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

	[PC-Pc	ool Commingling) [OLS - Off-Lease [WFX-Waterflood Expansion] [PM	IX-Pressure Maintenance Expansi IPI-Injection Pressure Increase)	on Response] 2854
1	TYPE OF AE	PPLICATION - Check Those Which Location - Spacing Unit - Simultan NSL NSP SD		- Warner-CA 14 30-045-35
	Check [B]	One Only for [B] or [C] Commingling - Storage - Measurer DHC CTB K PLC	ment □ PC □ OLS ⊠ OLM	. 3 1.3
	[C]	Injection - Disposal - Pressure Incre WFX PMX SWI	ease - Enhanced Oil Recovery D	
	[D]	Other: Specify		9 3
	NOTIFICAT [A]	ION REQUIRED TO: - Check Tho Working, Royalty or Overridin		10905 # 6 30-045-3556 - L0905#6
	[B]	Offset Operators, Leaseholder	s or Surface Owner	- L0905#6
	[C]	Application is One Which Rec	quires Published Legal Notice	1 5 - 354
	[D]	Notification and/or Concurren U.S. Bureau of Land Management - Commission	t Approval by BLM or SLO oner of Public Lands State Land Office	-L0905#5 30-045-3542
	[E]	For all of the above, Proof of ?	oner of Public Lands State Land Office Notification or Publication is Attach	ned, and/or, -Besin
	[F]	☐ Waivers are Attached		97232 -Busing
	SUBMIT ACC OF APPLICA	CURATE AND COMPLETE INFO	ORMATION REQUIRED TO PE	ROCESS THE TYPE - Nac - C - 1 ion for administrative
rov dic	/al is accurate a	FION: I hereby certify that the informed complete to the best of my knowled information and notifications a	edge. I also understand that no acti	ion for administrative
	Note:	Statement must be completed by an indivi	dual with managerial and/or supervisory	capacity.
	Sessions	Tambessin	Operations Technician	3/26/14
	г Type Name	Signature	Title	,

e-mail Address

Ezeanyim, Richard, EMNRD

From: Tamra Sessions <tsessions@logosresourcesllc.com>

Sent: Monday, April 14, 2014 1:09 PM

To: Ezeanyim, Richard, EMNRD
Cc: McMillan, Michael, EMNRD
Subject: PLC 388_Warner_Caldwell 1A 3B

Attachments: C-103 Surface Commingle WC1A Revised scan.pdf; Identical Ownership Letter to

OCD.pdf; C-103 Surface Commingle WC3B revised scan.pdf

Richard here are the revised C-103s and letter to NMOCD. Please let me know if there is anything else you need. Thank you!

Tamra Sessions Logos Resources, LLC Operations Technician tsessions@logosresourcesllc.com 505-330-9333

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4001 N. Butler Blvd. Bldg 7101 Farmington, NM 87401 Phone: (505) 436-2626 Fax: (505) 832-3095

2914 APN 15 □ 2: 00 April 14th, 2014

New Mexico Oil Conservation Division 1220 S. St. Francis Drive Santa Fe. NM 87505

To whom it may concern:

As of April 14, 2014 the ownership in the following wells is identical:

- LOGOS 5
- LOGOS 6
- Warner-Caldwell 3B
- Warner-Caldwell 1A

Please contact me at 303-550-1877 if you have any questions.

Thank you.

John Austin Akers

VP of Land- LOGOS Resources, LLC

Form 3160-5 (March 2012)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an

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

5. Lease Serial No. NM 109399 & NM 109398

6. If Indian, Allottee or Tribe Name

(APD) for such proposals.				
r instructions on page 2.	7. If Unit of CA/Agree	ement, Name and/or No.		
	8. Well Name and No. Logos #6 & Logos #	5 & Warner-Caldwell 1A and 3B		
	9. API Well No. 30-045-35422, 045-3	35423,045-35505,045-35506		
3b. Phone No. (include area code)	10. Field and Pool or E	Exploratory Area		
505-436-2627	Basin Mancos & Bas	Basin Mancos & Basin Dakota & Nageezi Gallup		
)	11. County or Parish, S	State		
		M		
OX(ES) TO INDICATE NATURE O	F NOTICE, REPORT OR OTHE	ER DATA		
ТҮРЕ	OF ACTION			
Deepen [Production (Start/Resume)	Water Shut-Off		
Fracture Treat	Reclamation	Well Integrity		
New Construction	Recomplete	Other Off Lease		
Plug and Abandon	Temporarily Abandon	Measurement &		
Plug Back	Water Disposal	Surface Commingle		
1	3b. Phone No. (include area code) 505-436-2627 bell1A 348fnl 1960fel Warner-Caldwell3B 384 N, R8W, UL A Section 8, T23N, R8W DX(ES) TO INDICATE NATURE O TYPE Deepen Fracture Treat New Construction Plug and Abandon	8. Well Name and No. Logos #6 & Logos # 9. API Well No. 30-045-35422, 045-35422, 045-35426, 045-35426, 045-35426 10. Field and Pool or E Basin Mancos & Ba		

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 is requesting approval to surface commingle the gas production from the Warner-Caldwell 1A (and the Warner-Caldwell 3B for which an

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.

Logos Operating, LLC is requesting approval to surface commingle the gas production from the Warner-Caldwell 1A (and the Warner-Caldwell 3B for which an additional application is being submitted simultaneously with this application) with the current production being commingled between the Logos 6 and Logos 5 wells through Right-of-Way Grant NMNM 130583, at a central delivery point on the Logos 5 location. LOGOS has received approval to build on-lease pipelines from the Warner-Caldwell 1A and Warner-Caldwell 3B wells to the existing line on the lease.

There is identical ownership between all leases and all pools. The method of allocation will be subtraction method using electronic meters at the Warner-Caldwell 1A and 3B, as well as the LOGOS 6 well, the remainder being allocated to the LOGOS 5 well. All production will be sold at the sales meter next to the LOGOS No. 5 well. Ownership of all minerals and surface affected is the USA

The approval of this will greatly reduce the time necessary to flare the Warner-Caldwell wells. Completion of the gas lines and allowance of sales will reduce emissions and provide royalty income to the MMS.

This is a Category 1 action with no royalty impacts.

Attachments: C-102 plats, Pipeline plats, Memo with allocation method and list of leases, Facilities map, Aerial/Topo maps.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)		
Tamra Sessions Titl	e Operations Technician	
Signature Tan Session Date	· 3/24/14	
THIS SPACE FOR FEDERA	L OR STATE OFFICE USE	
Approved by		
	Title	Date
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	

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.

DISTRICT I 1625 N. French Dr., Hobbs, N.M. 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
DISTRICT II
811 S. First St., Artesia, N.M. 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
DISTRICT III
1000 Bio Brasos Rd., Artes, N.M. 87410
Phone: (506) 334-6178 Fax: (506) 334-6170
DISTRICT IV
1220 S. St. Francis Dr., Sante Fe, NM 87506
Phone: (506) 476-3460 Fax: (505) 476-3462

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-10: Revised August 1, 201 Submit one copy to appropriate District Office

☐ AMENDED REPOR?

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30-04	Number	5025		Pool Code 47540		The second secon	*Pool Nam NAGEEZI G			
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OGRID No.	•				*Operator				• Elevati	
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DISTRICT IV
1220 S. St. Francis Dr., Santa Pe, NM 67506

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

30-0	Number	5506	4	"Pool Code 17540			*Pool Neme NAGEEZI G		
Property (⁶ Property	Name		. 4	ell Number
4041	40413 WARNER -CALDWELL 3B					3B			
OGRID N					* Operator	Name			Elevation
28940	8			L	OGOS OPERAT	ING. C.C.		1	6867'
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	100	Chan territoria de la calciana de la	11 Bott	om Hole	Location 1	f Different Fr	om Surface		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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BASIS OF BEARING.

BETWEEN FOUND MONUMENTS AT THE NORTHHAST CORNED AND THE EAST OUARTER CORNED OF SECTION B. TOWNSHIP 25 NORTH, PANCE 5 455.

N.M.

BASIS OF BEARING.

BETWEEN FOUND MONUMENTS AT THE NORTHHAST CORNED AND THE EAST OUARTER CORNED OF SECTION B. TOWNSHIP 25 NORTH, PANCE 5 455.

N.M.P.M. SAN JUAN COUNTY, NEW MEXICO.

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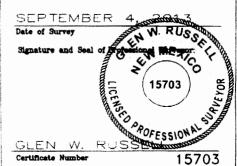
Printed Name

Control Colognoscon of Control

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.



State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102 Revised August 1, 2011

Submit one copy to appropriate District Office

OIL CONSERVATION DIVISION 1220 South St. Francis Dr Santa Fe, NM 57505

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CONFIDENTIAL

DISTRICT (MARIA M., Present Dr., Robbe, H.H., 88240 Penner (578) 369-4161 Fest (873) 259-4726 DISTERCT !! ELL S. FORE St., Artesta, N.M. 20210 Phones: (876) 748-1285 Ph.S. (876) 748-1725 DISTRICT_III 1805 No Branco Rd., Arles, M.H. \$7410 Phones (806) 354-4176 Pari (806) 854-1176 DISTRICT IV

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised August 1, 2011

Submit one copy to appropriate District Office

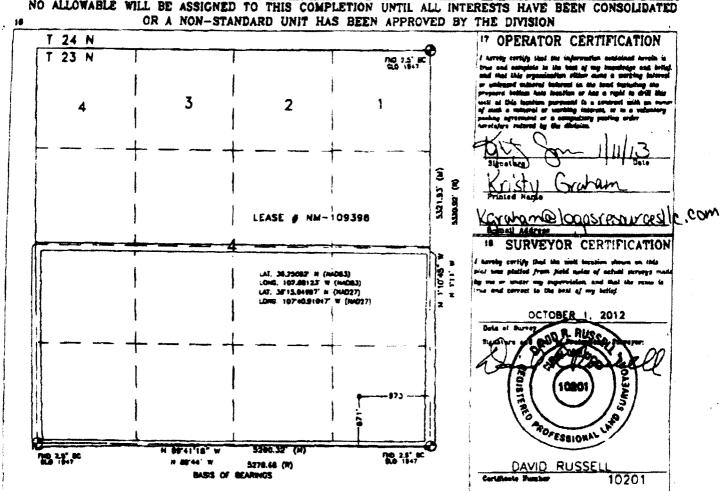
OIL CONSERVATION DIVISION 1220 South St. Francis Dr Santa Fe, NM 87505

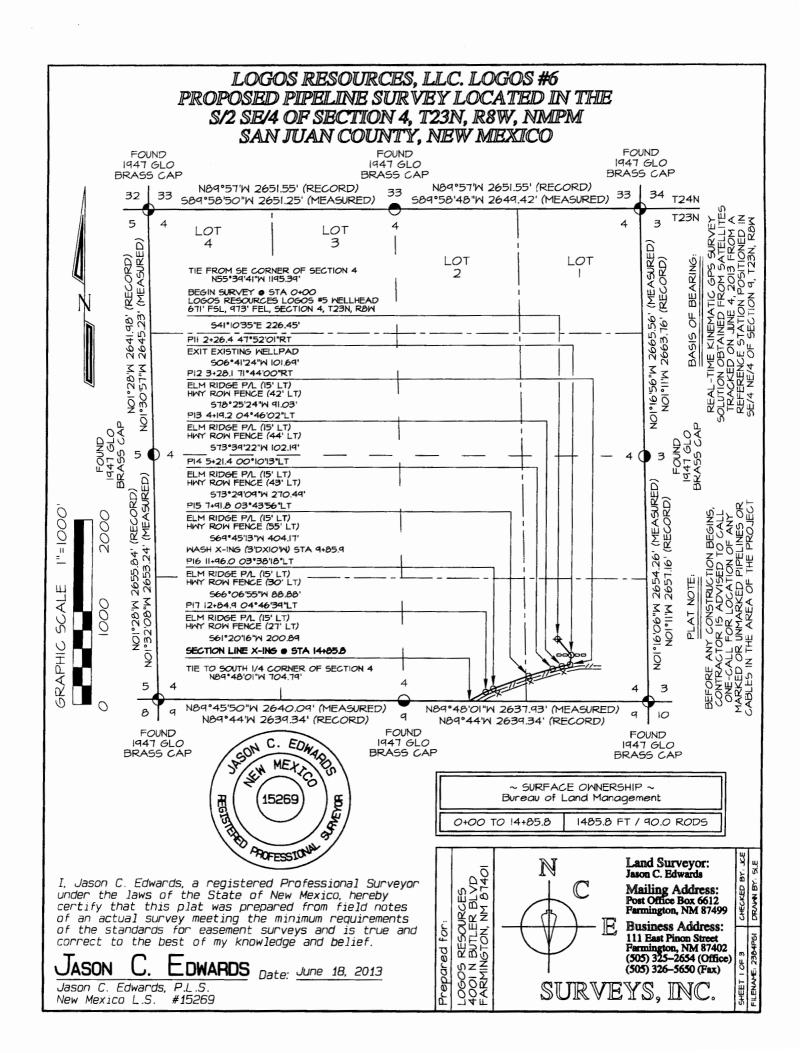
☐ AMENDED REPORT

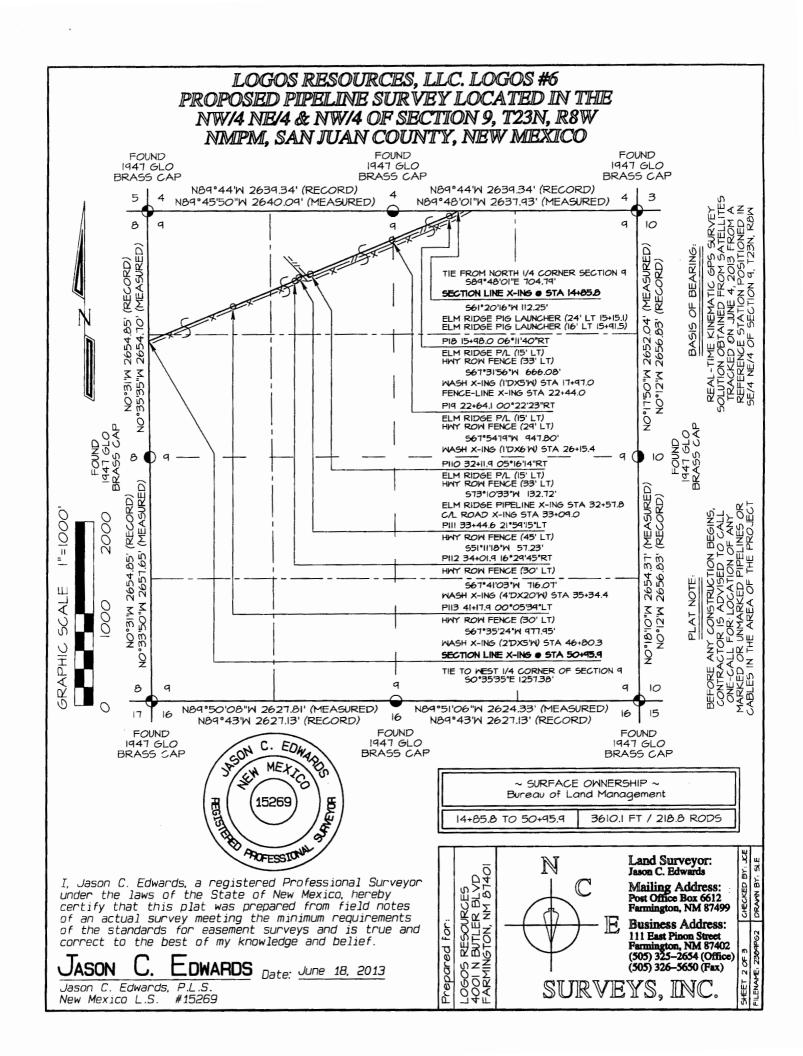
DIST. 3

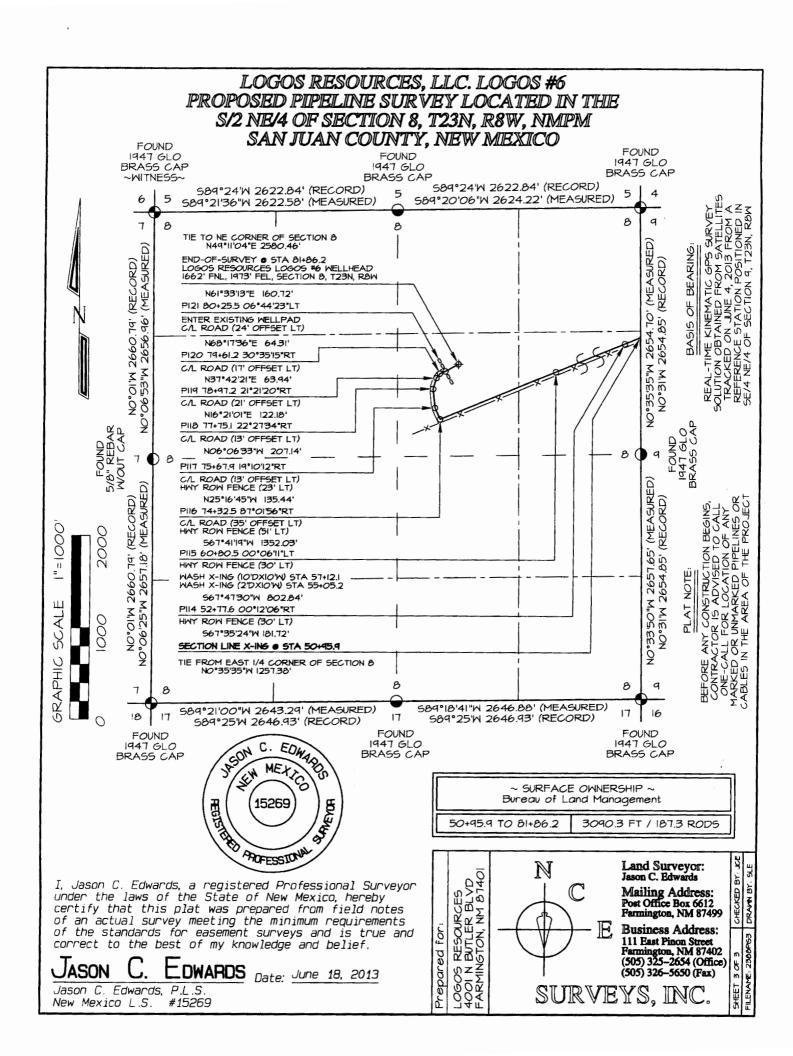
00 S. St. Francis Sr., Sunte Fo, 754 67705 con: (800) (75-5400 Fax: (905) 476-5462 WELL LOCATION AND ACREAGE DEDICATION PLAT API Mumber Pool Code BASIN BASEN DAKOTA 30-045-35423 M AN COSÀ 47232: 71590 Vall Bumber Property Code *Property Kame 311963 LOGOS Operator Name Devetion 89408 LOGOS OPERATING, LLC 5867 10 Surface Location UL or lot no. Foot from the Section Township North/South line | Feet frees the Eart/West time BADGE County ρ 671 23N 8W SOUTH EAST SAN JUAN 973 11 Bottom Hole Location If Different From Surface UL er lot be. Foot from the Herib/South line | Feet from the East/Seet Has | County RCVD JAN 15'13 is Joint or Infill " Coppelidation Code Order Ho. OIL CONS. DIV. 320 - 5/2

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED





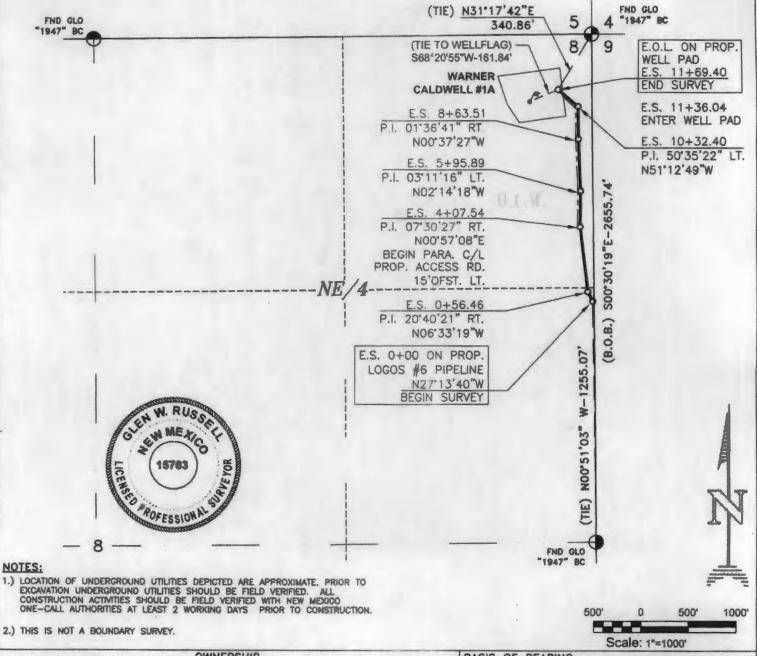




PIPELINE SURVEY FOR

LOGOS OPERATING, LLC **WARNER-CALDWELL #1A**

LOCATED IN THE NE/4 OF SECTION 8, T-23-N, R-8-W, N.M.P.M. SAN JUAN COUNTY, NEW MEXICO



2.) THIS IS NOT A BOUNDARY SURVEY.

OWNERSHIP						
LOCATION	OWNER	STATION	FT./RODS			
S8, T23N, R8W	B.L.M.	E.S. 0+00 TO E.S. 11+69.40	1169.40/70.87			

I, GLEN W. RUSSELL, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT ! 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 NOVEMBER 27 2013

BASIS OF BEARING: AS MEASURED BY GPS BETWEEN FOUND MONUMENTS AT THE NORTHEAST CORNER AND THE EAST QUARTER CORNER OF SECTION 8, TOWNSHIP 23 NORTH, RANGE 8 WEST, N.M.P.M. SAN JUAN COUNTY, NEW MEXICO. BEARS 500'30'18'E, A DISTANCE OF 2655.74" AS MEASURED BY G.P.S. LOCAL GRID NAD83,

DATE OF SURVEY:	GWR	DRAWN BY:	TD
SURVEY CREW:	8/14/13	DATE:	8/25/13
-1 1 11/2E/12			

2

TOR SURVEYS,

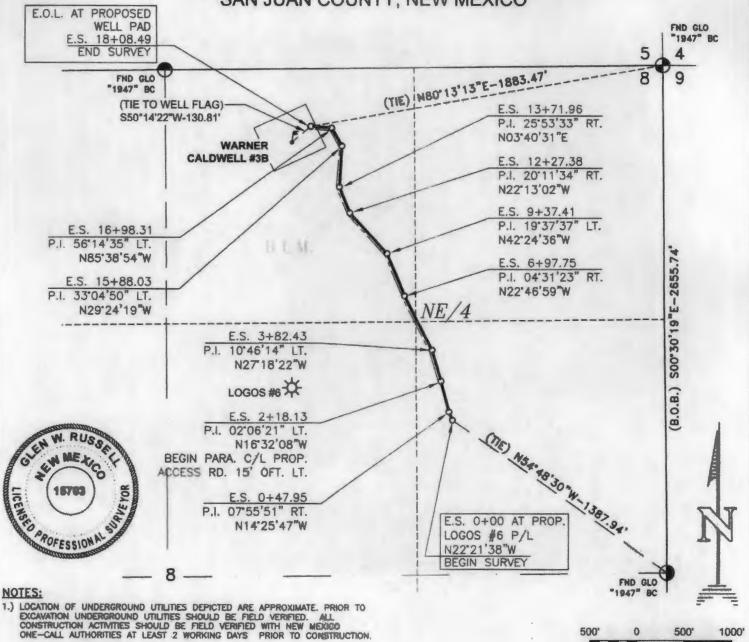
Professional Land Surveys, Mapping, GPS Surveys & Oil Field Services 12 N Wall Avenue, Farmington, NM 87401 Phone (905) 564-3445 or \$20-9595 E-Mail: vectorar001@mon

WORK ORDER NO .: LOGOSOO6 CAD FILE: LOGOSOO6

PIPELINE SURVEY FOR

LOGOS OPERATING, LLC **WARNER CALDWELL #3B**

LOCATED IN THE NE/4 OF SECTION 8, T-23-N, R-8-W, N.M.P.M. SAN JUAN COUNTY, NEW MEXICO



2.) THIS IS NOT A BOUNDARY SURVEY.

OWNERSHIP							
LOCATION	OWNER	STATION	FT./RODS				
S8, T23N, R8W	B.L.M.	E.S. 0+00 TO E.S. 18+08.49	1808.49/109.61				

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 P FOR SURVEYING IN NEW MEXICO.

GLENW. RUSSELL

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

REGISTERED PRO RESPONSIBLE FO TO THE BEST O	JFESSIUNAL	SURVEYOR	>	3	11/26/13
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DATE DECEMBER 5, 2013

Professional Land Surveys, Mapping, GPS Surveys & Oil Field Services Phone (506) 564-3445 or 320-9595

122 N Wall Avenue, Farmington, NM 87401 E-Mail: vectorgr0014Pmsn com

2655,74' AS MEASURED BY G.P.S. LOCAL GRID NAD83

8/12/13

ECTOR SURVEYS,

BASIS OF BEARING: AS MEASURED BY GPS BETWEEN FOUND MONUMENTS AT THE NORTHEAST CORNER AND THE EAST QUARTER CORNER OF SECTION 8, TOWNSHIP 23 NORTH, RANGE 8 WEST, N.M.P.M., SAN JUAN COUNTY, NEW MEXICO. BEARS 500°30'19"E, A DISTANCE OF

WORK ORDER NO .: LOGOSO11 CAD FILE:

DATE OF SURVEY:

SURVEY CREW:

Scale: 1"=1000"

DATE:

LOGOS011

TD

8/25/13



4001 N. Butler Ave Farmington, NM 87401 Phone: (505) 215-8215

Fax: (303) 974-1767

Date: 3/26/2014

To: Bureau of Land Management

Re: Warner-Caldwell 1A - Off-lease Commingled Gas Measurement

Logos Operating, LLC ("LOGOS") proposes to surface commingle the gas production from the Warner-Caldwell 1A (API 30-045-35505) with the Logos #5 (API 30-045-35423) and Logos 6 (API 30-045-35424) which already have approval for surface comingling. Simultaneously with this application, LOGOS is submitting an application to add the Warner-Caldwell 3B (API 30-045-35506) which will also be added to the commingle. The surface commingle will allow for the Warner-Caldwell new drills to sell gas into a shared meter which will minimize flaring as well as allowing for an economical solution to share a common separator, compressor, and custody transfer meter.

The gas from the Warner-Caldwells will be piped through a steel pipeline and connect into the pre-existing pipeline running from the LOGOS No. 6 to the Logos No. 5, which will run into a gas scrubber located at the Logos #5 location. The gas will be commingled at the inlet of the gas scrubber and will be sold to a custody transfer Central Delivery Point (CDP) located at the Logos #5 location. The CDP will measure the total commingled gas volume from the Warner-Caldwell 1A, Warner-Caldwell 3B, the Logos #5, and Logos #6.

Gas allocations will be determined using electronic measurement meters at the LOGOS 6, Warner-Caldwell 1A, and Warner-Caldwell 3B locations, the remainder will be allocated to the LOGOS No. 5 well. Gas used on lease prior to the meters will be calculated using standard equipment specifications.

The estimated monthly gas production for the Logos #5 is 4,000MCF (130 MCFD) and the estimated monthly production for the Logos 6 and the Warner-Caldwell 3B and 1A wells is 1,600 MCF (54 MCFD).

Gas BTU on Logos 5 is 1309.8 and the Logos 6 is 1322.4. We estimate the BTU for the Warner-Caldwell wells will be more similar to the LOGOS 6 as we offset that well- we will do gas analysis to ensure exact measurement.

The BLM royalty interest is the exact same at all wells; therefore, there will be no effect on the BLM royalty interest.

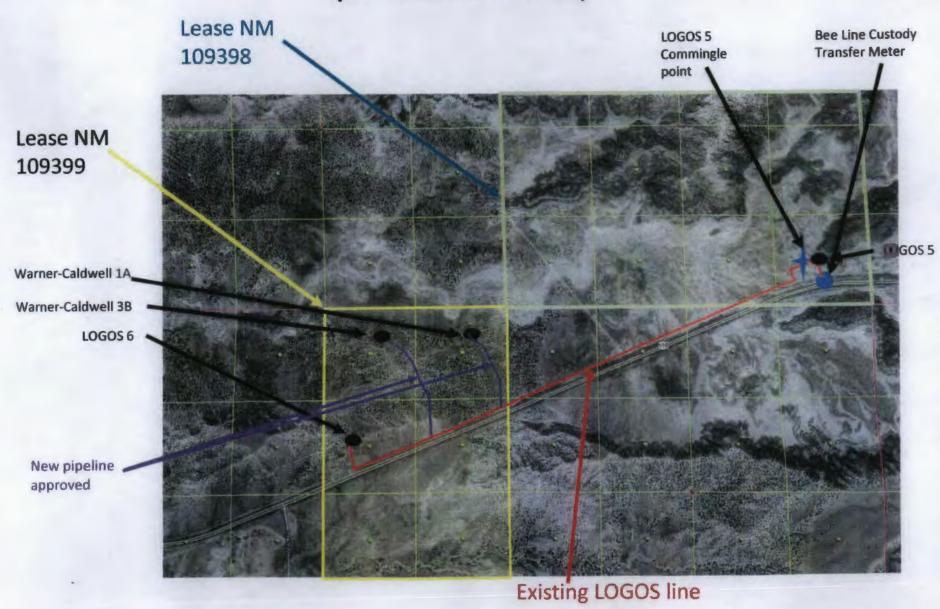
Well Name	Lease No.	Ownership	Royalty Rate (%)
Logos 5	NM 109398	Federal	12.5
Logos 6	NM 109399	Federal	12.5
Warner-Caldwell 1A	NM 109399	Federal	12.5
Warner-Caldwell 3B	NM 109399	Federal	12.5



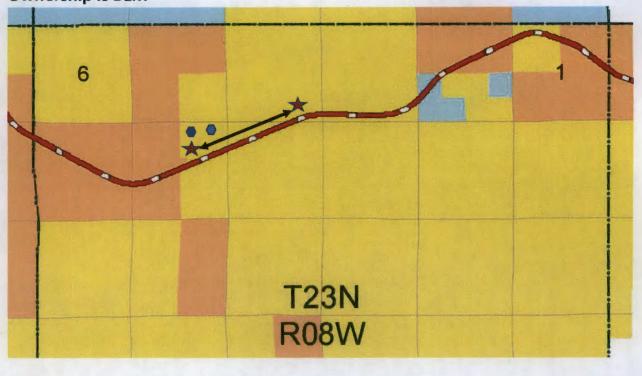
Identification of Leases and Pools (Identical Ownership)

WELL	Fed Lease No.	Pool 1	Pool 2	DHC	API
Logos 5	109398	Basin Mancos 97232	Basin Dakota 71599	3779-AZ	30-045-35423
Logos 6	109399	Nageezi Gallup 47540	Basin Dakota 71599	4618	30-045-35422
Warner-Calwell 1A	109399	Nageezi Gallup 47540	N/A		30-045-35505
Warner-Caldwell 3B	109399	Nageezi Gallup 47540	N/A		30-045-35506

Warner-Caldwell 1A and 3B to Logos 5-6 Gas Line (all federal lands)



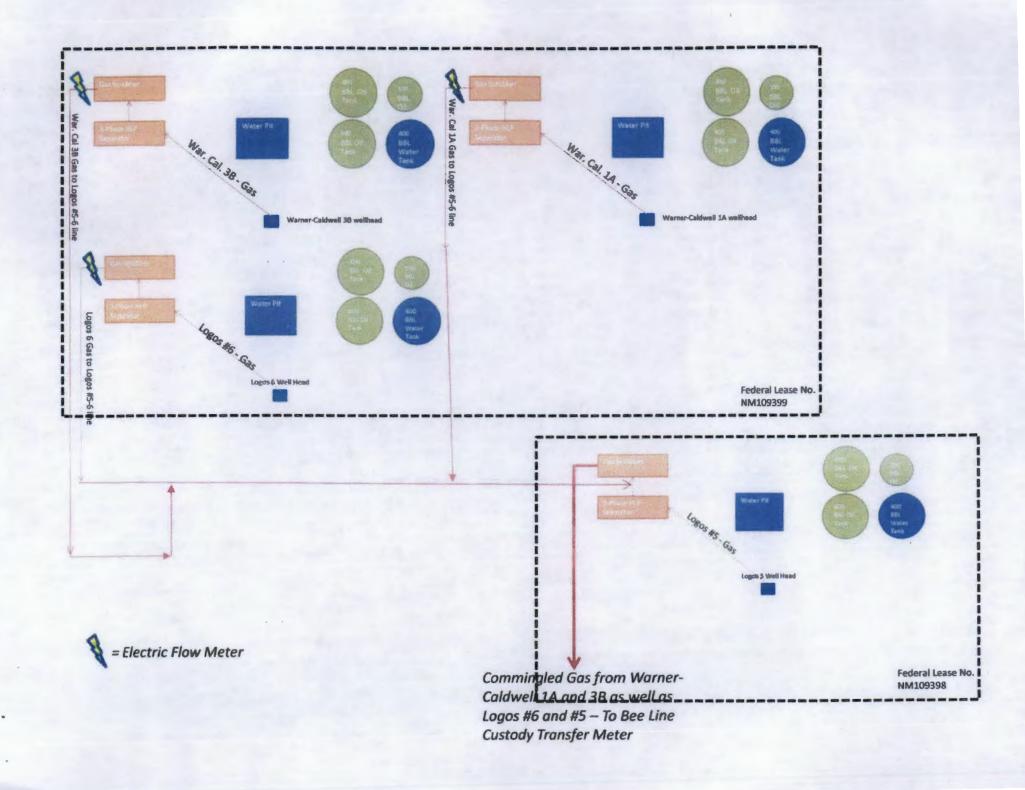
Warner-Caldwell 1A & 3B tie in to Logos 6 to Logos 5 pipeline: Surface Ownership is BLM



Bureau of Land Management



Warner-Caldwell 1A & 3B



Add Warner-Caldwell 1A and 3B to existing pipeline. All Sec 4 NM109398 Kimbete LOGOS 5 Fortyfour . East ½ Sec 8 HWY 550 NM109399