to nearest drig, unit line, if any)	16. No. of 640	acres in lease	17. Spacir 160	ng Unit dedicated to this v	well
Distance from proposed location* to nearest well, drilling, completed, 3180 feet applied for, on this lease, ft.	19. Propos 9194 fee	ed Depth t / 13999 feet	20. BLM/ FED: N	BIA Bond No. on file MB001079	
Elevations (Show whether DF, KDB, RT, GL, etc.) 578 feet	22 Appro 05/01/20	ximate date work will sta D18 ⁵	rt*	23. Estimated duration 90 days	n
······································	24. Att	achments	·		
following, completed in accordance with the requirements of Ons	shore Oil and Ga	s Order No.1, must be a	ttached 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 Syste SUPO must be filed with the appropriate Forest Service Office).	em Lands, the	 Bond to cover t Item 20 above). Operator certifie Such other site BLM. 	he operation cation specific inf	ons unless covered by an ormation and/or plans as	existing bond on file (see may be required by the
Signature (Electronic Submission)	Nam Bria	e (Printed/Typed) in Wood / Ph: (505)4	66-8120		Date 02/26/2018
President	· · ·	,			
roved by (Signature) (Electronic Submission)	Nam Cod	e (Printed/Typed) y Layton / Ph: (575)2	234-5959		Date 06/13/2018
e pervisor Multiple Resources	Offic	æ RLSBAD			
lication approval does not warrant or certify that the applicant h duct operations thereon. Iditions of approval, if any, are attached.	olds legal or eq	uitable title to those righ	ts in the sul	bject lease which would e	ntitle the applicant to
18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a es any false, fictitious or fraudulent statements or representations	a crime for any as to any matter	person knowingly and w within its jurisdiction.	willfully to r	nake to any department o	or agency of the United

APPROVE Late: 06/13/2018

~ Double

INSTRUCTIONS

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

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

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

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

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

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

NOTICES

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

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

PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service well or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts. ROUTINE USE: Information from the record and/or the record will be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

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

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

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

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

(Continued on page 3)

(Form 3160-3, page 2)

Additional Operator Remarks

Location of Well

1. SHL: NWNW / 326 FNL / 440 FWL / TWSP: 24S / RANGE: 34E / SECTION: 17 / LAT: 32.2239334 / LONG: -103.4990697 (TVD: 0 feet, MD: 0 feet) PPP: NWNW / 326 FNL / 440 FWL / TWSP: 24S / RANGE: 34E / SECTION: 17 / LAT: 32.2239334 / LONG: -103.4990697 (TVD: 0 feet, MD: 0 feet) BHL: SWSW / 240 FSL / 330 FWL / TWSP: 24S / RANGE: 34E / SECTION: 17 / LAT: 32.2109806 / LONG: -103.4993951 (TVD: 9194 feet, MD: 13999 feet)

BLM Point of Contact

Name: Katrina Ponder Title: Geologist Phone: 5752345969 Email: kponder@blm.gov

(Form 3160-3, page 3)

Review and Appeal Rights

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



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



Operator Certification

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

NAME: Brian Wood

Title: President

Street Address: 37 Verano Loop

City: Santa Fe

Phone: (505)466-8120

Email address: afmss@permitswest.com

State: NM

State:

Field Representative

Representative Name:

Street Address:

City:

Phone:

Email address:

Signed on: 02/26/2018

Zip: 87508

Zip:

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

Submission Date: 02/26/2018

Zip: 75240

Well Name: CARL MOTTEK FEDERAL

Well Type: OIL WELL

APD ID: 10400027276

Well Number: 101H Well Work Type: Drill Hondoniel den Glees haimdet genalt shondet

06/18/2018

Application Data Report

Show Final Text

Section 1 - General		
APD ID: 10400027276	Tie to previous NOS?	Submission Date: 02/26/2018
BLM Office: CARLSBAD	User: Brian Wood	Title: President
Federal/Indian APD: FED	Is the first lease penetra	ited for production Federal or Indian? FED
Lease number: NMNM113418	Lease Acres: 640	
Surface access agreement in place?	Allotted?	Reservation:
Agreement in place? NO	Federal or Indian agree	nent:
Agreement number:		
Agreement name:		
Keep application confidential? NO		
Permitting Agent? YES	APD Operator: MATADO	OR PRODUCTION COMPANY
Operator letter of designation:		
Operator Info		
Operator Organization Name: MATADOF	R PRODUCTION COMPANY	

Operator Address: 5400 LBJ Freeway, Suite 1500

Operator PO Box:

Operator City: Dallas State: TX

Operator Phone: (972)371-5200

Operator Internet Address: amonroe@matadorresources.com

Section 2 - Well Information

Well in Master Development Plan? NO	Mater Development Plan na	me:
Well in Master SUPO? NO	Master SUPO name:	
Well in Master Drilling Plan? NO	Master Drilling Plan name:	
Well Name: CARL MOTTEK FEDERAL	Well Number: 101H	Well API Number:
Field/Pool or Exploratory? Field and Pool	Field Name: RED HILLS	Pool Name: BONE SPRING,

Is the proposed well in an area containing other mineral resources? USEABLE WATER, NATURAL GAS, CO2, OIL

Well Name: CARL MOTTEK FEDERAL

Well Number: 101H

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Dese	SUDE	ouner		a13.														
s th	e pro	posed	well	in a H	elium	n prod	luctic	on area?	N Use E	Existing W	/ell Pa	d? NO	Ne	ew :	surface	distur	banc	9?
Туре	e of W	ell Pa	d: MU	ILTIPL	.E WE	ELL		· ·	Multi	ple Well P	ad Na	me: CA	RL N	ıml	ber: 101	-1		
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Rese	ervoir	well s	spacir	ng ass	igned	t acre	es Me	asurem	ent: 160 A	cres								
Well	plat:	C	/_101	- H_Pla	- nt_201	80214	41002	254.pdf										
Well	work	start	Date:	- 05/01	- /2018			•	Durat	ti on: 90 D/	AYS							
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Well Name: CARL MOTTEK FEDERAL

Well Number: 101H

	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	DM	DVT
EXIT Leg #1	240	FSL	330	FWL	24S	34E	17	Aliquot SWS W	32.21098 06	- 103.4993 951	HIDA LGO	NEW MEXI CO	NEW MEXI CO	F	NMNM 113418	- 561 6	139 99	919 4
BHL Leg #1	240	FSL	330	FWL	24S	34E	17	Aliquot. SWS W	32.21098 06	- 103.4993 951	HIDA LGO	NEW MEXI CO	NEW MEXI CO	F	NMNM 113418	- 561 6	139 99	919 4

FMSS

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

Drilling Plan Data Report

06/18/2018

APD ID: 10400027276

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: CARL MOTTEK FEDERAL

Well Number: 101H

Submission Date: 02/26/2018



Show Final Text

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - Geologic Formations

Formation	······································		True Vertical	Measured		· · · · · · · · · · · · · · · · · · ·	Producing
. ID :	Formation Name	Elevation	Depth	Depth	Lithologies	Mineral Resources	Formation
1		3578	0	0	OTHER : Quaternary	USEABLE WATER	No
2	RUSTLER ANHYDRITE	2310	1268	1268	•	NONE	No
3	SALADO	1780	1798	1798	OTHER : Top Salt	NONE	No
4	SALADO	-1701	5279	5293	OTHER : Base Salt	NONE	. No
5	BELL CANYON	-1732	5310	5324	SANDSTONE	NATURAL GAS,CO2,OIL	No
6	BRUSHY CANYON	-3944	7522	7536	SANDSTONE	NATURAL GAS,CO2,OIL	No
7	BONE SPRING LIME	-5344	8922	8971		NATURAL GAS,CO2,OIL	No
8	AVALON SAND	-5572	9150	9376	,	NATURAL GAS,CO2,OIL	Yes

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M

Rating Depth: 12000

Equipment: A 12,000' 5000-psi BOP stack consisting of 3 rams with 2 pipe rams, 1 blind ram, and 1 annular preventer will be used below surface casing to TD. See attached BOP, choke manifold, co-flex hose, and speed head 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.

Requesting Variance? YES

Variance request: Matador is requesting a variance to use a speed head for setting the intermediate (9.625") casing. In the case of running a speed head with landing mandrel for 9.625" casing, a minimum 5000 psi BOPE system will be installed after surface casing is set. BOP test pressures will be 250 psi low and 5000 psi high. Annular will be tested to 250 psi low and 2500 psi high before drilling below the surface shoe. A diagram of the speed head is attached. Matador requests a variance to drill this well using a co-flex line between the BOP and choke manifold. Certification for proposed co-flex hose is attached. Manufacturer does not require the hose to be anchored. If the specific hose is not available, then one of equal or higher rating will be used.

Testing Procedure: 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. After setting surface casing, and before drilling below the surface casing shoe, a minimum 2000 psi BOPE will be installed. It will be tested to 250 psi low and 2000 psi high. Annular will be tested to 250 psi low and 1000 psi high. A minimum 5000 psi system will be

Well Name: CARL MOTTEK FEDERAL

Well Number: 101H

installed after setting intermediate casing. It will be tested to 250 psi low and 50000 psi high. Annular will be tested to 250 psi low and 2500 psi high.

Choke Diagram Attachment:

CM_101H_Choke_20180214101127.pdf

BOP Diagram Attachment:

CM_101H_BOP_20180214101151.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	Ń	0	1300	0	1300	3578		1300	J-55	54.5	OTHER - BTC	1.12 5	1.12 5	DRY	1.8	DRY	1.8 ⁻
2	INTERMED	12.2 5	9.625	NEW	API	N	0	5300	0	5286	3578		5300	J-55	40	OTHER - BTC	1.12 5	1.12 5	DRY	1.8	DRY	1.8
3	PRODUCTI ON	8.75	5.5	NEW	API	N	0	14000	0	9194	3578		14000	P- 110	20	OTHER - BTC/TXP	1.12 5	1.12 5	DRY	1.8	DRY	1.8

Casing Attachments

Casing ID: 1

String Type:SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

CM_101H_Casing_Design_Assumptions_20180214101334.pdf

Well Name: CARL MOTTEK FEDERAL

Well Number: 101H

Casing Attachments

Casing ID: 2 String Ty

String Type: INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

CM_101H_Casing_Design_Assumptions_20180214101919.pdf

Casing ID: 3

String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

CM_101H_Casing_Design_Assumptions_20180214101907.pdf

CM_101_5.5in_Casing_Spec_20180423141117.PDF

Section	4 - Co	emen	t								
String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	1300	740	1.82	12.8	1346	100	Class C	bentonite + 2% CaCl2 + 3% NaCl + LCM
SURFACE	Tail		. 0	1300	330	1.38	14.8	455	100	Class C	5% NaCl + LCM
INTERMEDIATE	Lead		0	5300	1110	2.09	12.6	2319	100	Class C	Bentonite + 1% CaCl2 + 8% NaCl + LCM
INTERMEDIATE	Tail		0	5300	510	1.38	14.8	703	100	Class C	5% NaCI + LCM

Well Name: CARL MOTTEK FEDERAL

Well Number: 101H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%		Cement type	Additives
PRODUCTION	Lead		0	1400 0	700	2.26	11.5	1582	35	тхі	-	Fluid Loss + Dispersant + Retarder + LCM
PRODUCTION	Tail		0	1400 0	1230	1.35	13.2	1660	35	ТХІ		Fluid Loss + Dispersant + Retarder + LCM

Section 5 - Circulating Medium

Circulating Medium Table

Mud System Type: Closed

Will an air or gas system be Used? NO

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

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

Describe what will be on location to control well or mitigate other conditions: All necessary mud products (barite, bentonite, LCM) for weight addition and fluid loss control will be on location at all times. Mud program is subject to change due to hole conditions.

Describe the mud monitoring system utilized: An electronic Pason mud monitoring system complying with Onshore Order 1 will be used.

Top Depth	Bottom Depth	Mud Type	Min Weight (Ibs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	Hd	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics	
0	1300	OTHER : Fresh water spud	8.3	8.3								·.
1300	5300	OTHER : Brine water	10	10								
5300	1400 0	OTHER : Fresh water & cut brine	9	9								

Well Name: CARL MOTTEK FEDERAL

Well Number: 101H

Section 6 - Test, Logging, Coring

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

A 2-person mud logging program will be used from 5300' to TD.

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

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

CBL,GR

Coring operation description for the well:

No core or drill stem test is planned.

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 5500

Anticipated Surface Pressure: 3477.32

Anticipated Bottom Hole Temperature(F): 150

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

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

CM_101H_H2S_Plan_20180214134846.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

CM_101H_Horizontal_Drill_Plan_20180214102902.PDF

Other proposed operations facets description:

Other proposed operations facets attachment:

CM_101H_General_Drill_Plan_20180214102909.pdf CM_101H_Speedhead_Specs_20180423141048.pdf

Other Variance attachment:









	Midwe	est Hose	· · .
	& Spec	ialty, Inc.	
1			
	ernal Hydrosta	tic Test Certificate	**
General Into	rmation	mose specific	ations
AWAIN Salas Banrasantativa	PATTERSON B&E	Hose Assembly Type	Choke & Kill
Note Assembled			API 7K
Location Accombled	12/8/2014		MUD
Salas Ordar #	0KL	Hose Working Pressure	10000
Sules Uluer # Customer Purchase Order #	250404	Hose Lot # and Date Code	10490-01/13
Assembly Seriel # (Disk Tisks #)	2004/1	Hose O.D. (Inches)	3"
Hose Assembly Length	28/918-2	HOSE U.D. (Inches)	5.30"
nose Assembly Length	10		
	Fitte	ings	
End A		End B	
Stem (Part and Revision #)	R3.0X64WB	Stem (Part and Revision #)	R3.0X64WB
Stem (Heat #)	91996	Stem (Heot #)	91996
Ferrule (Part and Revision #)	RF3.0	Ferrule (Part and Revision #)	RF3.0
Ferrule (Heat #)	37DA5631	Ferrule (Heat #)	37DA5631
Connection (Part #)	4 1/16 10K	Connection (Part #)	4 1/16 10K
Connection (Heat #)		Connection (Heat #)	
Dies Usea	5.3/	Dies Usea	5.3
-	Hydrostatic les	st kequirements	
Test Pressure (psi)	15,000	Hose assembly was tested w	vith ambient water
Test Pressure Hold Time (minute	rs) [15_1/2	temperatu	re
		. ,	
Date Tested	Tester	i Bv Ai	pproved Bv
12/8/2014			2 //1

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M &	idwest Hose Specialty, Inc.
Certifica	te of Conformity
Customer: PATTERSON B&E	Customer P.O.# 260471
Sales Order # 236404	Date Assembled: 12/8/2014
Spe	ecifications
Hose Assembly Type: Choke & Kill	
Assembly Serial # 287918-2	Hose Lot # and Date Code 10490-01/13
Hose Working Pressure (psi) 10000	Test Pressure (psi) 15000
We hereby certify that the above material suppli	ed for the referenced purchase order to be true according urrent industry standards
Supplier: Midwest Hose & Specialty, Inc. 3312 S I-35 Service Rd Oklahoma City, OK 73129	
Comments:	
Approved By	Date 12/9/2014

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MHSI-009 Rev.0.0 Proprietary		



	Midwe	stHose	
	& Spec	ialty, Inc.	
Inte	rnal Hydrosta	tic Test Certificate	
General Infor	mation	Hose Specifi	cations
Customer	PATTERSON B&E	Hose Assembly Type	Choke & Kill
MWH Sales Representative		Certification	API 7K
Date Assembled	12/8/2014	Hose Grade	MUD
Location Assembled	ОКС	Hose Working Pressure	10000
Sales Order #	236404	Hose Lot # and Date Code	10490-01/13
Customer Purchase Order #	260471	Hose I.D. (inches)	3"
Assembly Serial # (Pick Ticket #)	287918-1	Hose O.D. (Inches)	5.30"
Hose Assembly Length	20'	Armor (yes/no)	YES
	Fitt	ings	
End A		End B	
Stem (Part and Revision #)	R3.0X64WB	Stem (Part and Revision #)	R3.0X64WB
Stem (Heot #)	A141420	Stem (Heat #)	A141420
Ferrule (Part and Revision #)	RF3.0	Ferrule (Part and Revision #)	RF3.0
Ferrule (Heat #)	37DA5631	Ferrule (Heat #)	37DA5631
Connection (Part #)	4 1/16 10K	Connection (Part #)	4 1/16 10K
Connection (Heat #)	V3579	Connection (Heat #)	V3579
Dies Used	5.37	Dies Used	5.37
	Hydrostatic Tes	t Requirements	
Test Pressure (psi)	15,000	Hose assembly was tested	with ambient water
Test Pressure Hold Time (minutes,	15 1/2	temperatu	re.
Date Tested	Tested	I By A	pproved By
12/9/2014	14/14		< /i) //

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	Mi &S	dwest Hose pecialty, Inc.	
	Certificat	e of Conformity	
Customer: PATTERSON B	&E	Customer P.O.# 260471	· · · ·
Sales Order # 236404		Date Assembled: 12/8/2014	
	Spe	cifications	
Hose Assembly Type:	Choke & Kill	· · · · · · · · · · · · · · · · · · ·	
Assembly Serial #	287918-1	Hose Lot # and Date Code	10490-01/13
Hose Working Pressure (psi)	10000	Test Pressure (psi)	15000
We hereby certify that the above to the requirements of the purch Supplier: Midwest Hose & Specialty, Inc. 3312 S I-35 Service Rd	e material supplie ase order and cu	ed for the referenced purchase order rrent industry standards.	to be true according
Oklahoma City, OK 73129		· · · · · · · · · · · · · · · · · · ·	
Comments:			,
Comments:			

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			4			
			Midv & Spe	vest Hose ecialty, Inc.		
			· · ·			
			Certificate	of Contormity		
	Customer:	PATTERSON E	3&E	Customer P.O.# 2	60471	
	Sales Order #	236404		Date Assembled: 1	2/8/2014	
			Spec	fications		
	Hose Asser	nbly Type:	Choke & Kill			
$\left \right $	Assembly	v Serial #	287918-3	Hose Lot # and [Date Code	10490-01/13
	Hose Working	Pressure (psi)	10000	Test Pressure	 e (psi)	15000
┝	1	<u></u>	<u></u>			
	·					
	· · ·					
	-					
И	Ve herebv certif	v that the abov	e material supplied	for the referenced pure	chase order	to be true accordina
to	o the requireme	nts of the purc	hase order and curre	ent industry standards.		.
S	upplier:					
	lidwest Hose & 212 S I-35 Servi	Specialty, Inc.				
0)klahoma Citv. (CE NU DK 73129				
C	omments:		· · · · · · · · · · · · · · · · · · ·	······································	<u> </u>	
L	· · · ·	Approved L	3y		Date	
		17	A. a		12/9/201	L4

Casing Design Criteria and Load Case Assumptions

Surface Casing

Collapse: DF_c=1.125

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

Burst: DF_b=1.125

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

Tensile: DF_t=1.8

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

Intermediate #1 Casing

Collapse: DF_c=1.125

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

Burst: DF_b=1.125

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

Tensile: DFt=1.8

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

Production Casing

Collapse: DF_c=1.125

- Full Internal Evacuation: Collapse force equal to the mud gradient in which the casing will be run (0.47 psi/ft). The effects of axial load on collapse will be considered.
- Cementing: Collapse force equal to the gradient of planned cement slurries to planned depths and mud
 gradient in which the casing will be run above that (0.47 psi/ft) and an internal force equal to mud gradient
 of displacement fluid (0.43 psi/ft).

Burst: DF_b=1.125

- Pressure Test: 8000 psi casing test with an external force equal to the mud gradient in which the casing will be run (0.47 psi/ft), which is a more conservative backup force than pore pressure.
- Injection Down Casing: 9500 psi surface injection pressure plus an internal pressure gradient of 0.65 psi/ft with an external force equal to the mud gradient in which the casing will be run (0.47 psi/ft), which is a more conservative backup force than pore pressure.

Tensile: DF_t=1.8

• Overpull: A downward force of 100,000 lbs is applied at the shoe along with the weight of the casing string utilizing the effects of buoyancy (9.0 ppg).

Casing Design Criteria and Load Case Assumptions

Surface Casing

Collapse: DF_c=1.125

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

Burst: DF_b=1.125

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

Tensile: DF_t=1.8

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

Intermediate #1 Casing

Collapse: DF_c=1.125

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

Burst: DF_b=1.125

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

Tensile: DF_t=1.8

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

Production Casing

Collapse: DF_c=1.125

- Full Internal Evacuation: Collapse force equal to the mud gradient in which the casing will be run (0.47 psi/ft). The effects of axial load on collapse will be considered.
- Cementing: Collapse force equal to the gradient of planned cement slurries to planned depths and mud
 gradient in which the casing will be run above that (0.47 psi/ft) and an internal force equal to mud gradient
 of displacement fluid (0.43 psi/ft).

Burst: DF_b=1.125

- Pressure Test: 8000 psi casing test with an external force equal to the mud gradient in which the casing will be run (0.47 psi/ft), which is a more conservative backup force than pore pressure.
- Injection Down Casing: 9500 psi surface injection pressure plus an internal pressure gradient of 0.65 psi/ft with an external force equal to the mud gradient in which the casing will be run (0.47 psi/ft), which is a more conservative backup force than pore pressure.

Tensile: DF_t=1.8

• Overpull: A downward force of 100,000 lbs is applied at the shoe along with the weight of the casing string utilizing the effects of buoyancy (9.0 ppg).

Casing Design Criteria and Load Case Assumptions

Surface Casing

Collapse: DF_c=1.125

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

Burst: DF_b=1.125

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

Tensile: DF_t=1.8

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

Intermediate #1 Casing

Collapse: DF_c=1.125

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

Burst: DF_b=1.125

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

Tensile: DF_t=1.8

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

Production Casing

Collapse: DF_c=1.125

- Full Internal Evacuation: Collapse force equal to the mud gradient in which the casing will be run (0.47 psi/ft). The effects of axial load on collapse will be considered.
- Cementing: Collapse force equal to the gradient of planned cement slurries to planned depths and mud
 gradient in which the casing will be run above that (0.47 psi/ft) and an internal force equal to mud gradient
 of displacement fluid (0.43 psi/ft).

Burst: DF_b=1.125

- Pressure Test: 8000 psi casing test with an external force equal to the mud gradient in which the casing will be run (0.47 psi/ft), which is a more conservative backup force than pore pressure.
- Injection Down Casing: 9500 psi surface injection pressure plus an internal pressure gradient of 0.65 psi/ft with an external force equal to the mud gradient in which the casing will be run (0.47 psi/ft), which is a more conservative backup force than pore pressure.

Tensile: DF_t=1.8

• Overpull: A downward force of 100,000 lbs is applied at the shoe along with the weight of the casing string utilizing the effects of buoyancy (9.0 ppg).

For the latest performance data, always visit our website: www.tenaris.com

July 15 2015



Connection: TenarisXP[™] BTC Casing/Tubing: CAS Coupling Option: REGULAR

Size: 5.500 in. Wall: 0.361 in. Weight: 20.00 lbs/ft Grade: P110-IC Min. Wall Thickness: 87.5 %

Nominal OD Nominal ID	5.500 in. 4.778 in. 19.83 lbs/ft	GEOMET Nominal Weight Wall Thickness	RY 20.00 lbs/ft 0.361 in.	Standard Drift Diameter Special Drift	4.653 in.
Nominal OD Nominal ID	5.500 in. 4.778 in. 19.83 lbs/ft	Nominal Weight Wall Thickness	20.00 lbs/ft 0.361 in.	Standard Drift Diameter Special Drift	4.653 in.
Nominal ID	4.778 in. 19.83 lbs/ft	Wall Thickness	0.361 in.	Special Drift	
	19.83 lbs/ft			Diameter	N/A
Plain End Weight			:		
		PERFORM	ANCE	· · · · · · · · · · · · · · · · · · ·	
Body Yield Strength	641 x 1000 lbs	Internal Yield	12630 psi	SMYS	110000 psi
Collapse	12100 psi				
	TEA				
<u>.</u>		ARISZP BIC CO	NNECTION D		
		GEOMEI	RY	1	
Connection OD	6.100 in.	Coupling Length	9.450 in.	Connection ID	4.766 in.
Critical Section	5.828:sq. in.	Threads per in.	5.00	Make-Up Loss	4.204 in.
<u> </u>	<u></u>	PERFORM	ANCE	·	·····
Tension Efficiency	100 %	Joint Yield Strength	641 x 1000 lbs	Internal Pressure Capacity ⁽¹⁾	12630 psi
Structural Compression Efficiency	100 %	Structural Compression Strength	641 x 1000 lbs	Structural Bending ⁽²⁾	92 °/100 ft
External Pressure Capacity	12100 psi		•		
	E	STIMATED MAKE-U	JP TORQUES	3)	
Minimum	11270 ft-lbs	Optimum	12520 ft-lbs	Maximum	13770 ft-lb
		OPERATIONAL LIN	AIT TORQUES	5	
Operating Torque	21500 ft-lbs	Yield Torque	23900 ft-lbs		

http://premiumconnectiondata.tenaris.com/tsh_print.php?hWall=0.361&hSize=5.500&hGr... 7/15/2015

Matador Production Company Carl Mottek Federal 101H SHL 326' FNL & 440' FWL BHL 240' FSL & 330' FWL Sec. 17, T. 24 S., R. 34 E., Lea County, NM

A third party company will test the BOPs.

After setting surface casing, and before drilling below the surface casing shoe, a minimum 2000 psi BOPE will be installed. It will be tested to 250 psi low and 2000 psi high. Annular will be tested to 250 psi low and 1000 psi high.

A minimum 5000 psi system will be installed after setting intermediate casing. It will be tested to 250 psi low and 50000 psi high. Annular will be tested to 250 psi low and 2500 psi high.

Matador is requesting a variance to use a speed head for setting the intermediate (9.625") casing. In the case of running a speed head with landing mandrel for 9.625" casing, a minimum 5000 psi BOPE system will be installed after surface casing is set. BOP test pressures will be 250 psi low and 5000 psi high. Annular will be tested to 250 psi low and 2500 psi high before drilling below the surface shoe. A diagram of the speed head is attached.

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

4. CASING & CEMENT

All casing will be API and new. See attached casing assumption worksheet.

Hole O. D.	Set MD	Set TVD	Casing O. D.	Weight (lb/ft)	Grade	Joint	Collapse	Burst	Tension
17.5"	0′ - 1300'	0′ - 1300'	Surface 13.375"	54.5	J-55	BTC	1.125	1.125	1.8
12.25"	0′ - 5300'	0′ - 5286'	Inter. 9.625"	40	J-55	BTC	1.125	1.125	1.8
8.75"	0′ - 14000'	0′ – 9194′	Product. 5.5"	20	P-110	BTC/TXP	1.125	1.125	1.8

DRILL PLAN PAGE 3

Matador Production Company Carl Mottek Federal 101H SHL 326' FNL & 440' FWL BHL 240' FSL & 330' FWL Sec. 17, T. 24 S., R. 34 E., Lea County, NM

Casing Name	Туре	Sacks	Yield	Cu. Ft.	Weight	Blend			
Surface	Lead	740	1.82	1346	12.8	Class C + bentonite + 2% CaCl ₂ + 3% NaCl + LCM			
	Tail	330	1.38	455	14.8	Class C + 5% NaCl + LCM			
TOC = GL	•	1	00% Exce	55	Cer	ntralizers per Onshore Order 2			
Intermediate	Lead	1110	2.09	2319	12.6	Class C + Bentonite + 1% CaCl ₂ + 8% NaCl + LCM			
	Tail	510	1.38	703	14.8	Class C + 5% NaCl + LCM			
TOC = GL		100% Excess			2 on btm jt, 1 on 2nd jt, 1 every 4th jt to G				
Production	Lead	700	2.26	1582	11.5	TXI + Fluid Loss + Dispersant + Retarder + LCM			
	Tail	1230	1.35	1660	13.2	TXI + Fluid Loss + Dispersant + Retarder + LCM			
TOC = 4300'		35% Excess			2 on btm jt, 1 on 2nd jt, 1 every other jt to top of tail cement (1000' above TOC)				

5. MUD PROGRAM

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

Туре	Interval (MD)	lb/gal	Viscosity	Fluid Loss
fresh water spud	0' - 1300'	8.3	28	NC
brine water	1300' - 5300'	10.0	30-32	NC
fresh water & cut brine	5300' - 14000'	9.0	30-32	NC

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

DRILL PLAN PAGE 4

Matador Production Company Carl Mottek Federal 101H SHL 326' FNL & 440' FWL BHL 240' FSL & 330' FWL Sec. 17, T. 24 S., R. 34 E., Lea County, NM

No core or drill stem test is planned.

A 2-person mud logging program will be used from ≈5300' to TD.

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

7. DOWN HOLE CONDITIONS

No abnormal pressure or temperature is expected. Maximum expected bottom hole pressure is ≈5500 psi. Expected bottom hole temperature is ≈150° 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 drilling and completing 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.

8. OTHER INFORMATION

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



For the latest performance data, always visit our website: www.tenaris.com

July 15 2015



Connection: TenarisXP[™] BTC **Casing/Tubing**: CAS **Coupling Option**: REGULAR Size: 5.500 in. Wall: 0.361 in. Weight: 20.00 lbs/ft Grade: P110-IC Min. Wall Thickness: 87.5 %

		PIPE BODY	DATA		
		GEÓMET	RY		
Nominal OD	5.500 in.	Nominal Weight	20.00 lbs/ft	Standard Drift Diameter	4.653 in.
Nominal ID	4.778 in.	Wall Thickness	0.361 in.	Special Drift Diameter	N/A
Plain End Weight	19.83 lbs/ft				
		PERFORM	ANCE		
Body Yield Strength	641 x 1000 lbs	Internal Yield	12630 psi	SMYS	110000 psi
Collapse	12100 psi				
	TEI	NARISXP™ BTC CO	NNECTION D	ATA	
		GEOMET	rry		
Connection OD	6.100 in.	Coupling Length	9.450 in.	Connection ID	4.7.66 in.
Critical Section Area	5.828 sq. in.	Threads per in.	5.00	Make-Up Loss	4.204 in.
		PERFORM	ANCE	· · · · ·	
Tension Efficiency	100 %	Joint Yield Strength	641 x 1000 lbs	Internal Pressure Capacity ⁽¹⁾	12630 psi
Structural Compression Efficiency	100 %	Structural Compression Strength	641 x 1000 Ibs	Structural Bending ^(<u>2</u>)	92 °/100 ft
External Pressure Capacity	12100 psi				
	E	STIMATED MAKE-	UP TORQUES	(3)	
Minimum	11270 ft-ibs	Optimum	12520 ft-lbs	Maximum	13770 ft-lb
	·	OPERATIONAL LI	MIT TORQUES	5	
Operating Torque	21500 ft-lbs	Yield Torque	23900 ft-lbs		

http://premiumconnectiondata.tenaris.com/tsh_print.php?hWall=0.361&hSize=5.500&hGr... 7/15/2015

BLANKING DIMENSIONS

Blanking Dimensions

(1) Internal Pressure Capacity related to structural resistance only. Internal pressure leak resistance as per section 10.3 API 5C3 / ISO 10400 - 2007.

(2) Structural rating, pure bending to yield (i.e no other loads applied)

(3) Torque values calculated for API Modified thread compounds with Friction Factor=1. For other thread compounds please contact us at <u>licensees@oilfield.tenaris.com</u>. Torque values may be further reviewed. For additional information, please contact us at <u>contact-tenarishydril@tenaris.com</u>

FAFMSS

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

SUPO Data Report

14 A. C. 19 A. A.

Row(s) Exist? NO

APD ID: 10400027276

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: CARL MOTTEK FEDERAL

Well Type: OIL WELL

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

CM_101H_Road_Map_20180214132614.pdf

Existing Road Purpose: ACCESS

ROW ID(s)

ID:

Do the existing roads need to be improved? NO

Existing Road Improvement Description:

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

CM_101H_New_Road_Map_20180214132636.pdf

New road type: RESOURCE

Length: 579.49

Max slope (%): 0

Width (ft.): 30 Max grade (%): 1

Army Corp of Engineers (ACOE) permit required? NO

Feet

ACOE Permit Number(s):

New road travel width: 14

New road access erosion control: Crowned and ditched

New road access plan or profile prepared? NO

New road access plan attachment:

Access road engineering design? NO

Access road engineering design attachment:

Holighiad data Mors (NG Mass Coming Mangas Show Final Text

Well Work Type: Drill

Well Number: 101H

Submission Date: 02/26/2018

Well Name: CARL MOTTEK FEDERAL

Well	Number:	101H
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Access surfacing type: OTHER

Access topsoil source: ONSITE

Access surfacing type description: Caliche

Access onsite topsoil source depth: 6

Offsite topsoil source description:

Onsite topsoil removal process: Grader

Access other construction information:

Access miscellaneous information: COG's anchors will be marked.

Number of access turnouts:

Access turnout map:

Drainage Control

New road drainage crossing: OTHER

Drainage Control comments: Crowned and ditched

Road Drainage Control Structures (DCS) description: None

Road Drainage Control Structures (DCS) attachment:

Access Additional Attachments

Additional Attachment(s):

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

CM_101H_Well_Map_20180214103208.pdf

Existing Wells description:

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

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description: Pipeline and power line plans have not been finalized. Production equipment will be on the north side of the pad. **Production Facilities map:**

CM 101H Production Facilities 20180214103232.pdf

Section 5 - Location and Types of Water Supply

Water Source Table

Well Name: CARL MOTTEK FEDERAL

Water source use type: DUST CONTROL, INTERMEDIATE/PRODUCTION CASING, STIMULATION, SURFACE CASING Describe type:

Source latitude:

Source datum:

Water source permit type: WATER WELL

Source land ownership: PRIVATE

Water source transport method: TRUCKING

Source transportation land ownership: PRIVATE

Water source volume (barrels): 15000

Source volume (gal): 630000

Water source and transportation map:

CM_101H_Water_Source_Map_20180214103423.pdf

Water source comments:

New water well? NO

New Water Well Info

Well latitude:	Well Longitude:	Well
Well target aquifer:		
Est. depth to top of aquifer(ft):	Est thickness of aquife	r:
Aquifer comments:		
Aquifer documentation:		
Well depth (ft):	Well casing type:	
Well casing outside diameter (in.):	Well casing inside diamet	er (in.):
New water well casing?	Used casing source:	
Drilling method:	Drill material:	
Grout material:	Grout depth:	
Casing length (ft.):	Casing top depth (ft.):	
Well Production type:	Completion Method:	
Water well additional information:		·
State appropriation permit:		•
Additional information attachment:		

Well Number: 101H

Water source type: GW WELL

Source longitude:

Source volume (acre-feet): 1.9333965

Well datum:

Well Name: CARL MOTTEK FEDERAL

Well Number: 101H

Section 6 - Construction Materials

Construction Materials description: COG and NM One Call (811) will be notified before construction starts. Top 6" of soil and brush will be stockpiled south of the pad. Pipe racks will face north. Closed loop drilling system will be used. Caliche will be hauled from an existing caliche pit on private (Madera) land in SENW 6-25s-35e. **Construction Materials source location attachment:**

CM_101H_Construction_Methods_20180214103709.pdf

Section 7 - Methods for Handling Waste

Waste type: DRILLING

Waste content description: Cuttings, mud, salts, and other chemicals

Amount of waste: 2000 barrels

Waste disposal frequency : Daily

Safe containment description: Steel tanks

Safe containmant attachment:

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

Disposal type description:

Disposal location description: R360's state approved (NM-01-0006) disposal site at Halfway, NM

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit?

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

Reserve pit depth (ft.)

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

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? YES

Description of cuttings location Steel tanks on pad

Cuttings area length (ft.)

Cuttings area depth (ft.)

Cuttings area width (ft.)

Reserve pit volume (cu. yd.)

Cuttings area volume (cu. yd.)

Operator Name: MATADOR PRODUCTION COMPANY **Well Name:** CARL MOTTEK FEDERAL

Well Number: 101H

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

WCuttings area liner

Cuttings area liner specifications and installation description

Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: NO Ancillary Facilities attachment:

Comments:

Section 9 - Well Site Layout

Well Site Layout Diagram:

CM_101H_Well_Site_Layout_20180214103843.pdf

Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: CARL MOTTEK

Multiple Well Pad Number: 101H

Recontouring attachment:

CM_101H_Interim_Reclamation_Diagram_20180214103855.pdf

CM_101H_Recontour_Plat_20180214143159.pdf

Drainage/Erosion control construction: Crowned and ditched

Drainage/Erosion control reclamation: Harrowed on the contour

Well pad proposed disturbance (acres): 3.65	Well pad interim reclamation (acres): 0.85	Well pad long term disturbance (acres): 2.8
Road proposed disturbance (acres): 0.4	Road interim reclamation (acres): 0	Road long term disturbance (acres): 0.4
Powerline proposed disturbance (acres): 0	Powerline interim reclamation (acres):	Powerline long term disturbance (acres): 0
Pipeline proposed disturbance	Pipeline interim reclamation (acres): 0	Pipeline long term disturbance
(acres): 0	Other interim reclamation (acres): 0	(acres): 0
Other proposed disturbance (acres): 0	Total interim reclamation: 0.85	Other long term disturbance (acres): 0
Total proposed disturbance: 4.05		Total long term disturbance: 3.2

Disturbance Comments:

Reconstruction method: Interim reclamation will be completed within 6 months of completing the well. Interim reclamation will consist of shrinking the pad 23% (0.85 acre) by removing caliche and reclaiming a 100' wide swath on the east side. This will leave 2.80 acres for producing 5 wells and tractor-trailer turn around. Disturbed areas will be contoured to match pre-

Page 5 of 10

Well Name: CARL MOTTEK FEDERAL

Well Number: 101H

construction grades. Soil and brush will be evenly spread over disturbed areas and harrowed on the contour. Disturbed areas will be seeded in accordance with the land owner's requirements.

Topsoil redistribution: Enough stockpiled topsoil will be retained to cover the remainder of the pad when the well is plugged. Once the last well is plugged, then the rest of the pad and 600.8' of new road will be similarly reclaimed within 6 months of plugging. Noxious weeds will be controlled. **Soil treatment:** None

Existing Vegetation at the well pad:

Existing Vegetation at the well pad attachment:

Existing Vegetation Community at the road:

Existing Vegetation Community at the road attachment:

Existing Vegetation Community at the pipeline:

Existing Vegetation Community at the pipeline attachment:

Existing Vegetation Community at other disturbances:

Existing Vegetation Community at other disturbances attachment:

Non native seed used? NO

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? NO

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation? NO

Seed harvest description:

Seed harvest description attachment:

Seed Management

Seed Table

Seed type:

Seed name:

Source name:

Source phone:

Seed cultivar:

Seed source:

Source address:

Well Name: CARL MOTTEK FEDERAL

Well Number: 101H

Seed use location:

PLS pounds per acre:

Proposed seeding season:

Total pounds/Acre:

Seed Summary		
Seed Type	Pounds/Acre	

Seed reclamation attachment:

Operator Contact/Responsible Official Contact Info

First Name:

Last Name:

Email:

Phone:

Seedbed prep:

Seed BMP:

Seed method:

Existing invasive species? NO

Existing invasive species treatment description:

Existing invasive species treatment attachment:

Weed treatment plan description: To BLM standards

Weed treatment plan attachment:

Monitoring plan description: To BLM standards

Monitoring plan attachment:

Success standards: To BLM satisfaction

Pit closure description: No pit

Pit closure attachment:

Section 11 - Surface Ownership

Disturbance type: WELL PAD
Describe:
Surface Owner: PRIVATE OWNERSHIP
Other surface owner description:
BIA Local Office:
BOR Local Office:
COE Local Office:
DOD Local Office:

Operator Name: MATADOR PRODUCTION COMPANY Well Name: CARL MOTTEK FEDERAL

Well Number: 101H

NPS Local Office:	
State Local Office:	
Military Local Office:	
USFWS Local Office:	
Other Local Office:	
USFS Region:	
USFS Forest/Grassland:	USFS Ranger District:

Disturbance type: NEW ACCESS ROAD Describe: Surface Owner: PRIVATE OWNERSHIP Other surface owner description: BIA Local Office: BOR Local Office: COE Local Office: DOD Local Office: NPS Local Office: State Local Office: USFWS Local Office: USFWS Local Office: USFS Region: USFS Forest/Grassland:

USFS Ranger District:

Disturbance type: EXISTING ACCESS ROAD Describe: Surface Owner: PRIVATE OWNERSHIP Other surface owner description: BIA Local Office:

Well Name: CARL MOTTEK FEDERAL

BOR Local Office: COE Local Office: DOD Local Office: NPS Local Office: State Local Office: Military Local Office: USFWS Local Office: Other Local Office: USFS Region: USFS Forest/Grassland: Well Number: 101H

USFS Ranger District:

Section 12 - Other Information

Right of Way needed? NO ROW Type(s): Use APD as ROW?

ROW Applications

SUPO Additional Information:

Use a previously conducted onsite? YES

Previous Onsite information: On-site inspection held with Vance Wolf.

Other SUPO Attachment

CM_101H_General_SUPO_20180214141004.pdf

Matador Production Company Carl Mottek Federal 101H SHL 326' FNL & 440' FWL BHL 240' FSL & 330' FWL Sec. 17, T. 24 S., R. 34 E., Lea County, NM

Surface Use Plan

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

From the junction NM 18 & NM 128 in Jal, NM... Go NW 19 miles on paved NM 128 the equivalent of Mile Post 31.9 Then turn right and go N 1.0 mile on paved County Road 21, aka Delaware Basin Then turn right and go E 0.55 mile on a caliche road to far side of COG's 4H pad (Beware of anchors on COG's Sebastian Fed Com 4H) Then continue E cross-country 579.49' to the proposed Carl Mottek Federal pad

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

2. <u>ROAD TO BE BUILT OR UPGRADED</u> (See MAPS 4 & 5)

The 579.49' of new resource road 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 = 1'. No culvert, cattle guard, or vehicle turn out is needed. COG's anchors will be marked. No upgrade is needed.

3. EXISTING WELLS (See MAP 6)

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

4. PROPOSED PRODUCTION FACILITIES (See MAP 7)

Pipeline and power line plans have not been finalized. Production equipment will be on the north side of the pad.

Matador Production Company Carl Mottek Federal 101H SHL 326' FNL & 440' FWL BHL 240' FSL & 330' FWL Sec. 17, T. 24 S., R. 34 E., Lea County, NM

5. WATER SUPPLY (See MAP 8)

Water will be trucked via existing roads from the existing Madera water station on private land in NWNE 21-24s-34e.

6. <u>CONSTRUCTION MATERIALS & METHODS</u> (See MAPS 9 & 10)

COG and NM One Call (811) will be notified before construction starts. Top \approx 6" of soil and brush will be stockpiled south of the pad. Pipe racks will face north. Closed loop drilling system will be used. Caliche will be hauled from an existing caliche pit on private (Madera) land in SENW 6-25s-35e.

7. WASTE DISPOSAL

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

8. ANCILLARY FACILITIES

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

9. WELL SITE LAYOUT (See MAP 9)

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

10. <u>RECLAMATION</u> (See MAP 11)

Interim reclamation will be completed within 6 months of completing the well. Interim reclamation will consist of shrinking the pad $\approx 23\%$ (0.85 acre) by removing caliche and reclaiming a 100' wide swath on the east side. This will leave 2.80 acres for producing 5 wells and tractor-trailer turn around. Disturbed areas will be contoured to match pre-

Matador Production Company Carl Mottek Federal 101H SHL 326' FNL & 440' FWL BHL 240' FSL & 330' FWL Sec. 17, T. 24 S., R. 34 E., Lea County, NM

construction grades. Soil and brush will be evenly spread over disturbed areas and harrowed on the contour. Disturbed areas will be seeded in accordance with the land owner's requirements.

Enough stockpiled topsoil will be retained to cover the remainder of the pad when the well is plugged. Once the last well is plugged, then the rest of the pad and 579.49' of new road will be similarly reclaimed within 6 months of plugging. Noxious weeds will be controlled.

Land use

30' x 579.49' road = 0.40 acre <u>+ 370' x 430' pad = 3.65 acres</u> 4.05 acres short term <u>- 0.85 acre interim reclamation pad</u> 3.20 acres long term (0.40 ac. road + 2.80 ac. pad)

11. SURFACE OWNER

Well pad and that portion of the new road in Sec. 17 will be on private surface owned by Billie McKandles Fortner, 1033 Park Center St., Benbrook TX 76126. That portion of the new road in Section 18 will be on private land owned by Rubert Madera, PO Box 2795, Ruidoso NM 88355.

12. OTHER INFORMATION

On-site inspection was held with Vance Wolf (BLM).

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 13th day of February, 2018.

Matador Production Company Carl Mottek Federal 101H SHL 326' FNL & 440' FWL BHL 240' FSL & 330' FWL Sec. 17, T. 24 S., R. 34 E., Lea County, NM

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



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

Section 1 - General

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

Section 2 - Lined Pits

Would you like to utilize Lined Pit PWD options? NO **Produced Water Disposal (PWD) Location:** PWD surface owner: Lined pit PWD on or off channel: Lined pit PWD discharge volume (bbl/day): Lined pit specifications: Pit liner description: Pit liner manufacturers information: Precipitated solids disposal: Decribe precipitated solids disposal: Precipitated solids disposal permit: Lined pit precipitated solids disposal schedule: Lined pit precipitated solids disposal schedule attachment: Lined pit reclamation description: Lined pit reclamation attachment: Leak detection system description: Leak detection system attachment: Lined pit Monitor description: Lined pit Monitor attachment: Lined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information attachment:

PWD disturbance (acres):

PWD Data Report

06/18/2018

Section 3 - Unlined Pits

Would you like to utilize Unlined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit specifications:

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal permit:

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule attachment:

Unlined pit reclamation description:

Unlined pit reclamation attachment:

Unlined pit Monitor description:

Unlined pit Monitor attachment:

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

Beneficial use user confirmation:

Estimated depth of the shallowest aquifer (feet):

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

TDS lab results:

Geologic and hydrologic evidence:

State authorization:

Unlined Produced Water Pit Estimated percolation:

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

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information attachment:

Section 4 - Injection

Would you like to utilize Injection PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

PWD disturbance (acres):

PWD disturbance (acres):

Injection | type:

Injection well number:

Assigned injection well API number?

Injection well new surface disturbance (acres):

Minerals protection information:

Mineral protection attachment:

Underground Injection Control (UIC) Permit?

UIC Permit attachment:

Section 5 - Surface Discharge

Would you like to utilize Surface Discharge PWD options? NO

Produced Water Disposal (PWD) Location: PWD surface owner:

Surface discharge PWD discharge volume (bbl/day):

Surface Discharge NPDES Permit?

Surface Discharge NPDES Permit attachment:

Surface Discharge site facilities information:

Surface discharge site facilities map:

Section 6 - Other

Would you like to utilize Other PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

Other PWD discharge volume (bbl/day):

Other PWD type description:

Other PWD type attachment:

Have other regulatory requirements been met?

Other regulatory requirements attachment:

Injection well name:

Injection well API number:

PWD disturbance (acres):

PWD disturbance (acres):

WAFMSS

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

Bond Information

Federal/Indian APD: FED

BLM Bond number: NMB001079

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Bond Info Data Report

06/18/2018

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond attachment:

Reclamation bond number:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment: