			/	A15-08-134
Form 3160-3 (August 2007) • DEC 16 2008 UNITED S	OCD-HOBBS		OMB 1	APPROVED No. 1004-0137 July 31. 2010
DEPARTMENT OF	THE INTERIOR	·	5 Lease Serial No.	
HOBBSOODAU OF LAN	D MANAGEMENT Split E	State		
APPLICATION FOR PERMI	T TO DRILL OR REENTER		6. If Indian, Allote	e or Tribe Name
la. Type of work: X DRILL	REENTER		7 If Unit or CA Ag	reement, Name and No.
	KEENIEK			
1b Type of Well XX Oil Well Gas Well Oth 2 Name of Operator		ultiple Zone		Well No. (37540)
	(REED FISCHER 303-893-09		9. API Well No.	200
3a. Address 1050 17th STREET SUITE 18			30 - 025 10. Field and Pool. or	Exploratory
DENVER, COLORADO 80265	303-893-0933		WILDCAT-DEVO	/
4. Location of Well (Report location clearly and in accordance	ce with any State requirements.*)		11. Sec., T. R M. or I	Blk.and Survey or Area
At surface 990' FSL & 990' FEL SI	ECTION 8 T21S-R38E LEA	A CO. NM	SECTION 8	T21S-R38E
At proposed prod. zone SAME	Unit P			v
14. Distance in miles and direction from nearest town or post of Approximately 15 miles Southeast	ffice*		12. County or Parish LEA CO.	
15. Distance from proposed*	16. No. of acres in lease	17 Spacing	g Unit dedicated to this	NM
location to nearest property or lease line, ft. 990' (Also to nearest drig. unit line, if any)	240		40	wen
 Distance from proposed location* to nearest well, drilling, completed, 	19. Proposed Depth	20. BLM/E	BIA Bond No. on file	
applied for, on this lease, fi. 990	8000' <i>87.00</i>			00009
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3562' GL	22 Approximate date work will when APPROVED	start*	23. Estimated duratio	
	24. Attachments		28 Da	iys
The following, completed in accordance with the requirements of		attached to this	- C	
1. Well plat certified by a registered surveyor.				
2. A Drilling Plan.	4. Bond to cover Item 20 above	r the operation	s unless covered by an	existing bond on file (see
3. A Surface Use Plan (if the location is on National Forest SUPO must be filed with the appropriate Forest Service Off	System Lands, the 5. Operator certi	fication	rmation and/or plans as	s may be required by the
25. Signature	Name (Printed/Typed)			D
tog T. Jann	Joe T. Janica			Date 08/29/08
Tile Permit Engineer			I	
Approved by (Signature)	Name (Printed/Typed)			Dete
/s/ Don Peterson	Name (Printed/Typed)	Don Pete	orson	Date DEC 1 2 2008
Title FOR FIELD MANAGER	Office CABLSR			
Application approval does not warrant or certify that the applic conduct operations thereon. Conditions of approval, if any, are attached.	ant holds legal or equitable title to those rig	ghts in the subje	L FOR TWO	ntitle the applicant to
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, mak States any false, fictitious or fraudulent statements or representat	te it a crime for any person knowingly and tions as to any matter within its jurisdiction.	willfully to ma	ke to any department o	r agency of the United
(Continued on page 2)		K	*(Instr	ructions on page 2)
LEA COUNTY CONTR			/	
SEE ATTACHED FOR			SUBJECT TO	
) SPECI	EQUIREME	110NG
CONDITIONS OF APPROVAL	ATI	ACHED	STIPULA	TIONS

Dec. 10. 2008 11:00AM

No. 0243 F. T

FAX 303-893-0914

MCELVAIN OIL & GAS PROPERTIES, INC.

1050 17th Street, Suite 1800 Denver, Colorado 80265-1801

TELEPHONE 303-893-0933

December 10, 2008

Via Facsimile (575) 234-5927

Bureau of Land Management Attention: Betty Hill Carlsbad, New Mexico

RE: Landowner Surface Agreement Margarita #1 Well, Lea County, NM

Dear Ms. Booth:

This letter is to notify you that McElvain Oil & Gas Properties, Inc. does have a surface agreement in place with WFM RANCH LTD, et al covering the drilling and operation of the captioned well. Paige McNeill notified McElvain Oil & Gas Properties, Inc. today that the surface owner executed McElvain's Surface Use and Compensation Agreement.

Sincerely,

McElvain Oil & Gas Properties, Inc.

James C. Joda General Counsel

cc: Reed Williams Linnea Hill

Prevail 34-3 Provide and Provide	۲ آ	Bepein	VEN		C		IOBB S		
Build of the second	Form 3160-5	•	UNITED STATE		Ĺ	AC17-1	FORM APPROVED OMB No. 1004-0137		
Do not USE from for proposals to drill or to re-enter an abandonned well. Use Form 3160-3 (APD) for such proposals. na SubMit IN TRIPLICATE - Other instructions on page 2 7. If Unit of CA/Agreement, Name and/or No. 1. Type of Well 0.10 Well 0.10 Well Other 8. Well Name and No. Margania #1 9. Address 3. Address 13. Phone No. (include area code) (00) Well To Serve Socie #100 9. Address (00) Well To Serve Socie #100 11. Countor or Parish, State (00) B93-0933 xtn 330 11. Countor or Parish, State (00) Well To Serve Parish 11. Countor or Parish, State (00) Well State 0. Address 0. Deepen Production (State/Resump) Weter Shate-Off (01) Weile of Intern Address 0. Deepen (02) Hell Addres Other Change Casing 1. Bote-Off Form (03) B93-0932 (State State St									
abandoned well. Use Form 3160-3 (APD) for such proposals. na SUBMT IN TRIPLICATE - Other instructions on page 2. n. 1. Type of Well as well Other 2. Other descent and No. Marganta #1 3. Address instructions on page 2. instructions on page 2. 1. Type of Well Gas Well Other Marganta #1 3. Address instructions of Marganta #1 Marganta #1 3. Address instructions of Marganta #1 Marganta #1 3. Address instructions of Marganta #1 Decorption of Marganta #1 3. Address instructions of Marganta #1 Decorption of Marganta #1 3. Address instructions of Marganta #1 Decorption of Marganta #1 4. Joccretion of Well Groups, Sec. T. R. M. or Survey Description? I. Country or Parish, State 12. CHECK THE APPROPRIATE BOXICS) TO DNDICATE NATURE OF NOTICE, REPORT OR OTHER DATA TYPE OF SUBMISSION TYPE OF SUBMISSION 13. Type of Vell Charge Repair Production (StatrResume) Water Statr-Off 14. Notice of Intern Address Production (StatrResume) Other Change Casing 15. Baakaneonment Notoc Charge Repair Production (StatrResume) <	D	SHOP BS	OUBS AND REPO	6. If Indian, Allottee or	Tribe Name				
1. Type of Well				na					
1. Type of Well B. Well Name and No. Margenial # 1 Address S. Address B. Phone No. (include area code) McEl Vall No. D. Field and Pool or Exploratory Area Model Name And No. B. Phone No. (include area code) McEl Vall No. D. Field and Pool or Exploratory Area Model Name Andress B. Phone No. (include area code) Model Name Andress D. Field and Pool or Exploratory Area Model Name Andress B. Phone No. (include area code) Model Name Andress D. Field and Pool or Exploratory Area Model Name Andress B. Phone No. (include area code) Model Name Andress B. Phone No. (include area code) Model Name Andress B. Phone No. (include area code) Model Name Andress B. Phone No. (include area code) Model Name Andress Model Name Andress Model Name Andress Model Name Andress Model Name Andress B. Phone No. (include area code) Model Name Andress Model Name Andress Model Name Andress <th></th> <th>SUBMIT</th> <th>IN TRIPLICATE Other</th> <th></th> <th>nent, Name and/or No.</th>		SUBMIT	IN TRIPLICATE Other		nent, Name and/or No.				
LL ON Well	· · ·		_						
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1000-17th Street, Sum 1500 (303) 893-0933 xtn 330 Wildcat - Littman Field Area 4. Jocquine of Well (Posting, Sec. T. P. M. or Survey Description) 11. Country of Parish, State 12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA TYPE OF SUBMISSION 12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA TYPE OF SUBMISSION Acidize Subsequent Report Casing Repair Casing Repair New Construction Reclamation Well Integrity Subsequent Report Casing Repair Casing Repair New Construction Rescription Reclamation Bit of the proposed or Completed Operation: Clearly state all pertinent details, including estimated stating date of daty for all approximate duration thereof. If the proposed is to deepen directionally or complete horizontily give subsuffice colections and measured and thre vertical daths and approximate duration thereof. If the proposed is to deepen directionally or complete horizontily give subsuffice colections and the stating date of daty for all approximate duration thereof. If the proposed work and approximate duration thereof. If the proposed or Complete of brite in the work will be performed or provide the band No. on file with BLM/BLA. Require above: moreal a Form 31604	2. Name of Operator McElvain Oil & Gas P	roperties, Inc.					30-02		
Lea County, New Mexeo I. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA TYPE OF SUBMISSION	1050 - 17th Street, Suite 180 Denver, Colorado 80265			(303) 893-093		e)			
TYPE OF SUBMISSION TYPE OF ACTION Image: Subsequent Report Acidize Deepen Production (Start/Resume) Water Shut-Off Subsequent Report Casing Repair New Construction Recomplete Other Change Casing Final Abandonment Notice Convert to Injection Plug and Abandon Temporarily Abandon Design on APD from 15. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and messure of subsequent reports mast be filed ones there on the low of the performed or provide the Bond No. on file with BLMBIA. Required subsequent reports must be filed once testing base conservers must be filed once testing absequent reports must be filed once testing absequent reports must be filed once testing absequent reports the Bond within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleted and the operator has determined that the site is ready for final inspection.) McElvain Oll & Gas Properties, Inc. Is amending the proposed production casing design set out in our original APD dated 8-29-08 from an I-80 grade casing to an L-80 grade casing to this proposed well is as follows: Collapse Resistnez: 6.20 psi S.57; 17 #//r, LT&C L80 casing hung from surface and set at the proposed TD of	4. Location of Well (Fe 990' FSL & 990' FEL (SESE	ootage, Sec., T., R - Unit "P") Section 8	., <i>M., or Survey Description,</i> 8, T21S-R38E)					
Image: Construction of Intent Acidize Deepen Production (Start/Resume) Water Shut-Off Image: Construction of Intent Alter Casing Practure Treat Reclamation Well Integrity Image: Construction of Intent Casing Repair New Construction Recomplete Other Change Casing Image: Construction of Intent Casing Repair New Construction Recomplete Other Change Casing Image: Construction of Intent Casing Repair Plug and Abandon Temporarily Abandon Design on APD from Image: Construction of the involved Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or ecomplete horizontally, give subsurface locations and measured and true vertical depts of all pertinent markers and zones. Attach the Bond under which the work with the ber formed or provide the Bond No. on file with BLM/BLA. Required aubsequent reports must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection. McElvain Oil & Gas Properties, Inc. is amending the proposed production casing design set out in our original APD dated 8-29-08 from an I-80 grade casing to an L-80 grade casing to this proposed well is as follows: Collapse Resistance: 6.200 pai Internal Yield Pre		12. CHECI	K THE APPROPRIATE BO	X(ES) TO INDI	CATE NATURE	OF NOTIC	CE, REPORT OR OTHE	R DATA	
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14. 1 hereby certify that the foregoing is true and correct. Name (Printed/Typed) 14. 1 hereby certify that the foregoing is true and correct. Name (Printed/Typed) 14. 1 hereby certify that the foregoing is true and correct. Name (Printed/Typed) 14. 1 hereby certify that the foregoing is true and correct. Name (Printed/Typed) 14. 1 hereby certify that the foregoing is true and correct. Name (Printed/Typed) 14. 1 hereby certify that the foregoing is true and correct. Name (Printed/Typed)	Final Abandonme	nt Notice				·	2		
E. Reed Fischer Title Senior Operations Engineer	the proposal is to d Attach the Bond ur following completi testing has been co determined that the McElvain Oil & Gas P an L-80 grade casing New 5.5", 17 #/ft, LT& Minimum performanc Collapse Resistance: Internal Yield Pressur Joint Strength:	eepen directiona der which the w on of the involve mpleted. Final <i>A</i> site is ready for roperties, Inc. i . The planned at L80 casing <i>P</i> e properties for 6,290 psi e: 7,740 psi 338,000 lbs	Ily or recomplete horizontal ork will be performed or pro- ed operations. If the operation (shandonment Notices must le final inspection.) is amending the proposed production casing design nung from surface and set the new casing are as fo	ly, give subsurfa ovide the Bond N on results in a m be filed only after I production cas for this propose t at the propose llows:	ce locations and m lo. on file with BL ultiple completion r all requirements sing design set c ed well is as follo	neasured ar M/BIA. R or recomp , including but in our o bws:	nd true vertical depths of Required subsequent repo- letion in a new interval, a reclamation, have been c	all pertinent markers and zones. rts must be filed within 30 days a Form 3160-4 must be filed once completed and the operator has	
Signature Manha Date 09/22/2008		ne toregoing is tr	Le and correct. Name (Printed	a/Iyped)	Title Senior Or	perations E	Engineer		
	Signature	les /	mba		Date 09/22/200)8			

	THIS SPACE FOR FEDER	RAL OR ST	ATE OFFICE ÙSE	
Approved by	/s/ Don Peterson	FIELD	MANAGER	DEC 1 2 2008 .
Conditions of approval, if any, are that the applicant holds legal or eq entitle the applicant to conduct op	attached. Approval of this notice does not warrant or ce uitable title to those rights in the subject lease which wou erations thereon	ertify		FIELD OFFICE
	Title 43 U.S C. Section 1212, make it a crime for any per or representations as to any matter within its jurisdiction		d willfully to make to any dep	artment or agency of the United States any false

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(Instructions on page 2)

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DISTRICT I

1625 N. French Dr., Hobbs, NM 58240 DISTRICT II

1301 W. Grand Avenue, Artesia, NM 88210

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

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

□ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-39	311]	Pool Code		WII	DCAT-DEVONIA	Pool Name N		
Property Code 37540		Property Name MARGARITA					Ň	Well Nu	ımber
OGRID No. 22044 (Мс	ELVAIN	•	D GAS	B PROPERTIES		Eleva 356	
Surface Location									
UL or lot No. Section	Township	Range	Lot Idn	Feet fro		North/South line	Feet from the	East/West line	County
P 8	21 S	38 E		99	0	SOUTH	990	EAST	LEA
		Bottom	Hole Loo	eation I	f Diffe	rent From Sur	face		
UL or lot No. Section	Township	Range	Lot Idn	Feet fro	m the	North/South line	Feet from the	East/West line	County
Dedicated Acres Joint of 40	r Infill Co	nsolidation (Code Or	der No.		<u> </u>			L
NO ALLOWABLE W						NTIL ALL INTEF APPROVED BY		EEN CONSOLIDA	ATED
					Lat Lor NM 3560.2	$\frac{SURFACE LOCATION}{-N32^{2}29^{2}0.43^{*}}$ $rg - W103^{*}04^{*}37.31$ $SPCE - N 543913.19$ $E 928708.682$ $(NAD - 83)$ $\frac{1}{2} - \frac{1}{3559.3^{'}}$ $\frac{-1}{990^{'}} - \frac{1}{3565.0^{'}}$ $\frac{1}{3565.0^{'}}$ $\frac{1}{3565.0^{'}}$	I hereby ce contained here the best of my this organizatio micress or unit load including loadion pursus of such a mine a voluntary por computed point the division. Signature Joe T. J Printed Nam SURVEYO I hereby certify on this plat w actual surveys supervison ar correct to th JUL Date Survey Signature & Professional Correct for the Signature & Professional	08/ anica te DR CERTIFICAT y that the well locat as plotted from field made by me or that the same is that the same is the best of my belie that the same is the best of my belie the best of my belie the best of the best the best of the best of the best of the best the best of the bes	action lete to and that ting in the tole an owner st, or to entered by Date 29/08 TION ion shown i notes of under my true and f.

EXHIBIT "A"





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APPLICATION TO DRILL

McELVAIN OIL & GAS PROPERTIES MARGARITA #1 UNIT "P" SECTION 8 T21S-R38E LEA CO. NM

In response to questions asked under Section II of Bulliten NTL-6, the following information on the above will be provided.

1. LOCATION: 990' FSL & 990' FEL SECTION 8 T21S-R38E LEA CO. NM

2. ELEVATION ABOVE SEA LEVEL: 3562' GL

3. GEOLOGICAL NAME OF SURFACE FORMATION: Quaternery Aeolian Deposits.

4. DRILLING TOOLS AND ASSOCIATED EQUIPMENT: Conventional rotary drilling rig using drilling mud as a circulating medium for solids removal from hole.

5. PROPOSED DRILLING DEPTH: 82001

6.	ESTIMATED TOPS OF GEOLOGICAN	L FORMATIONS:		
	Rustler Anhydrite	1714	Blinebry	6159 '
	Yates	3014'	Tubb	6629 '
	Queen	3840'	Drinkard	6969'
	Grayburg	4134'	Abo	7229'
	San Andres	4394 '	Devonian	7879'
7.	Glorieta POSSIBLE MINERAL BEARING FOR	5724' MATIONS:	TD	8200'
	Queen	011	Tubb	0 i 1
	San Andres	011	Drinkard	0i1
	Blinebry	011	Аbo	0i1
8.	CASING PROGRAM:		Devonian .	0i1

8. CASING PROGRAM:

HOLE SIZE INTERVAL OD OF CASING ... WEIGHT THREAD COLLAR GRADE CONDITION 26" 0-80' 20" NA NA NA Conductor New 12**±**" 0-1740' 8 5/8" 24# 8–R ST&C K-55 New 7 7/8" 0-8200' 517 17# 8–R LT&C New

Casing Design Factors:

Collapse 1.125 Body Yield Burst 1.0 1.5 Joint Strength 8-R 1.8 Butress 1.6

APPLICATION TO DRILL

McELVAIN OIL & GAS PROPERTIES MARGARITA #1 UNIT "P" SECTION 8 T21S-R38E LEA CO. NM

9. CASING CEMENTING & SETTING DEPTHS:

20 "	Conductor	Set 80' of 20" conductor pipe and cement to surface with Redi-mix.
8 5/8" S ⁷ ee COA	Surface	Run and set 1740' of 8 5/8" 24# K-55 ST&C casing. Cement with 450 Sx. of Class "C" cement + additives, mix at 13.5ppg, Yield 1.7, tail in with 200 Sx. of Class "C" cement + additives, mix at 14.8ppg, Yield 1.34. Circulate cement to surface.
`5 <u>1</u> "	Production	Run and set 8200' of 5½" 17# I-80 LT&C casing. Cement with 800 Sx. of 50/50 Class "C" cement + additives mix at 11.8 ppg, Yield 2.44, tail in with 650 Sx. of 50/50 Class "C" POZ + additives, mix at 14.2 ppg, Yield 1.29, estimate top of cement 1500' from surface.

11. PRESSURE CONTROL EQUIPMENT:

Exhibit "E" shows a 900 Series 3000 PSI working pressure B. O. P. consisting of an annular bag type preventor with middle blind rams and bottom pipe rams. The B.O.P. will be nippled up on the 13 3/8" casing and tested to API specifications. The B.O.P. will be operated at least once in each 24 hour period and the blind rams will be operated when the drill pipe is out of the hole on trips. Full opening stabbing valve and upper kelly cock will be available at all times in case of need. Exhibit "E-1" shows a hydraulically operated closing unit and a 3" 5000 PSIworking pressure choke manifold with dwalf adjustable chokes. No abnormal pressures or abnormal temperatures are expected during the drilling of this well.

4 one remote chose

12. MUD CIRCULATING SYSTEM:

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DEPTH	MUD WT.	VISC	FLUID LOSS	TYPE MUD SYSTEM
40 - 1740'	8.4-8.7	29–38	NC	Fresh water spud mud add paper to control seepage, and high viscosity sweeps to clean hole.
1740 - 6650'	10.0-10.2	29–38	NC	Brine water use paper to control seepage and high viscosity sweeps clean hole.
6650'-8200'	10.1-10.2	32-38	10cc or less	Same as above add salt Gel to control use a drispac system to control water loss.

Sufficient mud material will be kept on location at all times in order to combat lost circulation or unexpected kicks. In order to run DST's, cut cores, run open hole logs and casing the mud system may have to be altered to meet these needs.

APPLICATION TO DRILL

McELVAIN OIL & GAS PROPERTIES MARGARITA #1 UNIT "P" SECTION 8 T21S-R38E LEA CO. NM

12. LOGGING, CORING, AND TESTING PROGRAM:

- A. Open hole logs: Dual Laterolog, SNP, LDT, MSFL, Gamma Ray and Caliper from TD back to 8 5/8" casing shoe.
- B. Cased hole log: Gamma Ray, Neutron from 8 5/8" casing shoe back to surface.

13. POTENTIAL HAZARDS:

No abnormal pressures or temperatures are expected. There is no known presence of $\rm H^2S$ in this area. If $\rm H^2S$ is encountered the operator will comply with the provisions of Onshore Oil and Gas Order No. 6. No lost circulation is expected to occur. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Estimated BHP <u>4150±</u> PSI, and Estimated BHT <u>175±°</u>.

14. ANTICIPATED STARTING DATE AND DURATION OF OPERATION:

Road and location construction will begin after the BLM has approved the APD. Anticipated spud date will be as soon after BLM approval and as soon as a rig will be available. Move in operation and drilling is expected to take <u>28</u> days. If production casing is run then an additional <u>30</u> days will be needed to complete well and construct surface facilities and/or lay flowlines in order to place well on production.

15. OTHER FACETS OF OPERATIONS:

After running casing, cased hole Gamma Ray, Neutron Collar logs will be run from TD back to all possible productive zones. The <u>Abo-Devonian</u> formation will be perforated and stimulated in order to establish production. The well will be swab tested and potentialed as an oil well.



EXHIBIT "D" RIG LAY OUT PLAT McELVAIN OIL & GAS PROPERTIES

MARGARITA #1UNIT "P"SECTION 8T21S-R38ELEA CO. NM

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McELVAIN OIL & GAS PROPERTIES Hydrogen Sulfide Contingency Plan For Drilling/Workover/Facility

大変な ティン・ション・

This well and it's anticipated facility are not expected to have Hydrogen Sulfide releases. However, there may be Hydrogen Sulfide production in the nearby area. There are no private residences in the area but a contingency plan has been orchestrated. McELVAIN OIL & GAS PROPERTIES will have a company representative available to the rig personnel through out the drilling of this well. If Hydrogen Sulfide is detected or suspected, monitoring equipment will be employed to assure the safety of all personnel.

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Kesner W.F. MicNeill, etg. (S) Kesner W.F.	M /
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PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME:	McElvain Oil & Gas Properties
	LC-062170A
WELL NAME & NO.:	Margarita #1
SURFACE HOLE FOOTAGE:	990' FSL & 990' FEL
BOTTOM HOLE FOOTAGE	'FL& 'FL
LOCATION:	Section 8, T. 21 S., R 38 E., NMPM
COUNTY:	Lea County, New Mexico

TABLE OF CONTENTS

Standard Conditions of Approval (COA) apply to this APD. If any deviations to these standards exist or special COAs are required, the section with the deviation or requirement will be checked below.

General P	rovisions
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r	erm	it Exp	oratio)

Archaeology, Paleontology, and Historical Sites

Noxious Weeds

Special Requirements

Lesser Prairie Chicken

Sand Dune Lizard

Construction

Notification

Topsoil

Reserve Pit - Closed-loop mud system

Federal Mineral Material Pits

Well Pads

Roads

Road Section Diagram

Drilling

Production (Post Drilling)

Reserve Pit Closure/Interim Reclamation

] Final Abandonment/Reclamation

I. GENERAL PROVISIONS

The approval of the Application For Permit To Drill (APD) is in compliance with all applicable laws and regulations: 43 Code of Federal Regulations 3160, the lease terms, Onshore Oil and Gas Orders, Notices To Lessees, New Mexico Oil Conservation Division (NMOCD) Rules, National Historical Preservation Act As Amended, and instructions and orders of the Authorized Officer. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

II. PERMIT EXPIRATION

If the permit terminates prior to drilling and drilling cannot be commenced within 60 days after expiration, an operator is required to submit Form 3160-5, Sundry Notices and Reports on Wells, requesting surface reclamation requirements for any surface disturbance. However, if the operator will be able to initiate drilling within 60 days after the expiration of the permit, the operator must have set the conductor pipe in order to allow for an extension of 60 days beyond the expiration date of the APD. (Filing of a Sundry Notice is required for this 60 day extension.)

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural and/or paleontological resource discovered by the operator or by any person working on the operator's behalf shall immediately report such findings to the Authorized Officer. The operator is fully accountable for the actions of their contractors and subcontractors. The operator shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery shall be made by the Authorized Officer to determine the appropriate actions that shall be required to prevent the loss of significant cultural or scientific values of the discovery. The operator shall be held responsible for the cost of the proper mitigation measures that the Authorized Officer assesses after consultation with the operator on the evaluation and decisions of the discovery. Any unauthorized collection or disturbance of cultural or paleontological resources may result in a shutdown order by the Authorized Officer.

IV. NOXIOUS WEEDS

The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

V. SPECIAL REQUIREMENT(S)

Timing Limitation Stipulation/Condition of Approval for Lesser Prairie-Chicken: Oil and gas activities including 3-D geophysical exploration, and drilling will not be allowed in lesser prairie-chicken habitat during the period from March 1 through June 15 annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, geophysical exploration other than 3-D operations, and pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Additionally, no new drilling will be allowed within up to 200 meters of leks known at the time of permitting. Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 ft. from the source of the noise.

Page 3 of 11

VI. CONSTRUCTION

A. NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Hobbs Field Station at (575) 393-3612 at least 3 working days prior to commencing construction of the access road and/or well pad.

When construction operations are being conducted on this well, the operator shall have the approved APD and Conditions of Approval (COA) on the well site and they shall be made available upon request by the Authorized Officer.

B. TOPSOIL

There is no measurable soil on this well pad to stockpile. No topsoil stockpile is required.

C. RESERVE PITS

The operator has applied for a closed-loop system. The operator shall properly dispose of drilling contents at an authorized disposal site.

D. FEDERAL MINERAL MATERIALS PIT

If the operator elects to surface the access road and/or well pad, mineral materials extracted during construction of the reserve pit may be used for surfacing the well pad and access road and other facilities on the lease.

Payment shall be made to the BLM prior to removal of any additional federal mineral materials from any site other than the reserve pit. Call the Carlsbad Field Office at (575) 234-5972.

E. WELL PAD SURFACING

Surfacing of the well pad is not required.

If the operator elects to surface the well pad, the surfacing material may be required to be removed at the time of reclamation.

The well pad shall be constructed in a manner which creates the smallest possible surface disturbance, consistent with safety and operational needs.

VII. DRILLING

A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified a minimum of 4 hours in advance for a representative to witness:

- a. Spudding well
- b. Setting and/or Cementing of all casing strings
- c. BOPE tests

Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 393-3612

- 1. A Hydrogen Sulfide (H2S) Drilling Plan should be activated 500 feet prior to drilling into the Grayburg formation. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.
- 2. 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.
- 3. 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.

B. CASING

Changes to the approved APD casing and cement program require submitting a sundry and receiving approval prior to work. Failure to obtain approval prior to work will result in an Incident of Non-Compliance being issued.

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

Wait on cement (WOC) time for a primary cement job will be a minimum 18 hours for a water basin, 24 hours in the potash area, or 500 pounds compressive strength, whichever is greater for all casing strings. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. See individual casing strings for details regarding lead cement slurry requirements. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

- 1. The 8-5/8 inch surface casing shall be set at approximately 1740 feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) 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 a surface log readout will be used or a cement bond log shall be run to verify the top of the cement.
 - b. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.
 - 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.

Formation below the 8-5/8" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe and the mud weight for the bottom of the hole. Report results to BLM office.

2. 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.

3. 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.

C. PRESSURE CONTROL

- 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. 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.

- 3. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. The tests shall be done by an independent service company.
 - b. The results of the test shall be reported to the appropriate BLM office.
 - c. 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.
 - d. 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.

Page 7 of 11

D. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

WWI 111108

VIII. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

Production facilities should be placed on the well pad to allow for maximum interim recontouring and revegetation of the well location.

Containment Structures

The containment structure shall be constructed to hold the capacity of the entire contents of the largest tank, plus 24 hour production, unless more stringent protective requirements are deemed necessary by the Authorized Officer.

Painting Requirement

All above-ground structures including meter housing that are not subject to safety requirements shall be painted a flat non-reflective paint color Shale Green, Munsell Soil Color Chart # 5Y 4/2

Page 8 of 11

IX. INTERIM RECLAMATION & RESERVE PIT CLOSURE

A. INTERIM RECLAMATION

If the well is a producer, interim reclamation shall be conducted on the well site in accordance with the orders of the Authorized Officer. The operator shall submit a Sundry Notices and Reports on Wells (Notice of Intent), Form 3160-5, prior to conducting interim reclamation.

During the life of the development, all disturbed areas not needed for active support of production operations should undergo interim reclamation in order to minimize the environmental impacts of development on other resources and uses.

Operators should work with BLM surface management specialists to devise the best strategies to reduce the size of the location. Any reductions should allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche is important to increasing the success of revegetating the site. Removed caliche may be used for road repairs, fire walls or for building other roads and locations. In order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for production or workover operations will be allowed. If there is significant disturbance and loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

Page 9 of 1

Seed Mixture for LPC Sand/Shinnery Sites

The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be <u>no</u> primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law(s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

Species

<u>lb/acre</u>

5lbs/A
5lbs/A
3lbs/A
6lbs/A
2lbs/A
1lbs/A

*Four-winged Saltbush

5lbs/A

* This can be used around well pads and other areas where caliche cannot be removed.

*Pounds of pure live seed:

Pounds of seed x percent purity x percent germination = pounds pure live seed

X. FINAL ABANDONMENT & REHABILITATION REQUIREMENTS

Upon abandonment of the well and/or when the access road is no longer in service the Authorized Officer shall issue instructions and/or orders for surface reclamation and restoration of all disturbed areas.

On private surface/federal mineral estate land the reclamation procedures on the road and well pad shall be accomplished in accordance with the private surface land owner agreement.

Page 11 of 11