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DEC 26 2017

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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED
OMB No. 1004-0137
Expires October 31, 20145. Lease Serial No.
NMNM080255

6. If Indian, Allottee or Tribe Name

1a. Type of work: ☒ DRILL ☐ REENTER

7. If Unit or CA Agreement, Name and No.

1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☐ Single Zone ☒ Multiple Zone8. Lease Name and Well No. (317673)
AIKMAN FEDERAL 22. Name of Operator
RAW OIL & GAS INCORPORATED

9. API Well No.

3a. Address
1415 Buddy Holly Avenue Lubbock TX 794013b. Phone No. (include area code)
(806)771-776610. Field and Pool, or Exploratory
SAWYER / SAN ANDRES

4. Location of Well (Report location clearly and in accordance with any State requirements.)*

At surface TR H / 1980 FNL / 660 FEL / LAT 32.521546 / LONG -103.099543

At proposed prod. zone TR H / 1980 FNL / 660 FEL / LAT 32.521546 / LONG -103.099543

11. Sec., T. R. M. or Blk. and Survey or Area

SEC 24 / T9S / R37E / NMP

14. Distance in miles and direction from nearest town or post office*
9.1 miles12. County or Parish
LEA13. State
NM15. Distance from proposed*
location to nearest
property or lease line, ft.
(Also to nearest drg. unit line, if any)
660 feet16. No. of acres in lease
12017. Spacing Unit dedicated to this well
4018. Distance from proposed location*
to nearest well, drilling, completed, 1320 feet
applied for, on this lease, ft.19. Proposed Depth
5100 feet / 5100 feet20. BLM/BIA Bond No. on file
FED: NMB00143121. Elevations (Show whether DF, KDB, RT, GL, etc.)
3962 feet22. Approximate date work will start*
09/01/201723. Estimated duration
45 days

24. Attachments

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

1. Well plat certified by a registered surveyor.

2. A Drilling Plan.

3. A Surface Use Plan (if the location is on National Forest System Lands, the
SUPO must be filed with the appropriate Forest Service Office).4. Bond to cover the operations unless covered by an existing bond on file (see
Item 20 above).

5. Operator certification

6. Such other site specific information and/or plans as may be required by the
BLM.

25. Signature

(Electronic Submission)

Name (Printed/Typed)

Curtis Griffin / Ph: (575)390-4693

Date

06/29/2017

Title

Surface Consultant - Agent

Approved by (Signature)

(Electronic Submission)

Name (Printed/Typed)

Bobby Ballard / Ph: (575)234-2235

Date

12/20/2017

Title

Natural Resource Specialist

Office

CARLSBAD

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to
conduct operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United
States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 2)

*(Instructions on page 2)

APPROVED WITH CONDITIONS
Approval Date: 12/20/2017Kz
01/02/18Double
sided

U.S. Department of the Interior
Bureau of Land Management

Application for Permit to Drill

APD Package Report

Date Printed: 12/21/2017 08:00 AM

APD ID: 10400014705

Well Status: AAPD

APD Received Date: 06/29/2017 04:20 PM

Well Name: AIKMAN FEDERAL

Operator: RAW OIL & GAS INCORPORATED

Well Number: 2

APD Package Report Contents

- Form 3160-3
- Operator Certification Report
- Application Report
- Application Attachments
 - Well Plat: 4 file(s)
- Drilling Plan Report
- Drilling Plan Attachments
 - Blowout Prevention Choke Diagram Attachment: 1 file(s)
 - Blowout Prevention BOP Diagram Attachment: 1 file(s)
 - Casing Design Assumptions and Worksheet(s): 2 file(s)
 - Hydrogen sulfide drilling operations plan: 1 file(s)
- SUPO Report
- SUPO Attachments
 - Existing Road Map: 3 file(s)
 - New Road Map: 2 file(s)
 - Additional Attachment: 1 file(s)
 - Attach Well map: 1 file(s)
 - Production Facilities map: 1 file(s)
 - Water source and transportation map: 1 file(s)
 - Construction Materials source location attachment: 1 file(s)
 - Well Site Layout Diagram: 1 file(s)
 - Surface use plan certification document: 1 file(s)
- PWD Report
- PWD Attachments
 - None
- Bond Report
- Bond Attachments

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

Operator Certification Data Report

12/21/2017

Operator Certification

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

NAME: Curtis Griffin

Signed on: 06/23/2017

Title: Surface Consultant - Agent

Street Address: 5193 Bright Sky Rd.

City: Roswell

State: NM

Zip: 88201

Phone: (575)390-4693

Email address: curtisgriffin@gmail.com

Field Representative

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Email address:



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

Application Data Report

12/21/2017

APD ID: 10400014705

Submission Date: 06/29/2017

Highlighted data
reflects the most
recent changes

Operator Name: RAW OIL & GAS INCORPORATED

Well Name: AIKMAN FEDERAL

Well Number: 2

[Show Final Text](#)

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - General

APD ID: 10400014705

Tie to previous NOS? 10400012693

Submission Date: 06/29/2017

BLM Office: CARLSBAD

User: Curtis Griffin

Title: Surface Consultant - Agent

Federal/Indian APD: FED

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

Lease number: NMNM080255

Lease Acres: 120

Surface access agreement in place?

Allotted?

Reservation:

Agreement in place? NO

Federal or Indian agreement:

Agreement number:

Agreement name:

Keep application confidential? NO

Permitting Agent? YES

APD Operator: RAW OIL & GAS INCORPORATED

Operator letter of designation:

Operator Info

Operator Organization Name: RAW OIL & GAS INCORPORATED

Operator Address: 1415 Buddy Holly Avenue

Zip: 79401

Operator PO Box:

Operator City: Lubbock

State: TX

Operator Phone: (806)771-7766

Operator Internet Address: rawoilandgas@raw-energy.net

Section 2 - Well Information

Well in Master Development Plan? NO

Master Development Plan name:

Well in Master SUPO? NO

Master SUPO name:

Well in Master Drilling Plan? NO

Master Drilling Plan name:

Well Name: AIKMAN FEDERAL

Well Number: 2

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: SAWYER

Pool Name: SAN ANDRES

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

Operator Name: RAW OIL & GAS INCORPORATED

Well Name: AIKMAN FEDERAL

Well Number: 2

Describe other minerals:

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

Type of Well Pad: SINGLE WELL

Multiple Well Pad Name:

Number:

Well Class: VERTICAL

Number of Legs: 1

Well Work Type: Drill

Well Type: OIL WELL

Describe Well Type:

Well sub-Type: INFILL

Describe sub-type:

Distance to town: 9.1 Miles

Distance to nearest well: 1320 FT

Distance to lease line: 660 FT

Reservoir well spacing assigned acres Measurement: 40 Acres

Well plat: 0123_Topographical__Access_Rd_Aikman_Federal__2_Rev_5_25_17_06-16-2017.pdf

0123_Vicinity_Map_Aikman_Federal__2_Rev_5_25_17_06-16-2017.pdf

0123_Well_Site_Plan__600s__Aikman_Federal__2_Rev_5_25_17_06-16-2017.pdf

0123_C_102_Aikman_Federal__2_Rev_5_25_17_20170907125848.pdf

Well work start Date: 09/01/2017

Duration: 45 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83

Vertical Datum: NAVD88

Survey number: N.M.P.M.

	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD
SHL Leg #1	198 0	FNL	660	FEL	9S	37E	24	Tract H	32.52154 6	- 103.0995 43	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 080255	396 2	510 0	510 0
BHL Leg #1	198 0	FNL	660	FEL	9S	37E	24	Tract H	32.52154 6	- 103.0995 43	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 080255	396 2	510 0	510 0

Operator Name: RAW OIL & GAS INCORPORATED

Well Name: AIKMAN FEDERAL

Well Number: 2

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	CONDUCTOR	20	16.0	NEW	API	N	0	40	0	40	3962	3922	40	H-40	65.5	STC						
2	SURFACE	12.25	8.625	NEW	API	N	0	1800	0	1800	3962	2162	1800	J-55	24	STC	1.125	1	BUOY	1.8	BUOY	1.8
3	PRODUCTION	7.875	5.5	NEW	API	N	0	5100	0	5100	3962	-1138	5100	J-55	15.5	LTC	1.125	1	BUOY	1.8	BUOY	1.8

Casing Attachments

Casing ID: 1 String Type: CONDUCTOR

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Casing ID: 2 String Type: SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

DOC149_06-16-2017.pdf

Operator Name: RAW OIL & GAS INCORPORATED

Well Name: AIKMAN FEDERAL

Well Number: 2

Casing Attachments

Casing ID: 3 String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

DOC149_06-16-2017.pdf

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
CONDUCTOR	Lead		0	40	100	1.35	14.8	134.8	100	Class C	1% CaCL
CONDUCTOR	Tail										none
SURFACE	Lead		0	1500	725	1.7	13.7	1238	100	EXTENDACEM (TM)	220 BBLs of water. 1% CaCl
SURFACE	Tail		1500	1800	195	1.35	14.8	248	100	HALCHEM	1% CaCL
PRODUCTION	Lead		0	4100	575	12.6	12.6	1.61	100	NeoChem	0.125 Poly-E-Flake
PRODUCTION	Tail		4100	5100	165	1.4	13.2	231.16	100	NeoChem TM	0.125 lbm/sk Poly-E-Flake

Operator Name: RAW OIL & GAS INCORPORATED

Well Name: AIKMAN FEDERAL

Well Number: 2

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

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

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

Describe what will be on location to control well or mitigate other conditions: Extra steel pit volume

Describe the mud monitoring system utilized: Pit volume monitors

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	1800	WATER-BASED MUD	8.5	10	12	0.8	10	25	40000	15	Fresh water mud system
1800	5100	SALT SATURATED	9.5	10	30	0.4	10	25	150000	10	

Section 6 - Test, Logging, Coring

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

Potential test.

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

CALIPER,CBL,CNL,DLL,EL,MUDLOG

Coring operation description for the well:

None

Operator Name: RAW OIL & GAS INCORPORATED

Well Name: AIKMAN FEDERAL

Well Number: 2

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 2652

Anticipated Surface Pressure: 1530

Anticipated Bottom Hole Temperature(F): 150

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

Describe:

Contingency Plans geohazards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

Contingency_Plan_20171007082440.pdf

Section 8 - Other Information

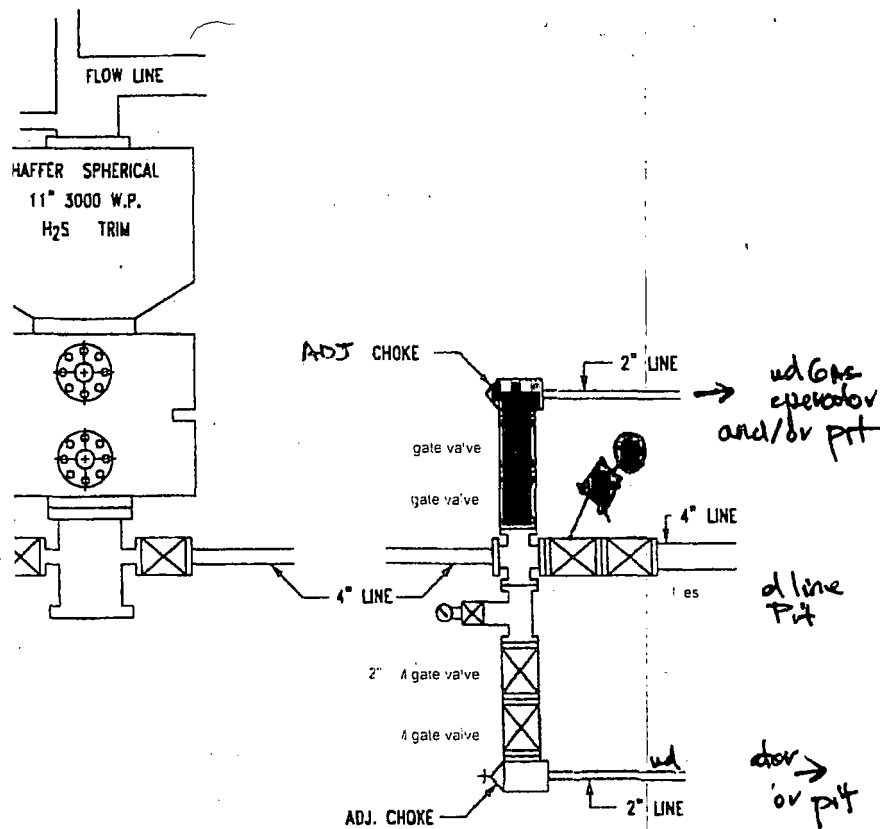
Proposed horizontal/directional/multi-lateral plan submission:

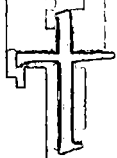
Other proposed operations facets description:

None

Other proposed operations facets attachment:

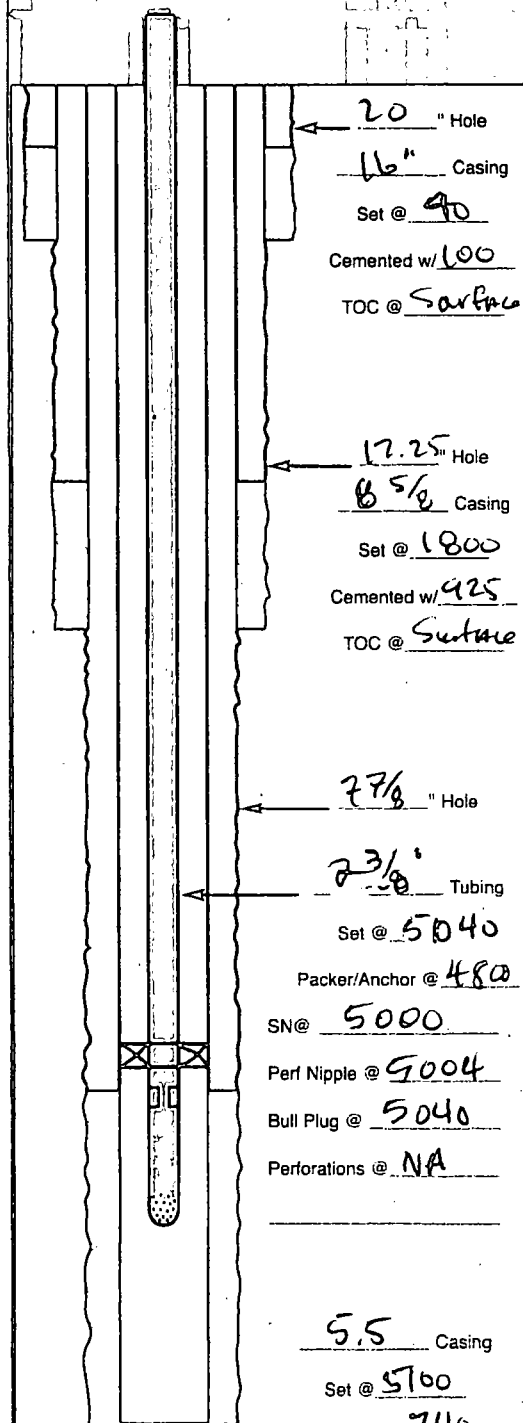
Other Variance attachment:





trpon

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Pipe
Pipe
ural



20" Hole

16" Casing

Set @ 90

Cemented w/ 100

TOC @ Surface

17.25" Hole

8 5/8" Casing

Set @ 1800

Cemented w/ 925

TOC @ Surface

2 7/8" Hole

2 3/8" Tubing

Set @ 5040

Packer/Anchor @ 4800

SN @ 5000

Perf Nipple @ 5004

Bull Plug @ 5040

Perforations @ NA

5.5" Casing

Set @ 5700

Cemented w/ 740

TOC @ Surface



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

SUPO Data Report

12/21/2017

APD ID: 10400014705

Submission Date: 06/29/2017

Operator Name: RAW OIL & GAS INCORPORATED

Highlighted data
reflects the most
recent changes

Well Name: AIKMAN FEDERAL

Well Number: 2

[Show Final Text](#)

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

0123_Topographical__Access_Rd_Aikman_Federal__2_Rev_5_25_17_06-16-2017.pdf

Aikman__2_roads_20171009112223.jpg

17130938_Access_Rd_to_the_Aikman_Fed__2_20171009112420.pdf

Existing Road Purpose: ACCESS,FLUID TRANSPORT

Row(s) Exist? NO

ROW ID(s)

ID:

Do the existing roads need to be improved? NO

Existing Road Improvement Description:

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

0123_Topographical__Access_Rd_Aikman_Federal__2_Rev_5_25_17_06-16-2017.pdf

17130938_Access_Rd_to_the_Aikman_Fed__2_20171009112521.pdf

New road type: LOCAL

Length: 583

Feet

Width (ft.): 20

Max slope (%): 1

Max grade (%): 1

Army Corp of Engineers (ACOE) permit required? NO

ACOE Permit Number(s):

New road travel width: 16

New road access erosion control: Water diversions

New road access plan or profile prepared? NO

New road access plan attachment:

Operator Name: RAW OIL & GAS INCORPORATED

Well Name: AIKMAN FEDERAL

Well Number: 2

Access road engineering design? NO

Access road engineering design attachment:

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: Dozer

Access other construction information:

Access miscellaneous information:

Number of access turnouts:

Access turnout map:

Drainage Control

New road drainage crossing: OTHER

Drainage Control comments: Diversions as needed

Road Drainage Control Structures (DCS) description: Diversions as needed

Road Drainage Control Structures (DCS) attachment:

Access Additional Attachments

Additional Attachment(s):

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

Aikman__2__radius_20171009112605.jpg

Existing Wells description: Aikman Fed #1 660 FNL 660 FEL

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

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description: Flowline to existing Battery

Production Facilities map:

aikman__2__flowline_rt_20171018101358.pdf

Operator Name: RAW OIL & GAS INCORPORATED

Well Name: AIKMAN FEDERAL

Well Number: 2

Section 5 - Location and Types of Water Supply

Water Source Table

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

Describe type: Trucked from Water Station approx. 1 Mile South of
Crossroads, NM. Private source (Stearns Inc.)

Source latitude:

Water source type: OTHER

Source longitude:

Source datum:

Water source permit type: PRIVATE CONTRACT

Source land ownership: PRIVATE

Water source transport method: TRUCKING

Source transportation land ownership: PRIVATE

Water source volume (barrels): 2380.9524

Source volume (acre-feet): 0.3068883

Source volume (gal): 100000

Water source and transportation map:

Aikman__2_water_rt_20171009120737.pdf

Water source comments:

New water well? NO

New Water Well Info

Well latitude:

Well Longitude:

Well datum:

Well target aquifer:

Est. depth to top of aquifer(ft):

Est thickness of aquifer:

Aquifer comments:

Aquifer documentation:

Well depth (ft):

Well casing type:

Well casing outside diameter (in.):

Well casing inside diameter (in.):

New water well casing?

Used casing source:

Drilling method:

Drill material:

Grout material:

Grout depth:

Casing length (ft.):

Casing top depth (ft.):

Well Production type:

Completion Method:

Water well additional information:

State appropriation permit:

Operator Name: RAW OIL & GAS INCORPORATED

Well Name: AIKMAN FEDERAL

Well Number: 2

Additional information attachment:

Section 6 - Construction Materials

Construction Materials description: Caliche

Construction Materials source location attachment:

Caliche_Route_20171010145509.pdf

Section 7 - Methods for Handling Waste

Waste type: DRILLING

Waste content description: Cuttings

Amount of waste: 50000 barrels

Waste disposal frequency : Daily

Safe containment description: Non Hazardous drill cuttings

Safe containmant attachment:

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

Disposal type description:

Disposal location description: Gandy Marley Landfarm - Highway 380

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit?

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

Reserve pit depth (ft.) **Reserve pit volume (cu. yd.)**

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

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? NO

Description of cuttings location

Cuttings area length (ft.) **Cuttings area width (ft.)**

Cuttings area depth (ft.) **Cuttings area volume (cu. yd.)**

Operator Name: RAW OIL & GAS INCORPORATED

Well Name: AIKMAN FEDERAL

Well Number: 2

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:

Rig_layout_and_reclamation_20171018102236.pdf

Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name:

Multiple Well Pad Number:

Recontouring attachment:

Drainage/Erosion control construction: Water diversions as needed

Drainage/Erosion control reclamation: Conform with adjacent landforms to facilitate vegetation growth

Wellpad long term disturbance (acres): 1.75

Wellpad short term disturbance (acres): 2.1

Access road long term disturbance (acres): 0.27

Access road short term disturbance (acres): 0.27

Pipeline long term disturbance (acres): 0.09090909

Pipeline short term disturbance (acres): 0.3030303

Other long term disturbance (acres): 0

Other short term disturbance (acres): 0

Total long term disturbance: 2.110909

Total short term disturbance: 2.6730304

Reconstruction method: Remove caliche from reclamation areas and add topsoil to conform with adjacent landform

Topsoil redistribution: Remove caliche from reclamation areas and add topsoil to conform with adjacent landform

Soil treatment: none

Existing Vegetation at the well pad: Shinnery oak

Existing Vegetation at the well pad attachment:

Operator Name: RAW OIL & GAS INCORPORATED

Well Name: AIKMAN FEDERAL

Well Number: 2

Existing Vegetation Community at the road: Shinnery oak

Existing Vegetation Community at the road attachment:

Existing Vegetation Community at the pipeline: Shinnery oak

Existing Vegetation Community at the pipeline attachment:

Existing Vegetation Community at other disturbances: Shinnery oak

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 source:

Seed name:

Source name:

Source address:

Source phone:

Seed cultivar:

Seed use location:

PLS pounds per acre:

Proposed seeding season:

Seed Summary

Total pounds/Acre:

Seed Type

Pounds/Acre

Seed reclamation attachment:

Operator Name: RAW OIL & GAS INCORPORATED

Well Name: AIKMAN FEDERAL

Well Number: 2

Operator Contact/Responsible Official Contact Info

First Name:

Last Name:

Phone:

Email:

Seedbed prep:

Seed BMP:

Seed method:

Existing invasive species? NO

Existing invasive species treatment description:

Existing invasive species treatment attachment:

Weed treatment plan description: Spray as needed

Weed treatment plan attachment:

Monitoring plan description: Checked weekly by lease operator

Monitoring plan attachment:

Success standards: N/A

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:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Operator Name: RAW OIL & GAS INCORPORATED

Well Name: AIKMAN FEDERAL

Well Number: 2

Fee Owner: David A. Bilbrey

Fee Owner Address: 84 Brown LN

Phone: (575)398-6603

Email:

Surface use plan certification: YES

Surface use plan certification document:

SUA_certification_20171018191716.pdf

Surface access agreement or bond: Agreement

Surface Access Agreement Need description: Surface Use Agreement in place with Mr Bilbrey.

Surface Access Bond BLM or Forest Service:

BLM Surface Access Bond number:

USFS Surface access bond number:

Section 12 - Other Information

Right of Way needed? NO

Use APD as ROW?

ROW Type(s):

ROW Applications

SUPO Additional Information:

Use a previously conducted onsite? NO

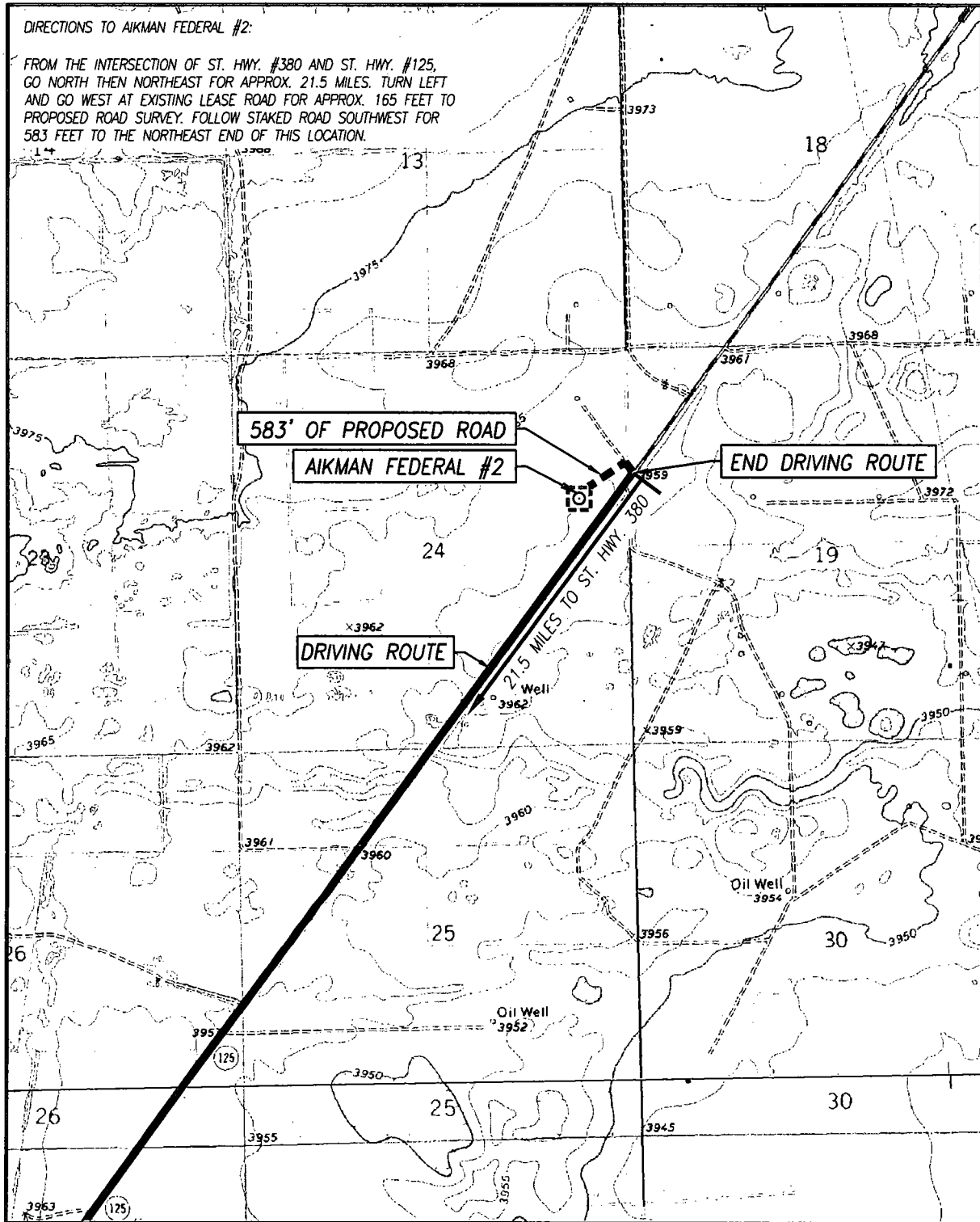
Previous Onsite information:

Other SUPO Attachment

TOPOGRAPHIC AND ACCESS ROAD MAP

DIRECTIONS TO AIKMAN FEDERAL #2:

FROM THE INTERSECTION OF ST. HWY. #380 AND ST. HWY. #125, GO NORTH THEN NORTHEAST FOR APPROX. 21.5 MILES. TURN LEFT AND GO WEST AT EXISTING LEASE ROAD FOR APPROX. 165 FEET TO PROPOSED ROAD SURVEY. FOLLOW STAKED ROAD SOUTHWEST FOR 583 FEET TO THE NORTHEAST END OF THIS LOCATION.



SEC. 24 TWP. 9-S RGE. 37-E
 COUNTY LEA STATE NEW MEXICO
 DESCRIPTION 1980' FNL & 660' FEL
 ELEVATION 3962'
 OPERATOR RAW OIL & GAS, INC.
 LEASE AIKMAN FEDERAL
 U.S.G.S. TOPOGRAPHIC MAP
 BLED SOE, N.M. SURVEY N.M.P.M.

SCALE: 1" = 2000'

CONTOUR INTERVAL:
 BLED SOE, N.M. - 5'

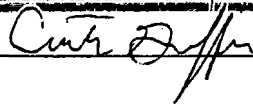


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 (575) 393-3117 www.jwsc.biz
 TBPLS# 10021000

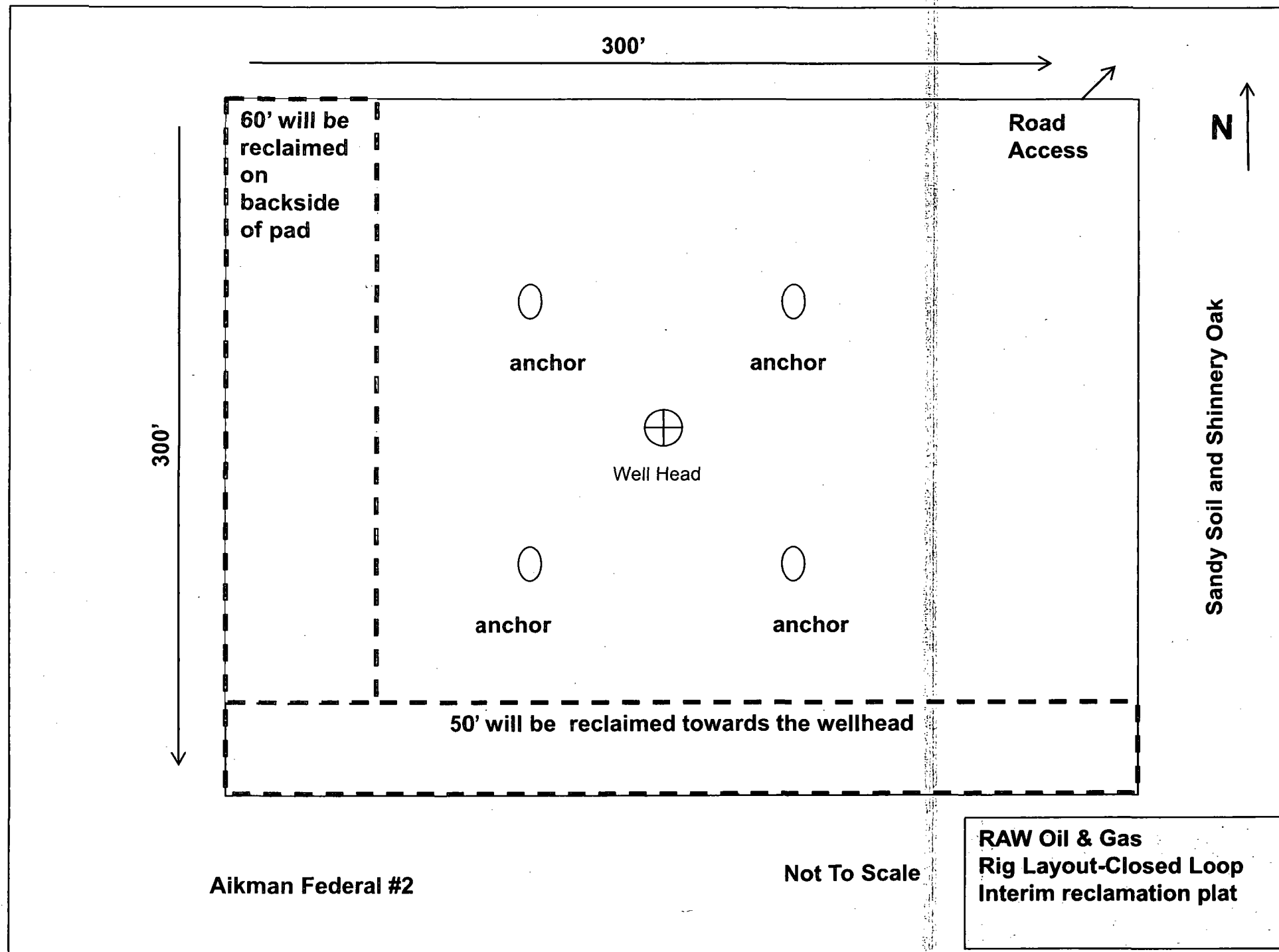
To Whom It May Concern,

I, Curtis Griffin, acting as agent for Raw Oil and Gas, Inc., do hereby certify that a surface use agreement is in place between Raw Oil and Gas, Inc. and David Bilbrey (Surface Owner). This agreement is for proposed wells to be drilled in Section 24, Township 9 South, Range 37 East and Section 30, Township 9 South, Range 38 East in Lea County, NM. This agreement allows for the construction of pads and infrastructure to drill, produce and maintain said wells.

Curtis Griffin, Agent

A handwritten signature in black ink, appearing to read "Curtis Griffin", is written over a horizontal line.

10/18/2017





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

Drilling Plan Data Report

12/21/2017

APD ID: 10400014705

Submission Date: 06/29/2017

Highlighted data
reflects the most
recent changes

Operator Name: RAW OIL & GAS INCORPORATED

Well Name: AIKMAN FEDERAL

Well Number: 2

[Show Final Text](#)

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
1	---	3962	0	0	OTHER	NONE	No
2	RUSTLER	2202	1760	1760	MUDSTONE, DOLOMITE, ANHYDRITE	NONE	No
3	YATES	1052	2910	2910	SHALE, MUDSTONE, SANDSTONE, ANHYDRITE	NONE	No
4	GRAYBURG	47	3915	3915	SHALE, DOLOMITE	NONE	No
5	SAN ANDRES UPPER	-828	4790	4790	LIMESTONE, SHALE, SANDSTONE, DOLOMITE, SALT, ANHYDRITE, GYP SUM	USEABLE WATER, NATURAL GAS, OIL	Yes
6	SAN ANDRES LOWER	-1138	5100	5100	DOLOMITE	OIL	Yes

Section 2 - Blowout Prevention

Pressure Rating (PSI): 3M

Rating Depth: 5100

Equipment: 11 inch Shaffer 3000 psig working pressure. H2S Trim

Requesting Variance? NO

Variance request:

Testing Procedure: Testing will be third party. Low pressure - 250 psig. High Pressure will be as Onshore Order #2. We will not use a flex choke line.

Choke Diagram Attachment:

DOC008_20171017164535.pdf

BOP Diagram Attachment:

DOC008_20171017164707.pdf



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

PWD Data Report

12/21/2017

Section 1 - General

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

Section 2 - Lined Pits

Would you like to utilize Lined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit specifications:

Pit liner description:

Pit liner manufacturers information:

Precipitated solids disposal:

Describe precipitated solids disposal:

Precipitated solids disposal permit:

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule attachment:

Lined pit reclamation description:

Lined pit reclamation attachment:

Leak detection system description:

Leak detection system attachment:

Lined pit Monitor description:

Lined pit Monitor attachment:

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

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information attachment:

Section 3 - Unlined Pits

Would you like to utilize Unlined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit specifications:

Precipitated solids disposal:

Describe precipitated solids disposal:

Precipitated solids disposal permit:

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule attachment:

Unlined pit reclamation description:

Unlined pit reclamation attachment:

Unlined pit Monitor description:

Unlined pit Monitor attachment:

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

Beneficial use user confirmation:

Estimated depth of the shallowest aquifer (feet):

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

TDS lab results:

Geologic and hydrologic evidence:

State authorization:

Unlined Produced Water Pit Estimated percolation:

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

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information attachment:

Section 4 - Injection

Would you like to utilize Injection PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

Injection well type:

Injection well number:

Injection well name:

Assigned injection well API number?

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:

PWD disturbance (acres):

Surface discharge PWD discharge volume (bbl/day):

Surface Discharge NPDES Permit?

Surface Discharge NPDES Permit attachment:

Surface Discharge site facilities information:

Surface discharge site facilities map:

Section 6 - Other

Would you like to utilize Other PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Other PWD discharge volume (bbl/day):

Other PWD type description:

Other PWD type attachment:

Have other regulatory requirements been met?

Other regulatory requirements attachment:



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

Bond Info Data Report

12/21/2017

Bond Information

Federal/Indian APD: FED

BLM Bond number: NMB001431

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond attachment:

Reclamation bond number:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment: