Form 3160-3 (June 2015)	7				FORM OMB No Expires: Ja	APPRO 5. 1004-0 nuary 31	VED)137 , 2018	
UNITED STATES DEPARTMENT OF THE I BUREAU OF LAND MANA	S NTERIO AGEME	DR ENT			5. Lease Serial No. NMLC54908			
APPLICATION FOR PERMIT TO D	RILL O	R F	REENTER		6. If Indian, Allotee or Tribe Name			
la. Type of work:	EENTER				7. If Unit or CA Agreement, Name and No.			
1b. Type of Well: Image: Oil Well Image: Gas Well Image: Oil Well	ther				8. Lease Name and	Well No.		
1c. Type of Completion: Hydraulic Fracturing Si	ingle Zone	• •	Multiple Zone		FAIR 18 FEDERA	L		
					3			
2. Name of Operator FAIR OIL LTD					9. API Well No. 30-015-5	53361		
3a. Address PO BOX 689, TYLER, TX 75710	3b. Phor (903) 51	ne No 10-65	o. (include area code 527	2)	10. Field and Pool, or CEDAR LAKE;GLO	or Explo ORIETA	ratory -YESO	
4. Location of Well (Report location clearly and in accordance w	with any S	tate r	requirements.*)		11. Sec., T. R. M. or SEC 18/T175/R31	Blk. and F/NMP	l Survey or Area	
At surface SENE / 1560 FNL / 967 FEL / LAT 32.8374	76 / LON	G -10 7476	03.903603 / LONG -103 903	603				
14. Distance in miles and direction from nearest town or post off 4 miles	ice*		, 20110 100.000		12. County or Parish EDDY	1	13. State NM	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any)	16. No c	No of acres in lease 17. Spaci 40.0			ng Unit dedicated to t	his well		
 18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 92 feet 	19. Prop 6130 fee	19. Proposed Depth 20. BLM 5130 feet / 6130 feet FED: NM			BIA Bond No. in file			
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3714 feet	22. App 10/01/20	roxin 022	nate date work will s	start*	23. Estimated duration 30 days			
	24. A	ttach	iments					
The following, completed in accordance with the requirements of (as applicable)	f Onshore	Oil a	nd Gas Order No. 1	, and the H	Iydraulic Fracturing r	ule per 4	3 CFR 3162.3-3	
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest Syste SUPO must be filed with the appropriate Forest Service Office 	m Lands, † e).	the	 Bond to cover the Item 20 above). Operator certific Such other site sp BLM. 	e operation ation. ecific infor	s unless covered by ar mation and/or plans as	mexisting may be	bond on file (see	
25. Signature (Electronic Submission)	Na BR	ame (RIAN	Printed/Typed) WOOD / Ph: (903	3) 510-65	27	Date 08/08/2	2022	
Title President								
Approved by (Signature) (Electronic Submission)	Na CH	ame (HRIS	Printed/Typed) TOPHER WALLS	/ Ph: (57	5) 234-2234	Date 01/06/2	2023	
Title Petroleum Engineer	Of Ca	ffice arlsba	ad Field Office					
Application approval does not warrant or certify that the applicar applicant to conduct operations thereon. Conditions of approval, if any, are attached.	nt holds leg	gal oi	r equitable title to th	ose rights	in the subject lease w	hich wou	ild entitle the	
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, n of the United States any false, fictitious or fraudulent statements	nake it a ci or represe	rime ntatic	for any person know	vingly and within its	willfully to make to a urisdiction.	iny depa	rtment or agency	



*(Instructions on page 2)

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(Continued on page 2)

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DISTRICT I Form C-102 1625 N. French Dr., Hobbs, NM 88240 Phone (575) 393-6161 Fax: (575) 393-0720 State of New Mexico Revised August 1, 2011 Energy, Minerals and Natural Resources Department DISTRICT II 811 S. First St., Artesia, NM 88210 Phone (575) 748-1283 Fax: (575) 748-9720 Submit one copy to appropriate **District** Office OIL CONSERVATION DIVISION DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone (505) 334-6178 Fax: (505) 334-6170 1220 South St. Francis Dr. Santa Fe, New Mexico 87505 DISTRICT IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone (505) 476-3460 Fax: (505) 476-3462 □ AMENDED REPORT WELL LOCATION AND ACREAGE DEDICATION PLAT API Number Pool Code Pool Name 30-015- 53361 96831 CEDAR LKAE; GLORIETA-YESO Property Code **Property** Name Well Number 39555 38692 FAIR 18 FEDERAL 3 OGRID No. **Operator** Name Elevation 65531 FAIR OIL, LTD. 3714 Surface Location UL or lot No. Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line County Н 18 17 S 31 E 1560 NORTH 967 EAST EDDY Bottom Hole Location If Different From Surface UL or lot No. Section Lot Idn Township Range Feet from the North/South line Feet from the East/West line County **Dedicated** Acres Joint or Infill Consolidation Code Order No. 40.00 NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION N.: 670241. N.: 670223.5 : 670207.9 E.: 671641.1 (NAD83) E.: 674282. OPERATOR CERTIFICATION : 669267.5 (NAD83) I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unLEAsed mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location mirror and to a content with an (NAD83) 560 this location or has a right to arise this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling greement or a compulsory pooling order heretofore entered by the division. Vax SURFACE LOCATION 8-7-22 Lat - N 32.837476* Long - W 103.903603* 967 Signature Date NMSPCE- E 673324.3 **BRIAN WOOD** Printed Name (NAD-83) brian@permitswest.com Email Address SURVEYOR CERTIFICATION N.: 667599.9 E.: 674297.7 (NAD83) I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervison, and that the same is true and correct to the best -1 my belief. RHL 16, 202 veye MEXICO Date Sia Signa re i of Prof sional urveyor Certific 797 1000' 1500' 2000 0' 500' N : 664957.0 SCALE: 1" = 1000' N : 664926 1 E.: 674313. (NAD83) .: 669284.3 (NAD83)

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WO Num.: 35596

State of New Mexico Submit Electror Energy, Minerals and Natural Resources Department Via E-permittin											
		Oil Co 1220 S San	onservation D South St. Fran Ita Fe, NM 87	ivision cis Dr. 505							
	Ν	ATURAL G	AS MANA	GEMENT P	LAN	[
This Natural Gas Mana	gement Plan m	ust be submitted w	ith each Applica	tion for Permit to I	Drill (A	APD) for a	new o	r recompleted well.			
		Section Ef	<u>1 – Plan D</u> ffective May 25	escription							
I. Operator: Fair Oi	l, Ltd.	-	OGRID: _6	5531		Date:	01 /	30 /23			
II. Type: 🗹 Original	□ Amendment	due to □ 19.15.27.	9.D(6)(a) NMA	C 🗆 19.15.27.9.D((6)(b) I	NMAC 🗆	Other.				
If Other, please describ	e:										
III. Well(s): Provide the be recompleted from a second	e following inf single well pad	formation for each n or connected to a c	new or recomple central delivery p	eted well or set of voint.	wells p	roposed to	be dr	illed or proposed to			
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Ant Gas	ticipated MCF/D	P	Anticipated roduced Water BBL/D			
Fair 18 Federal 3	30-015-	H-18-17s-31e	1560 FNL 8 967 FEL	250	900		500				
IV. Central Delivery P V. Anticipated Schedu proposed to be recompl	Point Name: F F le: Provide the eted from a sin	rontier Field Ser air 18 Federal 1 following informat gle well pad or com	vices LLC (22 in H-18-17s- tion for each new nected to a cent	21115) 31e v or recompleted w al delivery point.	vell or s	[See 1	9.15.2 s propo	7.9(D)(1) NMAC]			
Well Name	API	Spud Date	TD Reached Date	Completion Commencement	Date	Initial H Back I	Flow Date	First Production Date			
Fair 18 Federal 3	30-015-	4-1-24	4-15-24	5-1-24		5-20-24		5-2524			
VI. Separation Equipn VII. Operational Prac Subsection A through F VIII. Best Managemen during active and planne	nent: 🗹 Attach tices: 🗹 Attach of 19.15.27.8] nt Practices: 🗟 ed maintenance	a complete descrip h a complete descr NMAC. Attach a complet c.	ption of how Op iption of the ac e description of	erator will size sep ions Operator wil Operator's best m	aration I take 1 nanage	I equipment to comply ment pract	nt to op with t	timize gas capture. he requirements of minimize venting			

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Section 2 – Enhanced Plan EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

 \square Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. \Box Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system \Box will \Box will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator \Box does \Box does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

□ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: \Box Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

 \square Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

 \Box Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. *If Operator checks this box, Operator will select one of the following:*

Well Shut-In. □ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. □ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature:	
Printed Name:	Brian Wood
Title:	Consultant
E-mail Address:	brian@permitswest.com
Date:	1-30-23
Phone:	505 466-8120
	OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:	
Title:	
Approval Date:	
Conditions of Approval:	

VI. SEPARATION EQUIPMENT

Fair Oil, Ltd. tentatively plans to install a compressor based on estimated volumes. Associated existing equipment include:

1 vapor recovery unit 2 vapor recovery towers 4 oil tanks 4 water tanks 1 free water knock out 2 heater-treaters 2 separators



VII. Operational Practices

NMAC 19.15.27.8 (A) Venting & Flaring of Natural Gas

1. Fair Oil, Ltd. (FAIR) will comply NMAC 19.15.27.8 – venting and flaring of gas during drilling, completion, or production that constitutes waste as defined in 19.15.2 is banned.

NMAC 19.15.27.8 (B) Venting & Flaring During Drilling

- 1. FAIR will capture or combust gas if technically feasible during drilling operations using best industry practices.
- A flare stack with a 100% capacity for expected volume will be set on the pad ≥100 feet from the nearest well head and storage tank.
- 3. In an emergency, FAIR will vent gas in order to avoid substantial impact. FAIR will report vented or flared gas to the NMOCD.

NMAC 19.15.27.8 (C) Venting & Flaring During Completion or Recompletion

- 1. Facilities will be built and ready from the first day of flowback
- 2. Test separator will be properly separate gas and liquids. Temporary test separator will be used initially to process volumes. In addition, separator will be tied into flowback tanks which will be tied into the gas processing equipment for sale down a pipeline.
- 3. Should the facility not be ready to process gas, or the gas does not meet quality standards, then storage tanks will be set that are tied into gas busters or a temporary flare to manage all gas. This flare would meet the following requirements:
 - a) An appropriate sized flare stack with an automatic igniter
 - b) FAIR analyzes gas samples twice a week
 - c) FAIR flows the gas into a gathering line as soon as the pipeline specifications are met
 - d) FAIR provides the NMOCD with pipeline specifications and natural gas data.

NMAC 19.15.27.8 (D) Venting & Flaring During Production

FAIR will not vent or flare natural gas except:

- 1. During an emergency or malfunction
- 2. To unload or clean-up liquid holdup in a well to atmospheric pressure, provided
 - a) FAIR does not vent after the well achieves a stabilized rate and pressure
 - b) FAIR will be on-site while unloading liquids by manual purging and take all reasonable actions to achieve a stabilized rate and pressure as soon as possible



- c) FAIR will optimize the system to minimize gas venting if the well is equipped with a plunger lift or auto control system
- d) Best management practices will be used during downhole well maintenance.
- 3. During the first year of production from an exploratory well provided
 - a) FAIR receives approval from the NMOCD
 - b) FAIR stays in compliance with NMOCD gas capture requirements
 - c) FAIR submits an updated C-129 form to the NMOCD
- 4. During the following activities unless prohibited
 - a) Gauging or sampling a storage tank or low-pressure production vessel
 - b) Loading out liquids from a storage tank
 - c) Repair and maintenance
 - d) Normal operation of a gas-activated pneumatic controller or pump
 - e) Normal operation of a storage tank but not including venting from a thief hatch
 - f) Normal operation of dehydration units
 - g) Normal operations of compressors, engines, turbines, valves, flanges, & connectors
 - h) During a Braden head, packer leak test, or production test lasting <24 hours
 - i) When natural gas does not meet the gathering line specifications
 - j) Commissioning of lines, equipment, or facilities only for as long as necessary to purge introduced impurities.

NMAC 19.15.27.8 (E) Performance Standards

- 1. FAIR used a safety factor to design the separation and storage equipment. The equipment will be routed to a vapor recovery system and uses a flare as back up for startup, shutdown, maintenance, or malfunction of the VRU system.
- 2. FAIR will install a flare that will handle the full facility vapor volume in case the VRU fails. It will have an auto-ignition system.
- 3. Flare stacks will be appropriately sized and designed to ensure proper combustion efficiency
 - a) Flare stacks installed or replaced will be equipped with an automatic ignitor or continuous pilot.
 - b) Previously installed flare stacks will be retrofitted within 18 months of May 25, 2021 with an automatic ignitor, continuous pilot, or technology that alerts FAIR to flare malfunction.
 - c) Flare stacks replaced after May 25, 2021 will be equipped with an automatic ignitor or continuous pilot if at a well or facility with an average production of ≤60 Mcfd of natural gas.
 - d) Flare stacks will be located >100 feet from well head and storage tanks and securely anchored.
- 4. FAIR will conduct an audio/visual/olfactory inspection on all components for leaks and defects every week.



- 5. FAIR will make and keep records of AVO inspections available to the NMOCD for at least 5 years.
- 6. FAIR may use a remote or automated monitoring technology to detect leaks and releases in lieu of AVO inspections with prior NMOCD approval.
- 7. Facilities will be designed to minimize waste.
- 8. FAIR will resolve emergencies as promptly as possible.

NMAC 19.15.27.8 (F) Measuring or Estimating Vented & Flared Natural Gas

- 1. FAIR will have meters on both the low pressure and high-pressure sides of the flares. Volumes will be recorded in the SCADA system.
- 2. FAIR will install equipment to measure the volume of flared natural gas that has an average production of ≥60 Mcfd.
- 3. FAIR's measuring equipment will conform to industry standards.
- 4. Measurement system will be designed such that it cannot be bypassed except for inspections and servicing the meters.
- 5. FAIR will estimate the volume of vented or flared gas using a methodology that can be independently verified if metering is not practicable due to low flow rate or pressure.
- 6. FAIR will estimate the volume of vented and flared gas based on the results of an annual GOR test for wells that do not require measuring equipment reported on form C-116.
- 7. FAIR will install measuring equipment whenever the NMOCD determines that metering is necessary.



VIII. Best Management Practices

Fair Oil, Ltd. will minimize venting during maintenance by:

- 1. Designing and operating system to route storage tank and process equipment emissions to the VRU. If the VRU is not operable, then vapors will be routed to the flare.
- 2. Scheduling maintenance for multiple tasks to minimize the need for blowdowns.
- 3. After completion of maintenance, gas will be flared until it meets pipeline specifications.





Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
9005343	QUATERNARY	3704	0	Ó	OTHER : Caliche	USEABLE WATER	N
9005344	RUSTLER ANHYDRITE	3404	300	300	ANHYDRITE	NONE	N
9005345	TOP SALT	3179	525	525	SALT	NONE	N
9005346	BASE OF SALT	2429	1275	1275	SALT	NONE	N
9005347	YATES	2254	1450	1450	DOLOMITE	NATURAL GAS, OIL	N
9005348	SEVEN RIVERS	1929	1775	1775	DOLOMITE	NATURAL GAS, OIL	N
9005349	QUEEN	1329	2375	2375	SANDSTONE	NATURAL GAS, OIL	N
9005350	GRAYBURG	954	2750	2750	DOLOMITE	NATURAL GAS, OIL	N
9005351	SAN ANDRES	629	3075	3075	DOLOMITE	NATURAL GAS, OIL	N
9005352	GLORIETA	-851	4555	4555	DOLOMITE	NATURAL GAS, OIL	Y
9005353	YESO	-956	4660	4660	DOLOMITE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 3M

Rating Depth: 10000

Equipment: The drilling contract has not yet been awarded. Thus, the exact BOP model to be used is not yet known. A typical 3,000-psi model is attached. If equipment changes, then a Sundry Notice will be filed. System will meet Onshore Orders 2 (BOP) and 6 (H2S) requirements. Auxiliary equipment will include: - upper kelly cock, lower kelly cock will be installed while drilling - inside BOP or stabbing valve with handle available on rig floor - safety valve(s) and subs to fit all string connections in use - electronic/mechanical mud monitor will with a minimum pit volume totalizer; stroke counter; flow sensor

Requesting Variance? NO

Variance request:

Operator Name: FAIR OIL LTD

Well Name: FAIR 18 FEDERAL

Well Number: 3

Testing Procedure: BOP and choke manifold will be installed and pressure tested before drilling out of the surface casing. Subsequent pressure tests will be performed whenever the pressure seals are broken. BOP and manifold mechanical operating conditions will be checked daily. BOP will be tested at least once every 30 days. Ram type preventers and related pressure control equipment will be pressure tested to the working pressure of the stack if a test plug is used. If a plug is not used, then the stack will be tested to the rated working pressure of the stack or 70% of the minimum internal yield of the casing, whichever is less. Annular type preventers will be pressure tested to 50% of their working pressure. All casing strings will be pressure tested to 0.22 psi/foot or 1,500 psi, whichever is greater, not to exceed 70% of the internal yield. The casing shoe will be tested by drilling 5' to 20' out from under the shoe and pressure tested to a maximum expected mud weight equivalent as shown in the mud program. A manual locking device (e. g., hand wheels) or automatic locking devices will be installed on the BOP stack. Remote controls capable of both opening and closing all preventers will be readily accessible to the driller. Choke manifold and accumulator will meet or exceed BLM standards. BOP equipment will be tested after any repairs. Pipe and blind rams and annular preventer will be activated on each trip. Weekly BOP drills will be conducted with each crew. All tests, maintenance, and BOP drills will be recorded on the rig tower sheets.

Choke Diagram Attachment:

Fair18_3_BOP_Choke_20220808114845.pdf

BOP Diagram Attachment:

Fair18_3_BOP_Choke_20220808114853.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	520	0	520	3714	3194	520	H-40	48	ST&C	1.12 5	1	DRY	1.8	DRY	1.8
2	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	3100	0	3100	3704	614	3100	J-55	36	LT&C	1.12 5	1	DRY	1.8	DRY	1.8
3	INTERMED IATE	12.2 5	9.625	NEW	API	Y	3100	3600	3100	3600	604	114	500	J-55	40	LT&C	1.12 5	1	DRY	1.8	DRY	1.8
4	PRODUCTI ON	7.78 5	5.5	NEW	API	N	0	6130	0	6130	3704	-2416	6130	N-80	17	LT&C	1.12 5	1	DRY	1.8	DRY	1.8

Casing Attachments

Well Name: FAIR 18 FEDERAL

Well Number: 3

Casing Attachments

Casing ID: 1 String SURFACE
Inspection Document:
Spec Document:
Tapered String Spec:
Casing Design Assumptions and Warksheet(s):
Casing Design Assumptions and Worksneet(s):
Casing_Design_Assumptions_20220808115030.pdf
Casing ID: 2 String INTERMEDIATE
Inspection Document:
Spec Document:
opec Document.
Taparad String Space
rapered outing opec.
Casing Design Assumptions and Worksheet(s):
Casing_Design_Assumptions_20220808115101.pdf
Casing ID: 3 String INTERMEDIATE
Inspection Document:
Spec Document:
Tapered String Spec:
Casing_Design_Assumptions_20220808115139.pdf
Casing Design Assumptions and Worksheet(s):
Casing_Design_Assumptions_20220808115149.pdf

Well Name: FAIR 18 FEDERAL

Well Number: 3

Casing Attachments

Casing ID:	4	String	PRODUCTION
•		•	

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Casing_Design_Assumptions_20220808115218.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	0	0	0	0	0	0	None	None
SURFACE	Tail		0	520	564	1.34	14.8	755	100	Class C	2% CaCl2 + ¼ lb/sk celloflake
PRODUCTION	Lead		0	3400	563	2.38	11.9	1339	50	Class C	None
PRODUCTION	Tail		3400	6130	200	1.26	14.2	252	50	Class C	None
INTERMEDIATE	Lead		0	3600	760	2.04	12.5	1550	50	35:65:6 Class C	None
INTERMEDIATE	Tail		0	3600	200	1.33	14.8	266	50	Class C Neat	None

Operator Name: FAIR OIL LTD

Well Name: FAIR 18 FEDERAL

Well Number: 3

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: Lost circulation could occur in the Grayburg and/or San Andres. All necessary mud products (LCM) will be on site to handle any abnormal hole condition that may be encountered while drilling.

Describe the mud monitoring system utilized: An electronic/mechanical mud monitor with a minimum pit volume totalizer, stroke counter, and flow sensor will be used.

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (Ibs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	Hd	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	520	OTHER : Fresh Water	8.4	8.4							
520	3600	OTHER : Brine	9.8	10							
3600	6130	OTHER : Brine with Gel Sweeps	8.9	9							

Section 6 - Test, Logging, Coring

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

A mud logging unit will be on location from 3,600' to TD. Spectral density and dual spaced neutron spectral gamma logs will be run from TD to 4,000'.

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

MUD LOG/GEOLOGICAL LITHOLOGY LOG, GAMMA RAY LOG,

Coring operation description for the well:

No core or drill stem test is planned.

Operator Name: FAIR OIL LTD

Well Name: FAIR 18 FEDERAL

Well Number: 3

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 2654

Anticipated Surface Pressure: 1305

Anticipated Bottom Hole Temperature(F): 110

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

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

Fair18_3_H2S_Plan_20220808115547.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Other proposed operations facets description:

Water zones will be protected with casing, cement, and weighted mud. Fresh water found while drilling will be recorded. Water was found at a depth of 415' in an oil well (30-015-05194) that is 2,846' southeast. State Engineers records show closest well (RA 11590, POD 4) is >2 miles south. No water was encountered in the 55' deep well.

Other proposed operations facets attachment:

Fair18_3_Drill_Plan_20220808114725.pdf

Other Variance attachment:

Casing_Cementing_Variance_20220808115404.pdf

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: LEASE NO.:	Fair Oil LTD NMLC54908
LOCATION:	Section 18, T.17 S., R.31 E., NMPM
COUNTY:	Eddy County, New Mexico

WELL NAME & NO.:	Fair 18 Federal 3
SURFACE HOLE FOOTAGE:	1560'/N & 967'/E
BOTTOM HOLE FOOTAGE	1560'/N & 967'/E
ATS/API ID:	ATS-22-1756
APD ID:	10400087173
Sundry ID:	N/A

COA

H2S	• Yes	🖸 No	
Potash	None	Secretary	🖸 R-111-P
Cave/Karst Potential	• Low	Medium	🖸 High
Cave/Karst Potential	Critical		
Variance	• None	Flex Hose	Other
Wellhead	Conventional	Multibowl	Both
Wellhead Variance	Diverter		
Other	4 String	Capitan Reef	WIPP
Other	Fluid Filled	🗌 Pilot Hole	🗌 Open Annulus
Cementing	Cement Squeeze	EchoMeter	
Special Requirements	U Water Disposal	COM	🗌 Unit
Special Requirements	Break Testing	□ Offline	
Variance		Cementing	

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the **Grayburg** formation. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

Primary Casing Design:

- The 13-3/8 inch surface casing shall be set at approximately 360 feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of <u>8</u> <u>hours</u> or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above.
- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

Alternate Casing Design:

- The 13-3/8 inch surface casing shall be set at approximately 360 feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of $\underline{\mathbf{8}}$ hours or 500 pounds compressive strength, whichever is greater. (This is to

Approval Date: 01/06/2023

include the lead cement)

- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above.
- 3. The minimum required fill of cement behind the 7 inch intermediate casing is:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.
- 4. The minimum required fill of cement behind the 4-1/2 inch production casing is:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

C. PRESSURE CONTROL

- 1. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **3000 (3M)** psi.
- Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 9-5/8 inch intermediate casing shoe shall be 3000 (3M) psi.
- Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 7 inch intermediate casing shoe shall be 3000 (3M) psi.

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)
 - Eddy County Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822
 - Lea County
 Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575)
 689-5981
- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

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A. CASING

- 1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- <u>Wait on cement (WOC) for Potash Areas:</u> After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least <u>24 hours</u>. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. <u>Wait on cement (WOC) for Water Basin:</u> After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least <u>8 hours</u>. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.
- B. PRESSURE CONTROL

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- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not

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hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

- b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.
- C. DRILLING MUD

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Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

LVO 12/13/2022



H₂S Drilling Operations Plan

- a. All personnel will be trained in H_2S working conditions as required by Onshore Order 6 before drilling out of the surface casing.
- b. Two briefing areas will be established. Each will be at least 150' from the wellhead, perpendicular from one another, and easily entered and exited. See H_2S page 5 for more details.
- c. H₂S Safety Equipment/Systems:
 - i. Well Control Equipment
 - Flare line will be ≥ 150 ' from the wellhead and ignited by a flare gun.
 - Beware of SO₂ created by flaring.
 - Choke manifold will include a remotely operated choke.
 - Mud gas separator
 - ii. Protective Equipment for Essential Personnel
 - Every person on site will be required to wear a personal H_2S and SO_2 monitor at all times while on site. Monitors will not be worn on hard hats. Monitors will be worn on the front of the waist or chest.
 - One self-contained breathing apparatus (SCBA) 30-minute rescue pack will be at each briefing area. Two 30-minute SCBA packs will be stored in the safety trailer.
 - Four work/escape packs will be on the rig floor. Each pack will have a long enough hose to allow unimpaired work activity.
 - Four emergency escape packs will be in the doghouse for emergency evacuation.
 - Hand signals will be used when wearing protective breathing apparatus.
 - Stokes litter or stretcher
 - Two full OSHA compliant body harnesses
 - A 100 foot long x 5/8 inch OSHA compliant rope
 - One 20 pound ABC fire extinguisher

- iii. H₂S Detection & Monitoring Equipment
- Every person on site will be required to wear a personal H_2S and SO_2 monitor at all times while on site. Monitors will not be worn on hard hats. Monitors will be worn on the front of the waist or chest.
- A stationary detector with three sensors will be in the doghouse.
- Sensors will be installed on the rig floor, bell nipple, and at the end of the flow line or where drilling fluids are discharged.
- Visual alarm will be triggered at 10 ppm.
- Audible alarm will be triggered at 10 ppm.
- Calibration will occur at least every 30 days. Gas sample tubes will be kept in the safety trailer.
- iv. Visual Warning System
- Color-coded H_2S condition sign will be set at the entrance to the pad.
- Color-coded condition flag will be installed to indicate current ${\sf H}_2{\sf S}$ conditions.
- Two wind socks will be installed that will be visible from all sides.
- v. Mud Program
- A water based mud with a pH of ≥ 10 will be maintained to control corrosion, H₂S gas returns to the surface, and minimize sulfide stress cracking and embrittlement.
- Drilling mud containing H_2S gas will be degassed at an optimum location for the rig configuration.
- This gas will be piped into the flare system.
- Enough mud additives will be on location to scavenge and/or neutralize H_2S where formation pressures are unknown.
- vi. Metallurgy
- All equipment that has the potential to be exposed to H_2S will be suitable for H_2S service.
- Equipment that will meet these metallurgical standards include the drill string, casing, wellhead, BOP assembly, casing head and spool, rotating head, kill lines, choke, choke manifold and lines, valves, mud-gas separators, DST tools, test units, tubing, flanges, and other related equipment (elastomer packings and seals).

vii. Communication from well site

- Cell phones and/or two-way radios will be used to communicate from the well site.

d. A remote controlled choke, mud-gas separator, and a rotating head will be installed before drilling or testing any formation expected to contain H_2S .

Fair Oil, Ltd. Personnel to be Notified

Rodney Thompson, Production Manager	Office: (903) 510-6527
or	
Jay Bynum	Office: (903) 510-6525
Loool & County Agonaica	
Local & County Agencies	
Loco Hills Fire Department	911 or (575) 677-2349
Maljamar Fire Department	911 or (575) 676-4100
Eddy County Sheriff (Artesia)	911 (575) 748-2323
Eddy County Emergency Management (Carlsba	ad) (575) 887-9511
Eddy County Emergency Management (Artesia	a) (575) 746-9540
Eddy County Health Services (Carlsbad)	(575) 887-9511
Artesia Hospital 702 North 13th Street, Artesia	(575) 748-3333

<u>State Agencies</u>	
NM State Police (Artesia)	(575) 748-9718
NM Oil Conservation (Artesia)	(575) 748-1283
NM Oil Conservation (Santa Fe)	(505) 476-3440
NM Dept. of Transportation (Roswell)	(575) 637-7201
Federal Agencies	
BLM Carlsbad Field Office	(575) 234-5972
National Response Center	(800) 424-8802
US EPA Region 6 (Dallas) 665-6444	(800) 887-6063 or (214)

Other Contacts

Veterinarian Artesia Animal Clinic

(575) 748-2042

Residents within 2 miles

There are no homes within 2 miles. However, Burnett Oil Co. has an office 2.1 miles southwest. Their phone number is (575) 677-2313. The office is on County Road 220.



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Rig and Closed Loop System with H2S Safety Equipment Diagram

Released

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District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Operator:	OGRID:
FAIR OIL LTD	65531
P.O. Box 689	Action Number:
Tyler, TX 75710	181343
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
kpickford	Notify OCD 24 hours prior to casing & cement	2/1/2023
kpickford	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string	2/1/2023
kpickford	Cement is required to circulate on both surface and intermediate1 strings of casing	2/1/2023
kpickford	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system	2/1/2023

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