

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2014

FEB 04 2013

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-entrench an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.
NM 109397

6. If Indian, Allottee or Tribe Name
Office of Indian Affairs

SUBMIT IN TRIPLICATE – Other instructions on page 2.

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
Logos Operating, LLC

3a. Address
4001 North Butler Avenue, Building 7101
Farmington, NM 87401

3b. Phone No. (include area code)
505-436-2627

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
336' FNL, 2121' FWL
Section 1, T23N, R8W, UL C

7. If Unit of C/A Agreement, Name and/or No.

8. Well Name and No.
Logos #4

9. API Well No.
30-045-35420

10. Field and Pool or Exploratory Area
Lybrook Gallup Ext. NSPU

11. County or Parish, State
San Juan County, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

| TYPE OF SUBMISSION | TYPE OF ACTION | | | |
|--|--|---|--|--|
| <input checked="" type="checkbox"/> Notice of Intent | <input type="checkbox"/> Acidize | <input type="checkbox"/> Deepen | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Subsequent Report | <input type="checkbox"/> Alter Casing | <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Reclamation | <input type="checkbox"/> Well Integrity |
| <input type="checkbox"/> Final Abandonment Notice | <input type="checkbox"/> Casing Repair | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete | <input checked="" type="checkbox"/> Other <u>Location Change</u> |
| | <input checked="" type="checkbox"/> Change Plans | <input type="checkbox"/> Plug and Abandon | <input type="checkbox"/> Temporarily Abandon | |
| | <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Plug Back | <input type="checkbox"/> Water Disposal | |

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

Logos Operating, LLC proposes to move the location of the Logos #4 (30-045-35420) per the request of Jim Lovato at the FFO. The location will be moved from the NE/4 of Unit Letter C, Section 1, T23N, R8W (336' FNL, 2121' FWL) to the SE/4 of Unit Letter C, Section 1, T23N, R8W (1333' FNL, 2293' FWL). Please find attached the revised plat, operations plan and multi-point surface use plan.

RCVD FEB 12 '13
OIL CONS. DIV.
DIST. 3

CONFIDENTIAL

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)
Kristy Graham

Title Director of Administration and Engineering Support

Signature 

Date 02/04/2013

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by
William Tambekau

Title Petroleum Engineer

Date 02/06/2013

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office FFO

Title 18 U.S.C. Section 1001 and Title 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, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

NMOCDA

DISTRICT I
1825 N. French Dr., Hobbs, N.M. 88240
Phone: (575) 393-8161 Fax: (575) 393-9720

DISTRICT II
811 S. First St., Artesia, N.M. 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

DISTRICT III
1000 Rio Brasos Rd., Asteo, N.M. 87410
Phone: (505) 334-8178 Fax: (505) 334-8170

DISTRICT IV
1220 S. St. Francis Dr. Santa Fe, NM 87505
Phone: (505) 478-3460 Fax: (505) 478-3482

State of New Mexico
Energy, Minerals & Natural Resources Department

RECEIVED

Form C-102
Revised August 1, 2011

OIL CONSERVATION DIVISION

FEB 04 2013

Submit one copy to appropriate District Office

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

Farmington Field Office
Bureau of Land Management

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

| | | | |
|-----------------------------|--|---------------------|--|
| *API Number 30-045-35420 | | *Pool Code 42289 | *Pool Name LYBROOK GALLUP EXT. NSPU |
| *Property Code 311963 | *Property Name LOGOS | | *Well Number 4 |
| *OGRID No. 289408 | *Operator Name LOGOS OPERATING, LLC | | *Elevation 6939' |

10 Surface Location

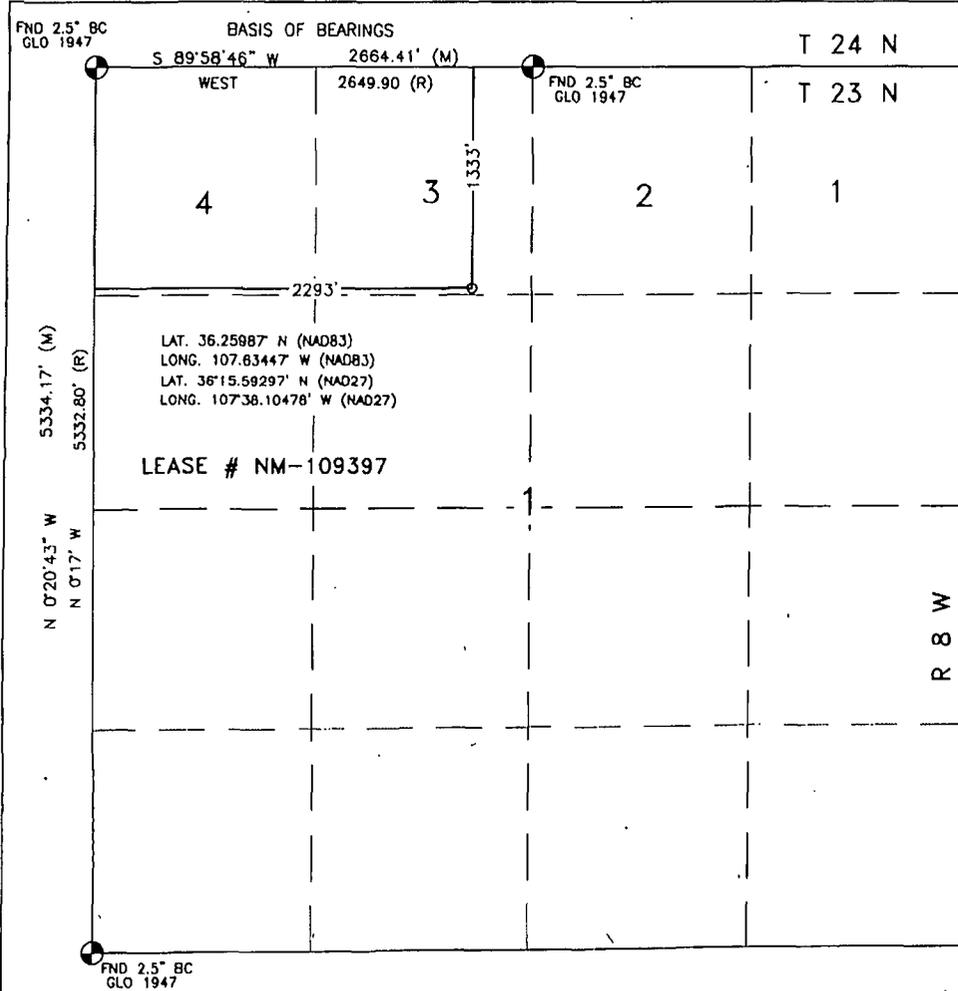
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|----------|
| C | 1 | 23N | 8W | 3 | 1333' | NORTH | 2293' | WEST | SAN JUAN |

11 Bottom Hole Location If Different From Surface

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---|---------|------------------|-------|---------------------|---------------|---|---------------|-----------------|--------|
| | | | | | | | | RCVD FEB 12 '13 | |
| *Dedicated Acres 40.20 Acres NE 1/4 NW 1/4 | | *Joint or Infill | | *Consolidation Code | | *Order No. OIL CONS. DIV. DIST. 3 | | | |

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

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17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Jay Paul M. Williams 2/1/2013
Signature Date

Jay Paul M. Williams
Printed Name

jmwilliams@logosresourcesllc.com
E-mail Address

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.

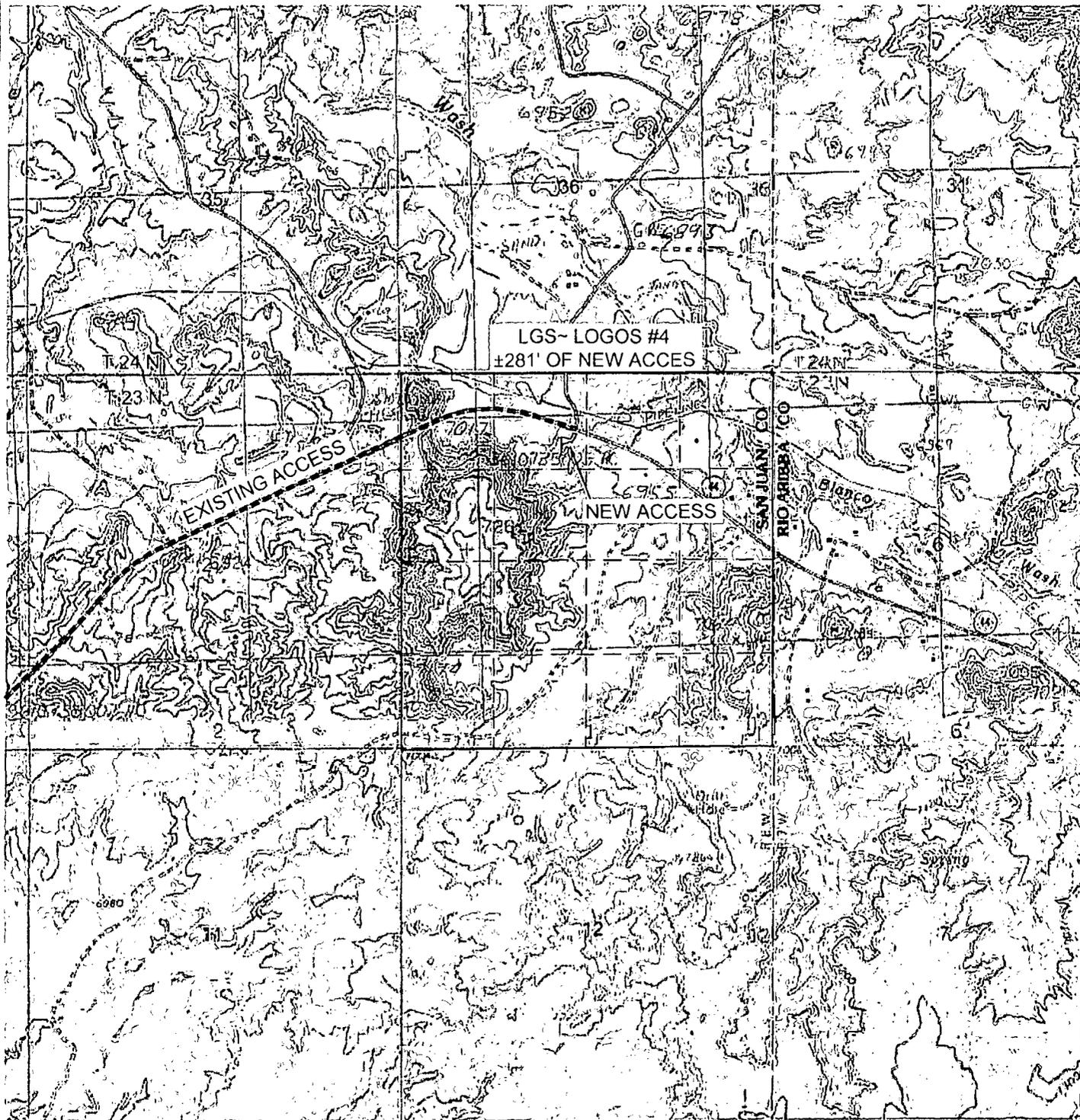
OCTOBER 1, 2012
Date of Survey

DAVID R. RUSSELL
Signature and Seal of Professional Surveyor
REGISTERED PROFESSIONAL LAND SURVEYOR
10201

DAVID RUSSELL
Certificate Number 10201

LATITUDE: 36.25987° N
LONGITUDE: 107.63447° W
DATUM: NAD 83

LOGOS OPERATING, LLC
LOGOS #4
1333' FNL & 2293' FWL
LOCATED IN THE NE/4 NW/4 OF SECTION 1,
T23N, R8W, N.M.P.M.,
SAN JUAN COUNTY, NEW MEXICO
GROUND ELEVATION: 6939', NAVD 88
±281' OF NEW ACCESS ACROSS BLM LANDS



U.S.G.S. QUAD: CROW MESA WEST
SCALE: 1" = 2000' (1:24,000)
JOB No.: LGS007
DATE: 10/02/12

NEW OR RECONSTRUCTED ROADS MUST MEET
SMA DESIGN STANDARDS
INSTALL CULVERTS AS NEEDED



**Scorpion Survey &
Consulting, L.L.C.**
55 County Road 3312
Aztec, New Mexico 87410
(505) 333-2945

LOGOS OPERATING, LLC
LOGOS #4
1333' FNL & 2293' FWL
LOCATED IN THE NE/4 NW/4 OF SECTION 1,
T23N, R8W, N.M.P.M.,
SAN JUAN COUNTY, NEW MEXICO

DIRECTIONS

- 1) FROM THE INTERSECTION OF HWY 550 AND HWY 64 IN BLOOMFIELD, TRAVEL SOUTH ON 550 FOR 43.4 MILES WHERE ACCESS IS STAKED ON RIGHT SIDE OF ROAD.

WELL FLAG LOCATED AT LAT. 36.25987° N, LONG. 107.63447° W (NAD 83).

JOB No.: LGS007
DATE: 10/02/12



**Scorpion Survey &
Consulting, L.L.C.**
55 County Road 3312
Aztec, New Mexico 87410
(505) 333-2945

LOGOS OPERATING, LLC.
OPERATIONS PLAN
LOGOS #4

Note: This procedure will be adjusted on site based on actual conditions.

I. Location: 1333' FNL & 2293' FWL Date: February 1, 2013
 Sec 1, T23N, R8W
 San Juan County, NM

Field: Lybrook Gallup Ext. NSPU Elev: GL 6,939'
Surface: Federal
Minerals: Federal

II. Geology: Surface formation _ Nacimiento

| A. Formation Tops | Depths |
|-------------------|--------|
| Ojo Alamo | 1,149' |
| Kirtland | 1,488' |
| Fruitland | 1,820' |
| Pictured Cliffs | 1,838' |
| Lewis | 1,910' |
| Chacra | 2,235' |
| Chacra Mrkr | 2,674' |
| Cliff House | 3,317' |
| Menefee | 3,344' |
| Point Lookout | 4,201' |
| Mancos | 4,390' |
| Niobrara B | 5,224' |
| Niobrara C | 5,320' |
| Greenhorn | 5,916' |
| Dakota | 5,983' |
| Morrison | 6,363' |
| Total Depth | 6,373' |

Estimated depths of anticipated water, oil, gas, and other mineral bearing formations which are expected to be encountered:

Water and gas - 1,820', 1,838', 2,235', 3,317', 4,201'
Water, gas, and oil - 4,390', 5,224', 5,320', and 5,983'

B. Logging Program: Induction/GR and density/neutron logs from TD to the surface casing point. Mud logs will be run from below the surface casing to TD. No DST's or cores are planned for this well. Cased hole GR/CCL and CBL logs will be run from PBTD to surface.

C. No over pressured zones are expected in this well. No H₂S zones will be penetrated in this well. Max. BHP = 2,850 psig. Lost circulation zones may be encountered in the Mesa Verde group and Niobrara sections.

III. Drilling

A. Contractor:

B. Mud Program:

The surface hole will be drilled with a fresh water mud.

The production hole will be drilled with a fresh water mud and will use bentonite to increase the viscosity. The weighting material will be drill solids or if conditions dictate, barite. The maximum mud weight expected is 9.2 ppg. The water loss will be controlled to a 6 - 8 cc/30 min. and loss circulation will be controlled with cedar fiber, paper, etc.

The Charca, Cliff House, Menefee, and Point Lookout, Mancos, Niobrara, and Dakota formations will all be considered for completion in this well. A completion procedure will be developed after evaluating the wireline and mud logs.

C. Minimum Blowout Control Specifications:

Double ram type 2000 psi working pressure BOP with a rotating head. See the attached Exhibit #1 for details on the BOP equipment. All ram type preventers and related equipment will be hydraulically tested at nipple-up to 250 psi (Low) for 5 minutes and 1,500 psi (High) for 10 minutes. Surface casing will be tested to 600 psi before drillout. All tests and inspections will be recorded in the daily drilling tour book.

The blind rams will be hydraulically activated and checked for operational readiness each time pipe is pulled out of the hole. All checks of the BOP stack and equipment will be noted on the daily drilling report. The BOP equipment will include a kelly cock, floor safety valve, and choke manifold all rated to 2000 psi.

IV. Materials

A. Casing Program:

| Hole Size | Depth | Casing Size | Wt. & Grade |
|-----------|--------|-------------|-------------|
| 12-1/4" | 320' | 9-5/8" | 36# J-55 |
| 7-7/8" | 6,600' | 5-1/2" | 15.5# L-80 |

B. Float Equipment:

a) Surface Casing: Notched collar, aluminum insert float in the first collar, and 3 centralizers on the bottom 3 joints.

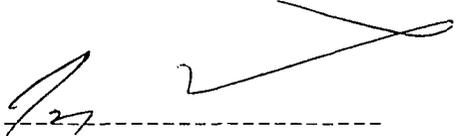
b) Production Casing: Production Casing: 5-1/2" cement float shoe and self-fill insert float collar. Place float one joint above shoe. **Place DV tool at 4,440'**. Place ten centralizers spaced every other joint above the shoe, two turbolizers on the collars below the DV tool and two turbolizers above the DV tool. Place five turbolizers every third joint from the top of the well.

V. Cementing:

Note: Cement volumes will be adjusted based on actual conditions.

Surface casing: 9-5/8" - Use 225 sx (266 cu. ft.) of Type V with 2% CaCl₂ and ¼ #/sk celloflake (Yield = 1.18 cu. ft./sk; slurry weight = 15.6 PPG). 100% excess to circulate cement to surface. WOC 12 hours. Pressure test surface casing to 1500 psi.

Production Casing: 5-1/2" - Before cementing circulate hole with at least 1-1/2 hole volumes of mud. Precede cement with 30 bbls of fresh water. **1st Stage: Lead** with 260 sx (458 cu.ft.) of Cl "B" 65/35 poz with 6% gel, 1% CaCl₂, 4% phenoseal, and ¼ #/sx celloflake (Yield = 1.76 cu. ft./sk; slurry weight = 12.8 PPG). **Tail** with 100 sx (146 cu.ft.) of Cl "B" 50/50 poz with 0.15% dispersant, 1% CaCl₂ and ¼#/sk. celloflake. (Yield = 1.46 cu. ft./sk; slurry weight = 13.0 PPG). **2nd Stage:** Precede cement with 20 bbls of water. **Lead** with 600 sx (1056 cu.ft) Cl "B" 65/35 poz with 6% gel, 1% CaCl₂, and ¼ #/sx celloflake (Yield = 1.76 cu. ft./sk; slurry weight = 12.8 PPG). **Tail** with 100 sx (146 cu.ft.) of Cl "B" 50/50 poz with 0.15% dispersant, 1% CaCl₂ and ¼#/sk. celloflake. (Yield = 1.46 cu. ft./sk; slurry weight = 13.0 PPG). Total cement volume is 1806 cu.ft. (50% excess to hole volume to circulate cement to surface).



Jay Paul McWilliams
President
Logos Operating, LLC