

Black River Water Management Company, LLC

One Lincoln Centre • 5400 LBJ Freeway • Suite 1500 • Dallas, Texas 75240

Voice 972.371.5218 • Fax 972.371.5201

amonroe@matadorresources.com

November 28, 2016

EMNRD – NMOCD Dist 2

Attn: Karen Sharp

811 S. First St.

Artesia, NM 88210

RE: BLACK RIVER SWD #1
API 30-015-43807; Property 316272
Sec. 15 T 23S R 28E
Eddy Co., NM

Dear Ms. Sharp:

Enclosed please find these completion documents for the above captioned well:

C-102

Plat

C-103 – Actual casing and cement (original and 2 copies)

C-103 – Completion procedure

C-105 – Completion report

MIT Test – signed by Richard Inge (Test successful)

Directional surveys and certifications

Wellbore schematic

Copy of NMOCD acceptance of blanket plugging bond

Copy of Order SWD-1627 and C-108 application

The logs were sent via a separate FedEx package today. I have not included a C-103 for the initial injection date, volume and pressure, as we are tentatively scheduling an acid job for next week on 12/6 and are not planning to inject until after that is completed and the completion packet for this well has been accepted.

If you need further information or documents, please don't hesitate to contact me at 972-371-5218 or via email at amonroe@matadorresources.com.

Thank you,



Ava Monroe

Sr. Engineering Technician

Encl.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources
Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

FORM C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015- 43607	² Pool Code 96101	³ Pool Name SWD; Devonian
⁴ Property Code 316 272	⁵ Property Name Black River SWD	⁶ Well Number #1
⁷ GRID No. 371287	⁸ Operator Name Black River Water Management Company, LLC	⁹ Elevation 3126'

¹⁰Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	31	23-S	28-E	-	250'	NORTH	2461'	WEST	EDDY

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
-	-	-	-	-	-	-	-	-	-

¹¹ Dedicated Acres -	¹² Joint or Infill	¹³ Consolidation Code	¹⁴ Order No.
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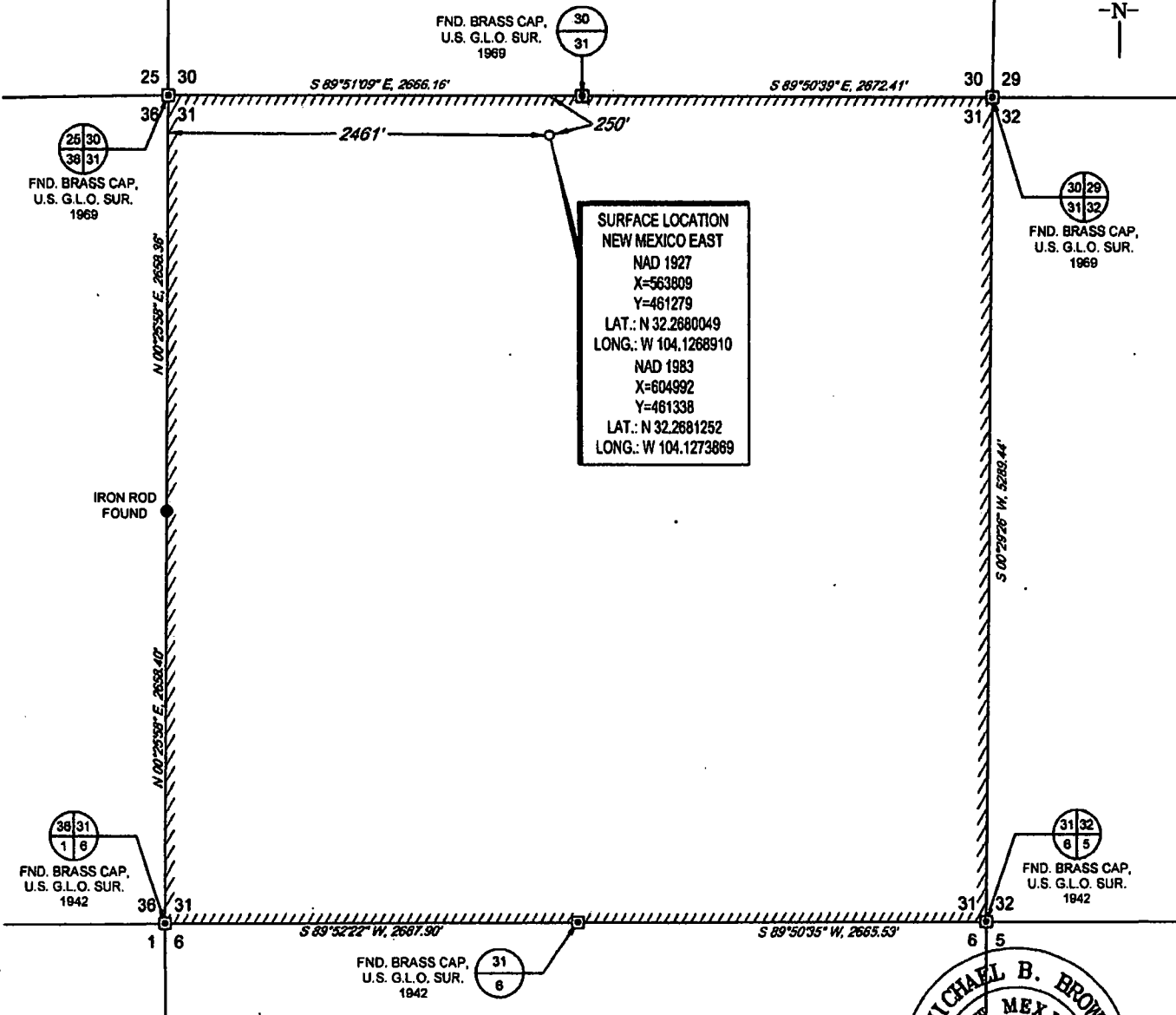
No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and correct to the best of my knowledge and belief, and that this organization either owns a working interest or undivided mineral interest in the land underlying the proposed bottom hole location, or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Brian Wood</i> 5-23-16 Signature Date Brian Wood Printed Name brian@permitswest.com E-mail Address
	18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true to the best of my belief. 01/15/2016 Date of Survey <i>Michael R. Brown</i> Signature and Seal of Professional Surveyor 18329 Professional Surveyor Certificate Number

SCALE: 1" = 1000'
0' 500' 1000'



SECTION 31, TOWNSHIP 23-S, RANGE 28-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO



SURFACE LOCATION
NEW MEXICO EAST
NAD 1927
X=563809
Y=461279
LAT.: N 32.2680049
LONG.: W 104.1268910
NAD 1983
X=604992
Y=461338
LAT.: N 32.2681252
LONG.: W 104.1273869

LEASE NAME & WELL NO.: BLACK RIVER SWD #1

SECTION 31 TWP 23-S RGE 28-E SURVEY N.M.P.M.

COUNTY EDDY STATE NM

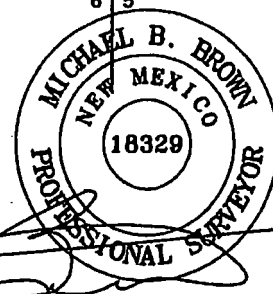
DESCRIPTION 250' FNL & 2461' FWL

DISTANCE & DIRECTION

FROM INT. OF US-285 & JAYDERS RD., GO SOUTH ON US-285.
±0.8 MILE, THENCE WEST (RIGHT) ON HIGBY HOLE RD. ±0.4
MILES, THENCE WEST (RIGHT) ON BOUNDS RD. ±1.8 MILES, TO
A POINT ±1121 FEET SOUTH OF THE LOCATION.

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

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.



Michael Blake Brown, P.S. No. 18329
JUNE 10, 2016



TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

1400 EVERMAN PARKWAY, Ste. 107 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX (817) 744-7548
2603 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1853 OR (800) 787-1853 • FAX (432) 682-1743
WWW.TOPOGRAPHIC.COM

Submit 1 Copy To Appropriate District Office
District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-103
Revised July 18, 2013

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO. 30-015-43807
1. Type of Well: Oil Well ☐ Gas Well ☒ Other SWD		5. Indicate Type of Lease STATE ☐ FEE ☒
2. Name of Operator Black River Water Management Company, LLC		6. State Oil & Gas Lease No.
3. Address of Operator 5400 LBJ FREEWAY, STE 1500, DALLAS, TX 75240		7. Lease Name or Unit Agreement Name Black River SWD
4. Well Location Unit Letter C : 250 feet from the N line and 2461 feet from the W line Section 31 Township 23S Range 28E NMPM County		8. Well Number 1
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3126' GR		9. OGRID Number 371287
		10. Pool name or Wildcat SWD;DEVONIAN

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐
CLOSED-LOOP SYSTEM ☐
OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☒

OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

DATE	FLUID TYPE	HOLE SZ	CSD SZ	WT LB/FT	GRADE	EST TOP CSD	DEPTH SET	LD SX	LD YIELD	TL SX	TL YIELD	TTL SX	CLASS	PRESS HOLD	WAIT ON CMT	TOP OF CRT	GR TO SURFACE
8/29/2016	FRESH WTR	28	20	94.00	J-55	0	588	885	1.83	835	1.38	1630	C	700		170	0
8/30/2016	BRINE	17.5	13.375	68.00	J-65	0	2485	585	2.08	270	1.38	855	C	1230	10.00	0	128
9/14/2016	CUT BRINE	12.25	9.625	53.50	P-110 EC	0	8000	630	2.27	320	1.38	970	C	1000	44.00	1600	0
10/14/2016	WTR POLYMER	8.5	7	32.00	P-110 HC	0	12785	0	0	800	1.17	800	H	1500	-	8500	0
	FRESH WTR	6															

(Order SWD -1627)

Spud Date:

08/21/2016

Rig Release Date:

10/29/2016

Surface - 700 psi (30 min)
Int 1 - 1350 psi (30 min)
Int 2 - 1500 psi (30 min)
Prod - 1500 psi (30 min)

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE

Ava Monroe

TITLE Sr. Engineering Tech

DATE

11/29/16

Type or print name Ava Monroe

amonroe@matadorresources.com

E-mail address:

PHONE: 972-271-5218

For State Use Only

APPROVED BY:

TITLE

DATE

Conditions of Approval (if any):

Submit 1 Copy To Appropriate District Office

District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
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State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-103
Revised July 18, 2013

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO. 30-015-43807
1. Type of Well: Oil Well ☐ Gas Well ☒ Other SWD		5. Indicate Type of Lease STATE ☐ FEE ☒
2. Name of Operator Black River Water Management Company, LLC		6. State Oil & Gas Lease No.
3. Address of Operator 5400 LBJ Freeway, Ste. 1500, Dallas, TX 75240		7. Lease Name or Unit Agreement Name Black River SWD
4. Well Location Unit Letter <u>C</u> : <u>250</u> feet from the <u>N</u> line and <u>2461</u> feet from the <u>W</u> line Section <u>31</u> Township <u>23S</u> Range <u>28E</u> NMPM County <u>EDDY</u>		8. Well Number <u>1</u>
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3126' GR		9. OGRID Number 371287
		10. Pool name or Wildcat SWD: Devonian

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:
PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐
CLOSED-LOOP SYSTEM ☐
OTHER: ☐

SUBSEQUENT REPORT OF:
REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐
OTHER: Completion Operations ☒

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

10/21/2016: RIH with gauge ring. Wireline rope socket failed.

10/22/2016 to 10/27/2016: Successfully retrieve fish, perform clean up run.

10/27/2016: RIH w/ Packer on wireline. Set packer at 13,740' wireline measurement.

10/28/2016: RIH with 4 1/2" 13.5# P-110 BTC Fiberglass Lined tubing, circulate 330 bbls packer fluid, latch into packer. Pressure test retrievable seal bore packer to 500 psi for 30 minutes (Test good). Install check valve. Install blank flange and pressure test to 5,000 psi for 15 minutes (Test good). Shut in well and release rig.
Estimated water salinity across injection interval is 68,956 ppm. Anticipate first injection on or before 12/15/2016.
(Order SWD-1627)

Spud Date:

08/21/2016

Rig Release Date:

10/29/2016

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE

Ava Monroe

TITLE Sr. Engineering Technician

DATE 11/23/2016

Type or print name Ava Monroe

E-mail address: amonroe@matadorresources.com PHONE: 972-371-5218

For State Use Only

APPROVED BY:

TITLE

DATE

Conditions of Approval (if any):

Submit To Appropriate District Office Two Copies District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505	State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505	Form C-105 Revised August 1, 2011								
		1. WELL API NO. 30-015-43807								
		2. Type of Lease ☐ STATE ☒ FEE ☐ FED/INDIAN								
		3. State Oil & Gas Lease No.								
WELL COMPLETION OR RECOMPLETION REPORT AND LOG										
4. Reason for filing: ☒ COMPLETION REPORT (Fill in boxes #1 through #31 for State and Fee wells only) ☐ C-144 CLOSURE ATTACHMENT (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33; attach this and the plat to the C-144 closure report in accordance with 19.15.17.13.K NMAC)		5. Lease Name or Unit Agreement Name BLACK RIVER SWD								
7. Type of Completion: ☒ NEW WELL ☐ WORKOVER ☐ DEEPENING ☐ PLUGBACK ☐ DIFFERENT RESERVOIR ☐ OTHER		6. Well Number: 1								
8. Name of Operator Black River Water Management Company, LLC		9. OGRID 371287								
10. Address of Operator 5400 LBJ Freeway, Ste. 1500, Dallas, TX 75240		11. Pool name or Wildcat SWD;DEVONIAN								
12. Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County
Surface:	C	31	23S	28E		250	N	2461	W	EDDY
BH:										
13. Date Spudded 8/21/16	14. Date T.D. Reached 10/19/16	15. Date Rig Released 10/29/16		16. Date Completed (Ready to Produce) TBD			17. Elevations (DF and RKB, RT, GR, etc.) 3126' GR			
18. Total Measured Depth of Well 14,734'		19. Plug Back Measured Depth 14,734'		20. Was Directional Survey Made? Yes			21. Type Electric and Other Logs Run See list attached.			
22. Producing Interval(s), of this completion - Top, Bottom, Name 13,785 - 14,734' (OH) Devonian										
23. CASING RECORD (Report all strings set in well)										
CASING SIZE		WEIGHT LB./FT.		DEPTH SET		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED
20.00		94.00		598'		26"		1830		0
13.375		68.00		2465'		17.5"		855		0
9.625		53.50		9800'		12.25"		970		0
7.0		32.00		13785'		8.5"		500		0
24. LINER RECORD										
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN		25. TUBING RECORD				
						SIZE	DEPTH SET	PACKER SET		
						4.5"	13.740'	13.740'		
26. Perforation record (interval, size, and number) None						27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC. DEPTH INTERVAL AMOUNT AND KIND MATERIAL USED				
28. PRODUCTION										
Date First Production		Production Method (Flowing, gas lift, pumping - Size and type pump)				Well Status (Prod. or Shut-in) SI awaiting first injection				
Date of Test	Hours Tested	Choke Size	Prod'n For Test Period	Oil - Bbl	Gas - MCF	Water - Bbl.	Gas - Oil Ratio			
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - (Corr.)				
29. Disposition of Gas (Sold, used for fuel, vented, etc.)							30. Test Witnessed By			
31. List Attachments Logs list, logs, DS & certifications										
32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit.										
33. If an on-site burial was used at the well, report the exact location of the on-site burial:										
Latitude				Longitude				NAD 1927 1983		
I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief										
Signature <i>Ava Monroe</i>			Printed Name Ava Monroe			Title Sr. Engineering Technician			Date 11/23/16	
E-mail Address amonroe@matadorresources.com										

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well and not later than 60 days after completion of closure. When submitted as a completion report, this shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 11, 12 and 26-31 shall be reported for each zone.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico			Northwestern New Mexico		
T. Anhy	T. Canyon	11034' MD	T. Ojo Alamo	T. Penn A"	
T. Salt	T. Strawn	11187' MD	T. Kirtland	T. Penn. "B"	
B. Salt	T. Atoka	11520' MD	T. Fruitland	T. Penn. "C"	
T. Yates	T. Miss	13150' MD	T. Pictured Cliffs	T. Penn. "D"	
T. 7 Rivers	T. Devonian	13650' MD	T. Cliff House	T. Leadville	
T. Queen	T. Silurian		T. Menefee	T. Madison	
T. Grayburg	T. Montoya		T. Point Lookout	T. Elbert	
T. San Andres	T. Simpson		T. Mancos	T. McCracken	
T. Glorieta	T. McKee		T. Gallup	T. Ignacio Otzie	
T. Paddock	T. Ellenburger		Base Greenhorn	T. Granite	
T. Blinebry	T. Gr. Wash		T. Dakota		
T. Tubb	T. Delaware Sand	2450' MD	T. Morrison		
T. Drinkard	T. Bone Springs	5990' MD	T. Todilto		
T. Abo	T.		T. Entrada		
T. Wolfcamp 9306' MD	T.		T. Wingate		
T. Penn	T.		T. Chinle		
T. Cisco (Bough C) 10820' MD	T.		T. Permian		

OIL OR GAS SANDS OR ZONES

No. 1, from.....to.....
No. 2, from.....to.....
No. 3, from.....to.....
No. 4, from.....to.....

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.....
 No. 2, from.....to.....feet.....
 No. 3, from.....to.....feet.....

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness In Feet	Lithology

From	To	Thickness In Feet	Lithology

LOG LIST - C-105 ATTACMENT 30-015-43807

POOL: SWD;DEVONIAN

VENDOR	LOG	LOG DATE	TOP	BOTTOM	RUN	CMT TOP
ROTARY WL SVC	TEMPERATURE SURVEY	8/25/2016				170'
BAKER HUGHES	RADIAL CBL/DEN/GAMMA	10/12/2016	6963.750'	13620.309'	MAIN	9000'
BAKER HUGHES	RADIAL CBL/DEN/GAMMA	10/25/2016	6963.750'	13620.309'	MAIN	7408'
BAKER HUGHES	RADIAL CBL/DEN/GAMMA	10/12/2016	8517.25'	10898.750'	REPEAT	9000'
BAKER HUGHES	RADIAL CBL/DEN/GAMMA	10/12/2016	8517.250'	10898.750'	REPEAT	9000'
BAKER HUGHES	RADIAL CBL/DEN/GAMMA	10/12/2016	8713.750'	13500.00'	MAIN	9000'
BAKER HUGHES	RADIAL CBL/DEN/GAMMA	10/12/2016	8713.75	13500.00'	MAIN	9000'
BAKER HUGHES	RADIAL CBL/DEN/GAMMA	10/12/2016	10350'	10897.8'	MAIN	9000'
ALLIED HORIZONTAL WL SVC	RADIAL CBL	10/22/2016	0'	13766'	MAIN	9000'
SELMAN & ASSOC., LTD	5" IMAGE HYDROCARBON	9/1-10/27/2016	2450'	14734'		-

State of New Mexico
Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

David Martin
Cabinet Secretary

Tony Delfin
Deputy Cabinet Secretary

David R. Catanach, Division Director
Oil Conservation Division



Date 11/3/16

API # 30-0 15-43807

Dear Operator:

I have this date performed a Mechanical Integrity Test on the BLACK RIVER SWD #1

☒ If this test was successful the original chart has been retained by the NMOCD and will be scanned into the well's file in 7 to 10 days, pending receipt of the Form C-103 indicating the reason for this test. The well files are located at www.emnrd.state.nm.us/ocd/OCOnline.htm

☐ If this test was unsuccessful the original chart has been returned to the operator pending repair and retest of the well, which must be accomplished within 90 days. If this is a test of a repaired well, previously in non-compliance, all dates and requirements of the original non-compliance are still in effect. No expectation of extension should be construed as a result of this test.

☐ If this test was for Temporary Abandonment include in your detailed description, on Form C-103, the location of the CIBP and any other tubular goods in the well, as well as your request for TA status. Include how long you are requesting the TA status for.

☐ If this is a successful test of a repaired well you must submit a form C-103 to NMOCD within 30 days. This C-103 must include a **detailed** description of the repair to the well. Only after receipt of the C-103 will the non-compliance be closed.

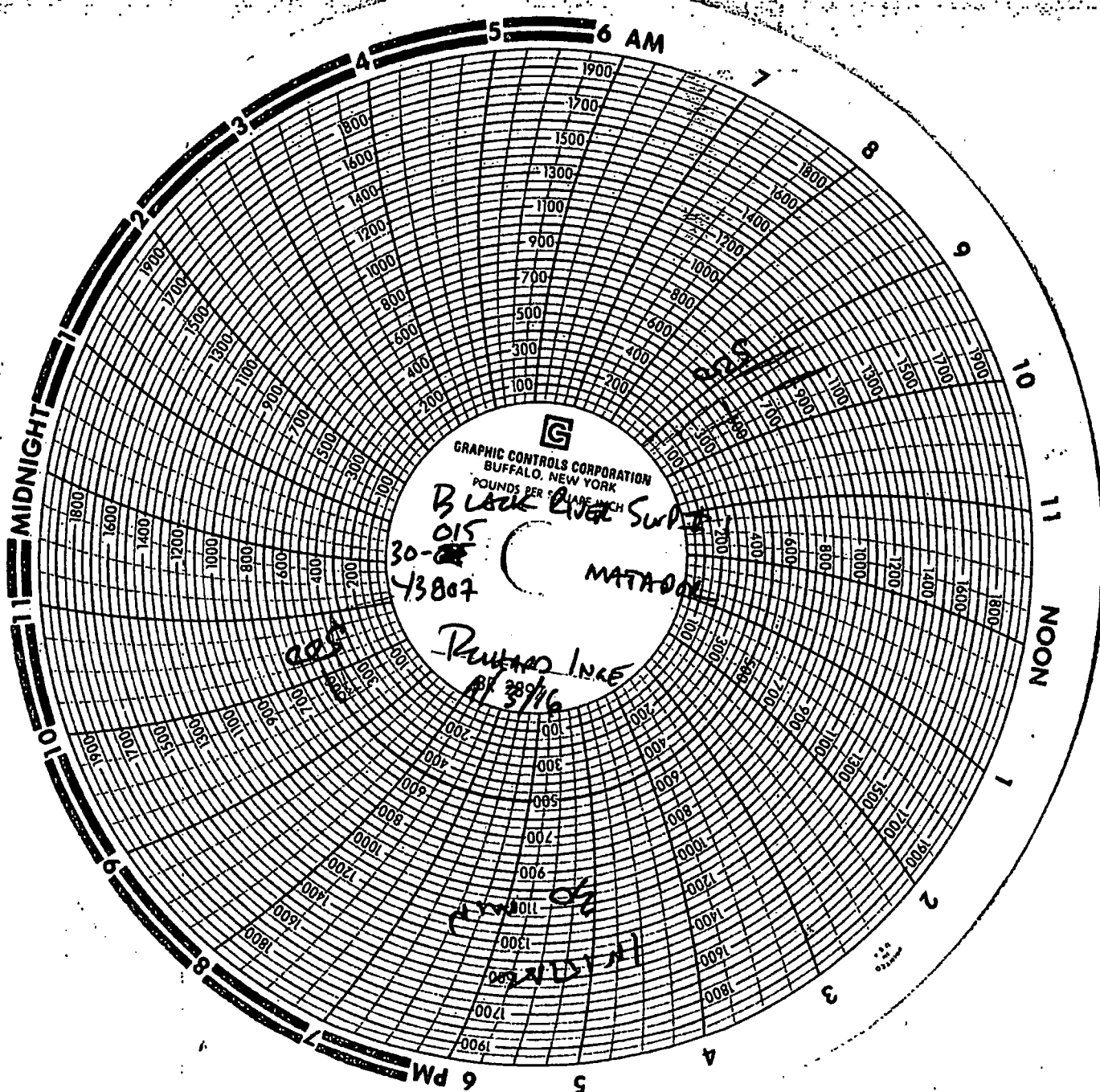
☒ If this is a successful Initial Test of an injection well you must submit a form C-103 to NMOCD within 30 days. This C-103 must include a **detailed** description of the work done on this well including the position of the packer, tubing information, the date of first injection, the tubing pressure and injection volume. Contact Karen Sharp at 575-748-1283 x109 to verify all required paperwork has been received before you can begin injection.

If I can be of additional service contact me at (575) 748-1283 ext 107.

Thank You,

Richard Inge

Richard Inge
Compliance Officer
District II - Artesia





Job Number: SVMO-160480
 Company: Matador Resources
 Lease/Well: Black River SWD 1
 Location: Eddy County, NM
 Rig Name: Patterson 274
 RKB: 29'
 G.L. or M.S.L.: GL

State/Country: New Mexico/USA
 Declination: 7.33°
 Grid: East To Grid North
 File name: W:\2016\MATADORMO\BLACKR-1\SWD1.SVY
 Date/Time: 26-Aug-16 / 08:02
 Curve Name: Surface - 522' M.D. (Rate Gyro)
 Lat: 32.268056 Long: -104.126806

MS Energy

WINSERVE SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane .00
 Vertical Section Referenced to Wellhead
 Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	Direction Deg	Dogleg Severity Deg/100
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
90.00	.32	137.99	90.00	-.19	.17	-.19	.25	137.99	.36
183.00	.51	128.18	183.00	-.64	.67	-.64	.92	133.60	.22
275.00	2.45	177.44	274.96	-2.85	1.08	-2.85	3.05	159.32	2.34
368.00	3.14	175.95	367.85	-7.38	1.35	-7.38	7.50	169.67	.75
460.00	3.63	173.89	459.69	-12.79	1.83	-12.79	12.92	171.84	.55
Last Survey Depth Recorded									
522.00	4.16	171.55	521.55	-16.97	2.37	-16.97	17.13	172.04	.89



3335 Pollok Drive
Conroe, Texas 77303

936.442.2500 (office)
936.442.2599 (fax)
www.msenergyservices.com

Surveyor Certification Form

Survey Company: MS ENERGY SERVICES
Surveyors Name: JAMES BENSON
Survey Job Type: RATE GYRO
Customer: MATADOR RESOURCES
Well: BLACK RIVER SWD 1
API: 30-015-43807
Surveyed from: SURFACE TO A DEPTH OF 522' MD
Survey Run Date: 08-24-16
Surface Location: EDDY COUNTY, NM

I certify that the data is true, correct, and complete and within the limitations of the tool set forth by MS Energy Services; that I am authorized and qualified to make this report; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by MS Energy Services.

JAMES BENSON

Digitally signed by JAMES BENSON
DN: cn=JAMES BENSON, o=MS ENERGY SERVICES, ou,
email=JBENSON@MSENERGYSERVICES.COM, c=US
Date: 2014.09.22 12:18:18 -05'00'



7821 Will Rogers Blvd.
Fort Worth, Texas 76140

817.568.1038 (office)
817.568.1499 (fax)
www.msenergyservices.com

State of Texas

County of Tarrant

I, Joseph Mayle, certify that: I am employed by MS Energy Services;
that I did on the day(s) of 8/26/16 through 9/10/16 conduct or supervise
the taking of MWD survey(s) from a depth of 599 feet to a depth of 9,734
feet; that the data is true, correct, complete and within the limitations of the tool set forth by MS Energy
Services; that I am authorized and qualified to make this report; that this survey(s) was / were
conducted at the request of MATADOR PRODUCTION CO.
for the BLACK RIVER SWD #1, API No. 30-015-43807
in Eddy County / Parish, NEW MEXICO; and that I have
reviewed this report and find that it conforms to the principles and procedures as set forth by
MS Energy Services.

Signature: Joseph Mayle

Title: MWD SUPERVISOR

MS Directional

MS Guidance

MS Survey

MS Wireline

Company:		Matador Production Co.												
Well Name:		Black River SWD #1												
Location:		Eddy County, NM												
Rig:		Patterson #274				Magnetic Declination:		7.24		REFERENCED TO GRID NORTH				
Job Number:		DDMO-160361												
API #:		30-015-43807												
Vertical Section Azimuth:				0.00		Proposed Direction:		0.00						
Survey Calculation Method:				Minlimum Curvature										
PTB:	MD		INC		AZM		TVD		N/S		E/W		VS	
	9,800		2.1		244.5		9796.41		-93.3		-39.27		-93.3	
#	Depth Feet	Inc Degrees	Azm Degrees	TVD Feet	N/S Feet	E/W Feet	Surface Vert Sec	Closure Distance		Azm	DLS/ 100	BUR/ 100'		
TIE IN	522	4.16	171.55	521.55	-16.97	2.37	-16.97	17.13	172.05					
1	599	5.20	176.00	598.29	-23.21	3.02	-23.21	23.41	172.58	1.43	1.35			
2	695	5.30	169.50	693.89	-31.91	4.14	-31.91	32.18	172.62	0.63	0.10			
3	788	4.00	149.40	786.59	-38.93	6.57	-38.93	39.48	170.42	2.22	-1.40			
4	881	3.80	117.70	879.38	-43.15	10.95	-43.15	44.52	165.76	2.30	-0.22			
5	975	3.30	104.10	973.20	-45.26	16.33	-45.26	48.12	160.16	1.04	-0.53			
6	1,068	1.90	97.90	1066.11	-46.13	20.46	-46.13	50.46	156.08	1.53	-1.51			
7	1,163	1.60	73.60	1161.06	-45.97	23.29	-45.97	51.53	153.13	0.83	-0.32			
8	1,259	1.70	41.00	1257.03	-44.51	25.51	-44.51	51.30	150.19	0.97	0.10			
9	1,353	1.90	7.10	1350.98	-41.92	26.61	-41.92	49.65	147.59	1.13	0.21			
10	1,448	2.10	347.60	1445.93	-38.65	26.44	-38.65	46.83	145.63	0.74	0.21			
11	1,543	1.60	352.40	1540.88	-35.64	25.89	-35.64	44.05	144.01	0.55	-0.53			
12	1,639	1.10	12.80	1636.85	-33.41	25.91	-33.41	42.28	142.20	0.71	-0.52			
13	1,734	0.60	44.50	1731.84	-32.17	26.46	-32.17	41.65	140.56	0.70	-0.53			
14	1,829	0.90	87.30	1826.83	-31.78	27.56	-31.78	42.06	139.07	0.65	0.32			
15	1,925	1.10	95.30	1922.82	-31.83	29.23	-31.83	43.21	137.44	0.25	0.21			
16	2,020	0.80	51.90	2017.80	-31.50	30.66	-31.50	43.96	135.78	0.80	-0.32			
17	2,115	0.80	39.70	2112.80	-30.58	31.60	-30.58	43.98	134.06	0.18	0.00			
18	2,211	0.90	69.20	2208.79	-29.80	32.74	-29.80	44.27	132.31	0.46	0.10			
19	2,306	0.70	91.40	2303.78	-29.55	34.01	-29.55	45.06	130.98	0.38	-0.21			
20	2,391	0.40	118.20	2388.77	-29.70	34.80	-29.70	45.75	130.48	0.46	-0.35			
21	2,499	0.40	207.50	2496.77	-30.21	34.95	-30.21	46.20	130.84	0.52	0.00			
22	2,595	0.30	197.60	2592.77	-30.75	34.72	-30.75	46.38	131.53	0.12	-0.10			
23	2,786	0.30	184.30	2783.77	-31.73	34.53	-31.73	46.89	132.57	0.04	0.00			
24	2,976	0.10	184.70	2973.77	-32.39	34.48	-32.39	47.31	133.20	0.11	-0.11			
25	3,167	0.30	262.90	3164.76	-32.61	33.97	-32.61	47.09	133.83	0.16	0.10			
26	3,358	0.20	250.60	3355.76	-32.79	33.16	-32.79	46.63	134.67	0.06	-0.05			
27	3,549	0.30	220.80	3546.76	-33.28	32.52	-33.28	46.53	135.66	0.08	0.05			
28	3,739	0.40	255.00	3736.76	-33.82	31.56	-33.82	46.26	136.99	0.12	0.05			
29	3,929	0.40	237.50	3926.75	-34.35	30.36	-34.35	45.84	138.53	0.06	0.00			
30	4,119	0.40	242.90	4116.75	-35.01	29.21	-35.01	45.59	140.17	0.02	0.00			
31	4,310	0.50	233.50	4307.74	-35.81	27.94	-35.81	45.42	142.04	0.06	0.05			
32	4,501	0.50	219.60	4498.73	-36.95	26.74	-36.95	45.61	144.10	0.06	0.00			

Company:		Matador Production Co.												
Well Name:		Black River SWD #1												
Location:		Eddy County, NM												
Rig:		Patterson #274				Magnetic Declination:		7.24		REFERENCED TO GRID NORTH				
Job Number:		DDMO-160361												
API #:		30-015-43807												
Vertical Section Azimuth:			0.00		Proposed Direction:		0.00							
Survey Calculation Method:			Minimum Curvature											
PTB:	MD		INC		AZM		TVD		N/S		E/W		VS	
	9,800		2.1		244.5		9796.41		-93.3		-39.27		-93.3	
#	Depth Feet	Inc Degrees	Azm Degrees	TVD Feet	N/S Feet	E/W Feet	Surface Vert Sec	Closure Distance		Azm	DLS/ 100	BUR/ 100'		
33	4,691	0.60	215.30	4688.73	-38.40	25.64	-38.40	46.17	146.27	0.06	0.05			
34	4,882	0.90	228.90	4879.71	-40.20	23.93	-40.20	46.78	149.24	0.18	0.16			
35	5,073	0.70	219.60	5070.69	-42.09	22.06	-42.09	47.52	152.34	0.12	-0.10			
36	5,264	0.50	203.00	5261.68	-43.75	20.99	-43.75	48.53	154.37	0.14	-0.10			
37	5,454	0.60	241.10	5451.67	-45.00	19.79	-45.00	49.16	156.26	0.20	0.05			
38	5,644	0.80	233.60	5641.66	-46.26	17.85	-46.26	49.59	158.90	0.12	0.11			
39	5,834	0.70	238.20	5831.64	-47.66	15.80	-47.66	50.21	161.66	0.06	-0.05			
40	6,024	0.90	228.80	6021.62	-49.26	13.69	-49.26	51.12	164.47	0.13	0.11			
41	6,215	1.00	202.30	6212.60	-51.79	11.93	-51.79	53.14	167.03	0.23	0.05			
42	6,406	0.90	158.60	6403.57	-54.73	11.84	-54.73	55.99	167.79	0.37	-0.05			
43	6,596	2.00	143.20	6593.51	-58.77	14.37	-58.77	60.50	166.26	0.61	0.58			
44	6,787	1.50	157.10	6784.42	-63.74	17.34	-63.74	66.06	164.78	0.34	-0.26			
45	6,977	1.70	173.30	6974.35	-68.83	18.64	-68.83	71.31	164.85	0.26	0.11			
46	7,072	1.50	189.10	7069.31	-71.46	18.61	-71.46	73.84	165.40	0.51	-0.21			
47	7,168	1.20	202.00	7165.29	-73.63	18.03	-73.63	75.81	166.24	0.44	-0.31			
48	7,358	0.70	209.70	7355.26	-76.48	16.71	-76.48	78.29	167.67	0.27	-0.26			
49	7,549	1.10	276.10	7546.24	-77.30	14.31	-77.30	78.62	169.51	0.54	0.21			
50	7,740	1.20	271.70	7737.20	-77.05	10.49	-77.05	77.76	172.25	0.07	0.05			
51	7,835	1.00	264.10	7832.18	-77.11	8.67	-77.11	77.59	173.58	0.26	-0.21			
52	8,026	0.70	239.00	8023.16	-77.88	6.01	-77.88	78.11	175.59	0.25	-0.16			
53	8,217	0.70	205.10	8214.15	-79.53	4.52	-79.53	79.66	176.75	0.21	0.00			
54	8,407	1.10	230.30	8404.13	-81.75	2.62	-81.75	81.79	178.16	0.29	0.21			
55	8,597	2.10	250.90	8594.05	-84.05	-2.07	-84.05	84.08	181.41	0.60	0.53			
56	8,692	2.80	249.40	8688.96	-85.44	-5.89	-85.44	85.64	183.94	0.74	0.74			
57	8,787	2.10	266.00	8783.88	-86.38	-9.80	-86.38	86.93	186.47	1.04	-0.74			
58	8,882	1.70	260.70	8878.83	-86.73	-12.92	-86.73	87.69	188.48	0.46	-0.42			
59	8,978	1.50	248.70	8974.79	-87.41	-15.50	-87.41	88.78	190.05	0.41	-0.21			
60	9,073	1.70	259.40	9069.75	-88.13	-18.04	-88.13	89.95	191.57	0.38	0.21			
61	9,168	1.40	263.80	9164.72	-88.51	-20.58	-88.51	90.87	193.09	0.34	-0.32			
62	9,263	1.60	276.10	9259.68	-88.49	-23.05	-88.49	91.45	194.60	0.40	0.21			
63	9,358	1.30	260.00	9354.65	-88.54	-25.43	-88.54	92.12	196.03	0.53	-0.32			
64	9,454	1.80	256.90	9450.62	-89.07	-27.98	-89.07	93.36	197.44	0.53	0.52			
65	9,549	1.90	246.90	9545.57	-90.03	-30.88	-90.03	95.18	198.93	0.36	0.11			
66	9,644	2.10	254.60	9640.51	-91.11	-34.00	-91.11	97.25	200.47	0.35	0.21			

Company:	Matador Production Co.													
Well Name:	Black River SWD #1													
Location:	Eddy County, NM													
Rig:	Patterson #274					Magnetic Declination:		7.24		REFERENCED TO GRID NORTH				
Job Number:	DDMO-160361													
API #:	30-015-43807													
Vertical Section Azimuth:					0.00		Proposed Direction:		0.00					
Survey Calculation Method:					Minimum Curvature									
PTB:	MD		INC		AZM		TVD		N/S		E/W		VS	
	9,800		2.1		244.5		9796.41		-93.3		-39.27		-93.3	
#	Depth Feet	Inc Degrees	Azm Degrees	TVD Feet	N/S Feet	E/W Feet	Surface Vert Sec	Closure Distance	Azm	DLS/ 100	BUR/ 100'			
67	9,734	2.10	244.50	9730.45	-92.26	-37.08	-92.26	99.43	201.90	0.41	0.00			

Matador Resources

Eddy County, NM (NAD27 NME

Black River SWD #1

Black River SWD #1

OH

Design: OH

Regulatory Report (Grid North)

28 November, 2016

This survey is correct to the best of my knowledge and is supported by actual field data.

Notarized this date 28th of November, 2016.

Sherry Stewart

Notary Signature
County of Midland
State of Texas



Scientific Drilling

Regulatory Report (Grid North)



Company:	Matador Resources	Local Co-ordinate Reference:	Well Black River SWD #1
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	KB= 28' @ 3154.00usft
Site:	Black River SWD #1	MD Reference:	KB= 28' @ 3154.00usft
Well:	Black River SWD #1	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland District

Project	Eddy County, NM (NAD27 NME)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Black River SWD #1				
Site Position:		Northing:	461,279.00 usft	Latitude:	32° 16' 4.815 N
From:	Map	Easting:	563,809.00 usft	Longitude:	104° 7' 36.810 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16"	Grid Convergence:	0.11 °

Well	Black River SWD #1					
Well Position	+N/-S	0.00 usft	Northing:	461,279.00 usft	Latitude:	32° 16' 4.815 N
	+E/-W	0.00 usft	Easting:	563,809.00 usft	Longitude:	104° 7' 36.810 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	3,128.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	9/15/2016	7.43	60.10	48,189

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)-	+N/-S (usft)	+E/-W (usft)	Direction (bearing)	
	0.00	0.00	0.00	182.07	

Survey Program	Date 11/28/2016				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
9,836.00	14,734.00	SDI MWD (OH)	MWD+HDGM	OWSG MWD + HDGM	

Survey								
MD (usft)	Inc (°)	Azi (azimuth) (bearing)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Azimuth (bearing)	Closure Distance (usft)	
9,734.00	2.10	244.50	9,730.45	-92.28	-37.08	201.90	99.43	
9,836.00	1.51	232.87	9,832.40	-93.88	-39.84	203.00	101.98	
9,917.00	1.25	233.42	9,913.38	-95.05	-41.40	203.54	103.67	
9,930.00	1.40	227.86	9,926.37	-95.24	-41.63	203.61	103.94	
10,031.00	1.18	222.75	10,027.35	-98.83	-43.25	204.07	106.05	
10,126.00	1.28	228.05	10,122.32	-98.26	-44.70	204.46	107.95	
10,221.00	1.32	236.18	10,217.30	-99.58	-46.40	204.98	109.86	
10,316.00	1.18	226.56	10,312.28	-100.88	-48.02	205.46	111.71	
10,412.00	1.05	224.73	10,408.28	-102.16	-49.36	205.78	113.46	
10,507.00	0.96	212.53	10,503.25	-103.45	-50.40	205.97	115.08	
10,602.00	0.72	184.08	10,598.24	-104.72	-50.87	205.91	116.42	
10,698.00	0.24	160.99	10,694.23	-105.51	-50.84	205.73	117.12	

Regulatory Report (Grid North)



Company: Mator Resources
 Project: Eddy County, NM (NAD27 NME)
 Site: Black River SWD #1
 Well: Black River SWD #1
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference:
 TVD Reference:
 MD Reference:
 North Reference:
 Survey Calculation Method:
 Database:

Well Black River SWD #1
 KB= 28' @ 3154.00usft
 KB= 28' @ 3154.00usft
 Grid
 Minimum Curvature
 Midland District

Survey

MD (usft)	Inc (°)	Azi (azimuth) (bearing)	TVD (usft)	N/S (usft)	EW (usft)	Closure Azimuth (bearing)	Closure Distance (usft)
10,793.00	0.65	153.57	10,789.23	-108.18	-50.54	205.45	117.80
10,888.00	0.43	103.15	10,884.22	-108.75	-49.95	205.08	117.86
10,984.00	0.89	116.75	10,980.22	-107.18	-48.94	204.54	117.81
11,079.00	0.88	111.94	11,075.21	-107.80	-47.52	203.79	117.81
11,174.00	1.34	121.64	11,170.19	-108.69	-45.82	202.88	117.95
11,268.00	1.41	117.10	11,264.16	-109.79	-43.66	201.78	118.23
11,365.00	1.55	130.67	11,361.13	-111.19	-41.80	200.60	118.79
11,460.00	1.18	121.82	11,456.10	-112.54	-40.00	199.58	119.44
11,555.00	1.19	136.25	11,551.08	-113.77	-38.48	198.69	120.10
11,651.00	1.80	122.80	11,647.05	-115.21	-36.68	197.65	120.90
11,733.00	1.67	110.22	11,729.02	-116.24	-34.56	196.57	121.28
11,828.00	1.61	108.54	11,823.98	-117.10	-32.00	195.28	121.39
11,937.00	1.55	107.18	11,932.94	-117.97	-29.12	193.67	121.51
12,032.00	1.48	107.66	12,027.80	-118.73	-26.73	192.69	121.70
12,128.00	1.64	103.38	12,121.87	-119.41	-24.26	191.49	121.85
12,221.00	1.46	112.88	12,216.84	-120.20	-21.83	190.29	122.16
12,311.00	1.65	98.81	12,306.80	-120.83	-19.57	189.20	122.40
12,408.00	1.72	94.89	12,401.77	-121.15	-16.88	187.93	122.32
12,502.00	1.38	68.12	12,497.73	-120.84	-14.37	186.78	121.69
12,597.00	1.90	76.83	12,592.69	-120.08	-11.77	185.80	120.83
12,693.00	2.05	83.59	12,688.64	-119.50	-8.52	184.08	119.81
12,788.00	2.21	103.41	12,783.57	-119.74	-5.05	182.41	119.84
12,883.00	2.26	107.78	12,878.50	-120.73	-1.48	180.70	120.74
12,978.00	2.35	109.28	12,973.42	-121.95	2.14	178.99	121.97
13,074.00	2.20	109.70	13,068.35	-123.22	5.73	177.34	123.35
13,169.00	2.30	124.27	13,164.27	-124.91	9.02	175.67	125.23
13,250.00	1.73	121.06	13,245.22	-126.46	11.41	174.84	126.97
13,346.00	1.61	137.09	13,341.18	-128.19	13.57	173.96	128.91
13,441.00	1.61	159.44	13,436.15	-130.34	14.92	173.47	131.19
13,538.00	2.24	173.33	13,531.10	-133.36	15.58	173.34	134.28
13,645.00	3.01	183.98	13,639.98	-136.33	15.63	173.55	139.21
13,737.00	4.52	207.33	13,731.79	-143.98	13.80	174.53	144.62
13,828.00	5.16	212.08	13,822.46	-150.61	9.98	176.21	150.94
13,922.00	8.07	208.51	13,915.83	-159.99	4.58	176.36	160.06
13,985.00	10.30	204.62	13,978.02	-169.00	0.12	179.98	169.00
14,079.00	13.28	201.06	14,070.02	-188.72	-7.26	182.23	186.88
14,174.00	17.05	199.54	14,161.70	-210.03	-15.84	184.31	210.63
14,268.00	19.79	199.49	14,250.88	-236.03	-25.76	186.18	239.42
14,362.00	20.91	199.50	14,339.01	-268.84	-36.67	187.77	271.33
14,457.00	23.08	198.16	14,427.09	-302.52	-48.13	189.04	308.33
14,551.00	25.70	200.31	14,512.69	-339.15	-60.85	190.19	344.58
14,645.00	28.70	199.44	14,598.29	-379.68	-75.64	191.28	367.00
Final MWD Survey (14645.00' MD)							
14,734.00	28.70	199.44	14,674.35	-419.86	-89.77	192.07	429.35
Final Projection to Bit (14734.00' MD)							

Regulatory Report (Grid North)



Company:	Matador Resources	Local Co-ordinate Reference:	Well Black River SWD #1
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	KB= 28' @ 3154.00usft
Site:	Black River SWD #1	MD Reference:	KB= 28' @ 3154.00usft
Well:	Black River SWD #1	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland District

Survey

MD (usft)	Inc (°)	Azi.(azimuth) (bearing)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Azimuth (bearing)	Closure Distance (usft)
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Design Annotations

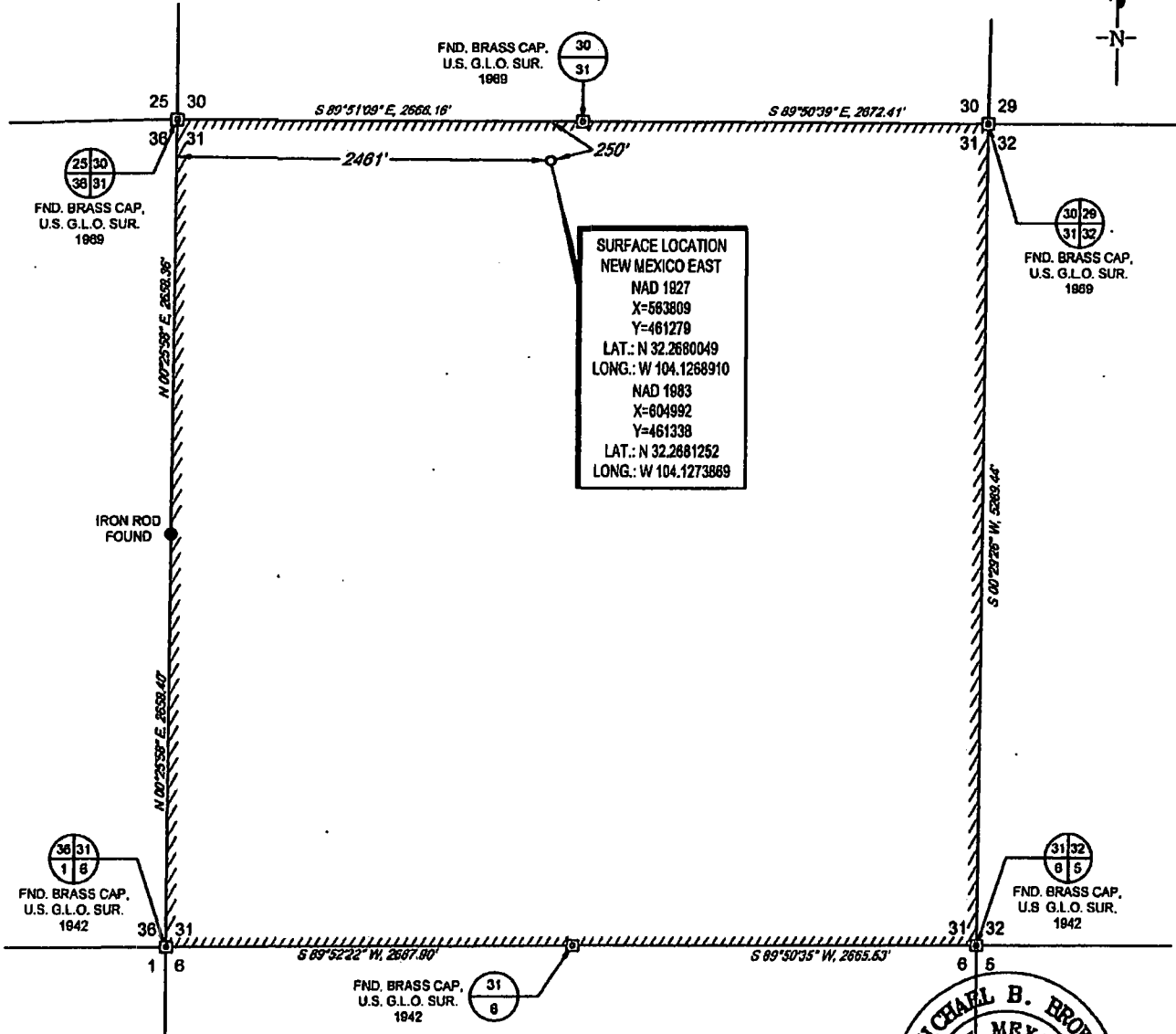
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N-S (usft)	+E-W (usft)	
14,845.00	14,598.29	-379.58	-75.54	Final MWD Survey (14845.00' MD)
14,734.00	14,674.35	-419.88	-89.77	Final Projection to Bit (14734.00' MD)

Checked By: _____	Approved By: _____	Date: _____
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SCALE: 1" = 1000'
0' 500' 1000'

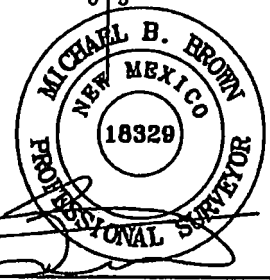


SECTION 31, TOWNSHIP 23-S, RANGE 28-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO



SURFACE LOCATION
NEW MEXICO EAST
NAD 1927
X=583809
Y=461279
LAT.: N 32.2680049
LONG.: W 104.1268910
NAD 1983
X=604992
Y=461338
LAT.: N 32.2681252
LONG.: W 104.1273889

LEASE NAME & WELL NO.: BLACK RIVER SWD #1
SECTION 31 TWP 23-S RGE 28-E SURVEY N.M.P.M.
COUNTY EDDY STATE NM
DESCRIPTION 250' FNL & 2461' FWL
DISTANCE & DIRECTION
FROM INT. OF US-285 & JAYDERS RD. GO SOUTH ON US-285
±0.8 MILE, THENCE WEST (RIGHT) ON HIGBY HOLE RD. ±0.4
MILES, THENCE WEST (RIGHT) ON BOUNDS RD. ±1.8 MILES, TO
A POINT ±1121 FEET SOUTH OF THE LOCATION.



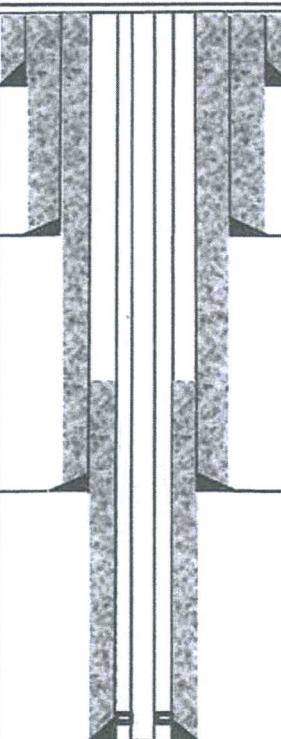
Michael Blake Brown, P.S. No. 18329
JUNE 10, 2016

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
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.

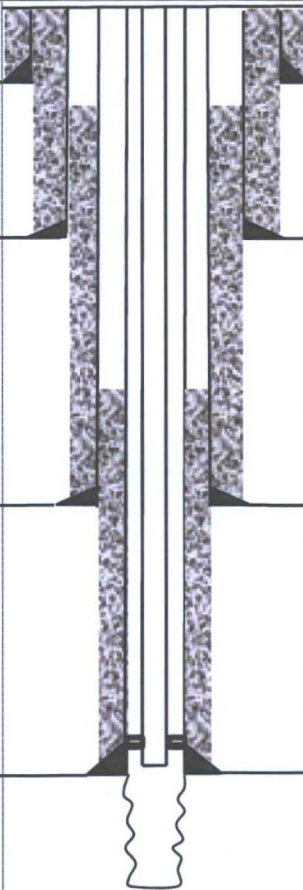
TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
1400 EVERMAN PARKWAY, Ste. 187 - FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 - FAX (817) 744-7548
2601 NORTH BIG SPRING - MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 OR (800) 767-1653 - FAX (432) 682-1743
WWW.TOPOGRAPHIC.COM

WELLBORE SCHEMATIC

30-15-43807

WELL: Black River SWD #1		PROSPECT: Devonian SWD		AFE No:			
GL ELEV : 3125' RKB ELEV :+KB		SURFACE LOCATION: N 32.2681252 W 104.1273869		BOTTOM HOLE LOCATION :			
Formation Tops (TVD)	Mud Weight	Logs	CASING DIAGRAM	Depth	Hole	Casing & Cement Details 30" Conductor @ ± 120'	BHA Details
Rustler Anhydrite @ xx'	8.4-8.5 PPG FW			598'	26"	Surf. Csg Cmt: Lead: Circulate to surface Tail: 20% critical 20", 94#, K-55, BTC	
Top of Salt Lamar @ 555' @ 2400'	10.0 PPG saturated brine	• Inc / Azi measurement		2465'	17 1/2"	1 st Int. Csg Cmt: Lead: Circulate to surface Tail: 20% critical 13 3/8", 68#, K55, BTC	
Bell Canyon @ 2450' Cherry Canyon @ 3270' Brushy Canyon @ 4465' Bone Spring Lime @ 5974' 1 st Bone Spring Sand @ 6990' 2 nd Bone Spring Carb @ 7204' 2 nd Bone Spring Sand @ 7614' 3 rd Bone Spring Carb @ 7829' 3 rd Bone Spring Sand @ 8974' Wolfcamp @ 9294'	8.4-9.0 PPG cut brine	• Inc / Azi measurement		9800'	12-1/4"	2 nd Int. Csg Cmt: Lead: Circulate to surface Tail: 20% critical 9 5/8", 53.5#, P110HC Alternative Drift BTC	
Blair Shale @ 10431' Wolfcamp D @ 10814' Strawn @ 11279' Atoka @ 11528' Morrow @ 12104' Barnett @ 12883' Miss Lime @ 13241' Woodford Shale @ 13594' Devonian Carb @ 13694'	10-12 PPG mud	• Inc / Azi measurement • Open hole Wireline logs		13,785'	8-1/2"	Prod Csg Cmt: Top of Lead: 7408' (verified with CBL) Top of Tail: 20% critical 7", 32#, P110HC, Alternative Drift BTC	
Devonian Dolomite @ 13844' Montoya @ 14704'	8.4-8.5 PPG FW	• Inc / Azi measurement • Open hole Wireline logs			6"	Tubing: 4 1/2" P110 IC 13.5 #, Fiberglass Lined BTC to 13,740' Packer set @ 13,740'	
Prepared By: AL – 10/26/16			TD @ 14,734' MD 14,675' TVD				

WELLBORE SCHEMATIC

WELL: Black River SWD #2		PROSPECT: Devonian SWD			AFE No:		
GL ELEV : ' RKB ELEV :+KB		SURFACE LOCATION:					
Formation Tops (TVD)	Mud Weight	Logs	CASING DIAGRAM	Depth	Hole	Casing & Cement Details 30" Conductor @ ± 120'	BHA Details
	8.4-8.5 PPG FW			550'	26"	Surf. Csg Cmt: Lead: Circulate to surface Tail: 20% critical 20", 94#, K-55, BTC	
Lamar @ 2405'	10.0 PPG saturated brine	• Inc / Azi measurement		2500'	17 1/2"	1st Int. Csg Cmt: Lead: Circulate to surface Tail: 20% critical 13 3/8", 68#, K55, BTC	
Bell Canyon @ 2438' Cherry Canyon @ 3248' Brushy Canyon @ 4390' Bone Spring Lime @ 5894' 1st Bone Spring Sand @ 6915' 2nd Bone Spring Carb @ 7188' 2nd Bone Spring Sand @ 7637' 3rd Bone Spring Carb @ 7837' 3rd Bone Spring Sand @ 8922' Wolfcamp @ 9257'	8.4-9.0 PPG cut brine	• Inc / Azi measurement		9350'	12-1/4"	2nd Int. Csg Cmt: Lead: Circulate to 1500' Tail: 20% critical 9 5/8", 53.5#, P110HC Alternative Drift BTC	
Wolfcamp B @ 9621' Wolfcamp D @ 10760' Strawn @ 11196' Atoka @ 11515' Morrow @ 12037' Barnett @ 13149' Miss Lime @ 13236' Woodford Shale @ 13594' Devonian Carb @ 13663'	10-12 PPG mud	• Inc / Azi measurement •Gamma Ray		13,670'	8-1/2"	Prod Csg Cmt: Top of Lead: 7800' Top of Tail: 20% critical 7", 29#, P110HC, Alternative Drift BTC	
Devonian Dolomite @ 13813' Montoya @ 14773'	8.4-8.5 PPG FW	• Inc / Azi measurement •Open hole Wireline logs •Gamma Ray				6"	Tubing: 5" 18#, P110IC, TC- 13,620'
Prepared By: AL – 3/15/17			TD @ 14,700' TVD				

State of New Mexico
Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

David Martin
Cabinet Secretary

Tony Delfin
Deputy Cabinet Secretary

David R. Catanach
Division Director
Oil Conservation Division



May 11, 2016

RECEIVED

MAY 16 2016

Black River Water Management Company, LLC
Attn: Ava Monroe
One Lincoln Centre
5400 LBJ Freeway, Suite 1500
Dallas, TX 75240

Re: \$50,000 Blanket Plugging Bond
Black River Water Management Company, LLC, Principal
Arch Insurance Company, Surety
Bond No. SU1138037

Dear Ms. Monroe:

The New Mexico Oil Conservation Division hereby approves the above-captioned blanket plugging bond.

Sincerely,

A handwritten signature in black ink, appearing to read "Denise Gallegos", is written over the typed name.

DENISE GALLEGOS
Bond Administrator

cc: Oil Conservation Division – Hobbs, Artesia and Aztec Districts

Arch Insurance Company
300 Plaza Three
Jersey City, NJ 07311
Attn: Jessica Richmond