District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr

Form C-101 May 27, 2004

Submit to appropriate District Office

☐ AMENDED REPORT

1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Santa Fe, NM 87505

<u>APPI</u>	LICATI	ON FO	Operator Name			ENTER, D	<u>EEPEN</u>	N, PLUGBAO			O A ZONE
Operator Name and Address McElvain Oil & Gas Properties, Inc. 1050 17th Street, Suite1800 Denver, CO 80265-1801						22044 23 API Number					
						30-04	5-113	<u> 32</u>	35		
Property Code					<sup>3</sup> Property 1 Sadie	Name				<sup>6</sup> Well 1	No.
			9 Proposed Pool 1					<sup>10</sup> Prop	osed Pool 2		
_		I	Basin Fruitland Coal		7 Cumfa 22	Location	_				
UL or lot no.	Section	Township	Range	Lot 1			South line	Feet from the	East/Wes	t line T	County
P	8	30N	11W	1.00	122	l l	South	1140	East		San Juan
			<sup>8</sup> Propo	sed Bott	om Hole Locat	ion If Differe	nt From	Surface			
UL or lot no.	Section	Township	Range	Lot l	dn Feet fro	m the North	South line	Feet from the	East/West line County		County
			<u>k</u>		lditional We						
11 Work	Type Code N		12 Well Type Coo G					<sup>14</sup> Lease Type Code P		15 Ground Level Elevation 5582'	
<sup>16</sup> N	lultiple N		<sup>17</sup> Proposed Dept 2338'	pth 18 Formation Lewis				<sup>19</sup> Contractor D&D Service		<sup>20</sup> Spud Date November 1, 2005	
Depth to Grou	ındwater 🗸			Distance	Distance from nearest fresh water well			Distance from	Distance from nearest surface water		
	Synthetic		mils thick Clay	Pit Vol	ume:bbls	Drilling Method:  Fresh Water X Brine ☐ Diesel/Oil-based ☐ Gas/Air ☐					
Ciose	d-Loop Syst	tem X	21	Propos	sed Casing a		Program		based [ ] C	jas/Air I	
Hole S	Size	С	asing Size	Proposed Casing and Cem Casing weight/foot Sett			Depth	Sacks of Ce	ement		Estimated TOC
12.25			-8.625"		24		200 140				
7.87			5.500"		15.5		2338' 310				
				•							
		<del>                                     </del>				* ** <sub>1</sub>					
<sup>22</sup> Describe t	he proposed	program.	If this application is	to DEEPI	EN or PLUG BAC	K, give the data	on the pres	sent productive zone	and propo	sed new	productive zone.
Drill 12 ¼" h # BOPE. Pres production ca casing to 350 This well is c fluids will be Drilling fluid	ole to 200° issure test sursing in a sir 30 psig for 30 30-located w 31 retained in 31 31 liquid phase	using fresh rface casing ngle stage v 0 minutes. ith the Bay steel above e and produ	g and BOPE to mini with cement returns to Perforate select Frui	Run and comum of 60 to surface. Itland Coal No. 1 we cuttings a pauled to a	ement surface casi 00 psig for 15 min Move out drilling intervals and stim Il in Riverside Parind mud solids will commercial dispos	ng in a single st utes. Drill 7 7/8 rig. Move in co nulate using a 29 k. There will be be hauled to a sal facility during	'hole to TI mpletion eo 6 KCl based no pits or it commercial g the life of	Dusing fresh water in quipment. Run cased d system. See attach ampoundments for station disposal facility up f the well.	nud system I hole corre ed drilling orage of dri	i. Log we lation log program illing or j	for specific details.  production fluids. Al
22						· · · · · · · · · · · · · · · · · · ·					
<sup>23</sup> I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCD guidelines a general permit , or an (attached) alternative OCD-approved plan .				Approved by:							
Printed name	Robert E. I	Fielder	Kaput	E. Fi	Ida	Title: <b>DEFO</b>	Y OH &	GAS INSPECTO	2, DIST. /		0 0 0
Title: Agent				Approval Da	IUL 2	8 2005 E	xpiration D	ate:UL	. z & 2006		
E-mail Addre	ss: pmci@a	es-online.n	et						<b>_</b>		
Date: July 28, 2005 Phone: 505,632,3869				Conditions of	Annroval A	ttoched [7	+	, .			

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

District IV PO Box 2088. Santa Fe, NM 87504-2088 State of New Mexico Energy, Minerals & Natural Resources Department

Revised February 21, 1994 Instructions on back Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

AMENDED REPORT

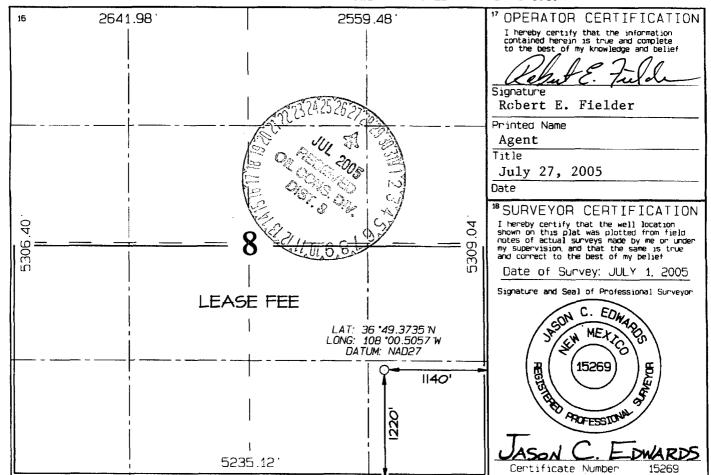
Form C-102

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

'API Number	*Pool Code	³Poo1 Name			
30-045-33255	71629	BASIN FRUITLAND COAL			
Property Code		Property Name	*Well Number		
34984		SADIE	1		
'OGRID No.		*Operator Name	°Elevation		
22044	McELVA	IN OIL & GAS PROPERTIES	5582		

<sup>10</sup> Surface Location UL or lot no. Section Township Range Lot Ion Feet from the North/South 1the Feet from the East/West line County P 8 30N 1220 11W SOUTH 1140 EAST SAN JUAN <sup>11</sup>Bottom Hole Location If From Surface Different UL or lat no Section Township Lot Idn Feet from the North/South line Feet from the County East/West line 12 Dedicated Acres <sup>13</sup> Joint or Infill <sup>\$4</sup> Consolidation Code <sup>15</sup> Order No. 320.0 Acres - S/2

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. Sadie No. 1 1220' FSL & 1140' FEL Section 8, T30N, R11W, NMPM San Juan County, New Mexico

#### TEN POINT DRILLING PROGRAM

1. Surface Formation: Nacimiento

2. Surface Elevation: 5582'GL.

#### 3. Estimated Formation Tops:

Formation	Top - feet	Expected Production
Nacimiento	surface	
Ojo Alamo	468	
Kirtland	588	
Farmington	1488	
Fruitland	1728	
Pictured Cliffs	1988	GAS
Lewis	2188	
TOTAL DEPTH	2338	

#### 4. Surface Hole Program:

**Bit:** Drill an  $12\frac{1}{4}$ " 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:

Interval (ft)	Weight (ppg)	<u>Ph</u>	<pre>Vis(sec/qt)</pre>	Water Loss
0 - 200	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 140 sacks (165.2 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 surface casing and BOPE to 600 psi for 15 minutes.

**Centralizers:** Run two (2)  $12\frac{1}{4}$ " X  $8\frac{1}{4}$ " 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.

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

Page Two

#### 5. Production Hole Program:

**Bit:** Drill a 7%" hole to 2338' 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:

<u>Interval (ft)</u>	Weight (ppg)	<u>Ph</u>	<u>Vis(sec/qt)</u>	Water Loss
200 - 2336	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.

 $\underline{\text{Note:}}$  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. 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 Compensated Neutron/Formation Density logs will be run from TD to the surface casing shoe.

Casing and Cementing Program: Run 5%" 15.5 ppf J-55 production casing from surface to TD and cement in a single stage with 175 sacks (446.25 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 135 sacks (160.65 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.

Drilling Program McElvain Oil & Gas Properties, Inc. Sadie 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 0.9125". Safety factors utilized in the design of this casing string were: burst = 1.1; collapse = 1.125; and tension = 1.8.

**Centralizers:**  $5 - 5 \frac{1}{2}$ " X  $7 \frac{1}{2}$ " bowspring centralizers will be run across all prospective pays and  $2 - 5 \frac{1}{2}$ " X  $7 \frac{1}{2}$ " turbolizers will be spaced such that one (1) is just below the base of the Ojo Alamo and one (1) in the Ojo Alamo.

Float Equipment: Cement nose guide shoe, 1 joint 5½" 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:

750 - 1000 psig.

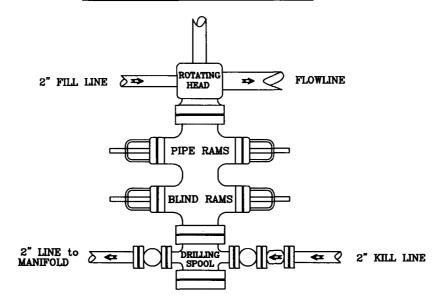
#### 9. Anticipated Starting Date:

November 1, 2005

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

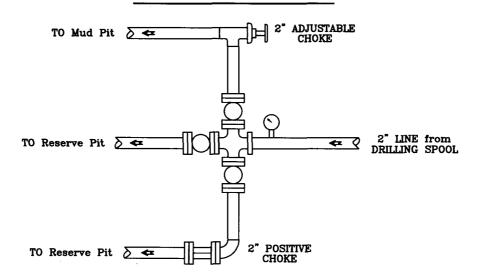
# PRESSURE CONTROL

## 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.

Sadie No. 1 1220' FSL - 1140' FEL Section 8, T30N, R11W, NMPM San Juan County, New Mexico