#### State of New Mexico Energy, Minerals and Natural Resources Department

#### Susana Martinez

Governor

**David Martin**Cabinet Secretary-Designate

Jami Bailey, Division Director

Oil Conservation Division



Brett F. Woods, Ph.D. Deputy Cabinet Secretary

New Mexico Oil Conservation Division approval and conditions listed below are made in accordance with OCD Rule 19.15.7.11 and are in addition to the actions approved by BLM on the following 3160-4 or 3160-5 form.

Operator Signature Date: February 19 <sup>th</sup> , 2013
Application Type:  P&A Drilling/Casing Change Recomplete/DHC  Location Change Other:
Well information:  API WELL#   Well Name   Well #   Operator Name   Type   Stat   County   Surf_Owner   UL   Sec   Twp   N/S   Rng   W/E    30-045-35420-00-00   LOGOS   004   LOGOS OPERATING, LLC   O - N   San Juan   F   C   I   23   N   8   W
Conditions of Approval:
Notify NMOCD 24hrs prior to beginning operations
Hold C104 for amendment to NSL due to surface hole location change
Submit new sundry and plat reflecting Basin Mancos Gas Pool per NSP 1960 and NSL 6751
Well Hypa DEC 1_9 2013
NMOCD Approved by Signature Date



## TOE!V

#### **UNITED STATES** DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FEB 19 20

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

	15
Farmington Field	D

NM **d** 09397 SUNDRY NOTICES AND REPORTS ON WELLS u of Land Man 6016 Indian Allottee or Tribe Name

Lease Serial No.

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals. 7. If Unit of CA/Agreement, Name and/or No. SUBMIT IN TRIPLICATE - Other instructions on page 2. 1. Type of Well 8. Well Name and No. ✓ Oil Well Gas Well Other Logos #4 2. Name of Operator Logos Operating, LLC 9. API Well No 30-045-35420

3a. Address 4001 North Butler Avenue, Building 7101 10. Field and Pool or Exploratory Area 3b. Phone No. (include area code) Lybrook Gallup Ext. NSPU Farmington, NM 87401 505-436-2627 4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description) 1256 FNL, 2298 FWL 11. County or Parish, State San Juan County, NM Section 1, T23N, R8W, UL C

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA					
TYPE OF SUBMISSION		T	YPE OF ACTION		
✓ Notice of Intent	Acidize Alter Casing	Deepen Fracture Treat	Production (Start/Resume) Reclamation	Water Shut-Off Well Integrity	
Subsequent Report	Casing Repair  Change Plans	New Construction Plug and Abandon	Recomplete Temporarily Abandon	Other Location Change	
Final Abandonment Notice	Convert to Injection	Plug Back	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 Craig Willems at the FFO. The location will be in the SE/4 of Unit Letter C, Section 1, T23N, R8W (1256' FNL, 2298' FWL). Please find attached the revised plat, operations plan and multi-point surface use plan.

> RCVD DEC 13'13 OIL CONS. DIV. DIST. 3

DIDITIONS OF MPPIOVAL

COMPOENTAL

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)		
Kristy Graham	Title Director of Administration and Engineering Support	
Signature this gaham	Date 02/19/2013	
THIS SPACE FOR FEI	DERAL OR STATE OFFICE USE	
Approved by  Conditions of approval, if any, are attached. Approval of this notice does not warrant that the applicant holds legal or equitable title to those rights in the subject lease which entitle the applicant to conduct operations thereon.	or certify a would Office	12/13

Title 18 U.S.C. Section 1001 and Title 3 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

District I 1625 N. French Drive, Hobbs, NM 88240 Phone: (575) 393–6161 Fax: (575) 393–0720

District II 811 S. First Street, Antesia, NM 88210 Phone: (575) 748–1283 Fax: (575) 748–9720

District III 1000 Rio Brazos Aoad, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 District IV 1220 S. St. Francis Drive, Santa Fe, NM 87505

S89 \*34 '19 "W 2640.21 (MEASURED)

State of New Mexico Energy, Minerals & Natural Resources Department Form C-102 Revised August 1, 2011

Submit one capy to Appropriate District Office

### OIL CONSERVATION DIVISION 1220 South St. Francis Drive

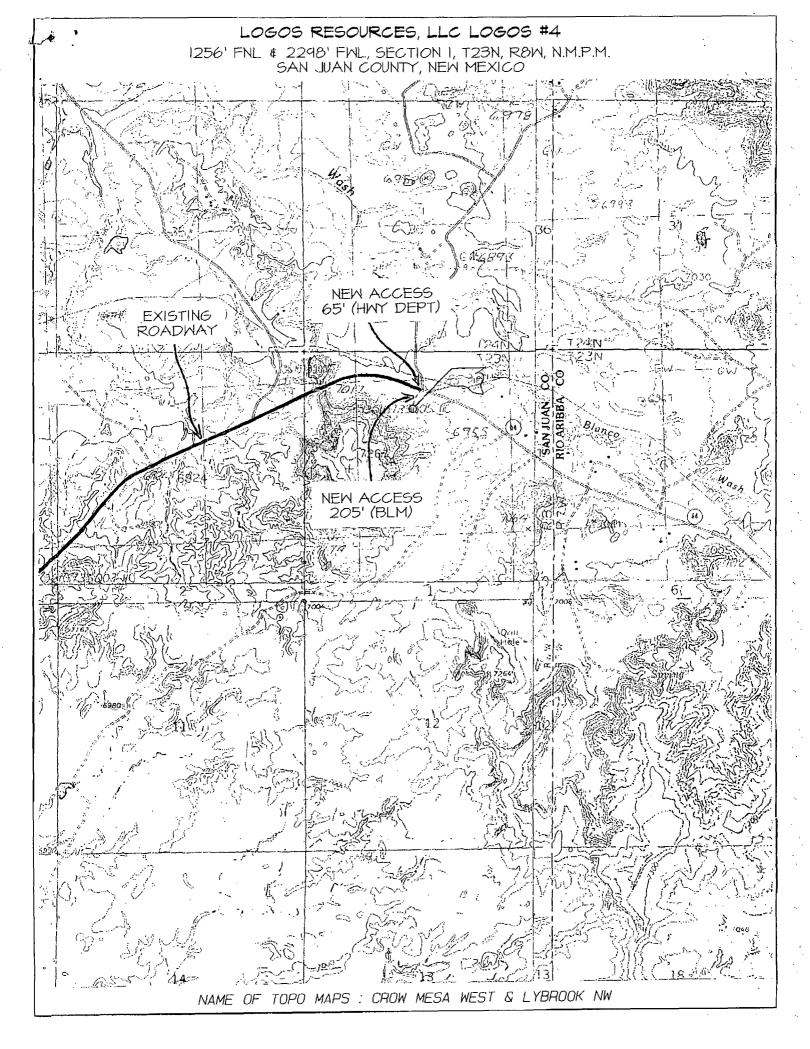
Santa Fe. NM 87505

C 1 23N 8W 3 1256 NORTH 2298 WEST SAN  11 Bottom Hole Location If Different From Surface  U. U. O' lot 10. Section Township Range Lot 10n Feet from the North/South Time Feet from the East/Nest Time Co.  RCUD DEC 13 '1.3  RCUD DEC 13 '1.3  NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLID. OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION  NBS '55 W 2649.90' (RECORD)  SBS '55 30' W 2649.90' (RECORD)  SBS '55 30' W 2649.91 (MEASURED)  LOT	roperty Code Property Name "Well LOGOS"  'OGRID No. "Operator Name"  "Ele	
LOGOS RESOURCES, LLC  1º Surface Location  1º Surfa	oper devi mane	1 Number
U. or let no. Section Towership Range Lot Ion Feet from the C 1 23N 8W 3 1256 NORTH 2298 WEST SAN  13 Bottom Hole Location If Different From Surface  U. or let no. Section Towership Range Lot Ion Feet from the North/South line Feet from the Cast/West line Co. RCVD DEC 13 '13  14 Bottom Hole Location If Different From Surface  U. or let no. Section Towership Range Lot Ion Feet from the North/South line Feet from the Cast/West line Co. RCVD DEC 13 '13  15 Bottom Hole Location If Different From Surface  U. or let no. Section Towership Range Lot Ion Feet from the North/South line Feet from the Cast/West line Co. RCVD DEC 13 '13  16 Bottom Hole Location If Different From Surface  U. or let no. Section Towership Range Lot Ion Feet from the North/South line Feet from the Cast/West line Co. RCVD DEC 13 '13  18 Bottom Hole Location If Different From Surface  RCVD DEC 13 '13  18 Bottom Hole Location If Different From Surface  RCVD DEC 13 '13  18 Bottom Hole Location In Intelligence Ion		
C   1   23N   8W   3   1256   NORTH   2298   WEST   SAN		
UL O' 10t no. Section Township Range Lot Idn Feet from the North/South line RCUD DEC 13 '13  Dedicated Acres 40.20 Acres - (NE/4 NW/4) 13 Joint or Infill 14 Consolidation Comm CONSOLID OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION NEST 2665.08 (RECORD) NB9 '55 W 2649.90 (RECORD) S89 '55 30 W 2663.48 (MEASURED) S89 '55 30 W 2649.14 (MEASURED)  LOT		COUNTY SAN JUAI
Predictated Across  40.20 Acres - (NE/4 NW/4)  NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLID.  OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION  WEST 2665.08 (RECORD)  S89 '55 '09 W 2663.48 (MEASURED)  NB9 '56 W 2649.90 (RECORD)  S89 '55 '09 W 2649.14 (MEASURED)  **OPERATOR CERTIFICA**  I hereby certify that the information or herein is true and complete to the best winding interest in the land including proposed bottom-hole location or has a to drill this well at this location pure to control with an owner of such as on working interest, or to a voluntary in partner of such as on working interest, or to a voluntary in partner of such as on working interest, or to a voluntary in partner of such as on working interest, or to a voluntary in partner of such as on working interest, or to a voluntary in partner of such as on working interest, or to a voluntary in partner of such as on working interest, or to a voluntary in partner of such as on working interest, or to a voluntary in partner of such as on working interest, or to a voluntary in partner of such as on working interest, or to a voluntary in partner of such as on working interest, or to a voluntary in partner of such as on working interest, or to a voluntary in partner of such as on working interest, or to a voluntary in partner of such as on working interest, or to a voluntary in partner of such as on working interest, or to a voluntary in partner of such as on working interest, or to a voluntary in partner of such as on working interest in the land including proposed bottom or has a voluntary in partner of such as on working interest, or to a voluntary in partner of such as on working interest, or to a voluntary in partner of such as on working interest, or to a voluntary in partner of such as on working interest, or to a voluntary in partner of such as on working interest, or to a voluntary in partner of such as on working interest. The bowner of such as on working interest, or to a voluntary in partner	Porcoll Lote Cocacton 11 Different Libit 20 race	
Dedicated Acres  40.20 Acres - (NE/4 NW/4)  NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLID, OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION  WEST 2665.08 (RECORD)  S89 '55 30 W 2649.90 (RECORD)  S89 '55 30 W 2649.14 (MEASURED)  LOT  4  LOT  4  LOT  4  LOT  COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLID, OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION  NB9 '56 W 2649.90 (RECORD)  S89 '55 30 W 2649.14 (MEASURED)  LOT  COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLID, OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION  NB9 '56 W 2649.90 (RECORD)  S89 '55 30 W 2649.14 (MEASURED)  LOT  COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLID, OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION  NB9 '56 W 2649.90 (RECORD)  S89 '55 30 W 2649.14 (MEASURED)  LOT  LOT  LOT  LOT  LOT  LOT  LOT  LO		County
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATION OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION  WEST 2665.08 (RECORD)  S89 '53 '09 W 2663.48 (MEASURED)  N89 '56 W 2649.90 (RECORD)  S89 '55 30 W 2649.14 (MEASURED)  LOT  LOT  LOT  LOT  LOT  LOT  LOT  LO	Acres 40.20 Acres - (NE/4 NW/4) 13.Joint or Infill 14 Consolidation Code 15 Order No. OIL CONS. DI	
I.AT: 36.26008 N LONG: 107.63444 W DATUM: NAD1983  18 SURVEYOR CERTIFICAT I hereby certify that the well location shown on this plat was plotted from a rotes of actual surveys made by me or my supervision, and that the same is the and correct to the best of my bolief.	LOT  A  LOT  A	nation contain the best of m his organizat or unleased cluding the has a right ion pursuant such a minera untary poolin ng frider
Date Revised: FEBRUARY 19. Date of Survey: JULY 19. a Signature and Seal of Professional Survey: WEXTCO MEXICO MEX	LAT: 36.26008 N LONG: 107.63444 W DATUM: NAD1983  18 SURVEYOR CERTIF I hereby certify that the well shuwn on this plat was plotted notes of actual surveys made by my supervision, and 'that the sar and correct to the best of my to Date Revised: FEBRUARY Date of Survey: JULY Signature and Seal of Profession of the Survey of C. EDWART CO. EDW	ICATION location from field y me or under sme is true belief. Y 19, 2013 19, 2012 onal Surveyor

S89 \*29 '57 'W 2642.36' (MEASURED)

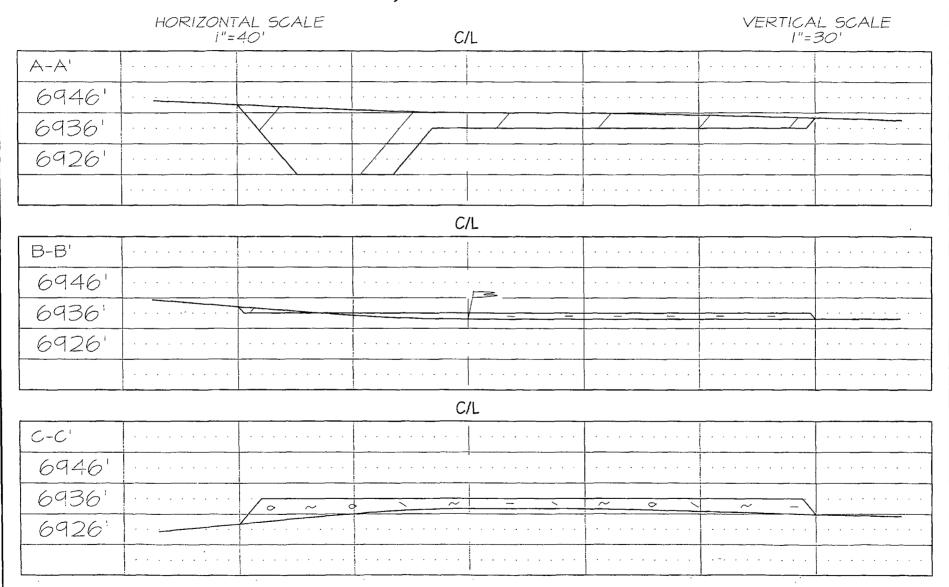
Certificate Number

15269



. 54"	6	Lance Name	147-114	C	( 1	e:_1.d	Ch-h
API#	Company	Lease Name	Well#	County	Legal	Field	<u>Status</u>
30-045-30516	ELM RIDGE	SOUTH BLANCO COAL 36	1	SAN JUAN	S:36, T:24N, R:8W	BASIN FRC	Producing
30-045-24419	HANAGAN PETROLEUM	PRE-ONGARD WELL	33	SAN JUAN	S:2, T:23N, R:8W		Plugged
30-045-24682	HANAGAN PETROLEUM	PRE-ONGARD WELL	4	SAN JUAN	S:36, T:24N, R:8W		Plugged
30-045-05088	HANAGAN PETROLEUM	PRE-ONGARD WELL	1	SAN JUAN	S:1, T:23N, R:8W	WC D3	Plugged
30-045-27641	HANAGAN PETROLEUM	PRE-ONGARD WELL	8	SAN JUAN	S:36, T:24N, R:8W		Plugged
30-045-27639	ELM RIDGE	SOUTH BLANCO STATE 36	6	SAN JUAN	S:36, T:24N, R:8W	LYBROOK	Producing
30-045-27640	ELM RIDGE	SOUTH BLANCO STATE 36	7	SAN JUAN	S:36, T:24N, R:8W	LYBROOK	Producing
30-045-25272	ELM RIDGE	STATE OF NEW MEXICO 36	13	SAN JUAN	S:36, T:24N, R:8W	LYBROOK	Plugged
30-045-25273	ELM RIDGE	STATE OF NEW MEXICO 36	14	SAN JUAN	S:36, T:24N, R:8W	LYBROOK	Producing
30-045-25274	ELM RIDGE	STATE OF NEW MEXICO 36	24	SAN JUAN	S:36, T:24N, R:8W	LYBROOK	Producing
	CNWSW	CNEST				moeta weil	AL PERA
					@Sma@#96.Pi	Concentral 2	
	Sene of New Maxico 30 ca			EN / View			
	A APPOINT	noard Well #8 - P&A		经保护。166			
	Sowin Blanco Coal 3	o⊯ni⇔Rroducing	* 3	CONTRACT A	200 /600		
						2 15	
						19.2	A TOWN
						The Carlotte	
. Saleoi	New Mexico 38 (44 - Produ	emo Para de Cara					
\$ 2	State of New Mexico 9	(24)=Producing					
						4.0	
	COMOW STATE	CSIEC	W. C.			COWOS 🔆 🔅	
2 7 E			3,17				
6 To 1						Z South	Simes Sim
		W107.6669				VI TO	W107.029
						CONTRACT.	
Sign of			4				
			t 41				
				ing a series			
No. 70 Tel							THE STATE OF THE S
			354				
			282	gard Wall ()	DEPART		
			1.32				
	X547			Se also such			
							4.5
		The state of the s				2.12.10	
<b>"我们这个人</b>							不是到他之后
	Bee	DENOM IN					
1200		<b>64</b>	ogia e a	Logos (24)	<b>电视器 大大型系统</b>		
		ESTA DE CASA DE LA COMPANION DE	2.00		1	242	Company of

# LOGOS RESOURCES, LLC LOGOS #4 1256' FNL & 2298' FWL, SECTION 1, T23N, R8W, NMPM SAN JUAN COUNTY, NEW MEXICO ELEVATION: 6934'

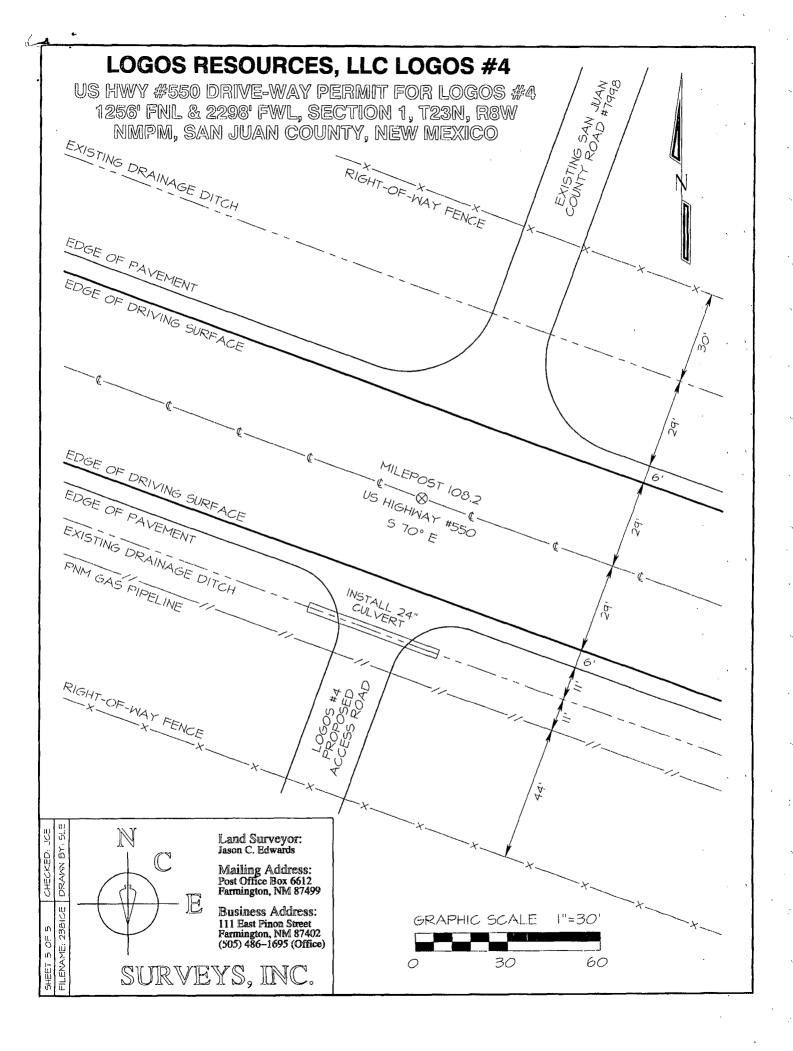


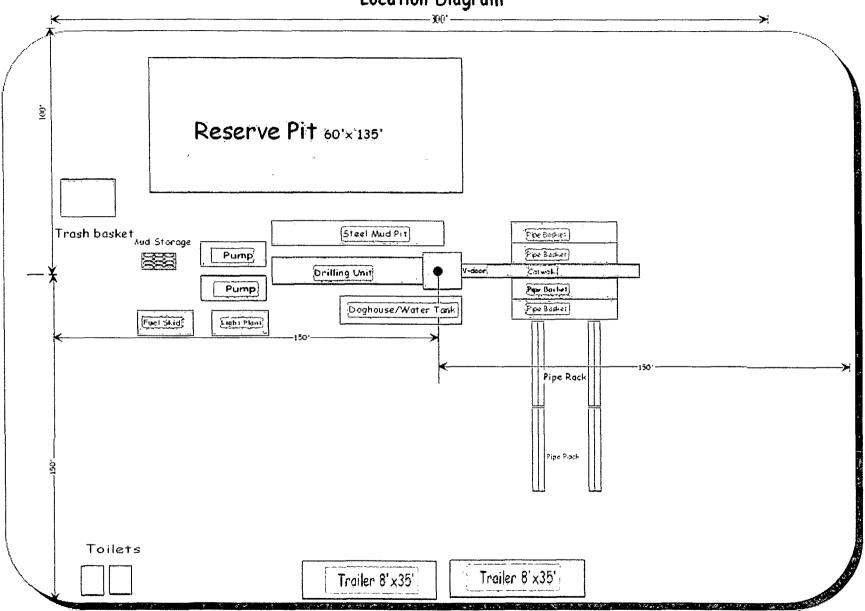
NCE SURVEYS IS NOT LIABLE FOR LOCATION OF UNDERGROUND UTILITIES OR PIPELINES.

CONTRACTOR SHOULD CONTACT ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED UNDERGROUND UTILITIES OR PIPELINES ON WELLPAD AND/OR ACCESS ROAD AT LEAST TWO WORKING DAYS PRIOR TO CONSTRUCTION.

#### LOGOS RESOURCES, LLC LOGOS #4 1256' FNL & 2298' FWL, SECTION 1, T23N, R8W, NMPM SAN JUAN COUNTY, NEW MEXICO ELEVATION: 6934' 3.21 Acres LAT: 36.26008°N LONG: 107.63444°W DATUM: NAD1983 Sureau of Land Management [] EDGE OF TOTAL DISTURBANCE (MARKED WITH STEEL T-POSTS) **SURFACE OWNER** T-POSTS) B C2 C7 (5) 6 F8 CUTTINGS PIT 70' X 120' X 15' DEEP EDGE OF TOTAL DISTURBANCE (MARKED WITH STEEL 00 CENTER CUTTINGS PIT LAT : 36.25989 N LONG : 107.63469 W 00 AREA OF WELLPAD DATUM : NAD1983 C5 (4) (Î) F4 Wellhead to back NIO°E 150' F2 150' LAYDOWN 4 SIDE 270, (CESS) Ŝ SCALE ORAPHIO F2 C3 (3) ② F5 3' EDGE OF TOTAL DISTURBANCE (MARKED WITH STEEL T-POSTS)

Steel T-Posts have been set to define Edge of Disturbance limits which are 50 offset from the edge of the staked wellpad.





Great Western Drilling Company **Typical Location Layout** 

## LOGOS OPERATING, LLC. OPERATIONS PLAN LOGOS #4

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

I. Location: 1256' FNL & 2298' FWL

Date: February 19, 2013

Sec 1, T23N, R8W San Juan County, NM

Field: Lybrook Gallup Ext. NSPU

Elev: GL 6,934'

Surface: Federal Minerals: Federal

II. Geology: Surface formation Nacimiento

Α.	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  $\rm H_2S$  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 <b>′</b>	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% CaCl<sub>2</sub> and 4 #/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% CaCl<sub>2</sub>, 4% phenoseal; and 4 #/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% CaCl<sub>2</sub> and 4#/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% CaCl<sub>2</sub>, and 4 #/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% CaCl<sub>2</sub> and 4#/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

#### MULTI-POINT SURFACE USE PLAN Logos #4

#### 1. Existing Roads:

All existing roads used to access the proposed location are shown on attached Plat #1 and shall be maintained in the same or better condition than presently found.

Directions: From the intersection of HWY 550 and HWY 64 in Bloomfield, travel South on 550 for 43.4 where access is staked on the right side of the road.

#### 2. Planned Access Roads:

Approximately 270' of new access road will be constructed for this location. The existing access road will be maintained in at least the current condition and will be upgraded where necessary to provide uninterrupted access to the proposed well.

#### 3. Location of Existing Wells:

Attached map (Plat #1) shows existing wells within a one mile radius of the proposed well. There are five P&Ad wells and five producing wells within one mile.

#### 4. Location of Production Facilities:

In the event of production, production facilities will be located on the drill pad. The actual placement of this equipment will be determined when the well's production characteristics can be evaluated after completion.

Upon completion of drilling, the location and surrounding area will be cleared of all debris.

#### 5. Water Supply:

Water for drilling and completion operations will be hauled by truck from various permitted water sources within the area through the water haulers association.

#### 6. Source of Construction Materials:

No additional construction materials will be required to build the proposed location.

#### 7. Methods for Handling Waste Disposal:

- a. The drill cuttings, fluids and completion fluids will be placed in the reserve pit. The reserve pit will be lined with a 20 mil liner and fenced prior to drilling. The reserve pit will be allowed to dry, and materials remaining in the reserve pit buried. The reserve pit will be backfilled, leveled and contoured so as to prevent any materials being carried into the watershed. Upon completion, the pad will be leveled, contoured and reseeded with the appropriate seed mixture.
- b. All garbage and trash will be placed in a metal trash basket. It will be hauled off and dumped in an approved land fill upon completion of operations.
- c. Portable toilets will be provided and maintained during drilling operations. See Plat #3 for location.

#### 8. Ancillary Facilities:

Ancillary facilities are to be based on well productivity. The gas pipeline size and route is yet to be determined.

#### 9. Well Site Layout:

A cross section of the drill pad with approximate cuts, fills, and pad orientation is attached as Plat #2. Location of drilling equipment, rig orientation, and access road approach is also attached as Plat #3.

As per the on-site the following will apply for location construction:

- a. The pit will be "stepped-down" into the cut.
- b. Standard BLM tree stipulations.
- c. 24" culvert @ take off for access.
- d. Divert water around pad with top soil.
- e. Plan to use top soil for interim reclamation.

Please note "Conditions of Approval" for any additional stipulations.

#### 10. Plans for Restoration of Surface:

When the well is abandoned, the location and access road will be cleaned and restored to the original topographical contours as much as possible. The area will be reseeded with the appropriate seed mixture.

If the well is productive, areas not used in production will be contoured and seeded with stipulated seed mixture. Production equipment will be painted the color designated by the surface managing agency.

#### 11. Surface Ownership:

The surface ownership of the proposed well pad is the BLM. The original on-site inspection with a BLM representative was performed October 16, 2012. The second on-site inspection with a BLM representative was performed February 15, 2013.

#### 12. Other Information:

La Plata Archaeological Consultants have prepared an EA and a T&E species survey for the access road and location. La Plata Archaeological Consultants performed an archaeology survey. Copies of their reports will be sent directly to the BLM. No conflicts were discovered.

#### 13. Lessee's or Operator's Representative:

John C. Thompson, Engineer Walsh Engineering & Production Corporation 7415 East Main Farmington, NM 87402 Phone: (505) 327-4892

#### 14. Certification:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that I have full knowledge of state and federal laws applicable to this operation; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Logos Operating, LLC, and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to 18 U.S. Code 1001 for the filing of a false statement.

Date

2/19/2013

Jay Paul McWiliams

President / Logos Operating, LLC