

HOBBES OCD
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FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018

F/P

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NMNM0007966
1b. Type of Well: <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other INJ-ER		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		7. If Unit or CA Agreement, Name and No.
2. Name of Operator FORTY ACRES ENERGY LLC (371416)		8. Lease Name and Well No. WEST EUMONT UNIT 525 (320052)
3a. Address 11777B Katy Freeway, Suite 305 Houston TX 77079	3b. Phone No. (include area code) (832)706-0051	9. API Well No. 30-025-45482 (22800)
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SENW / 1340 FNL / 1670 FWL / LAT 32.533204 / LONG -103.328195 At proposed prod. zone SENW / 1340 FNL / 1670 FWL / LAT 32.533204 / LONG -103.328195		10. Field and Pool, or Exploratory EUMONT / YATES-7RVRS-QUEEN (OIL)
14. Distance in miles and direction from nearest town or post office* 7 miles		11. Sec., T. R. M. or Blk. and Survey or Area SEC 35 / T20S / R36E / NMP
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 970 feet	16. No of acres in lease 160	12. County or Parish LEA
17. Spacing Unit dedicated to this well 0	13. State NM	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 711 feet	19. Proposed Depth 4500 feet / 4500 feet	20. BLM/BIA Bond No. in file FED: NMB001380
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3569 feet	22. Approximate date work will start* 07/01/2018	23. Estimated duration 30 days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

- | | |
|---|---|
| 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 requested by the BLM. |
|---|---|

25. Signature (Electronic Submission)	Name (Printed/Typed) Brian Wood / Ph: (505)466-8120	Date 06/01/2018
Title President		
Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) Cody Layton / Ph: (575)234-5959	Date 12/07/2018
Title Assistant Field Manager Lands & Minerals		
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.

**CAN NOT INJECT PRIOR TO CIOB APPROVAL
REQUIRES MIT**

APPROVED WITH CONDITIONS

Approval Date: 12/07/2018

**KZ
01/10/19**

INSTRUCTIONS

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

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

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

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

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

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

ITEM 24: If the proposal will involve hydraulic fracturing operations, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

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

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

PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service well or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.

ROUTINE USE: Information from the record and/or the record will be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

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

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

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

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

Additional Operator Remarks

Location of Well

1. SHL: SENW / 1340 FNL / 1670 FWL / TWSP: 20S / RANGE: 36E / SECTION: 35 / LAT: 32.533204 / LONG: -103.328195 (TVD: 0 feet, MD: 0 feet)
BHL: SENW / 1340 FNL / 1670 FWL / TWSP: 20S / RANGE: 36E / SECTION: 35 / LAT: 32.533204 / LONG: -103.328195 (TVD: 4500 feet, MD: 4500 feet)

BLM Point of Contact

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

Review and Appeal Rights

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



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

Operator Certification Data Report

01/09/2019

Operator Certification

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

NAME: Brian Wood

Signed on: 06/01/2018

Title: President

Street Address: 37 Verano Loop

City: Santa Fe

State: NM

Zip: 87508

Phone: (505)466-8120

Email address: afmss@permitswest.com

Field Representative

Representative Name: Jessica LaMarro

Street Address: 11777-B Katy Freeway, Suite 305

City: Houston

State: TX

Zip: 77079

Phone: (832)706-0051

Email address:



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

Application Data Report

01/09/2019

APD ID: 10400030799

Submission Date: 06/01/2018

Highlighted data
reflects the most
recent changes

Operator Name: FORTY ACRES ENERGY LLC

Well Name: WEST EUMONT UNIT

Well Number: 525

[Show Final Text](#)

Well Type: INJECTION - ENHANCED RECOVERY

Well Work Type: Drill

Section 1 - General

APD ID: 10400030799

Tie to previous NOS?

Submission Date: 06/01/2018

BLM Office: CARLSBAD

User: Brian Wood

Title: President

Federal/Indian APD: FED

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

Lease number: NMNM0007966

Lease Acres: 160

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: FORTY ACRES ENERGY LLC

Operator letter of designation:

Operator Info

Operator Organization Name: FORTY ACRES ENERGY LLC

Operator Address: 11777B Katy Freeway, Suite 305

Zip: 77079

Operator PO Box:

Operator City: Houston

State: TX

Operator Phone: (832)706-0051

Operator Internet Address:

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: WEST EUMONT UNIT

Well Number: 525

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: EUMONT

Pool Name: YATES-7RVRS-
QUEEN (OIL)

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

Operator Name: FORTY ACRES ENERGY LLC

Well Name: WEST EUMONT UNIT

Well Number: 525

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: INJECTION - ENHANCED RECOVERY

Describe Well Type:

Well sub-Type: INJECTION - SECONDARY RECOVERY

Describe sub-type:

Distance to town: 7 Miles

Distance to nearest well: 711 FT

Distance to lease line: 970 FT

Reservoir well spacing assigned acres Measurement: 0 Acres

Well plat: WEumont_525_plat_mjdedit_09142018_20180914101916.pdf

Well work start Date: 07/01/2018

Duration: 30 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83

Vertical Datum: NAVD88

Survey number: 7977

	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	134 0	FNL	167 0	FWL	20S	36E	35	Aliquot SENW 4	32.53320 4	- 103.3281 95	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 000796 6	356 9	0	0
BHL Leg #1	134 0	FNL	167 0	FWL	20S	36E	35	Aliquot SENW 4	32.53320 4	- 103.3281 95	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 000796 6	-931	450 0	450 0



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

Drilling Plan Data Report

01/09/2019

APD ID: 10400030799

Submission Date: 06/01/2018

Operator Name: FORTY ACRES ENERGY LLC

Well Name: WEST EUMONT UNIT

Well Number: 525

[Show Final Text](#)

Well Type: INJECTION - ENHANCED RECOVERY

Well Work Type: Drill



Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
1	—	3569	0	0	OTHER : Quaternary caliche	USEABLE WATER	No
2	RUSTLER ANHYDRITE	2155	1414	1414		NONE	No
3	TANSILL	760	2809	2809	SANDSTONE	NONE	No
4	YATES	573	2996	2996	SANDSTONE	NATURAL GAS,OIL,OTHER : Saltwater	No
5	SEVEN RIVERS	255	3314	3314	DOLOMITE	NATURAL GAS,OIL,OTHER : Saltwater	No
6	QUEEN	-195	3764	3764	DOLOMITE	NATURAL GAS,OIL,OTHER : Saltwater	No
7	GRAYBURG	-576	4145	4145	DOLOMITE	NATURAL GAS,OIL,OTHER : Saltwater	Yes

Section 2 - Blowout Prevention

Pressure Rating (PSI): 2M

Rating Depth: 5000

Equipment: BOP equipment will consist of the following: - Double ram with blind ram and pipe ram - Drilling spool, or blowout preventer with 2 side outlets (choke side and kill side will be greater than or equal to 2" diameter) - Kill line (greater than or equal to 2" diameter) and kill line valve (greater than or equal to 2" diameter) - greater than or equal to 2" diameter choke line with greater than or equal to 2" diameter valves - 2 chokes, at least one will be capable of remote operation - Pressure gauge on choke manifold - Upper Kelly cock valve with handle available - Safety valve and subs to fit all drill string connections in use - All BOPE connections subject to well pressure will be flanged, welded, or clamped - A fill-up line above the uppermost preventer

Requesting Variance? NO

Variance request:

Testing Procedure: A 2000 psi BOP stack and manifold system will be used. A typical 2000 psi system is attached. If the equipment changes, then a Sundry Notice will be filed. System will meet Onshore Orders 2 (BOP) and 6 (H2S) requirements. Blowout preventer equipment (BOP) will include a 2000 psi rated, "XLT" type, NOV double ram preventer that will be tested to a maximum pressure of 2000 psi. Unit will be hydraulically operated. Ram type preventer will be equipped with pipe rams on top and blind pipe rams on bottom. The 2M BOP will be installed on the 8.625" surface casing and used continuously until TD is reached. All casing strings will be tested per Onshore Order #2. This also includes a 30-day test, should the rig still be operating on the same well for 30 days. Pipe rams will be operated and checked each 24-hour period and each time the drill pipe is out of the hole. These function tests will be documented on the daily drilling logs.

Choke Diagram Attachment:

Operator Name: FORTY ACRES ENERGY LLC

Well Name: WEST EUMONT UNIT

Well Number: 525

WEumont_525_bop_choke_20180601130231.pdf

BOP Diagram Attachment:

WEumont_525_bop_choke_20180601130238.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	12.25	8.625	NEW	API	N	0	1650	0	1650	3569		1650	J-55	24	STC	1.91	4.11	DRY	6.26	DRY	6.26
2	PRODUCTION	7.865	5.5	NEW	API	N	0	4500	0	4500	3569		4500	J-55	15.5	LTC	1.73	2.06	DRY	3.11	DRY	3.11

Casing Attachments

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

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

WEumont_525_casing_design_assumptions_20180601130348.pdf

Operator Name: FORTY ACRES ENERGY LLC

Well Name: WEST EUMONT UNIT

Well Number: 525

Casing Attachments

Casing ID: 2 String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

WEumont_525_casing_design_assumptions_20180601130439.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
SURFACE	Lead		0	1475	650	1.72	13.5	609	100	Class C	4% bentonite gel + 0.4% defoamer + 0.25 lb/sk cellophane flakes
SURFACE	Tail		1475	1650	200	1.34	14.8	72	100	Class C	1% CaCl2 + 0.25 lb/sk cellophane flakes
PRODUCTION	Lead		0	3000	235	3.22	11	520	20	50/50 poz C	5 bwow sodium chloride + 0.4% fluid loss additive + 3.5% accelerator/suspension aid + 0.4% de-foamer+ 3 lb/sk LCM
PRODUCTION	Tail		3000	4500	160	1.33	14.8	260	20	Class C	0.1% fluid loss additive + 0.2% dispersant + 3 lb/sk Kol Seal LCM

Operator Name: FORTY ACRES ENERGY LLC

Well Name: WEST EUMONT UNIT

Well Number: 525

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: Appropriate additives (bentonite, cedar bark) will be on site to manage any abnormal hole condition (lost circulation, pressure) that could be encountered while drilling this well. Circulation could be lost in the Grayburg.

Describe the mud monitoring system utilized: A PVT/Pason/visual mud monitoring system will be used.

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
1700	4500	SALT SATURATED	9.7	10							
0	1700	SPUD MUD	9.4	9.9							

Section 6 - Test, Logging, Coring

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

A Weatherford composite log, or its equivalent, will be run.

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

OTH

Other log type(s):

A Weatherford composite log, or its equivalent, will be run.

Coring operation description for the well:

No core or drill stem test is planned.

Operator Name: FORTY ACRES ENERGY LLC

Well Name: WEST EUMONT UNIT

Well Number: 525

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 1925

Anticipated Surface Pressure: 935

Anticipated Bottom Hole Temperature(F): 100

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:

WEumont_525_h2s_plan_20180601130727.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Other proposed operations facets description:

Other proposed operations facets attachment:

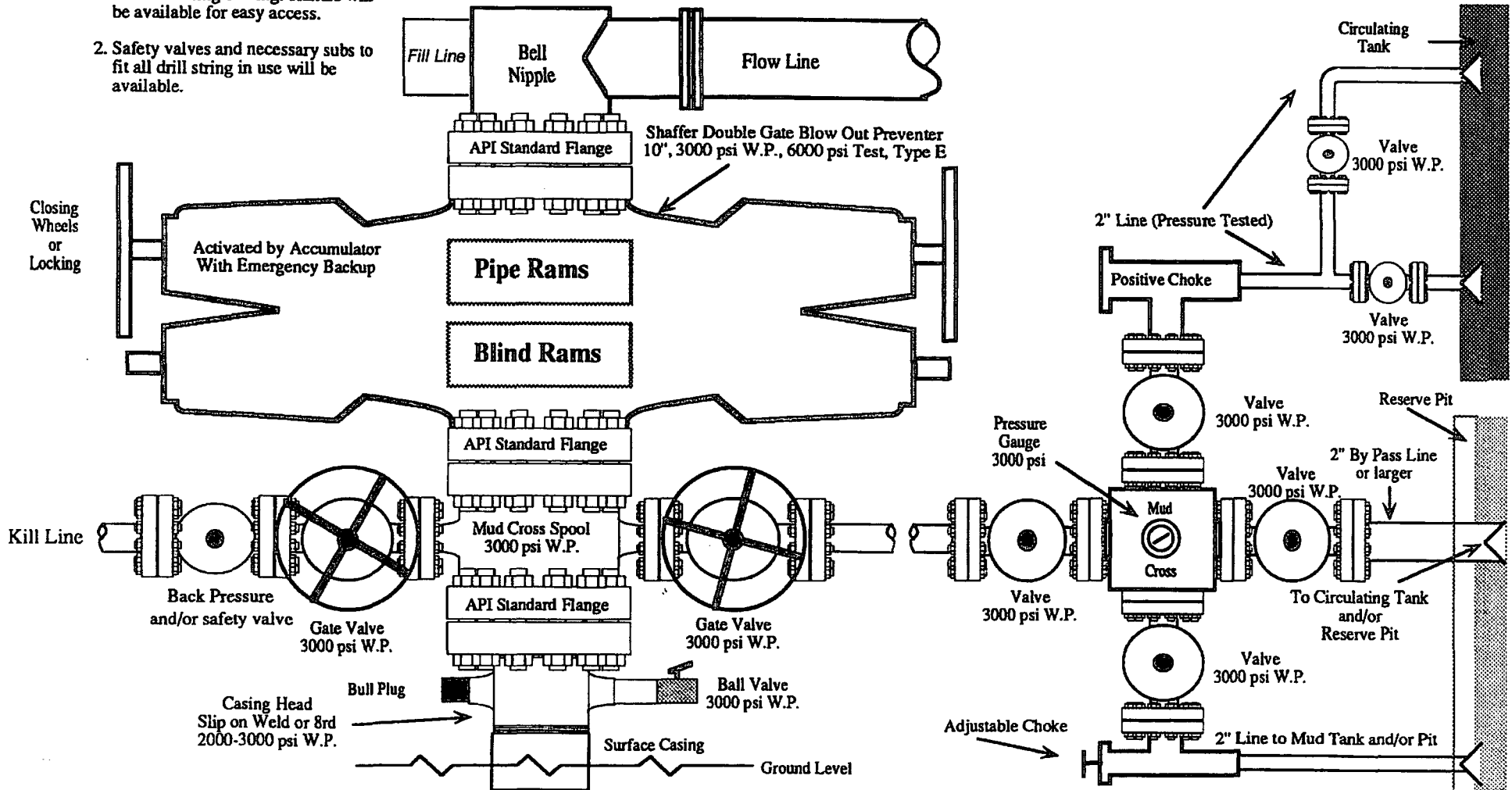
WEumont_525_drill_plan_20180601130907.pdf

Other Variance attachment:

2,000 PSI BOP SYSTEM

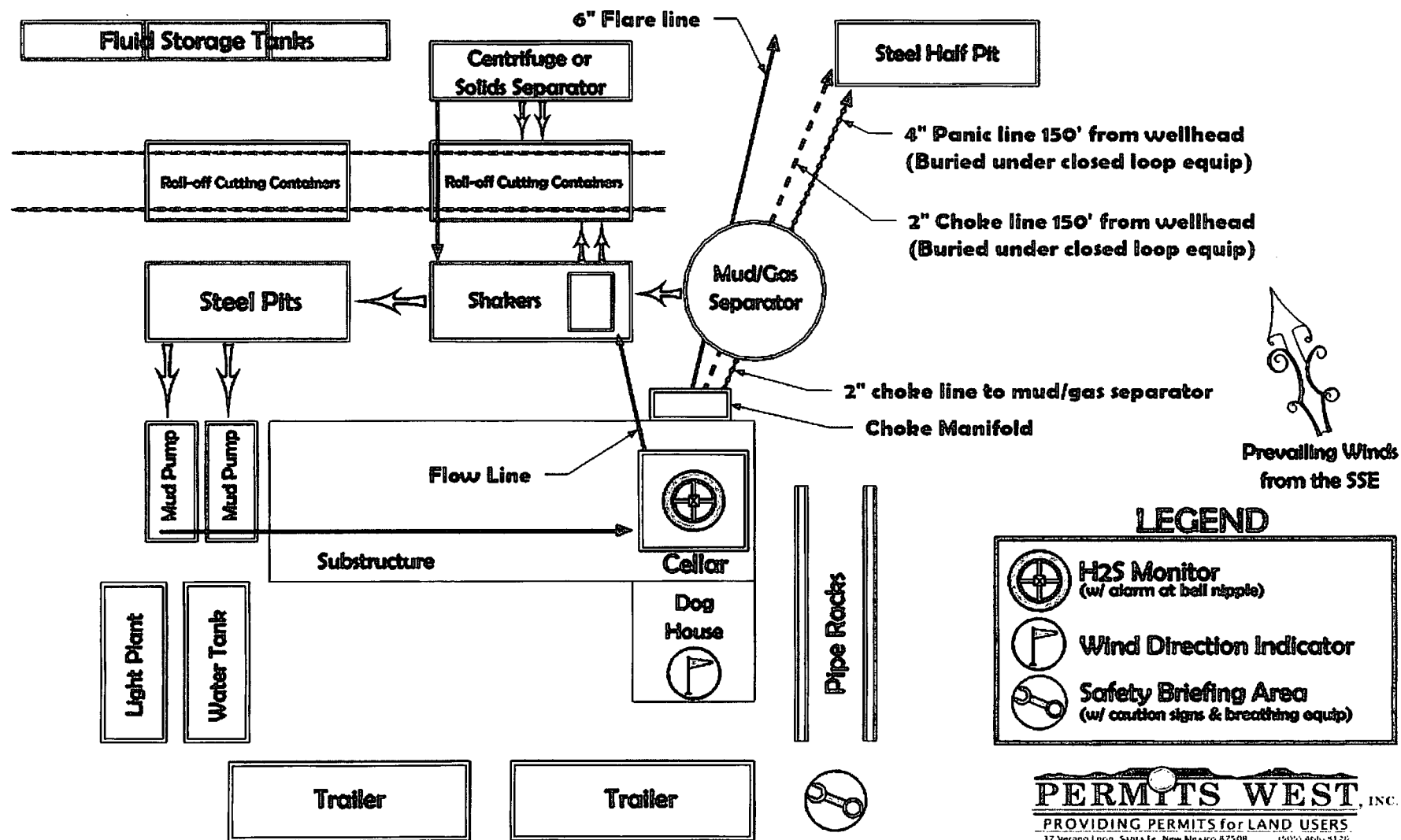
Note: 1. An upper Kelly cock valve will be utilized during drilling. Handle will be available for easy access.

2. Safety valves and necessary subs to fit all drill string in use will be available.



Note: This equipment is designed to meet requirements for a 2-M rating standard per 43 CFR part 3160 (amended). Proper operation and testing of equipment will be carried out per standard. 2,000 psi equipment can be substituted in the drawing to meet minimum requirements per standard.

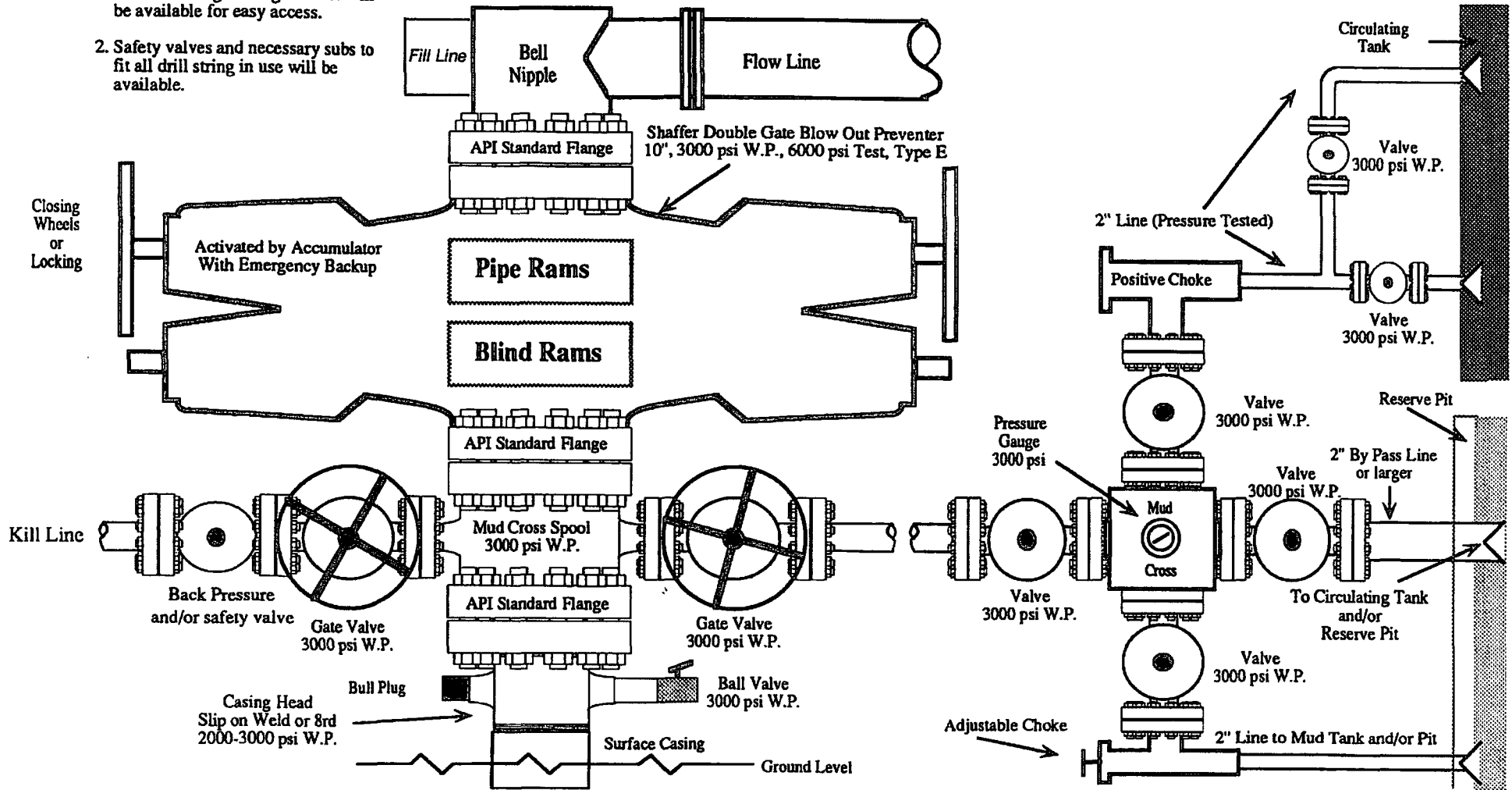
Rig and Closed Loop System with H2S Safety Equipment Diagram



2,000 PSI BOP SYSTEM

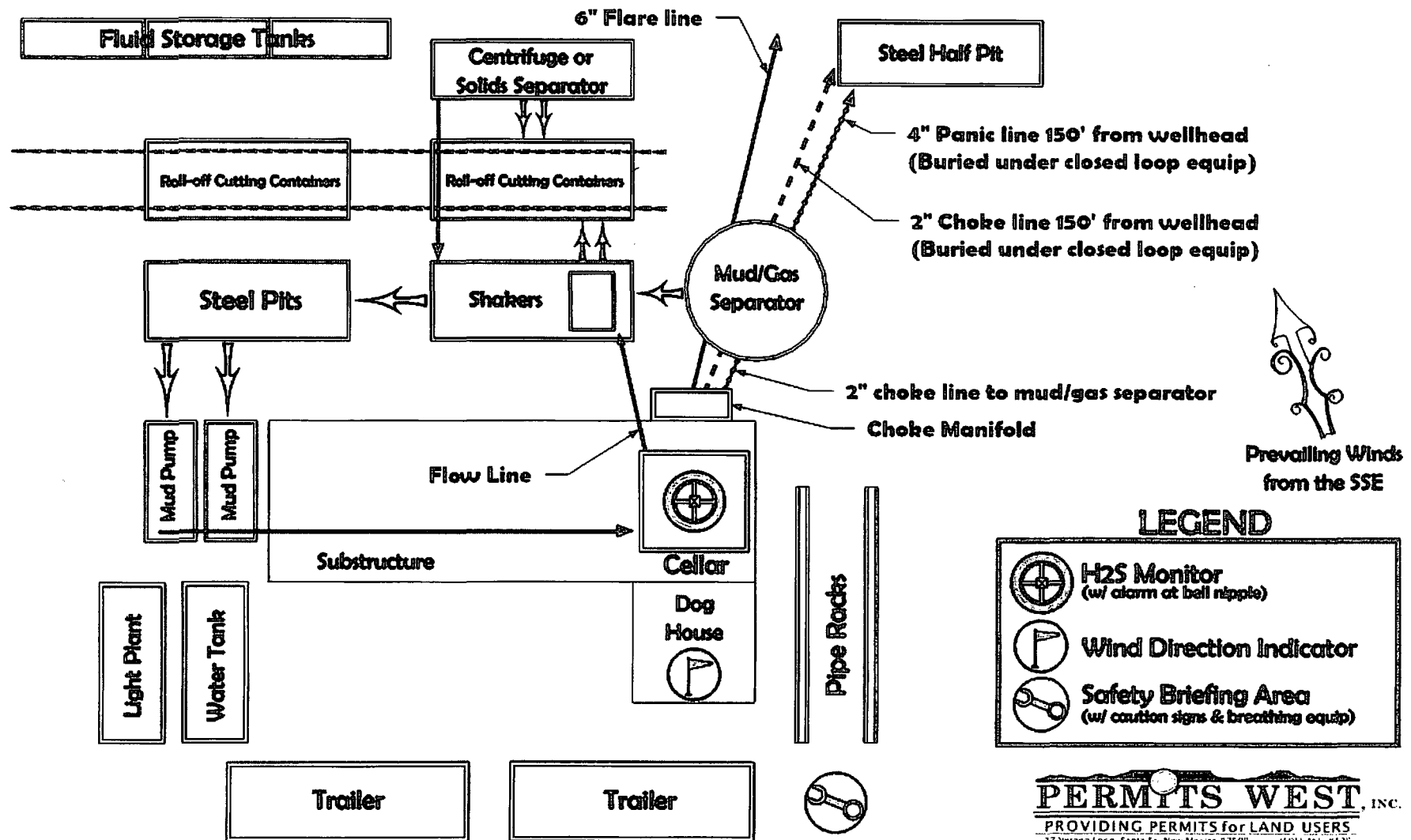
Note: 1. An upper Kelly cock valve will be utilized during drilling. Handle will be available for easy access.

2. Safety valves and necessary subs to fit all drill string in use will be available.



Note: This equipment is designed to meet requirements for a 2-M rating standard per 43 CFR part 3160 (amended). Proper operation and testing of equipment will be carried out per standard. 2,000 psi equipment can be substituted in the drawing to meet minimum requirements per standard.

Rig and Closed Loop System with H₂S Safety Equipment Diagram



	Hole OD	Casing OD	Casing ID	Weight	Grade	Connection	Burst	Collapse	Tensile	Length	String Weight	Mud Weight ppg	Mud Gradient psi/ft
Surface	12.250	8.625	8.097	24.0	J-55	STC	2,950	1,370	244,000	1,625	39,000	8.5	0.44
Production	7.875	5.500	4.950	15.5	J-55	LTC	4,810	4,040	217,000	4,500	69,750	10.0	0.52

Casing Parameters

Tensile

$SF_t = \text{Tensile} / \text{String Weight}$; must be greater than 2.0

	Casing OD	Tensile	String Weight	SF_t
Surface	8.625	244,000	39,000.00	6.26
Production	5.500	217,000	69,750.00	3.11

Collapse

$SF_c = \text{Collapse} / (\text{mud gradient} \times \text{TVD})$; must be greater than 1.18

	Casing OD	Collapse	Mud Gradient x TVD	SF_t
Surface	8.625	1,370	718.25	1.91
Production	5.500	4,040	2,340.00	1.73

Burst

$SF_b = \text{Burst} / (\text{mud gradient} \times \text{TVD})$; must be greater than 1.18

	Casing OD	Burst	Mud Gradient x TVD	SF_t
Surface	8.625	2,950	718.25	4.11
Production	5.500	4,810	2,340.00	2.06

	Hole OD	Casing OD	Casing ID	Weight	Grade	Connection	Burst	Collapse	Tensile	Length	String Weight	Mud Weight ppg	Mud Gradient psi/ft
Surface	12.250	8.625	8.097	24.0	J-55	STC	2,950	1,370	244,000	1,625	39,000	8.5	0.44
Production	7.875	5.500	4.950	15.5	J-55	LTC	4,810	4,040	217,000	4,500	69,750	10.0	0.52

Casing Parameters

Tensile

$SF_t = \text{Tensile} / \text{String Weight}$; must be greater than 2.0

	Casing OD	Tensile	String Weight	SF _t
Surface	8.625	244,000	39,000.00	6.26
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Burst

$SF_b = \text{Burst} / (\text{mud gradient} \times \text{TVD})$; must be greater than 1.18

	Casing OD	Burst	Mud Gradient x TVD	SF _t
Surface	8.625	2,950	718.25	4.11
Production	5.500	4,810	2,340.00	2.06



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

SUPO Data Report

01/09/2019

APD ID: 10400030799

Submission Date: 06/01/2018

Highlighted data
reflects the most
recent changes

Operator Name: FORTY ACRES ENERGY LLC

Well Name: WEST EUMONT UNIT

Well Number: 525

[Show Final Text](#)

Well Type: INJECTION - ENHANCED RECOVERY

Well Work Type: Drill

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

WEumont_525_road_map_20180601130926.pdf

Existing Road Purpose: ACCESS

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:

WEumont_525_new_road_map_20180601131216.pdf

New road type: RESOURCE

Length: 384

Feet

Width (ft.): 30

Max slope (%): 0

Max grade (%): 1

Army Corp of Engineers (ACOE) permit required? NO

ACOE Permit Number(s):

New road travel width: 14

New road access erosion control: Crowned and ditched

New road access plan or profile prepared? NO

New road access plan attachment:

Access road engineering design? NO

Operator Name: FORTY ACRES ENERGY LLC

Well Name: WEST EUMONT UNIT

Well Number: 525

Access surfacing type: OTHER

Access topsoil source: ONSITE

Access surfacing type description: Caliche

Access onsite topsoil source depth: 6

Offsite topsoil source description:

Onsite topsoil removal process: Grader

Access other construction information:

Access miscellaneous information:

Number of access turnouts:

Access turnout map:

Drainage Control

New road drainage crossing: OTHER

Drainage Control comments: Crowned and ditched

Road Drainage Control Structures (DCS) description: None

Road Drainage Control Structures (DCS) attachment:

Access Additional Attachments

Additional Attachment(s):

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

WEumont_525_well_map_20180601131246.pdf

Existing Wells description:

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

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description: An 1899' long buried water pipeline (14' of 2" + 1885' of 4") will be built north from Forty Acres WEU water injection plant. Plant is now under construction. No power line is needed. Only surface equipment on the pad will be the wellhead.

Production Facilities map:

WEumont_525_production_facilities_20180601131353.pdf

Section 5 - Location and Types of Water Supply

Water Source Table

Operator Name: FORTY ACRES ENERGY LLC

Well Name: WEST EUMONT UNIT

Well Number: 525

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

Water source type: OTHER

Describe type: Water tank

Source longitude:

Source latitude:

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): 10000

Source volume (acre-feet): 1.288931

Source volume (gal): 420000

Water source and transportation map:

WEumont_525_water_source_map_20180601131414.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:

Additional information attachment:

Operator Name: FORTY ACRES ENERGY LLC

Well Name: WEST EUMONT UNIT

Well Number: 525

Section 6 - Construction Materials

Construction Materials description: NM One Call (811) will be notified before construction starts. Top 6" of soil and brush will be stockpiled north of the pad. V-door will face east. Closed loop drilling system will be used. Caliche will be hauled from an existing caliche pit on private (Cooper) land in N2SW4 26-20s-36e.

Construction Materials source location attachment:

WEumont_525_construction_materials_methods_20180601131633.pdf

Section 7 - Methods for Handling Waste

Waste type: DRILLING

Waste content description: Drill cuttings, mud, salts, and other chemicals

Amount of waste: 1000 barrels

Waste disposal frequency : Daily

Safe containment description: Steel tanks

Safe containmant attachment:

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

Disposal type description:

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

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit?

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

Reserve pit depth (ft.) **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 Steel tanks on pad

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

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

Operator Name: FORTY ACRES ENERGY LLC

Well Name: WEST EUMONT UNIT

Well Number: 525

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:

WEumont_525_well_site_layout_20180601132337.pdf

Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name:

Multiple Well Pad Number:

Recontouring attachment:

WEumont_525_recontour_plat_20180601132421.pdf

Drainage/Erosion control construction: Crowned and ditched

Drainage/Erosion control reclamation: Harrowed on the contour

Well pad proposed disturbance (acres): 1.43	Well pad interim reclamation (acres): 0.51	Well pad long term disturbance (acres): 0.92
Road proposed disturbance (acres): 0.26	Road interim reclamation (acres): 0	Road long term disturbance (acres): 0.26
Powerline proposed disturbance (acres): 0	Powerline interim reclamation (acres): 0	Powerline long term disturbance (acres): 0
Pipeline proposed disturbance (acres): 1.31	Pipeline interim reclamation (acres): 1.31	Pipeline long term disturbance (acres): 0
Other proposed disturbance (acres): 0	Other interim reclamation (acres): 0	Other long term disturbance (acres): 0
Total proposed disturbance: 3	Total interim reclamation: 1.82	Total long term disturbance: 1.18

Disturbance Comments:

Reconstruction method: Interim reclamation will be completed within 6 months of completing the well. Interim reclamation will consist of shrinking the pad 36% (0.51 acre) by removing caliche and reclaiming a 25' wide swath on all sides of the pad.

Operator Name: FORTY ACRES ENERGY LLC

Well Name: WEST EUMONT UNIT

Well Number: 525

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

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

Soil treatment: None

Existing Vegetation at the well pad:

Existing Vegetation at the well pad attachment:

Existing Vegetation Community at the road:

Existing Vegetation Community at the road attachment:

Existing Vegetation Community at the pipeline:

Existing Vegetation Community at the pipeline attachment:

Existing Vegetation Community at other disturbances:

Existing Vegetation Community at other disturbances attachment:

Non native seed used? NO

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? NO

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation? NO

Seed harvest description:

Seed harvest description attachment:

Seed Management

Seed Table

Seed type:

Seed source:

Seed name:

Source name:

Source address:

Source phone:

Seed cultivar:

Operator Name: FORTY ACRES ENERGY LLC

Well Name: WEST EUMONT UNIT

Well Number: 525

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:

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: To BLM standards

Weed treatment plan attachment:

Monitoring plan description: To BLM standards

Monitoring plan attachment:

Success standards: To BLM satisfaction

Pit closure description: No pit

Pit closure attachment:

Section 11 - Surface Ownership

Disturbance type: NEW ACCESS ROAD

Describe:

Surface Owner: PRIVATE OWNERSHIP

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

Operator Name: FORTY ACRES ENERGY LLC

Well Name: WEST EUMONT UNIT

Well Number: 525

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Fee Owner: Dale Cooper Family Trust

Fee Owner Address: PO Box 6 Monument NM 88265

Phone: (575)390-7996

Email:

Surface use plan certification: NO

Surface use plan certification document:

Surface access agreement or bond: Agreement

Surface Access Agreement Need description: See attached at end of SUPO section

Surface Access Bond BLM or Forest Service:

BLM Surface Access Bond number:

USFS Surface access bond number:

Disturbance type: OTHER

Describe: Water lines

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:

Operator Name: FORTY ACRES ENERGY LLC

Well Name: WEST EUMONT UNIT

Well Number: 525

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Fee Owner: Dale Cooper Family Trust

Fee Owner Address: PO Box 6 Monument NM 88265

Phone: (575)390-7996

Email:

Surface use plan certification: NO

Surface use plan certification document:

Surface access agreement or bond: Agreement

Surface Access Agreement Need description: See attached at end of SUPO section

Surface Access Bond BLM or Forest Service:

BLM Surface Access Bond number:

USFS Surface access bond number:

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: FORTY ACRES ENERGY LLC

Well Name: WEST EUMONT UNIT

Well Number: 525

Fee Owner: Dale Cooper Family Trust

Fee Owner Address: PO Box 6 Monument NM 88265

Phone: (575)390-7996

Email:

Surface use plan certification: NO

Surface use plan certification document:

Surface access agreement or bond: Agreement

Surface Access Agreement Need description: See attached at end of SUPO section

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? YES

Previous Onsite information: On site inspection was held with Jesse Bassett (BLM) on March 26, 2018. Lone Mountain inspected and filed archaeology reports NMCRIS-139931 (well and road) and NMCRIS 139916 (pipelines) in late February 2018.

Other SUPO Attachment

WEumont_525_supo_20180601132843.pdf

WEumont_525_surface_use_agreement_20180601132957.pdf



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

PWD Data Report

01/09/2019

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:

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 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

01/09/2019

Bond Information

Federal/Indian APD: FED

BLM Bond number: NMB001380

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: