Form 3160-3 (September 2001)



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

DEPARTMENT OF THE I BUREAU OF LAND\MAN	SF079148 6: If Indian, Allotee or Tribe Name				
APPLICATION FOR PERMIT TO					
la. Type of work: DRILL REENTE	7 If Unit or CA Agre	7 If Unit or CA Agreement, Name and No.			
lb. Type of Well: Oil Well Gas Well Other	8. Lease Name and Well No. Sandstone Com No. 1B				
2. Name of Operator McElvain Oil & Gas Properties, Inc.			9. API WOLLNO.	045	-323
3a. Address 1050 17th Street, Suite 1800 Denver, CO 80265	3b. Phone No. (include area code) 303.893.0933x302		10. Field and Pool, or Exploratory Blanco Mesa Verde		
4. Location of Well (Report location clearly and in accordance with an At surface 2340' FSL - 750' FWL, Section 34, 'At proposed prod. zone Same	11. Sec., T. R. M. or Blk. and Survey or Area Sec. 34, T32N, R9W, NMPM				
14. Distance in miles and direction from nearest town or post office* 18 miles norteast of Aztec, NM	12. County or Parish San Juan	/	13. State NM		
15. Distance from proposed* location to nearest property or lease line, it. (Also to nearest drig, unit line, if any) 750'	16. No. of acres in lease 17. Spacing Unit dedicated to this well 389.4 W/2 - 307.25 acs.				
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 1700	19. Proposed Depth 6235'	/BIA Bond No. un file 14138223			
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 6588' GL	22. Approximate date work will star 09/01/2004	rt*	23. Estimated duration 20 days	on	
	24. Attachments				
 The following, completed in accordance with the requirements of Onshor 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). 	4. Bond to cover the ltem 20 above). Lands, the 5. Operator certific	he operation cation specific inf	nis form: ons unless covered by an ormation and/or plans a	·	•
25. Signature Kolsut E. Fielde	Name (Printed Typed) Robert E. Fielder			Date 05.	/24/2004
Agent					
Approved by (Standare) Title	Name (Printed/Typed) Wayne Office	Town	send	Date /	19/0
Acting AFM	FFO				
Application approval does not warrant or certify that the applicant hold conduct operations thereon.	s legal or equitable title to those righ	ts in the sul	oject lease which would	entitle the	applicant to

Title 18 U.S.C. Section 1001 and Tide 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, flectitious or fraudulent statements or representations as to any matter within its jurisdiction.

*(Instructions on page 2)

Conditions of approval, if any, are attached.

AT THE ASSESSMENT AND TACHED GENERAL PECCHED GENERAL PECCHEDINEMENTS".

NMOCD

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

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

Instructions on back Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

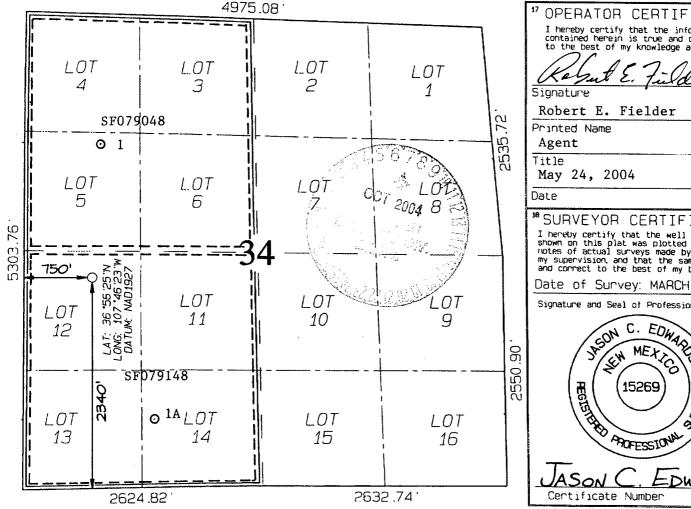
AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

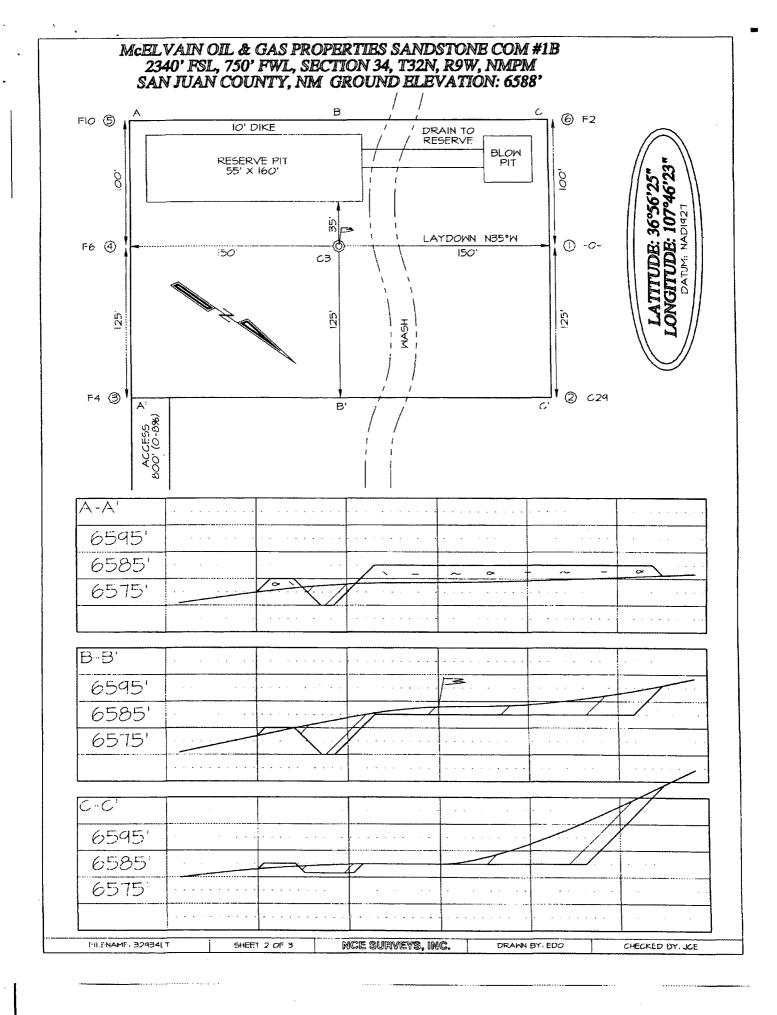
30-045-3237	77 Pool Code 72319	³Pool Name BLANCO MESAV	RDE		
¹Property Code 19673	·	rty Name ONE COM	*Well Number 18		
'OGRID No. 22044	- -	tor Name GAS PROPERTIES	*Elevation		
	10 Sunface	location			

Surface Location									
UIL or lot no.	. Section	Township	Range	Lat Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	34	32N	9W		2340	SOUTH	750	WEST	SAN JUAN
	¹¹ Bottom Hole Location If Different From Surface								
UL or lot ma.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
¹² Dedicated Acres		25 Acre	l es – W/	l	¹³ Joint or Infil)	¹⁴ Consolidation Code	¹⁵ Order No.	ì	

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
Kasut E. Filde
Signature
Robert E. Fielder
Printed Name
Agent
Title
May 24, 2004
Date
*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.
Date of Survey: MARCH 24, 2004
Signature and Seal of Professional Surveyor
SECON C. EDWARDS SECON C. EDWARDS MEXICO SECON MEXICO MEX
A OFESSIONAL
JASON C. EDWARDS Certificate Number 15269



McElvain Oil & Gas Properties, Inc. Sandstone Com No. 1B 2340' FSL & 750' FWL Section 34, T32N, R9W, NMPM San Juan County, New Mexico

TEN POINT DRILLING PROGRAM

1. Surface Formation: San Jose

2. Surface Elevation: 6588'GL.

3. Estimated Formation Tops:

Formation	Top - feet	Expected Production
Ojo Alamo	1595	
Fruitland	2995	
Pictured Cliffs	3345	GAS
Lewis	3715	
Intermediate TD	3775	
Huerfanito	4185	
Cliff House	5335	GAS
Menefee	5415	GAS
Pt. Lookout	5705	GAS
Upper Mancos	5985	
TOTAL DEPTH	6235	

4. Surface Hole Program:

Bit: Drill a 12 1/4" hole to 300' 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:

<u>Interval (ft)</u>	Weight (ppg)	Ph Vis(sec/qt)	Water Loss
0 - 500	8.6 or less	9.0-9.5 40 - 50	No Control

Casing and Cementing: A string of 9%" 36# J-55 or K-55 ST&C casing will be set and cemented to the surface in a single stage with 160 sacks of Class "B" cement (yield = 1.18 cf/sk) containing 3% CaCl₂ 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 1/4" by 9 5/8" 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 or 100,000 lb overpull, whichever is greater.

WOC 12 HOURS. Nipple up 11" 2000# BOPE. Pressure test surface casing and BOPE to 600 psi for 15 minutes.

Drilling Program
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Sandstone Com No. 1B
Page Two

4. Surface Hole Program: - continued

Centralizers: Run three (3) 9%" X 12 %" regular bowspring centralizers. Install first one on stop ring in middle of shoe joint.

Float Equipment: Cement nose guide shoe run on bottom of first joint. Self fill insert float valve run in top of first joint. Thread lock shoe and connection between first and second joint run.

5. Intermediate Hole Program:

Bit: Drill an 8 $\frac{3}{4}$ " hole to 3775' using TCI, IADC Class 447 bit. WOB: 35-45K. RPM: 60 - 75. Reduce RPM to 55 - 65 through Ojo Alamo.

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

Interval (ft)	Weight (ppg)	<u>Ph</u>	Vis(sec/qt)	Water Loss
300 - 2775	8.6 - 8.8	9.0-9.5	28 - 35	10 - 12
2775 - 3775	8.9 - 9.2	9.0-9.5	35 - 50	8 - 10

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 rig pits will be visually monitored and recorded on a routine basis.

 $\underline{\text{Note:}}$ 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.

Hole will be drilled to top of Fruitland using polymer and drispac additions to water. Mud up before drilling into Fruitland.

 ${\color{blue} \underline{ Lost \ Circulation}}$ is expected and 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. 7" rams will be installed before running intermediate 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.

Drilling Program
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Sandstone Com No. 1B
Page Three

5. Intermediate Hole Program: - continued

Logging Program: No logs will be run in intermediate hole.

Casing and Cementing Program: Run 7" 20# J-55 production casing from surface to Intermediate TD and cement in 2 stages with a mechanical DV tool installed ± 1900'. Stage 1 (3775' - 1900') will be cemented with 140 sacks (296.8 cf) of 65/35 Class B POZ containing 5 pps Gilsonite, and 0.25 pps celloflake mixed at 12.1 PPG to yield 2.12 cf/sk. Tail in with 100 sacks (126.0 cf) of Class B with 2% CaCl₂, 5 pps gilsonite and 0.25 pps celloflake mixed at 15.2 ppg to yield 1.26 cf/sk. Stage 2 (1900' - surface) will be cemented with 175 sacks (371.0 cf) of 65/35 Class B Poz with 5 pps gilsonite and 0.25 pps celloflake mixed at 12.1 PPG to yield 2.12 cf/sk. Followed with 50 sacks (63.0 cf) of Class B with 2% CaCl₂, 5 pps gilsonite and 0.25 pps celloflake mixed at 15.2 PPG to yield 1.26 cf/sk.

Circulate and WOC between stages for four (4) hours.

Slurry volumes assume a 50% excess over gauge hole volume. 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 or 100,000 lb over pull, whichever is greater.

WOC 12 HOURS from plug down on first stage. Pressure test intermediate casing and BOPE to $1500~\mathrm{psi}$ for $15~\mathrm{minutes}$.

Centralizers: $10 - 7" \times 8 \ 3/4"$ bowspring centralizers will be run across all prospective pays and $5 - 7" \times 8 \ 3/4"$ turbolizers will be spaced such that one (1)is just below the Basal Fruitland Coal, two (2)across base of Ojo Alamo, and two (2) across base of Nacimiento.

Float Equipment: Cement nose float shoe, 1 joint 7" casing, float collar, and 1 - mechanical DV tool with 2 cement baskets below the DV.

6. Production Hole Program:

Bits: Drill a 6 1/4" hole to 6235' feet using air hammer. WOB: 5 - 25K. RPM: to be determined by drilling conditions. If hole gets wet use TCI, IADC class 637 to finish hole.

Mud: Air from Intermediate casing shoe to TD. If hole gets wet use a fresh water based low solids non dispersed system with the following properties: Note: Pull into intermediate casing to mud up.

<pre>Interval (ft)</pre>	Weight (ppg)	рН	<u>Vis(sec/qt)</u>	Water Loss
? - TD	8.6 - 9.0	9.0-9.5	28 - 40	8 - 10 cc

Drilling Program
McElvain Oil & Gas Properties, Inc.
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6. Production Hole Program: - continued

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 1500 psig before drilling out from under intermediate casing. Mechanical operation of pipe rams will be checked daily and blind rams will be checked on each trip out of hole. 4 1/2" 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: Induction and Compensated density/Epithermal neutron logs from TD to intermediate casing shoe. Pull gamma ray to surface for correlation purposes.

Casing and Cementing Program: Run 4 ½" 10.5# J-55 production liner from TD to 120 feet into intermediate casing. Cement in a single stage with 130 sacks (261.3 cf) of 65/35 Class H containing 5 pps gilsonite and 0.25 pps celloflake mixed at 12.3 PPG to yield 2.01 cf/sk. Followed with 145 sacks (192.85 cf) of 50/50 Class H POZ with 2% gel, 5 pps gilsonite, 0.25 pps celloflake, .2% FR and .4% FLA mixed at 13.7 PPG to yield 1.33 cf/sk.

Slurry volumes assume a 70% excess over gauge hole volume to bring cement back into the intermediate casing. Cement volume is subject to change after review of open hole caliper log to caliper volume + 30%. Minimum clearance between couplings and hole is 0.625". 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: 10 - 4 1/2" X 6 1/8" rigid centralizers will be run across prospective pays of the Mesa Verde.

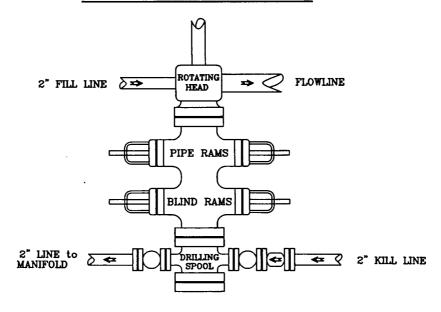
Float Equipment: Cement nose float shoe, 1 joint 4 1/2" 10.5 # casing, and plug landing collar. TIW $4\frac{1}{2}$ " X 7" liner hanger.

7. Auxiliary Equipment:

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

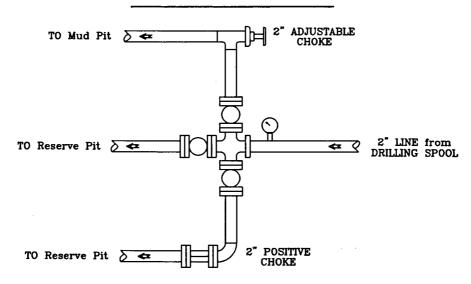
PRESSURE CONTROL

Wellhead Assembly



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

Choke Manifold



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Sandstone Com No. 1B 2340' FSL - 750' FWL Section 34, T32N, R9W, NMPM San Juan County, New Mexico