## RECEIVED

Form 3160-3 (April 2004) FEB 2 4 2010

FORM APPROVED OMB No. 1004-0137 Expires March 31, 2007

UNITED STATES	Sureau of Lanc Manage
EPARTMENT OF THE INTER	RIOR Farmington Field Offi
BUREAU OF LAND MANAGEN	
ON FOR PERMIT TO DRIL	I OR REENTER

Lease Serial No.

BUREAU OF LAND MA	, INTERIOR " œm###################################	NMNM09867
APPLICATION FOR PERMIT TO		6. If Indian, Allotee or Tribe Name
a. Type of work: DRILL REEN	7 If Unit or CA Agreement, Name and No. N MN M-121467 - FC	
	8. Lease Name and Well No.	
o. Type of Well: Oil Well Gas Well Other	✓ Single Zone Multip	ple Zone Reya No. 1
Name of Operator  McElvain Oil & Gas Properties, Inc.	9 API Well No. 30-045-35/12	
. Address 1050 17th Street, Suite 1800	3b Phone No. (include area code)	10. Field and Pool, or Exploratory
Denver, CO 80265-1801	303-893-0933X375	Basin Fruitland Coal
Location of Well (Report location clearly and in accordance with	arry State requirements.*)	11. Sec., T. R. M. or Blk. and Survey or Area
At surface 960' FNL - 1260' FEL, Section 20	, T30N, R13W, NMPM	A C-4- 20 T20N D12W NMDM
At proposed prod. zone same		Section 20, T30N, R13W, NMPM
Distance in miles and direction from nearest town or post office*		12 County or Parish 13. State
5 miles north of Farmington, NM		San Juan NM
Distance from proposed* location to nearest	16. No. of acres in lease	17. Spacing Unit dedicated to this well
property or lease line, ft. (Also to nearest drig. unit line, if any)  960	160	N/2-323.74 acs. 320.00
Distance from proposed location* to nearest well, drilling, completed,	19. Proposed Depth	20 BLM/BIA Bond No. on file
applied for, on this lease, ft	1546'	NM0253
Elevations (Show whether DF, KDB, RT, GL, etc.) 5540' GL	22. Approximate date work will star 03/01/2010	rt* 23. Estimated duration 11 days
	24. Attachments	
following, completed in accordance with the requirements of Onsh	nore Oil and Gas Order No.1, shall be at	ttached to this form:
Well plat certified by a registered surveyor.  A Drilling Plan.  A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office).	Item 20 above).  5. Operator certific  6. Such other site s	specific information and/or plans as may be required by the
	authorized office	
Signature Robert E. Fild	Name (Printed/Typed) Robert E. Fielder	Date 02/24/2010
Agent		
roved by (Signanire) Mankelsey	Name (Printed/Typed)	Date 3/12/20
AFN	Office FFC	)
lication approval does not warrant or certify that the applicant hol luct operations thereon. ditions of approval, if any, are attached.	lds legal or equitable title to those right	s in the subject lease which would entitle the applicant to
18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a es any false, fictitious or fraudulent statements or representations as	crime for any person knowingly and w s to any matter within its jurisdiction.	rillfully to make to any department or agency of the United
SEE ATTACH CONDITIONS OF		'S APPROVAL OR ACCEPTANCE OF THIS ON DOES NOT RELIEVE THE LESSEE AN
OPERATIONS AUTHORIZED ARE TO COMPILIANCE WITH ATTACHED MAR 1 7 2010 REQUIREMENTS.	OPER	RATOR FROM OBTAINING ANY OTHER HORIZATION REQUIRED FOR OPERATION

SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".

AUTHORIZATION REQUIRED FOR OPERATIONS REPORT AND TENDEN OF 24 HRS.

A COMPLETE C-144 MUST BE SUBMITTED TRANS TO CASING & CEMENT

APPROVED BY THE NMOCD FOR: A PIT, CLOSED LOOP SYSTEM, BELOW GRADE TANK, OR PROPOSED ALTERNATIVE METHOD, PURSUANT TO NMOCD PART 19.15.17, PRIOR TO THE USE OR CONSTRUCTION OF THE ABOVE APPLICATIONS.

This action is subject to technical and procedural review pursuant to 43 OFR 3165 3 and appeal pursuant to 43 CFR 3165.4 DISTRICT 1 1625 N. French Dr., Hobbs, N.M. 88240 State of New Mexico

Energy, Minerals & Natural Resources Department

Submit to Appropriate District Office

Chain Lease — 4 Copies

DISTRICT II 1301 W. Grand Avenue, Artesia, N.M. 88210

OIL CONSERVATION DIVISIONEB 2 4 2010 1220 South St. Francis Dr.

State Lease — 4 Copies Fee Lease — 3 Copies

DISTRICT III 1000 Rio Brazos Rd., Astec, N.M. 87410

AMENDED REPORT

1220 S. St. Francis Dr., Santa Fe, NM 87505

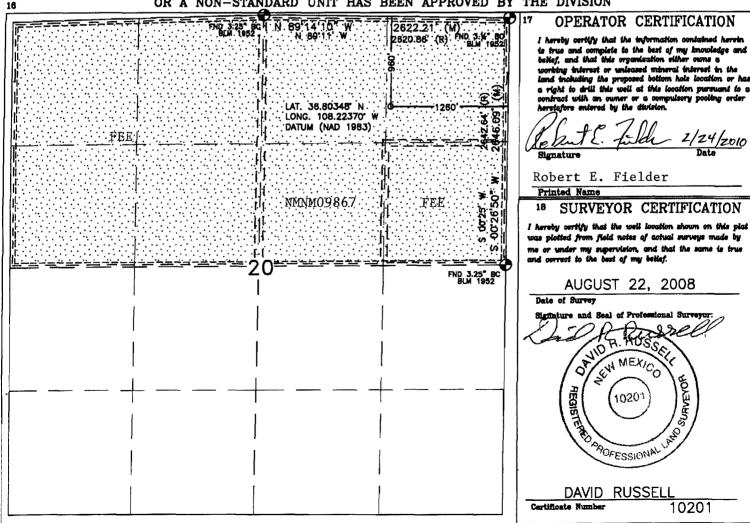
Santa Fe, NM 87595 reau of Land Management Famington Field Office F DEDICATION PLAT WELL TOCKTION AND ACDEVOE

	MEDI POCULION WAD WO	REAGE DEDICATION PLAT	
<sup>1</sup> API Number	*Pool Code		
30.045-38112	71629		
Property Code	Property	Well Number	
36593	REYA	1	
OGRID No.	*Operator	Risvation	
22044	McELVAIN OIL AND GAS	5540'	

<sup>10</sup> Surface Location UL or lot no. North/South line East/West line Section Township lot Idn Feet from the Feet from the Range County 1260' 20 **30N** 13W 960' **NORTH EAST** SAN JUAN A <sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no. Secti	on Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
323.74 Acres	- (N/2)	Joint or	Infill	<sup>14</sup> Consolidation C	ode	<sup>18</sup> 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



# McElvain Oil & Gas Properties, Inc. Reya No. 1 960' FNL & 1260' FEL Section 20, T30N, R13W, NMPM San Juan County, New Mexico

#### TEN POINT DRILLING PROGRAM

1. Surface Formation: Ojo Alamo

2. Surface Elevation: 5540'GL.

#### 3. Estimated Formation Tops:

Formation	Top - feet	Expected Production
Ojo Alamo	surface	
Kirtland	746	
Fruitland	1146	GAS
Pictured Cliffs	1396	GAS
TOTAL DEPTH	1546	

#### 4. Surface Hole Program:

Bit: Drill an 124" hole to 500' 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 - 500	8.6 or less	9.0-9.5	5 40 - 50	No Control

Casing and Cementing: A string of 8%" 24 ppf J-55 or K-55 ST&C casing will be set and cemented to the surface in a single stage with 350 sacks (413.0 cf) of Class "B" cement (yield = 1.18 cf/sk) containing 3% CaCl<sub>2</sub> and 1/4 lb/sack 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 8%" annulus. Minimum clearance between couplings and hole is 1.3125". 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. \* See drilling Coh

Centralizers: Run four (4) 8%" X 124" 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.

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McElvain Oil & Gas Properties, Inc.
Reya No. 1
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#### 5. Production Hole Program:

Bit: Drill a 7%" hole to 1546' 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
500 - 1546	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 solids control equipment then as low as practical 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. 5½" 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 and Epithermal Neutron/Formation Density logs will be run from TD to the surface casing shoe.

Casing and Cementing Program: Run 5½" 15.5 ppf J-55 production casing from surface to TD and cement in a single stage with 115 sacks (293.25 cf) of Class B 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 90 sacks (107.1 cf) of Class B with 0.25 pps celloflake, 0.3% FLA and 5 pps gilsonite mixed at 15.6 PPG to yield 1.19 cf/sk.

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#### 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 0.9125". Safety factors utilized in the design of this casing string were: burst = 1.1; collapse = 1.125; and tension = 1.8.

Centralizers: 5 - 5 %" X 7 %" bowspring centralizers will be run across all prospective pays and 3 - 5 %" X 7 %" 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 42" casing, and float collar.

#### 6. Auxiliary Equipment:

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

#### 7. Logging Program:

Dual Induction and Epithermal Neutron / Formation Density will be run from TD to surface casing shoe. 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.

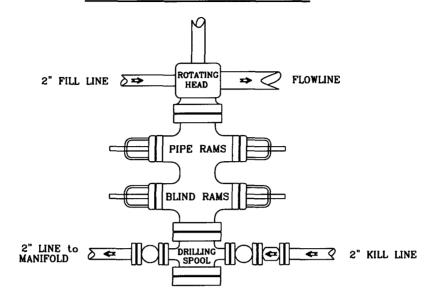
#### 9. Anticipated Starting Date:

March 1, 2010

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

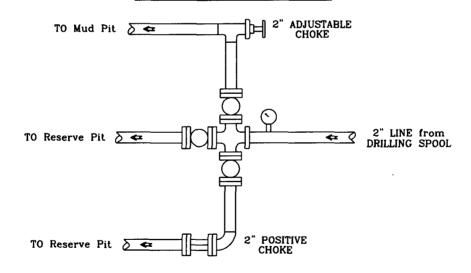
# PRESSURE CONTROL

## Wellhead Assembly



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

## Choke Manifold



# McElvain Oil & Gas Properties, Inc.

Reya No. 1 960' FNL - 1260' FEL Section 20, T30N, R13W, NMPM San Juan County, New Mexico

## **DRILLING CONDITIONS OF APPROVAL**

Operator: McElvain Oil & Gas Properties

Lease No.: NMNM-09867

Well Name: Reya #1

Well Location: Sec.20, T30N, R13W; 960' FNL & 1260' FEL

1) Test the 8.625" surface casing to a minimum of 600 psi for 30 minutes.

2) Upon completion, test the 5.5" casing to a minimum of 1500 psi for 30 minutes.