Form 3160 3 (September 2001)

UNITED STATES

FORM APPROVED OMB No. 1004-0136 Expires January 31, 2004

DEPARTMENT OF THE BUREAU OF LAND MAN	INTERNATION 5 AM		ease Senai No. SF <b>065557</b>	
APPLICATION FOR PERMIT TO		6. If	Indian, Allotee or Trib	e Name
la. Type of work: DRILL REENT	OTO EARMINOT		Unit or CA Agreement,	Name and No.
lb. Type of Well: ☐Oil Well ☐Gas Well ☐Other	8. Lease Name and Well No. PRI No. 3			
2. Name of Operator McElvain Oil & Gas Properties, Inc.			PI Well No. 56-645-	3766
3a. Address 1050 17th Street, Suite 1800 Denver, CO 80265-1801	3b. Phone No. (include area code) 10. Field and Pool, or Explor 303.893.0933 502 2 3 Otero Chacra		eld and Pool, or Explora	
4. Location of Well (Report location clearly and in accordance with an At surface 1675' FSL - 1035' FEL, Section 11,	. W. 1.5		c., T. R. M. or Blk. and :	-
At proposed prod. zone Same	2 00 00 00 00 00 00 00 00 00 00 00 00 00	5 5		
14. Distance in miles and direction from nearest town or post office* 4.5 miles southeast of Flora Vista, New Mexico	E 46/49		ounty or Parish San Juan	13. State NM
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)  940	16. No. of acres in lease 626.48	17. Spacing Unit d	g. Unit dedicated to this well   ,   - 161-10 acs.	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.  575	19. Proposed Depth 3091'	20. BLM/BIA Bon LPM413822:	BIA Bond No. on file 4138223	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5700' GL	22 Approximate date work will start* 23. Estimated duration 11/30/2004 10 days			
	24. Attachments			
The following, completed in accordance with the requirements of Onsho	ore Oil and Gas Order No.1, shall be	attached to this form:		-
Well plat certified by a registered surveyor.     A Drilling Plan.	4. Bond to cover 1 Item 20 above).		s covered by an existing	g bond on file (s
3. A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office).	·	specific information	n and/or plans as may b	e required by the
25. Signature /// f ? ///	Name (Printed/Typed)	· · · · · · · · · · · · · · · · · · ·		Date
Title	Robert E. Fielder	<del></del>	1	1/04/2004
Agent Approved by (Signature)	Name (Printed/Typed)	<del></del>	ID4	-
Tide (Signature) Approved by (Signature) (Signature)	Ivalie (Frimew Typea)		Date	<del>/-</del>
Title AFM	Office			
Application approval does not warrant or certify that the applicant hole conduct operations thereon.  Conditions of approval, if any, are attached.	ds legal or equitable title to those righ	nts in the subject leas	e which would entitle th	e applicant to
			ny department or agenc	

\*(Instructions on page 2)

District I PO Box 1980, Hobbs, NM 88241-1980

District II PO Drawer DD, Artesia, NM 88211-0719

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

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised February 21, 1994

Instructions on back Submit to Appropriate District Office State Lease - 4 Copies

OIL CONSERVATION DIVISION PO Box 2088

Fee Lease - 3 Copies

Santa Fe, NM 87504-2088

AMENDED REPORT

District IV PO Box 2088, Santa Fe. NM 87504-2088

WELL LOCATION AND ACREAGE DEDICATION, PLAT

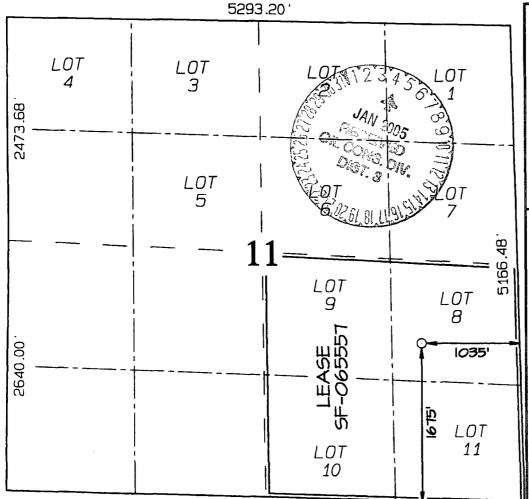
2004 NOV

AM 11 19

API Number	*Pool Code	Pool Name	
30.045-32667 8232		OTERO CHACRA	Д
34482		Property Name PRI	Well Number 3
'0GRID No. 22044		*Operator Name & GAS PROPERTIES, INC.	*Elevation 5700

<sup>10</sup> Surface Location UL or lot no. Sect ion Lot Ide Jorth/South line County Township Flance Feet from the East/West line 1675 SOUTH 29N 12W 1035 EAST Ι 11 SAN JUAN 11 Bottom Hole Location Ιf Different From Surface UL or lot no. Section Township Lot Ion Feet from the North/South line Feet from the East/West line County <sup>13</sup> Joint or Infill <sup>14</sup> Consolidation Code <sup>12</sup> Dedicated Acres <sup>60</sup> Order No. (SE/4) Acres -

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



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief

Signature

Robert E. Fielder

Printed Name

Agent

Title

November 4, 2004

Date

18 SURVEYOR CERTIFICATION

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.

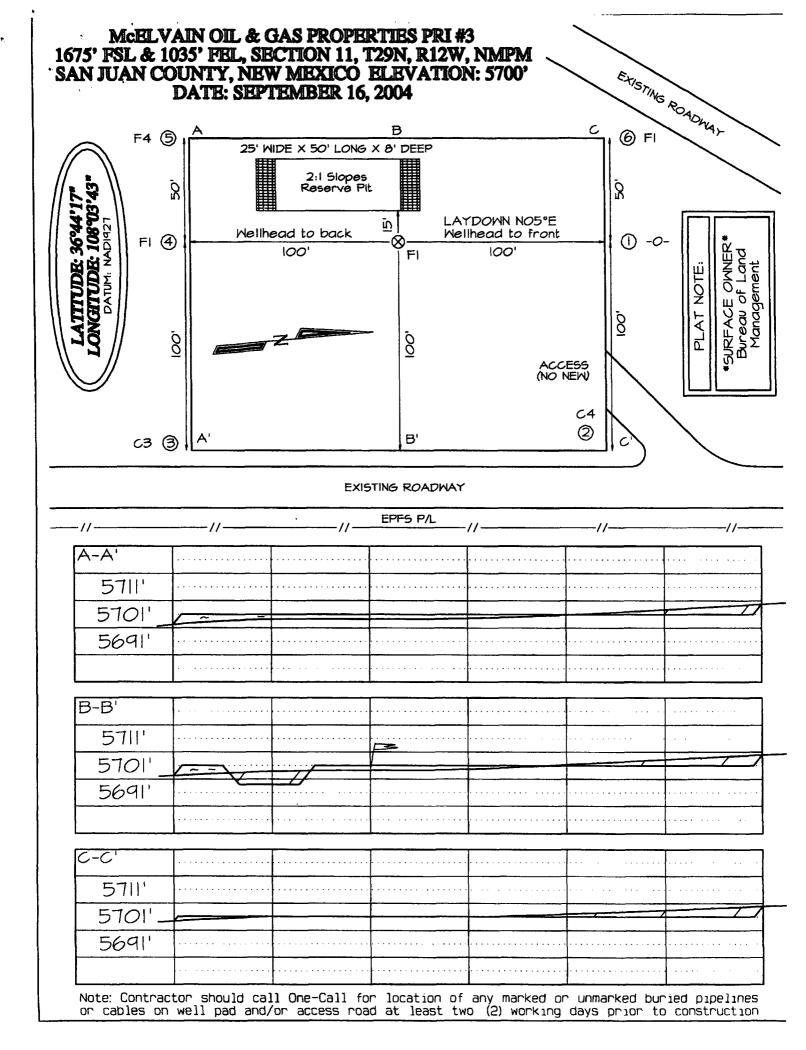
Survey Date: SEPTEMBER 16, 2004

Signature and Seal of Professional Surveyor



DWARDS Certificate Number 15269

5446.32



## McElvain Oil & Gas Properties, Inc.

#### PRI No. 3

### 1675' FSL & 1035' FEL Section 11, T29N, R12W, NMPM San Juan County, New Mexico

#### TEN POINT DRILLING PROGRAM

- 1. Surface Formation: Nacimiento
- 2. Surface Elevation: 5700'GL.

#### 3. Estimated Formation Tops:

Formation	Top - feet	Expected Production
Ojo Alamo	376	
Kirtland	561	
Farmington	1271	
Fruitland	1511	GAS
Pictured Cliffs	1791	GAS
Lewis	1991	
Huerfanito	2491	
Chacra	2891	GAS
TOTAL DEPTH	3091	

#### 4. Surface Hole Program:

Bit: Drill an 8%" hole to 200' 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:

<pre>Interval (ft)</pre>	Weight (ppg)	<u>Ph</u>	Vis(sec/qt)	Water Loss
0 - 200	8.6 or less	9.0-9	.5 40 - 50	No Control

Casing and Cementing: A string of 7" 20 ppf J-55 or K-55 ST&C casing will be set and cemented to the surface in a single stage with 50 sacks (59.0 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 8%" by 7" annulus. Minimum clearance between couplings and hole is 0.5470". 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 or 100,000 lb overpull, whichever is greater.

WOC 12 HOURS. Nipple up 7 1/16" 2000# BOPE. Pressure test surface casing and BOPE to 600 psi for 15 minutes.

Centralizers: Run two (2) 7" X 8¾" regular bowspring centralizers. Install first one on stop ring in middle of shoe joint.

Float Equipment: Cement nose guide shoe thread locked. Also thread lock connection between first and second joint run.

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#### 5. Production Hole Program:

Bit: Drill a  $6\frac{1}{4}$ " hole to 3091' using a TCI, IADC Class 447 bit. WOB: 30-35K. RPM: 60-75. Reduce RPM to 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)	Ph	Vis(sec/qt)	Water Loss
200 - 3091	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 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. 4%" 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 Compensated Neutron/Formation Density logs will be run from TD to the surface casing shoe.

Casing and Cementing Program: Run 4½" 10.5 ppf J-55 production casing from surface to TD and cement in a single stage with 150 sacks (382.5 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 75 sacks (88.5 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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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 0.6250". Safety factors utilized in the design of this casing string were: burst = 1.1; collapse = 1.125; and tension = 1.8 or 100,000 lb over pull, whichever is greater.

Centralizers: 8 - 4 % X 6 % bowspring centralizers will be run across all prospective pays and 3 - 4 % X 6 % 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 4½" 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 and Compensated 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.

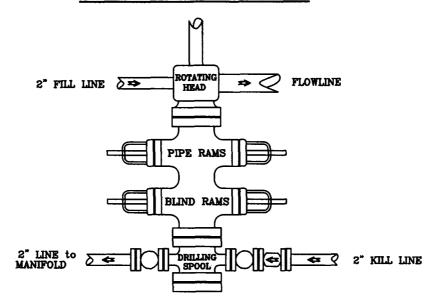
#### 9. Anticipated Starting Date:

November 30, 2004

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

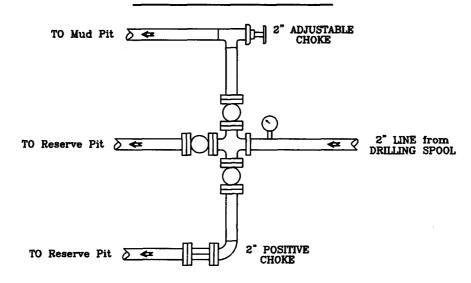
# PRESSURE CONTROL

# 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.

PRI No. 3

1675' FSL - 1035' FEL Section 11, T29N, R12W, NMPM San Juan County, New Mexico