### District 1 1625 N French Dr., Hobbs, NM 88240 Phone (575) 391-6161 Fax (575) 393-0720 District II 811 S. First St., Artesia, NM 88210 Phone (575) 748-1283 Fak (575) 748-9720 District\_UI 1000 Rio Brizos Road, Aztec, NM 87410

Phone. (505) 334-6178 Fax (505) 334-6170

1220 S St. Francis Dr., Santa Fe., NM 87505 Phone (505) 476-3460 Fax (505) 476-3462

### State of New Mexico

Form C-101 Revised August 1, 2011

Permit

Energy Minerals and Natural Resources

Oil Conservation Division

1220 South St. Francis Dr.

RCVD DEC 14'11

Santa Fe, NM 87505

OIL CONS. DIV.

DIST. 3

Operator Name and Address McElvain Energy, Inc 1050 17th St., Suite 2500 Denver, CO 80265-2080					KL-E	OGRID Number 22044									
Denver, CO 80265-2080										30-	0 6	15 –	35°	331	
Property Code 38390 Property N Pepper						erty Name	ie				Γ		Well No.		
						<sup>7</sup> Sur	face I	Locatio	n						
UL - Lot S	Section 32	Township 31N	Township Range Lot Idn Feet				Feet from 660	z	/S Line N		Feet From , 1445		E/W Line È		County San Juan
						<sup>8</sup> Poo	ol Info	rmatio	n						
Basin Fruitland Coal															71629
					A	dditiona			nation						
Work Ty	ype		10 ,	Well Type G		11 Ca	able/Rotar R	Ty		" Le	ase Type		'' C	round Leve 5547	
<sup>14</sup> Multip N	ole		15 Pro	posed Depth 1660'			Formation lured Cliffs				ontractor O Services		Spud Date December 27, 2011		
Depth to Ground	water 1	9.3 ft		Dista	nce from n	carest fresh v	water wel	11 2000 ft c	ast				arest surfa	rest surface water 4300 ft	
	,			19	Propo	sed_Cas	ing ar	nd_Cem	ent Pro	ogra	am				
Туре	Holo	Size	Casi	ng Size	Casing Weight/ft		n	Setting Depth Sacks of C		Ceine					
Surface		250"		625"		36#		522'			250			urface	
Production	8.7	50"	7.0	000"	20 #			1660' 200		0	surface		ırface		
									<del></del>						
				Casin	ng/Cen	nent Pro	gram	: Addit	ional C	Com	ments				
									1						
						ed Blow	out P	reventi				Τ		M 6 4	
D. 11	Туре				Working P			Test Pressure			igspace	Manufacturer			
LXXXIII	Ram hyd	raulic			200	00 		2000 Cameron or Shaffer							
												. <del></del>		**************************************	t .
I hereby certify that the information given above is true and complete to the best of my knowledge and belief					oest	OIL CONSERVATION DIVISION									
I further certify that the drilling pit will be constructed according to NMOCD guidelines X, a general permit \( \square\), or an (attached) alternative					-	Approved By									
OCD-approved plan [].					. ~	Charli Kerni 12-16-2011									
Printed name Robert E Fielder John & Lild					- Т	Title: SUPERVISOR DISTRICT # 3									
Title Agent					A	Approved [	EC 2	0 2	2011	Expir	ation Dat	DEC	2 0 201		
E-mail Address	pmci@	advantas.r	iet								•				
Date 12/13/201	1		P	hone (505)	320-1435		С	Conditions of Approval Attached							

### District I

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

District 1

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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) 476-3460 Fax. (505) 476-3462

## State of New Mexico

Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION

1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-102 Revised August 1, 2011

Revised August 1, 2011 Submit one copy to appropriate District Office

AMENDED REPORT

# WELL LÓCATION AND ACREAGÉ DEDICATION PLAT

30-045-35331				Pool Cod	· i	Pool Name Basin Fruitland Coal				
1 Property Code 38390				71629 Basin Fruitland Coal  5 Property Name PEPPER					6 Well Number	
7 OGRID N 22044			* Operator Name  McELVAIN ENERGY, INC.					<sup>9</sup> Elevation 5547		
	<sup>10</sup> Surface Location									
UL or Lot No.	Section 32	Township 31 N	Range 13 W	Lot Idn.	Feet from the 660	North/South Line	Feet from the	East/West Line East	County San Juan	
	!! Bottom Hole Location If Different From Surface									
ŬL or Lot No	Section	Township	Range Lot Idn. Feet from the North/South Line Feet from the East/West Line				County			
12 Dedicated Acres	13 Joint o	or Infill 14 (	Consolidation	Code	Order No.	•				

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.

West / West /	K5	79. Pase No. 6 V2NE/4) 9 5084-6 • 06.86222° N . 108.22428° W	26 Ch. / / / / / / / / / / / / / / / / / / /	17 OPERATOR CERTIFICATION  I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and this this organization either owns a working interest or unleased mineral interest in the land including the propused bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.
08	Sec.	.ease No. SW/4NE/4) (5084-6	Lease No. 0 (SE/4NE/4) Z E-1205-2	Signature Date  Robert E. Fielder  Printed Name  price advantas. net  E-mail Address  18 SURVEYOR CERTIFICATION
4' E	32		41.14 Ch.	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 supervision, and that the same is true and correct to the best of my belief.  Date of Syrvey
\$ 89°30′, W, 39	9.82 Ch.	N 88°41' W	'M,69°0 N ', 40.36 Ch.	Signature no Stal of Hofessional Surveyor  William E. Mahnke I.  Certificate Number 8466

# McElvain Oil & Gas Properties, Inc. Pepper No. 1 660' FNL & 1445' FEL Section 32, T31N, R13W, NMPM San Juan County, New Mexico

# TEN POINT DRILLING PROGRAM

1. Surface Formation: Ojo Alamo

2. Surface Elevation: 5547'GL.

# 3. Estimated Formation Tops:

Formation	Top - feet	Expected Production
Ojo Alamo	surface	
Kirtland	· 555 .	
Fruitland	910	GAS
Pictured Cliffs	1510	GAS .
TOTAL DEPTH	1660	

# 4. Surface Hole Program:

Bit: Drill an  $12\frac{1}{3}$ " hole to 522' using a retip mill tooth, IADC Class 115 or 116, bit. WOB: all. RPM: 70 - 100.

Mud: Use a fresh water base spud mud with the following properties:

Interval (ft) ·	Weight (ppg)	<u>Ph</u>	Vis(sec/qt)	Water Loss
			•	
0 - 522	8.6 or less	9.0-9.	5 40 - 50	No Control

Casing and Cementing: A string of 9%" 36 ppf J-55 or K-55 ST&C casing will be set and cemented to the surface in a single stage with 250 sacks (350.0 cf) of Type III cement (yield = 1.40 cf/sk) containing 3% CaCl<sub>2</sub> and 0.25 pps celloflake. Slurry volume assumes 100% excess over calculated hole volume. If cement does not circulate to surface, cement will be topped off using 1" pipe down the 12%" by 9%" annulus. Minimum clearance between couplings and hole is 0.8125". Prior to drilling out the shoe, casing and BOPE will be tested to a minimum of 600 psig. Safety factors utilized in the design of this casing string were: burst = 1.1; collapse = 1.125; and tension = 1.8.

WOC 12 HOURS. Nipple up 11" 2000# BOPE. Pressure test BOPE to full working pressure using a test plug. Drill out cement to within five feet of surface casing shoe. Test surface casing and BOPE to a minimum of 600 psig for 15 minutes.

Centralizers: Run four (4) 9%" X 12%" regular bowspring centralizers. Install first one on stop ring in middle of shoe joint.

Float Equipment: Cement nose guide shoe on bottom and self fill insert float valve run one joint above shoe. Thread lock shoe and connection between first and second joint run.

Drilling Program
McElvain Oil & Gas Properties, Inc.
Pepper No. 1
Page Two

# 5. Production Hole Program:

Bit: Drill an 8%" hole to 1660' using a TCI, IADC Class 447 bit. WOB: 30-35K. RPM: 60-75. Hold RPM at 55-65 through Ojo Alamo.

**Mud:** Use a fresh water base polymer and water system to drill this section. If hole conditions dictate, mud up with a fresh water base LSND mud with the following properties:

Interval (ft)	Weight (ppg)	<u>Ph</u>	Vis(sec/qt)	Water Loss
522 - 1660	8.6 - 8.8	9.0-9.5	28 - 35	10 - 12

Fresh water will be used for dilution and building volume. Sufficient materials will be on location at all times to maintain mud properties and to control any lost circulation problem or unforeseen abnormal pressures. The mud volume in the surface pit will be visually monitored and recorded on a routine basis.

Note: If mud up is required, raise **viscosity** to 55 - 60 for logging. Thin to 40 - 45 viscosity to run casing.

**pH** is to be maintained with lime or caustic soda at the recommended levels to assure drill pipe corrosion protection.

Drispac will be used for control of fluid loss.

<u>Lost Circulation</u> can occur in the Fruitland Coal and Pictured Cliffs formation. Mud weights should be controlled as low as possible with water dilution.

Pressure Control: A 2M psi BOP well control system will be utilized. BOP's and choke manifold will be installed and pressure tested to full working pressure. Surface casing and BOPE will be tested to a minimum of 600 psig before drilling out from under surface casing. Mechanical operation of pipe rams will be checked daily and blind rams will be checked on each trip out of hole. 7" rams will be installed before running production casing. A full opening internal blowout preventor or drill pipe safety valve will be on the drill floor at all times and will be capable of fitting all connections.

Logging Program: Dual Induction with GR, caliper and Epithermal Neutron/Formation Density logs (triple combo configuration) will be run from TD to the surface casing shoe. GR and Neutron will be pulled to surface.

Casing and Cementing Program: Run 7" 20 ppf J-55 production casing from surface to TD and cement in a single stage with 80 sacks (204.0 cf) of Type III containing 3% sodium metasilicate extender, 5 pps Gilsonite and 1/4 pps celloflake. Lead slurry mixed at 11.8 PPG to yield 2.55 cf/sk. Tail in with 120 sacks (174.0 cf) of Type III with 0.25 pps celloflake, 0.3% FLA, 0.2% dispersant and 5 pps gilsonite mixed at 14.3 PPG to yield 1.45 cf/sk.

Drilling Program
McElvain Oil & Gas Properties, Inc.
Pepper No. 1

Page Three

# 5. Production Hole Program: -continued

Slurry volumes assume a 50% excess over gauge hole volume to circulate to surface. Minimum clearance between couplings and hole is 0.5470". Safety factors utilized in the design of this casing string were: burst = 1.1; collapse = 1.125; and tension = 1.8.

Centralizers:  $5 - 7" \times 8"$  bowspring centralizers will be run across all prospective pays and  $3 - 7" \times 8"$  turbolizers will be spaced such that one (1) is just below the base of the Fruitland coal, one just below the base of the Ojo Alamo and one (1) in the Ojo Alamo.

Float Equipment: Cement nose guide shoe, 1 joint 7" casing, and float
collar.

# 6. Auxiliary Equipment:

An upper kelly cock will be utilized. The handle will be available on rig floor at all times

# 7. Logging Program:

Dual Induction with GR and caliper and Epithermal Neutron / Formation Density (triple combo configuration) will be run from TD to surface casing shoe. GR and neutron will be pulled to surface. Bulk density will be presented on a 5 " scale through the coals. Deep induction curve will be merged onto the porosity log.

# Coring and Testing Program:

No cores or drill stem tests are planned.

# 8. Abnormal Pressure:

Although not expected, abnormal pressures are possible in the Fruitland formation.

# Estimated Bottom Hole Pressure:

250 - 300 psig.

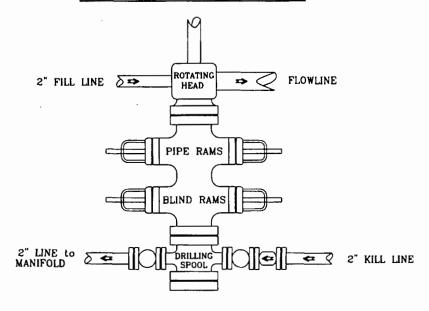
# 9. Anticipated Starting Date:

December 15, 2011

**Duration of Operations:** It is estimated a total of 6 days will be required for drilling operations and 5 days for the completion operation.

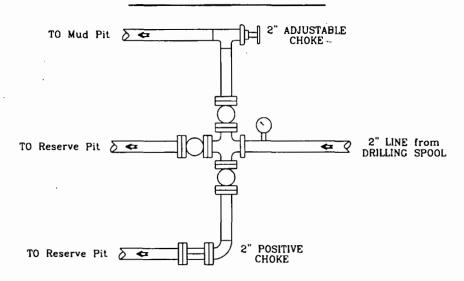
# PRESSURE CONTROL

# Wellhead Assembly



Preventer and Spools are to have a 6" Bore or larger and a 2000 PSI or higher Pressure Rating-

# Choke Manifold



# McElvain Energy, Inc.

Pepper No. 1 660' FNL - 1445' FEL Section 32, T31N, R13W, NMPM San Juan County, New Mexico