

4/01/14 DATE IN	SUSPENSE	MAM ENGINEER	4/01/2014 LOGGED IN	NSL TYPE	PMAM1409146923 APP NO
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
- Engineering Bureau -
1220 South St. Francis Drive, Santa Fe, NM 87505



ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

- [1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]
[A] Location - Spacing Unit - Simultaneous Dedication
☒ NSL ☐ NSP ☐ SD

- NSL
- Logos operating
289408

Check One Only for [B] or [C]

- [B] Commingling - Storage - Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

Well
- Logos 701 H
30-043-pending

- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR

- [D] Other: Specify _____

Pool
- Lybrook
- Gallup

- [2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or ☒ Does Not Apply

- [A] ☐ Working, Royalty or Overriding Royalty Interest Owners
[B] ☐ Offset Operators, Leaseholders or Surface Owner
[C] ☐ Application is One Which Requires Published Legal Notice
[D] ☐ Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
[E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,
[F] ☐ Waivers are Attached

42289

- [3] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

- [4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

John Austin Akers
Print or Type Name

Signature

VP of Land
Title

4/1/2014
Date

aakers@logosresourcesllc.com
e-mail Address

INSTRUMENT 1
1200 S. Santa Fe, Santa Fe, NM 87505
Phone (505) 426-0000 Fax (505) 426-0000

INSTRUMENT 2
1200 S. Santa Fe, Santa Fe, NM 87505
Phone (505) 426-0000 Fax (505) 426-0000

INSTRUMENT 3
1200 S. Santa Fe, Santa Fe, NM 87505
Phone (505) 426-0000 Fax (505) 426-0000

INSTRUMENT 4
1200 S. Santa Fe, Santa Fe, NM 87505
Phone (505) 426-0000 Fax (505) 426-0000

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1200 South St. Francis Dr.
Santa Fe, NM 87505

Form C-108
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

APN Number 30-043-21202		Pool Code 980167		Well Name WC 22N30W7; Gailin (10)	
Property Code 311963		Property Name LOGOS		Well Number 701H	
OCD No. 280408		Operator Name LOGOS OPERATING, LLC		Elevation 8981'	

Surface Location

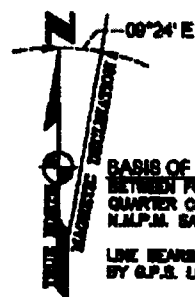
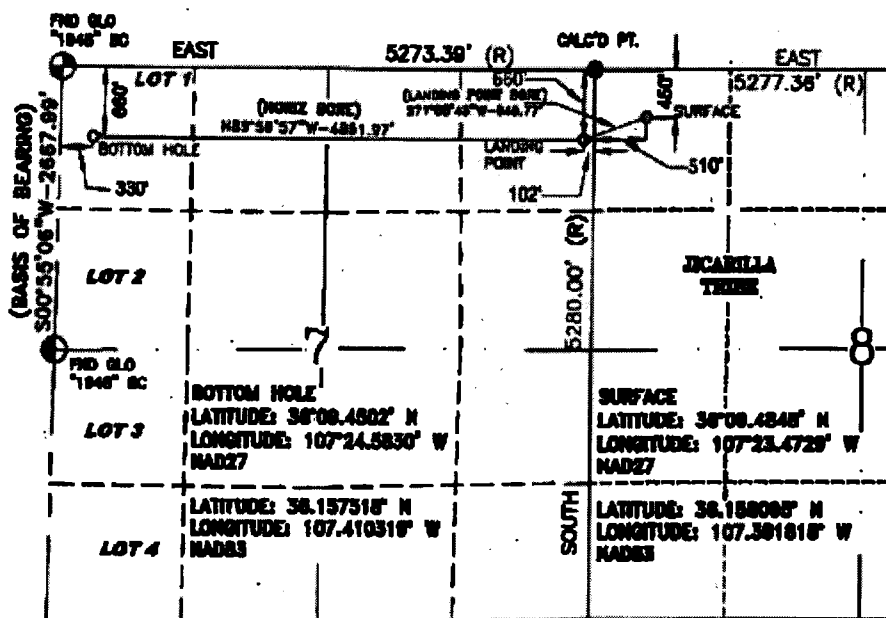
UL or Lot No.	Section	Township	Range	Lot No.	Feet from the	North/South Line	Feet from the	East/West Line	County
D	8	22-N	5-W		480	NORTH	510	WEST	SANDOVAL

Bottom Hole Location If Different From Surface

UL or Lot No.	Section	Township	Range	Lot No.	Feet from the	North/South Line	Feet from the	East/West Line	County
D	7	22-N	5-W		680	NORTH	330	WEST	SANDOVAL

Wellhead Area 159.79 N/2 N/2		Well or Wellbore		Consolidation Code		Order No. RCUD APR 17 '14 OIL CONS. DIV.	
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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 DIST. 3



BASIS OF BEARING:
BETWEEN FOUR MONUMENTS AT THE NORTHWEST CORNER AND THE WEST
QUARTER CORNER OF SECTION 7, TOWNSHIP 22 NORTH, RANGE 5 WEST,
N.M.P.M. SANDOVAL COUNTY, NEW MEXICO.
LINE BEARS 8°09'50\"/>

17 OPERATOR CERTIFICATION

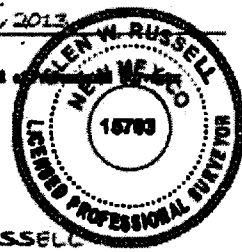
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this information shall serve as a warranty of the operator's knowledge of the facts concerning the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a well or a working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature: *Theresa Sessions* Date: 4/1/14
Printed Name: Theresa Sessions
E-mail Address: sessions@logosresourcesllc.com

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.

MARCH 13, 2013
Date of Survey
Signature and Seal of Surveyor: *Glen W. Russell*
GLEN W. RUSSELL
Certification Number: 15703





Main office: 4001 N. Butler Ave. Bldg 7101
Farmington, NM 87401
Phone: (505) 436-2626

Nashville office: 110 30th Ave. North, Suite 4
Nashville TN, 37203
Phone: (615) 523-2661

Ms. Jami Bailey, Director
New Mexico Oil Conservation Division
1220 S. St. Francis Dr.
Santa Fe, NM 87505

April 1, 2014
Sent Via Priority Mail

Re: Logos Operating, LLC
Request for Administrative Approval
Unorthodox Well Location
Wildcat Oil
LOGOS 701H
API No. – Not yet issued
Surface Location-450' FNL, 510' FWL
NW/4NW/4 Section 8, T22N, R5W

RECEIVED OGD
MAY 17 - 1 00 PM '14

Dear Ms. Bailey:

On behalf of Logos Operating, LLC ("Logos") and pursuant to Division Rule 19.15.15.13 and 19.15.15.9 governing the spacing for wildcat oil wells, we request administrative approval an unorthodox well location for the LOGOS 701H to be located at an unorthodox location as follows:

701H: Surface location:	450' FNL, 510' FWL	(NWNW Section 8)
Initial Production Point:	660' FNL, 102' FEL	(NENE Section 7)
End Casing Point:	660' FNL, 330' FWL	(NWNW Section 7)

The pool rules for Wildcat Oil Wells provide that wells shall be drilled not closer than 330' to any quarter-quarter section. The location proposed for this well is consequently unorthodox by approximately 228' to the East toward LOGOS Resources, LLC's continuation of Jicarilla Lease 424. LOGOS is the only affected operator, and therefore no notice is necessary.

The APD along with the C-102 plat showing the proposed location for the well are attached as Exhibits A and B.

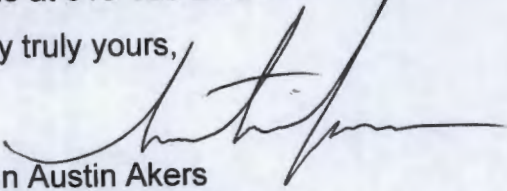
Logos seeks an exception from the applicable well location rules for the following reasons: The efficient development of the resources underlying LOGOS Jicarilla Lease 424 requires the development of the Mancos interval within the 330' setbacks between sections 7 and 8 (as well as 5 and 6- though they are not affected by these well locations) of Township 22 North, Range 5 West. The attached map illustrates the resource that would be lost if this was not allowed.

Logos Resources LLC owns and operates all depths in Section 5 and 8 toward which the well location encroaches.

The Division's Administrative Application Checklist is enclosed.

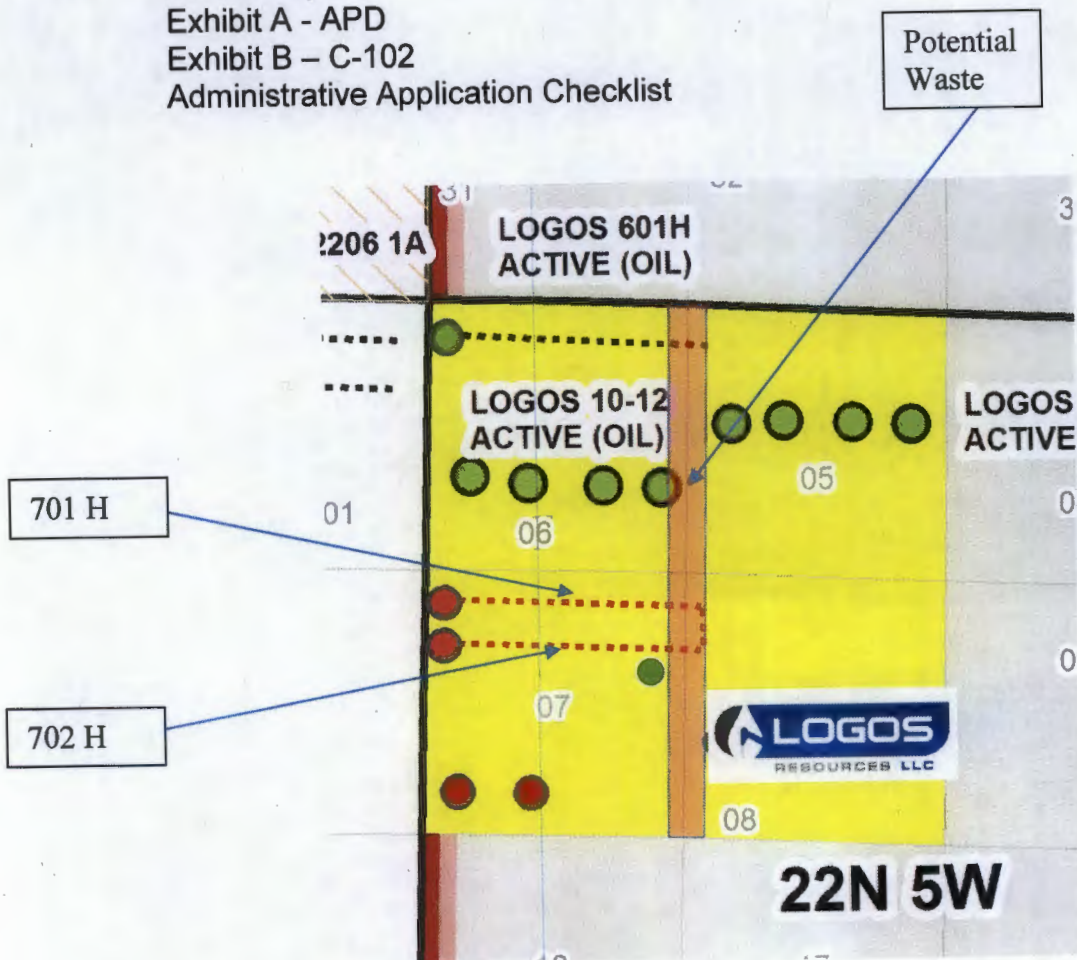
Thank you for your consideration of this request. Should more information be required, please do not hesitate to contact me at 615-523-2663.

Very truly yours,


John Austin Akers
Vice President of Land

Enclosures:

Lease Map
Exhibit A - APD
Exhibit B - C-102
Administrative Application Checklist





Ex "A"

4001 N. Butler Blvd. Bldg 7101
Farmington, NM 87401
Phone: (505) 436-2627
Fax: (505) 832-3095

February 12, 2014

Bureau of Land Management
Farmington Field Office
6251 College Blvd. Suite A
Farmington, NM 87402

RE: APD Submittal- Logos No. 701 well – Jicarilla Apache Lease #424

To whom it may concern:

Logos Operating, LLC is submitting a permit to the BLM Farmington field office on this, February 12, 2014 for the proposed drilling and completion of the Logos No. 701 well located on Jicarilla Apache Lease #424 located in Section 8, Township 22 North, Range 5 West, NMPM, in Sandoval County, NM. The Environmental Assessment for the submitted APD has been submitted to the Farmington BLM. Please note previously submitted reports noted the well name as Logos 701H, this is still the same surface location.

Should you have any land related questions, please do not hesitate to contact Austin Akers at 303-550-1877. If you have any operations related questions please do not hesitate to contact me at 505-330-9333.

Very truly yours,

A handwritten signature in cursive script that reads "Tamra Sessions".

Tamra Sessions
Operations Technician

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER


FORM APPROVED
OMB No. 1004-0137
Expires July 31, 2010

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. Jicarilla Apache Lease #424
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name Jicarilla Apache Nation
2. Name of Operator Logos Operating, LLC		7. If Unit or CA Agreement, Name and No.
3a. Address 4001 North Butler Ave., Building 7101 Farmington, NM 87401		8. Lease Name and Well No. Logos 701
3b. Phone No. (include area code) 505-330-9333		9. API Well No.
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface 450' FNL, 510' FWL At proposed prod. zone same as above		10. Field and Pool, or Exploratory Wildcat Gallup
14. Distance in miles and direction from nearest town or post office* 4 miles SW of Counselors, NM		11. Sec., T. R. M. or Blk. and Survey or Area Sec 8, T22N, R5W, UL D
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 450' FSL of Sec 5	16. No. of acres in lease 2561.60 acres	17. Spacing Unit dedicated to this well NW/4 NW/4 40 acres
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 2026' from Jair 1	19. Proposed Depth ~6500'	20. BLM/BIA Bond No. on file BIA 1062402
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 6961' GL	22. Approximate date work will start* 04/01/2014	23. Estimated duration 45 days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form:

- | | |
|--|---|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the BLM. |

25. Signature 	Name (Printed Typed) Tamra Sessions	Date 02/12/2014
---	--	--------------------

Title
Operations Technician

Approved by (Signature)	Name (Printed Typed)	Date
-------------------------	----------------------	------

Title	Office
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Application approval 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.
Conditions of approval, if any, are attached.

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.

(Continued on page 2)

*(Instructions on page 2)

**Logos Operating, LLC
Operations Plan
Logos #701**

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

- I. Location: 450' FNL & 510' FWL Date: February 12, 2014
 Sec 8, T22N R05W
 Sandoval County, NM

Field: Wildcat Gallup Elev: GL 6,961'
Surface: Jicarilla Apache
Minerals: Jicarilla Apache #424

- II. Geology: Surface formation: Nacimiento

a. Estimated tops.

Formation Tops	Depths
San Jose	Surface
Ojo Alamo	1435'
Kirtland	1590'
Fruitland	1820'
Pictured Cliffs	1960'
Lewis	2063'
Cliff House	3475'
Menefee	3520'
Point Lookout	4185'
Mancos	4380'
Gallup	5051'
Greenhorn	6170'
Graneros	6224'
Dakota	6242'
Total Depth	6500'

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

Water and gas- 1960', 3475', and 4185'
Water, gas, and oil- 4380' and 5051'

- 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/CCI 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 = 2850 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, Point Lookout, Mancos, Gallup, 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. 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"	500'	9-5/8"	36# J-55
7-7/8"	6500'	5-1/2"	17# P-110

b. Float Equipment:

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

ii. Production Casing: 5-1/2" cement float shoe and self-fill insert float collar. Place float one joint above shoe. **Place DV tool at 4,530.** 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 = 1.6 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).



Tamra Sessions, Operations Technician

Well Control Equipment Schematic for 2M Service

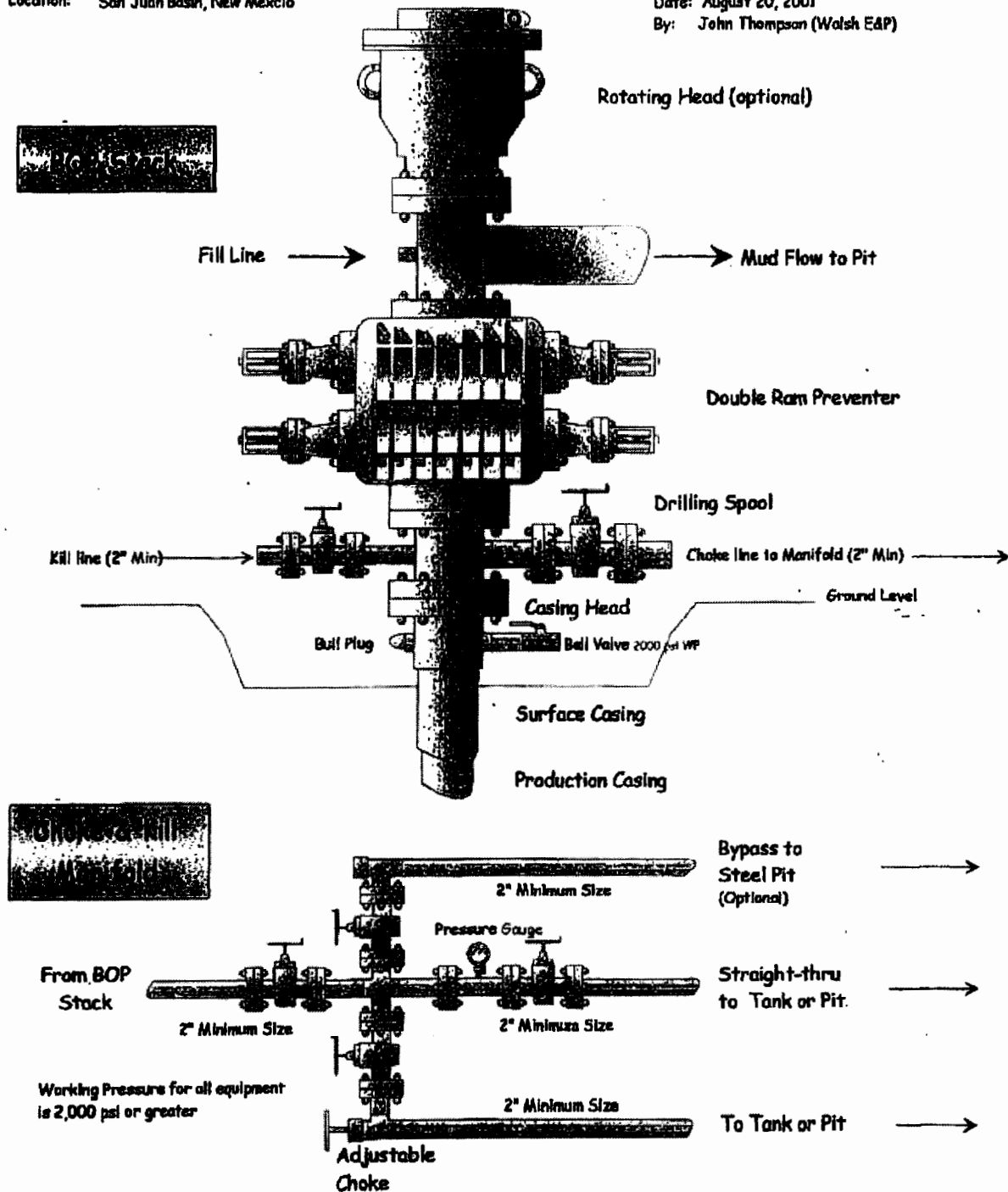
Attachment to Drilling Technical Program

Exhibit #1 Typical BOP setup

Location: San Juan Basin, New Mexico

Date: August 20, 2001

By: John Thompson (Walsh E&P)



MULTI-POINT SURFACE USE PLAN

Logos #701

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 Highway 550 and Highway 64, go south on Highway 550 for 58.7 miles. Turn right (southerly) for 2.4 miles, to the beginning of new access road on the left (southeasterly) side of a field road. From there the new access begins and continues (southeasterly) for 335.68 feet to the new location.

2. **Planned Access Roads:**

Approximately 335.68' 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 #2) shows existing wells within a one mile radius of the proposed well. There are nine permitted and producing wells and one plugged well within one mile. All producing wells and permitted wells are Logos Operating, LLC. The plugged well is operated by Pre-Ongard Well Operator.

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 #4 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 #3. Location of drilling equipment, rig orientation, and access road approach is also attached as Plat #4.

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 Jicarilla Apache. An on-site inspection with a BIA representative was performed October 30, 2013.

12. Other Information:

Adkins Consulting, Inc. has prepared an EA and a T&E species survey for the access road and location. Western Cultural Resource Management, Inc. performed an archaeology survey. Copies of their reports have been sent directly to the BIA and BLM. No conflicts were discovered.

13. Lessee's or Operator's Representative:

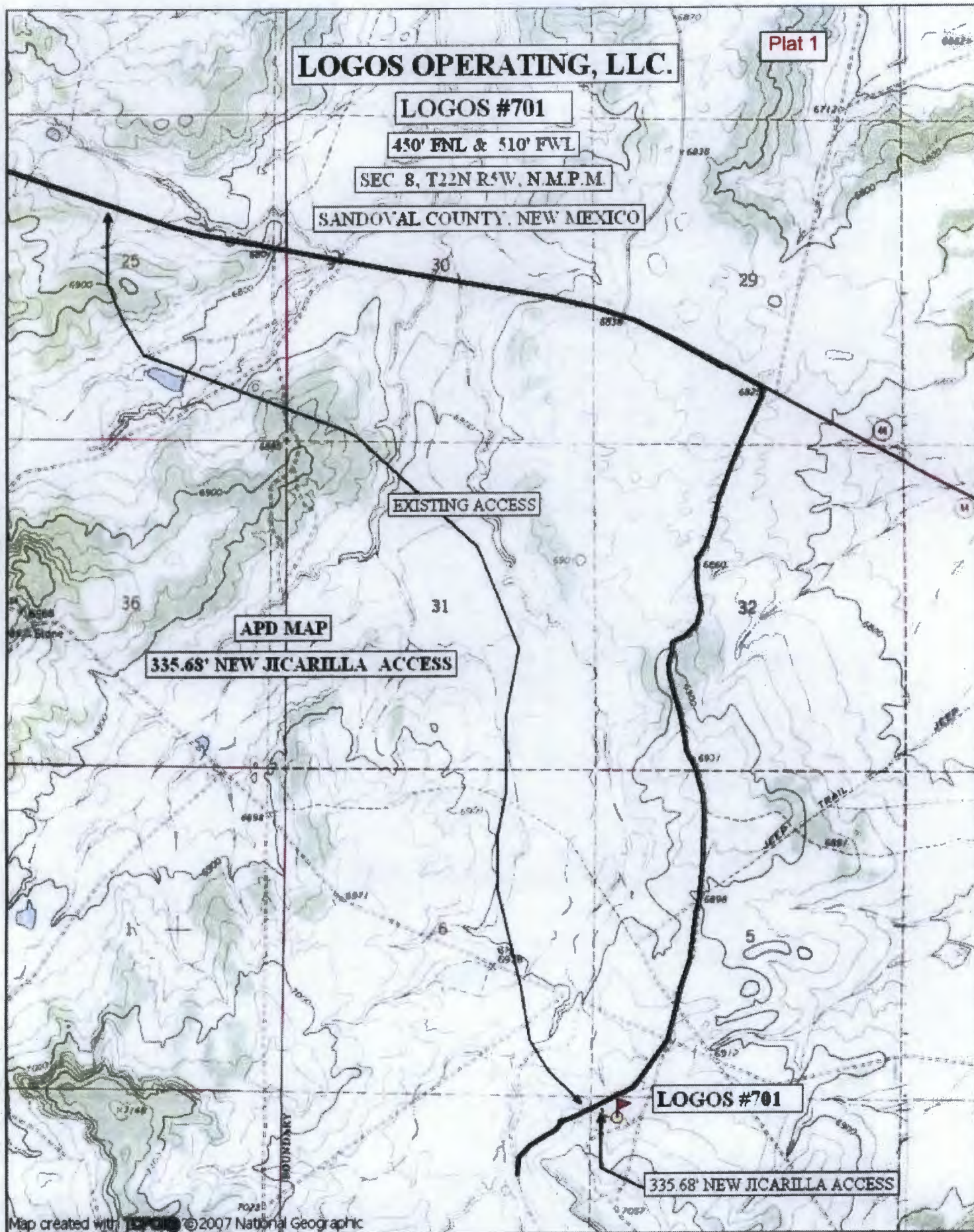
Tamra Sessions
Logos Operating, LLC
4001 North Butler Ave, Building 7101
Farmington, NM 87401
Phone: (505) 330-9333

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.

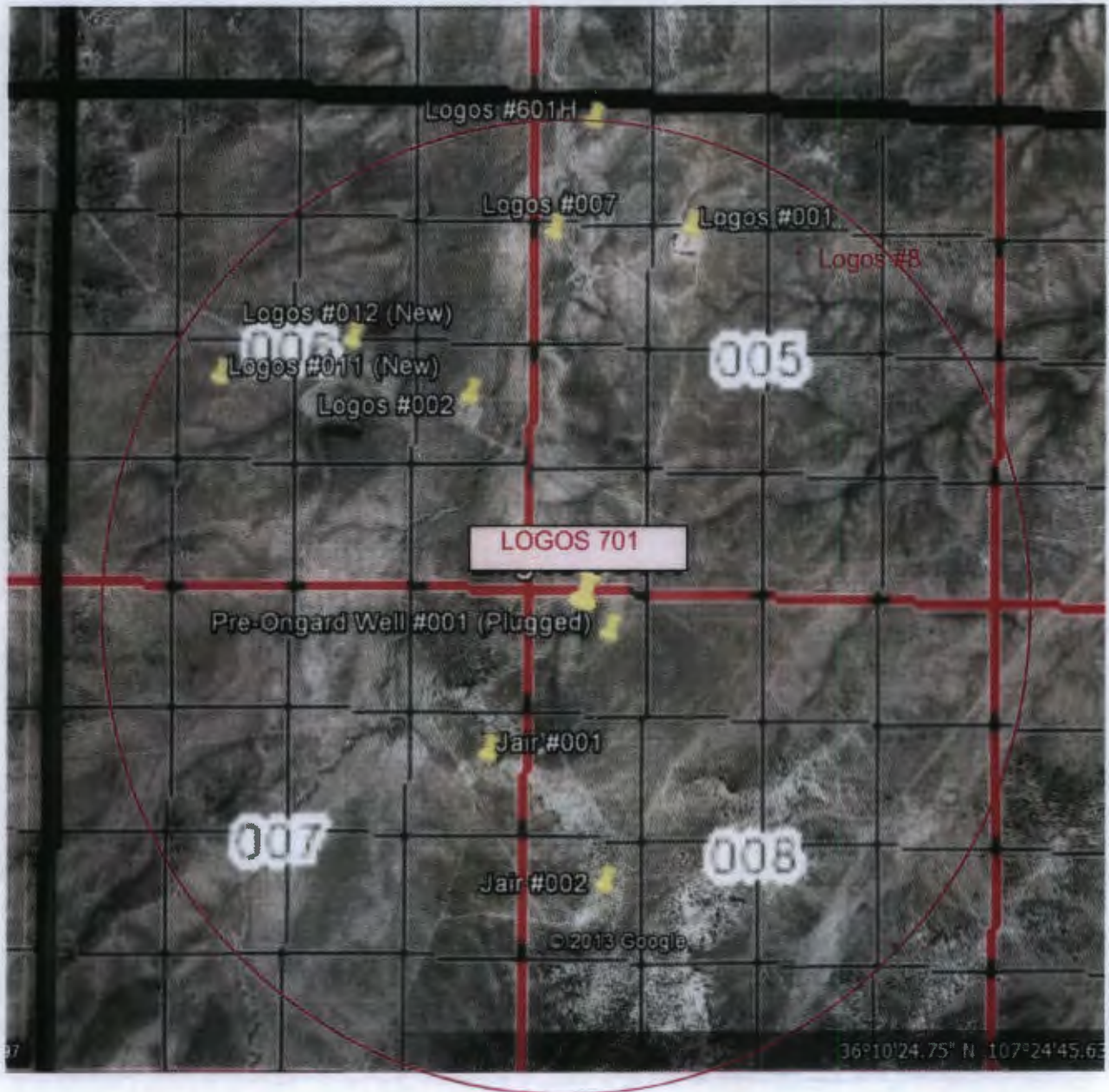
2/12/14
Date

Tamra Sessions
Tamra Sessions
Operations Technician



Plat 2

Adjacent Well Locations - 1mi radius
Logos Operating, LLC - Logos #701
Section 8, Township 22N Range 8W



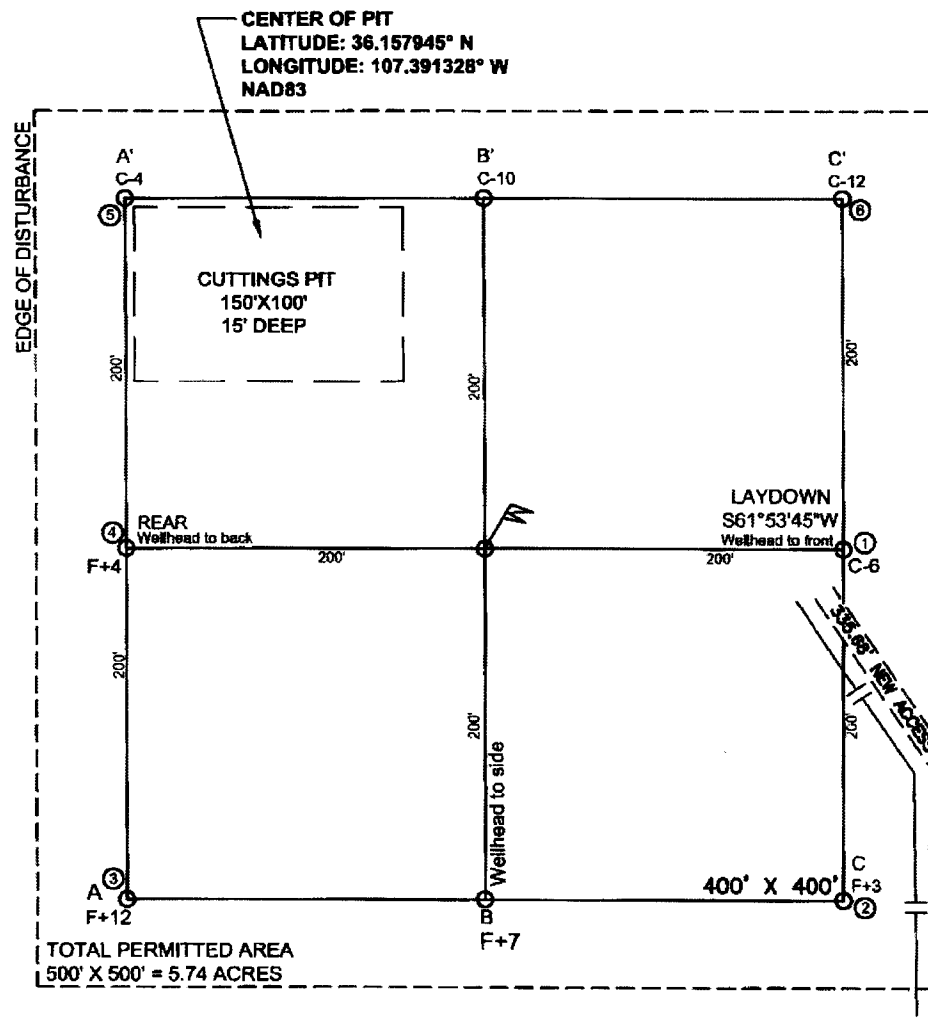
Plat 3

LOGOS OPERATING, LLC

LOGOS #701 , 450' FNL & 510' FWL

SECTION 8, T-22-N, R-5-W, NMPM, SANDOVAL COUNTY, NM

GROUND ELEVATION: 6961', DATE: OCTOBER 16, 2013/RVSD: DECEMBER 11, 2013

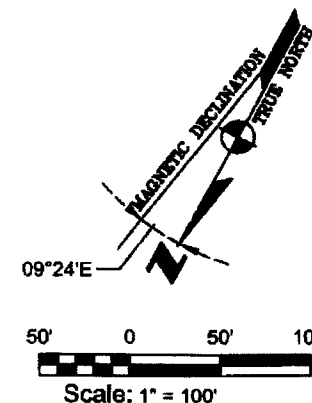


LATITUDE: 36°09.4848' N
LONGITUDE: 107°23.4729' W
NAD27

LATITUDE: 36.158095° N
LONGITUDE: 107.391818° W
NAD83

NOTES:

1. VECTOR SURVEYS IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES. CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPELINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.
2. RESERVE PIT DIKE: TO BE 8' ABOVE DEEP SIDE (OVERFLOW - 3' WIDE AND 1' ABOVE SHALLOW SIDE).



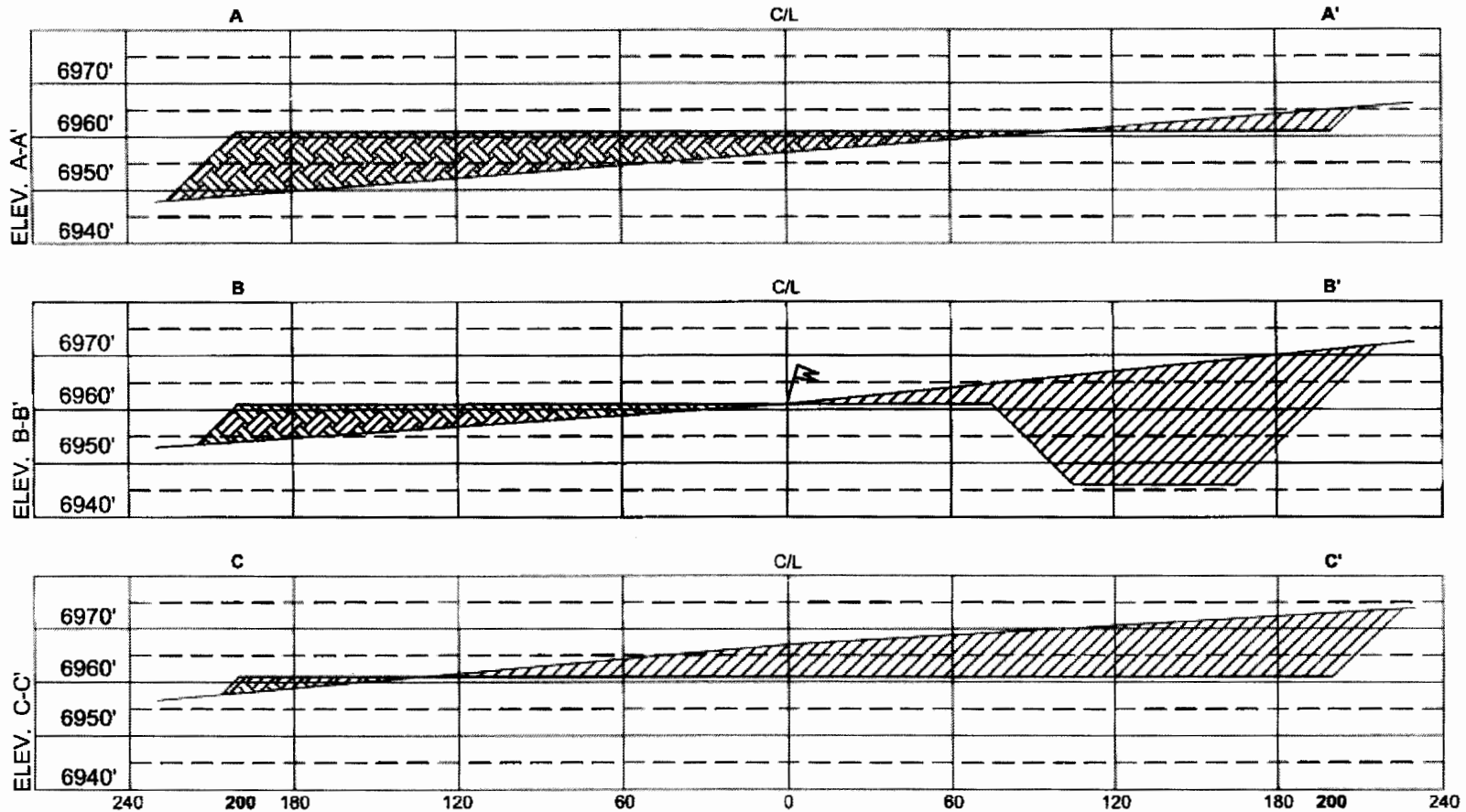
Plat 3

LOGOS OPERATING, LLC

LOGOS #701 , 450' FNL & 510' FWL

SECTION 8, T-22-N, R-5-W, NMPM, SANDOVAL COUNTY, NM

GROUND ELEVATION: 6961', DATE: OCTOBER 16, 2013



HORIZ. SCALE: 1" = 60'
VERT. SCALE: 1" = 30'

NOTE:

VECTOR SURVEYS IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES. CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPELINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

**Directions from the Intersection of Highway 550 and Highway
64 in Bloomfield, NM
to
LOGOS OPERATING, LLC
LOGOS #701
450' FNL 510' FWL,
Section 8, T22N, R5W, N.M.P.M., SANDOVAL County,
New Mexico
Latitude: 36° 09' 29.141" N
Longitude: 107° 23' 30.544" W
Nad 1983**

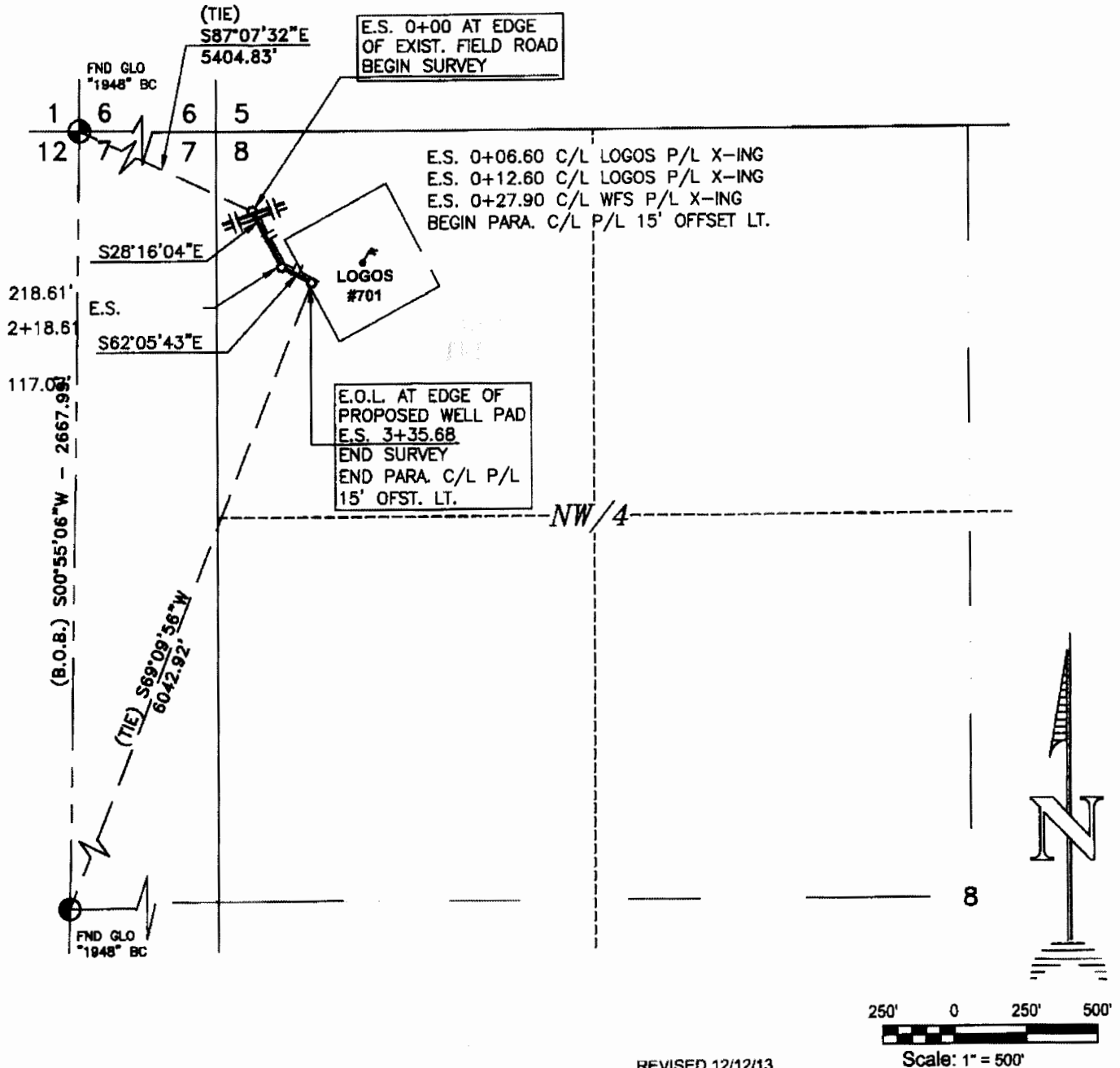
**From the Intersection of Highway 550 & Highway 64
Go South on Hwy 550 for 58.7 miles
turn right (southerly) for 2.4 miles,
to the beginning of new access
on the left (southeasterly) side of the field road, from which the
new access continues southeasterly for 335.68' to the
new location.**

LOGOS OPERATING, LLC

LOGOS #701

335.68' PROPOSED ACCESS ROAD

LOCATED IN THE NW/4 OF SECTION 8, T-22-N, R-5-W, N.M.P.M.
SANDOVAL COUNTY, NEW MEXICO



REVISED 12/12/13

OWNERSHIP

LOCATION	OWNER	STATION	FT./RODS
S8, T22N, R5W	J.C. TRIBE	E.S. 0+00 TO E.S. 3+35.68	335.68/20.34

BASIS OF BEARING: BETWEEN FOUND MONUMENTS AT THE NORTHWEST CORNER AND THE WEST QUARTER CORNER OF SECTION 7, TOWNSHIP 22 NORTH, RANGE 5 WEST, N.M.P.M. SANDOVAL COUNTY, NEW MEXICO.

LINE BEARS: S 00°55'06" W A DISTANCE OF 2667.99 FEET AS MEASURED BY G.P.S. LOCAL GRID NAD83.

SURVEY CREW	GWR	DRAWN BY	TD	CAD FILE
DATE OF SURVEY	12/2/13	DATE	10/23/13	LOGOS016

Vector Surveys, LLC

Professional Land Surveys, Mapping,
GPS Surveys & Oil Field Services

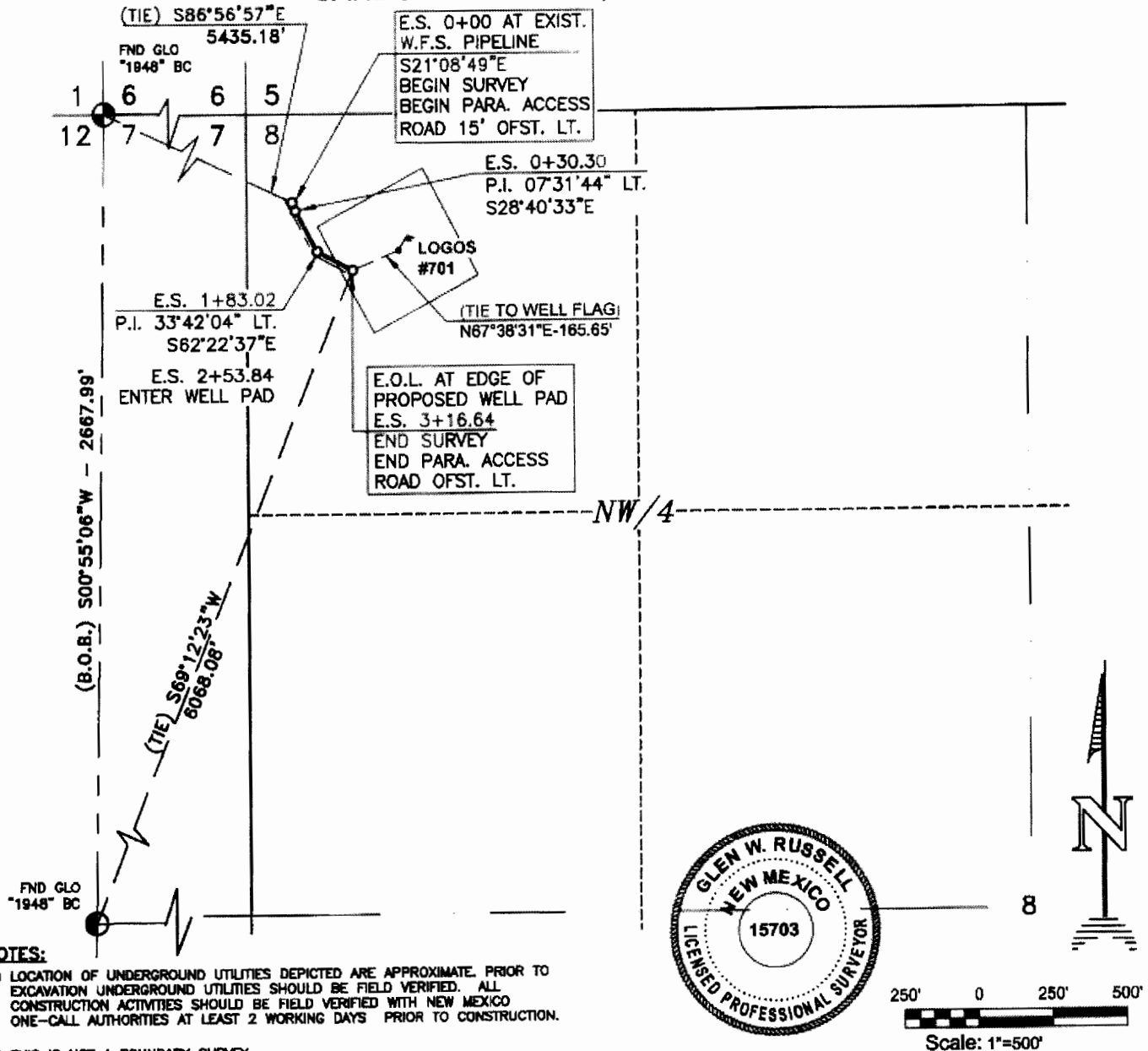
122 N Wall Avenue, Farmington, NM 87401

Phone (505) 564-3445 or 320-9595

E-Mail: vectorgroo1@msn.com

PIPELINE SURVEY FOR LOGOS OPERATING, LLC LOGOS #701

LOCATED IN THE NW/4 OF SECTION 8, T-22-N, R-5-W, N.M.P.M.
SANDOVAL COUNTY, NEW MEXICO



OWNERSHIP				
LOCATION	OWNER	STATION		FT./RODS
S8, T22N, R5W	J.C. TRIBE	E.S. 0+00	TO E.S. 3+16.64	316.64/18.19

I, GLEN W. RUSSELL, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT I CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

GLEN W. RUSSELL
GLEN W. RUSSELL, PLS
NEW MEXICO L.S. #15703

DATE DECEMBER 13, 2013

BASIS OF BEARING: AS MEASURED BY GPS BETWEEN FOUND MONUMENTS AT THE NORTHWEST CORNER AND THE WEST QUARTER CORNER OF SECTION 7, TOWNSHIP 22 NORTH, RANGE 5 WEST, N.M.P.M., SANDOVAL COUNTY, NEW MEXICO. BEARS S00°55'06"W, A DISTANCE OF 2667.89' AS MEASURED BY G.P.S. LOCAL GRID NAD83.

DATE OF SURVEY:	GWR	DRAWN BY:	TD
SURVEY CREW:	12/2/13	DATE:	12/12/13

REV. 1	
REV. 2	

VECTOR SURVEYS, LLC
Professional Land Surveys, Mapping,
GPS Surveys & Oil Field Services
122 N. Wall Avenue, Farmington, NM 87401
Phone (505) 564-3445 or 320-9595
E-Mail: vectorgr001@msn.com

WORK ORDER NO.:	LOGOS016	CAD FILE:	LOGOS016
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EX "B"

DISTRICT I
1625 N. French Dr., Hobbs, N.M. 88240
Phone: (505) 393-6161 Fax: (505) 393-0720

DISTRICT II
811 S. First St., Artesia, N.M. 88210
Phone: (505) 748-1283 Fax: (505) 748-9720

DISTRICT III
1000 Rio Brazos Rd., Artesia, N.M. 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3480 Fax: (505) 476-3482

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

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

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	² Pool Code	³ Pool Name WILDCAT GALLUP
⁴ Property Code	⁵ Property Name LOGOS	⁶ Well Number 701H
⁷ OGRID No. 289408	⁸ Operator Name LOGOS OPERATING, LLC	⁹ Elevation 6961'

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
D	8	22-N	5-W		450	NORTH	510	WEST	SANDOVAL

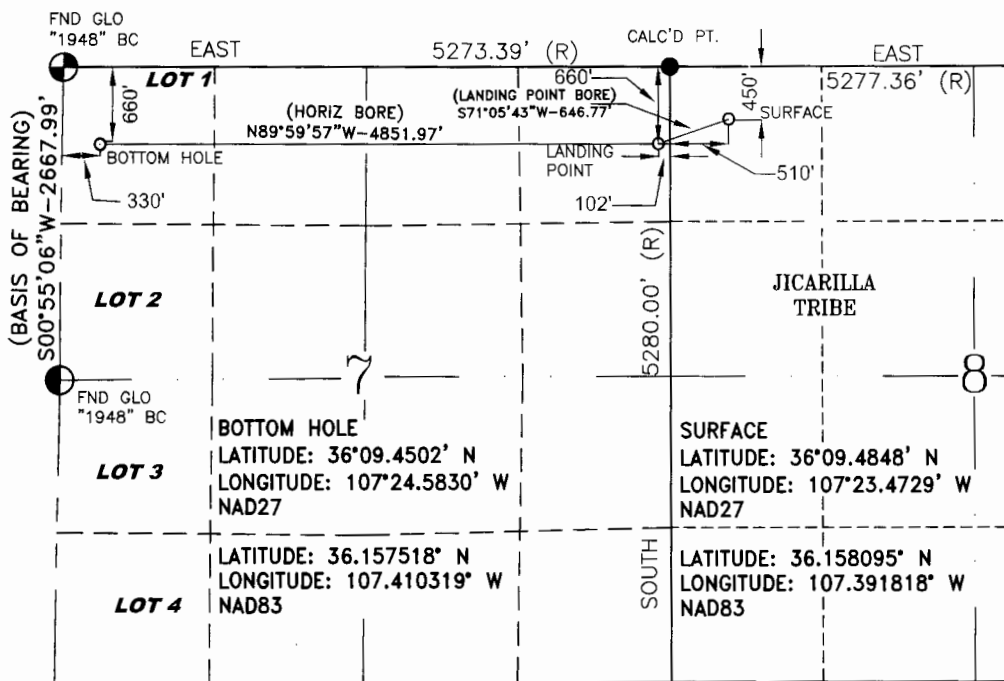
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	7	22-N	5-W		660	NORTH	330	WEST	SANDOVAL

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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

16



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 a working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature _____ Date _____

Printed Name _____

E-mail Address _____

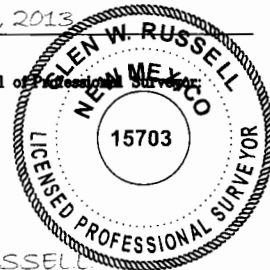
18 SURVEYOR CERTIFICATION

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.

MARCH 13, 2013

Date of Survey

Signature and Seal of Professional Surveyor

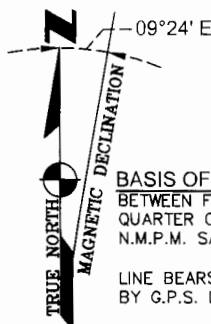


GLEN W. RUSSELL

Certificate Number 15703

BASIS OF BEARING:
BETWEEN FOUND MONUMENTS AT THE NORTHWEST CORNER AND THE WEST
QUARTER CORNER OF SECTION 7, TOWNSHIP 22 NORTH, RANGE 5 WEST,
N.M.P.M. SANDOVAL COUNTY, NEW MEXICO.

LINE BEARS: S 00°55'06" W A DISTANCE OF 2667.99 FEET AS MEASURED
BY G.P.S. LOCAL GRID NAD83.



DATE IN	SUSPENSE	ENGINEER	LOGGED IN	TYPE	APP NO.
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
- Engineering Bureau -
 1220 South St. Francis Drive, Santa Fe, NM 87505



ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] TYPE OF APPLICATION - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Simultaneous Dedication
☒ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR

[D] Other: Specify _____

[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or ☒ Does Not Apply

[A] ☐ Working, Royalty or Overriding Royalty Interest Owners
 [B] ☐ Offset Operators, Leaseholders or Surface Owner
 [C] ☐ Application is One Which Requires Published Legal Notice
 [D] ☐ Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
 [E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,
 [F] ☐ Waivers are Attached

[3] SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.

[4] CERTIFICATION: I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

John Austin Akers

 Print or Type Name

 Signature

VP of Land

 Title

4/1/2014

 Date

aakers@logosresourcesllc.com

 e-mail Address

RECEIVED OGD

2014 APR -7 P 2:12



Leann Plagens
CCI San Juan LLC
811 Main Street, Suite 3500
Houston, TX 77002

Re: Transfer of New Mexico Energy, Minerals and Natural Resources Department
Discharge Permit GW-033 and Associated Renewal Application

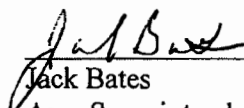
Dear Ms. Plagens:

On behalf of Western Gas Resources, Inc. ("WGR"), this letter confirms that WGR will be selling the San Juan River Gas Plant in San Juan County, New Mexico (the "Facility") to CCI San Juan LLC ("CCI") on or about April 15, 2014 (the "Transfer Date"). As part of this transfer, WGR intends to transfer Discharge Permit GW-033 (the "Permit") for the Facility along with the renewal application for the Permit dated June 30, 2011 (the "Renewal Application") to CCI as of the Transfer Date.

A copy of this letter is being provided to the Director, Environmental Bureau, Oil Conservation Division, New Mexico Energy, Minerals and Natural Resources Department. By copy of this letter, the Director is requested to inform CCI directly at the name and address provided above of any additional actions necessary to transfer the Permit or the Renewal Application from WGR to CCI.

Please feel free to contact me if you have any questions at 832-636-4847.

Sincerely,



Jack Bates
Area Superintendent

cc: Director, Environmental Bureau
Oil Conservation Division
New Mexico Energy, Minerals and Natural Resources Department.
1220 South St. Francis Drive
Santa Fe, NM 87505
(Via Certified Mail)

McMillan, Michael, EMNRD

From: Hoppe, William, EMNRD
Sent: Tuesday, April 01, 2014 1:06 PM
To: McMillan, Michael, EMNRD
Subject: RE: logo 701H

Lybrook, 330 ft. setbacks and 40 acre spacing.

From: McMillan, Michael, EMNRD
Sent: Tuesday, April 01, 2014 1:01 PM
To: Hoppe, William, EMNRD
Subject: logo 701H

Bill:

Can you tell me what pool the Logos 701. No API#. Surface: 8-22N-6W BHL: 7-22N-5W. Gallup pool. Sandoval County
Thanks Mike