



APD ID: 10400011685

Submission Date: 02/21/2017

Highlighted data reflects the most recent changes

Operator Name: OXY USA INCORPORATED

Well Name: MESA VERDE 17-8 FEDERAL COM

Well Number: 24H

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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 | RUSTLER | 3559 | 886 | 886 | SHALE, DOLOMITE, ANHYDRITE | USEABLE WATER | No |
| 2 | SALADO | 2351 | 1208 | 1208 | SHALE, DOLOMITE, HALITE, ANHYDRITE | OTHER : SALT | No |
| 3 | LAMAR | -1163 | 4722 | 4722 | LIMESTONE, SANDSTONE, SILTSTONE | NATURAL GAS, OIL, OTHER : BRINE | No |
| 4 | BELL CANYON | -1210 | 4769 | 4773 | SANDSTONE, SILTSTONE | NATURAL GAS, OIL, OTHER : | No |
| 5 | CHERRY CANYON | -1957 | 5516 | 5531 | SANDSTONE, SILTSTONE | NATURAL GAS, OIL, OTHER : | No |
| 6 | BRUSHY CANYON | -3343 | 6902 | 6939 | LIMESTONE, SANDSTONE, SILTSTONE | NATURAL GAS, OIL, OTHER : BRINE | No |
| 7 | BONE SPRING | -5030 | 8589 | 8650 | LIMESTONE, SANDSTONE, SILTSTONE | NATURAL GAS, OIL | No |

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M

Rating Depth: 9400

Equipment: 13-5/8" 5M Annular, Blind Ram, Double Ram

Requesting Variance? YES

Variance request: Request for the use of a flexible choke line from the BOP to Choke Manifold.

Testing Procedure: BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested. Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. A multibowl wellhead or a unionized multibowl wellhead system will be employed. The wellhead and connection to the BOPE will meet all API 6A requirements. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system will be tested. We will test the flange connection of the wellhead with a test port that is directly in the flange. We are proposing that we will run the wellhead through the rotary prior to cementing surface casing as discussed with the BLM on October 8, 2015.

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Choke Diagram Attachment:

MesaVerde17-8FdCom24H_ChkManifold(5M)_02-21-2017.pdf

BOP Diagram Attachment:

MesaVerde17-8FdCom24H_FlexHoseCert_02-21-2017.pdf

MesaVerde17-8FdCom24H_BOP(5M13-58)_02-21-2017.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 | 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 | N | 0 | 936 | 0 | 936 | | | 936 | J-55 | 54.5 | BUTT | 4.47 | 1.31 | BUOY | 2.59 | BUOY | 2.42 |
| 2 | INTERMEDIATE | 12.25 | 9.625 | NEW | API | N | 0 | 4772 | 0 | 4772 | | | 4772 | J-55 | 36 | BUTT | 3.09 | 1.22 | BUOY | 1.91 | BUOY | 1.67 |
| 3 | PRODUCTION | 8.5 | 5.5 | NEW | API | N | 0 | 19550 | 0 | 9360 | | | 19550 | P-110 | 20 | OTHER - DQX | 1.58 | 1.2 | BUOY | 2.41 | BUOY | 2.16 |

Casing Attachments

Casing ID: 1 **String Type:** SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

MesaVerde17-8FdCom24H_CsgCriteria_02-21-2017.pdf

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Casing Attachments

Casing ID: 2 String Type: INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

MesaVerde17-8FdCom24H_CsgCriteria_02-21-2017.pdf

Casing ID: 3 String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

MesaVerde17-8FdCom24H_CsgCriteria_02-21-2017.pdf

MesaVerde17-8FdCom24H_5.5-20-P110DQX_02-21-2017.pdf

Section 4 - Cement

| String Type | Lead/Tail | Stage Tool | Top MD | Bottom MD | Quantity(sx) | Yield | Density | Cu Ft | Excess% | Cement type | Additives |
|-------------|-----------|------------|--------|-----------|--------------|-------|---------|-------|---------|----------------|-------------|
| SURFACE | Lead | | 0 | 936 | 750 | 1.35 | 14.8 | 1013 | 50 | Class C Cement | Accelerator |

| | | | | | | | | | | | |
|--------------|------|--|------|------|------|------|------|------|----|----------------|----------------------------|
| INTERMEDIATE | Lead | | 0 | 4272 | 1247 | 1.74 | 12.9 | 2170 | 75 | Poz/C Cement | Retarder |
| INTERMEDIATE | Tail | | 4272 | 4772 | 156 | 1.33 | 14.8 | 207 | 20 | Class C Cement | Retarder, Dispersant, Salt |

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| String Type | Lead/Tail | Stage Tool | Top MD | Bottom MD | Quantity(sx) | Yield | Density | Cu Ft | Excess% | Cement type | Additives |
|-------------|-----------|------------|--------|-----------|--------------|-------|---------|-------|---------|----------------|------------------------------|
| PRODUCTION | Lead | | 4272 | 8288 | 506 | 3.06 | 10.2 | 1548 | 75 | Class C Cement | Retarder |
| PRODUCTION | Tail | | 8288 | 1955 0 | 1823 | 1.63 | 13.2 | 2971 | 15 | Class H Cement | Retarder, Disperant, Salt |

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: Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements. The following is a general list of products: Barite, Bentonite, Gypsum, Lime, Soda Ash, Caustic Soda, Nut Plug, Cedar Fiber, Cotton Seed Hulls, Drilling Paper, Salt Water Clay, CaCl₂.

Describe the mud monitoring system utilized: PVT/MD Totco/Visual Monitoring

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 |
|-----------|--------------|-----------------|----------------------|----------------------|---------------------|-----------------------------|----|----------------|----------------|-----------------|----------------------------|
| 936 | 4772 | OTHER : Brine | 9.8 | 10 | | | | | | | |
| 0 | 936 | WATER-BASED MUD | 8.4 | 8.6 | | | | | | | |
| 4772 | 8688 | WATER-BASED MUD | 8.8 | 9.6 | | | | | | | |
| 8688 | 1955 0 | OIL-BASED MUD | 8.8 | 9.6 | | | | | | | |

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Section 6 - Test, Logging, Coring

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

GR from TD to surface (horizontal well – vertical portion of hole). Mud Log from Surface casing shoe to TD.

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

GR,MUDLOG

Coring operation description for the well:

No coring is planned at this time.

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 4693

Anticipated Surface Pressure: 2633.58

Anticipated Bottom Hole Temperature(F): 156

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:

MesaVerde17-8FdCom24H_H2S1_02-21-2017.pdf

MesaVerde17-8FdCom24H_H2S2_02-21-2017.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

MesaVerde17-8FdCom24H_DirectPlan_02-21-2017.pdf

MesaVerde17-8FdCom24H_DirectPlot_02-21-2017.pdf

Other proposed operations facets description:

Well will be drilled with a walking/skidding operation. Plan to drill the two well pad in batch by section: all surface sections, intermediate sections and production sections. The wellhead will be secured with a night cap whenever the rig is not over the well.

OXY requests the option to set casing shallower yet still below the salts if losses or hole conditions require this. Cement volumes may be adjusted if casing is set shallower and a DV tool will be run in case a contingency second stage is required for cement to reach surface. If cement circulated to surface during first stage we will drop a cancelation cone and not pump the second stage.

OXY requests the option to contract a Surface Rig to drill, set surface casing, and cement for this well. If the timing between rigs is such that OXY would not be able to preset surface, the Primary Rig will MIRU and drill the well in its entirety per the APD. See attached for additional spudder rig information.

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Other proposed operations facets attachment:

MesaVerde17-8FdCom24H_DrillPlan_02-21-2017.pdf

MesaVerde17_8FdCom24H_SpudRigData_07-18-2017.pdf

Other Variance attachment:



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Well Type: OIL WELL

Well Work Type: Drill

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

MesaVerde17-8FdCom24H_ExistRoads_02-21-2017.pdf

Existing Road Purpose: 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:

MesaVerde17-8FdCom24H_NewRoad_02-21-2017.pdf

New road type: LOCAL

Length: 4567 Feet Width (ft.): 25

Max slope (%): 0 Max grade (%): 0

Army Corp of Engineers (ACOE) permit required? NO

ACOE Permit Number(s):

New road travel width: 14

New road access erosion control: Watershed Diversion every 200' if needed.

New road access plan or profile prepared? YES

New road access plan attachment:

MesaVerde17-8FdCom24H_NewRoad_02-21-2017.pdf

Access road engineering design? NO

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Access road engineering design attachment:

Access surfacing type: OTHER

Access topsoil source: ONSITE

Access surfacing type description: Caliche

Access onsite topsoil source depth: 0

Offsite topsoil source description:

Onsite topsoil removal process: If available

Access other construction information: None

Access miscellaneous information: The access road will go east for 4488.9' and then 78.1' north through a pasture to the southwest corner of pad.

Number of access turnouts:

Access turnout map:

Drainage Control

New road drainage crossing: CULVERT

Drainage Control comments: Watershed Diversion every 200' if needed.

Road Drainage Control Structures (DCS) description: Watershed Diversion every 200' if 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:

MesaVerde17-8FdCom24H_ExistWells_02-21-2017.pdf

Existing Wells description:

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

Submit or defer a Proposed Production Facilities plan? SUBMIT

Estimated Production Facilities description:

Production Facilities description: a. In the event the well is found productive, the Mesa Verde Federal central tank battery would be utilized and the necessary production equipment will be installed at the well site. See proposed facilities layout diagram. b. All flow lines will adhere to API standards. They will consist of 2 – 4" composite flowlines operating 75% MAWP, surface and 1 – 6" steel gas lift supply line operating 1500 psig, buried, lines to follow surveyed route. Survey of a strip of land 30' wide and 7131.1' in length crossing USA Land in Sections 17 & 18 T24S R32E NMPM, Lea County, NM and being 15' left and 15' right of the centerline survey, see attached. c. Electric line will follow a route approved by the BLM. Survey of

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a strip of land 30' wide and 312.3' in length crossing USA Land in Sections 17 T24S R32E NMPM, Lea County, NM and being 15' left and 15' right of the centerline survey, see attached. d. See attached for additional information on the Mesa Verde Development Surface Production Facilities and the Fresh Water Station.

Production Facilities map:

MesaVerde17-8FdCom24H_FacilityPLEL_02-21-2017.pdf

MesaVerde17-8FdCom24H_MVFWPond_02-21-2017.pdf

MesaVerde17-8FdCom24H_MVSurfFac_02-21-2017.pdf

Section 5 - Location and Types of Water Supply

Water Source Table

Water source use type: INTERMEDIATE/PRODUCTION CASING,
OTHER, SURFACE CASING

Water source type: GW WELL

Describe type:

Source longitude:

Source latitude:

Source datum:

Water source permit type: WATER WELL

Source land ownership: COMMERCIAL

Water source transport method: PIPELINE, TRUCKING

Source transportation land ownership: COMMERCIAL

Water source volume (barrels): 2000

Source volume (acre-feet): 0.25778618

Source volume (gal): 84000

Water source and transportation map:

MesaVerde17-8FdCom24H_GRRWtrSource_02-21-2017.pdf

MesaVerde17-8FdCom24H_MesqWtrSrc_02-21-2017.pdf

Water source comments: This well will be drilled using a combination of water mud systems. It will be obtained from commercial water stations (Gregory Rockhouse, Mesquite) in the area and will be hauled to location by transport truck using existing and proposed roads.

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.):

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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:

Section 6 - Construction Materials

Construction Materials description: Primary - All caliche utilized for the drilling pad and proposed access road will be obtained from an existing BLM/State/Fee approved pit or from prevailing deposits found on the location. Will use BLM recommended extra caliche from other locations close by for roads, if available. Secondary - The secondary way of obtaining caliche to build locations and roads will be by "turning over" the location. This means, caliche will be obtained from the actual well site. A caliche permit will be obtained from BLM prior to pushing up any caliche. 2400 cubic yards is max amount of caliche needed for pad and roads. Amount will vary for each pad. The procedure below has been approved by BLM personnel: a. The top 6" of topsoil is pushed off and stockpiled along the side of the location. b. An approximate 120' X 120' area is used within the proposed well site to remove caliche. c. Subsoil is removed and piled alongside the 120' X 120' within the pad site. d. When caliche is found, material will be stockpiled within the pad site to build the location and road. e. Then subsoil is pushed back in the hole and caliche is spread accordingly across entire location and road. f. Once the well is drilled the stockpiled top soil will be used for interim reclamation and spread along areas where caliche is picked up and the location size is reduced. Neither caliche nor subsoil will be stockpiled outside of the well pad. Topsoil will be stockpiled along the edge of the pad. Caliche will be provided from a pit located in Section 6 T24S R32E. Water will be provided from a frac pond to be located in Section 18 T24S R32E.

Construction Materials source location attachment:

Section 7 - Methods for Handling Waste

Waste type: DRILLING

Waste content description: Water-Based Cuttings, Water-Based Mud, Oil-Based Cuttings, Oil-Based Mud, Produced Water

Amount of waste: 1874.9 barrels

Waste disposal frequency : Daily

Safe containment description: Haul-Off Bins

Safe containmant attachment:

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

Disposal type description:

Disposal location description: An approved facility that can process drill cuttings, drill fluids, flowback water, produced water, contaminated soils, and other non-hazardous wastes.

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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? YES

Description of cuttings location A closed loop system will be utilized consisting of above ground steel tanks and haul-off bins. Disposal of liquids, drilling fluids and cuttings will be disposed of at an approved facility.

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

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

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:

MesaVerde17-8FdCom24H_WellSiteCL_02-21-2017.pdf

Comments: V-Door-South - CL Tanks-East - 330' X 440' – 2 Well Pad

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Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: MESA VERDE 17-8 FEDERAL COM

Multiple Well Pad Number: 14H

Recontouring attachment:

Drainage/Erosion control construction: Reclamation to be wind rowed as needed to control erosion

Drainage/Erosion control reclamation: Reclamation to be wind rowed as needed to control erosion

Wellpad long term disturbance (acres): 2.12

Wellpad short term disturbance (acres): 3.33

Access road long term disturbance (acres): 1.47

Access road short term disturbance (acres): 2.62

Pipeline long term disturbance (acres): 1.6370753

Pipeline short term disturbance (acres): 4.911226

Other long term disturbance (acres): 0

Other short term disturbance (acres): 0.22

Total long term disturbance: 5.227075

Total short term disturbance: 11.081226

Reconstruction method: If the well is deemed commercially productive, caliche from the areas of the pad site not required for operations will be reclaimed. The original topsoil will be returned to the area of the drill pad not necessary to operate the well. These unused areas of the drill pad will be contoured, as close as possible, to match the original topography, and the area will be seeded with an approved BLM mixture to re-establish vegetation. After concluding the drilling and/or completion operations, if the well is found non-commercial, the caliche will be removed from the pad and transported to the original caliche pit or used for other drilling locations. The road will be reclaimed as directed by the BLM. The original topsoil will again be returned to the pad and contoured, as close as possible, to the original topography, and the area will be seeded with an approved BLM mixture to re-establish vegetation.

Topsoil redistribution: The original topsoil will be returned to the area of the drill pad not necessary to operate the well.

Soil treatment: To be determined by the BLM.

Existing Vegetation at the well pad: To be determined by the BLM at Onsite.

Existing Vegetation at the well pad attachment:

Existing Vegetation Community at the road: To be determined by the BLM at Onsite.

Existing Vegetation Community at the road attachment:

Existing Vegetation Community at the pipeline: To be determined by the BLM at Onsite.

Existing Vegetation Community at the pipeline attachment:

Existing Vegetation Community at other disturbances: To be determined by the BLM at Onsite.

Existing Vegetation Community at other disturbances attachment:

Non native seed used? NO

Non native seed description:

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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 Contact/Responsible Official Contact Info

First Name: JIM

Last Name: WILSON

Phone: (575)631-2442

Email: jim_wilson@oxy.com

Seedbed prep:

Seed BMP:

Seed method:

Existing invasive species? NO

Existing invasive species treatment description:

Existing invasive species treatment attachment:

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Weed treatment plan description: To be determined by the BLM.

Weed treatment plan attachment:

Monitoring plan description: To be determined by the BLM.

Monitoring plan attachment:

Success standards: To be determined by the BLM.

Pit closure description: NA

Pit closure attachment:

Section 11 - Surface Ownership

Disturbance type: WELL PAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

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:

Disturbance type: PIPELINE

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

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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:

Disturbance type: OTHER

Describe: Electric Line

Surface Owner: BUREAU OF LAND MANAGEMENT

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:

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Disturbance type: NEW ACCESS ROAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

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:

Section 12 - Other Information

Right of Way needed? YES

Use APD as ROW? YES

ROW Type(s): 285003 ROW – POWER TRANS,288100 ROW – O&G Pipeline,289001 ROW- O&G Well Pad

ROW Applications

SUPO Additional Information: Permian Basin MOA - see attached SUPO and fees to be determined by BLM. GIS Shapefiles furnished upon requested.

Use a previously conducted onsite? NO

Previous Onsite information:

Other SUPO Attachment

MesaVerde17-8FdCom24H_MiscSvyPlats_02-21-2017.pdf

MesaVerde17-8FdCom24H_StakeNotice_02-21-2017.pdf

MesaVerde17-8FdCom24H_SUPO_02-21-2017.pdf

MesaVerde17-8FdCom24H_GasCapPlan_02-21-2017.pdf