

Alberto A. Gutiérrez, C.P.C.

May 26, 2017

7017 MAY 30 A 17:154

Mr. David Catanach, Director NM Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Via Federal Express and Email

Re: Request of Targa Midstream Services LLC for Modification of R-13052A, SWD-1654 and SWD1671 to Raise Maximum Injection Rate for Monument AGI System

Dear Mr. Catanach:

Enclosed, please find five hard bound copies and one electronic copy (on a thumb drive) of the above-referenced application filed on behalf of Targa Midstream Services LLC.

As discussed in my meeting regarding this application with Mr. Phillip Goetze a couple of weeks ago and subsequent emails and conversations, we are submitting this request to modify the injection rate limitation imposed on Targa by R-13052A and carried forward in SWD-1654 and SWD-1671. This request is due to changing inlet concentrations of CO<sub>2</sub> and additional wells being brought online. Targa is not requesting any changes in the approved injection zone or MAOP already approved under Order R-13052 and SWD-1654 and SWD-1671.

We initially made this request to Mr. Goetze to be processed administratively; however, he informed us that you and NMOCD legal determined it would be preferable to bring it to the Commission for review and approval.

Pursuant to Mr. Goetze's request we will individually notice all affected parties in the area of review and will send those individual notices when the hearing date is set. Copies of the notice letters, certified mail receipts will be provided as exhibits to the Commission at the hearing. We would respectfully request a hearing date be set as soon as possible as there are wells shut in that cannot be brought online until this application is approved.

Please call me or James Hunter at 505-842-8000 if you have any questions or require further information.

Sincerely, Geolex, inc

Alberro A. Curterrez, RG

President

Consultant to Targa Midstream Services LLC

via email w/encl

Clark White,

James Lingnau, via email w/encl

Phillip Goetze, via email w/encl. NMOCD, Engineering Bureau

Targa Midstream Services LLC, Houston

Targa Midstream Services LLC, Monument

Projects/17-012/correspondence/catanach001 ltr.docx

phone: 505-842-8000 fax: 505-842-7380

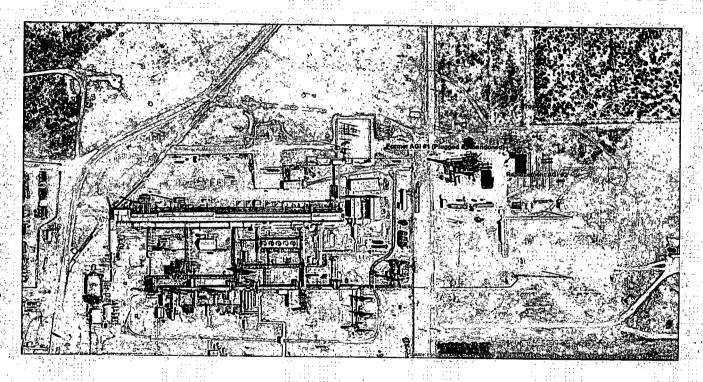
500 Marquette Avenue NW, Suite 1350 Albuquerque, New Mexico 87102

email: aag@geolex.com web: www.geolex.com





# APPLICATION TO THE NMOCC FOR AN AMENDMENT TO ORDERS R-13052, R-13052-A, SWD-1654 AND SWD-1671 TO INCREASE THE APPROVED AGGREGATE DAILY INJECTION RATE FOR TARGA MONUMENT AGI SYSTEM FROM 2.5 TO 5.0 MMSCFD



May 25, 2017

Prepared For:

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

Prepared By:

Geolex, Inc. 500 Marquette Avenue, NW #1350 Albuquerque, New Mexico 87102 (505)-842-8000 Submitted By:

Targa Midstream Services LLC 1000 Louisiana, Suite 4300 Houston, Texas 77022-5032

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### **Attachments**

Attachment A: Completion and Recompletion Records, J. R. Phillips 005 (3002504134)

Attachment B: Plugging and Recompletion Records, North Monument G/Sa Unit 286 (3002520517)

Geolex, Inc. 5/25/2017

APPLICATION TO THE NMOCC FOR AN AMENDMENT TO ORDERS R-13052, R-13052-A, SWD-1654 AND SWD-1671 TO INCREASE THE APPROVED AGGREGATE DAILY INJECTION RATE FOR TARGA MONUMENT AGI SYSTEM FROM 2.5 TO 5.0 MMSCFD

#### 1.0 BACKGROUND AND REGULATORY HISTORY

On November 18, 2008 the New Mexico Oil Conservation Division (NMOCD) approved the application (Case No. 14161) submitted by Targa Resources Midstream, Ltd. (Targa) to drill and operate an acid gas injection (AGI) well at Targa's Monument natural gas processing plant in Lea County, New Mexico (NMOCC Order R-13052). The Order allowed Targa to inject into the Devonian and Fusselman zones at depths from 8,350 to 9,200 feet, with a maximum allowable operation pressure (MAOP) of 1,660 psig for combined treated acid gases (TAG) and wastewater with no limits on either TAG or wastewater injection rates.

On November 7, 2011 the NMOCC reopened Order R-13052 and in an amended Order (R-13052-A) placed a limit on injection rates to cap the daily total injectate volume at 5,000 barrels per day, with no more than 1,400 barrels to be TAG. Depending on actual wellhead pressures and temperatures, the amount of 1,400 barrels of TAG closely corresponds to approximately 2.5 to 2.7 MMSCFD.

The approved well, Monument AGI #1 (3002540002) began injection in December of 2011 and was operated until August of 2016, when mechanical problems forced the plugging and abandonment of the well.

On October 19, 2016 Targa submitted an application to NMOCD for an administrative authorization to replace Monument AGI #1 with a new dry (TAG only) AGI well (Monument AGI #D2; 3002543470), to be completed adjacent to the former well in the same zone and essentially identical depths. This application was administratively approved as Order SWD-1654 on November 10, 2016. This Order provides an MAOP of 3,000 psig (TAG only), and limited the total injection rate to 2.5 MMSCFD. At this rate of injection, the 30-year radius of influence was calculated to be 0.33 miles.

The well-was spudded on November 23, 2016 and after completion and testing was placed into operation on March 23, 2017. The well is now in normal service. In the first quarter of 2017, the average injection rate was 1.54 MMSCFD, at an average pressure of 1,989 psig.

On December 9, 2016 Targa submitted an application (C-108) to the NMOCD requesting administrative approval for an additional, redundant well, Targa Monument AGI #3. The Targa Monument AGI #3 well would be drilled at a surface location approximately 200 feet north of AGI #2D, and will be completed in the same Devonian and Fusselman zones (Figure 1). This application was approved on April 24, 2017 in NMOCD Administrative Order SWD-1671. Again, the maximum injection rate for TAG only was set at 2.5 MMSCFD.

#### 2.0 REQUEST FOR ORDER MODIFICATION

Since the replacement well AGI #2D was placed into operation there have been significant increases in CO<sub>2</sub> in the natural gas processed by the Monument gas plant, as well as additional wells added to the inlet feed which will result in a daily amount of TAG up to 5.0 MMSCFD in the very near future. Targa has calculated the impacts of the proposed increase in injection rates, including both the active AGI #D2 and the proposed AGI #3, and has determined that:

- 1. The radii of the injected areas of 5.0 MMSCFD will only grow to 0.47 miles, versus the plume radius of 0.33 miles calculated for the original rate of 2.5 MMSCFD.
- 2. These calculated radii are shown for AGI #D2 (Figure 2) and proposed AGI #3 (Figure 2).
- 3. Table 1 lists all 10 reported wells penetrating the injection zone within one mile of the project. These wells were identified in the applications for AGI #D2 and AGI #3.
- 4. The applications for AGI #D2 and AGI #3 identified 10 wells within a one-mile radius of the new well that penetrated the injection zone (Table 1). The conditions of these wells were documented and discussed in the AGI #D2 and AGI #3 applications, and Orders SWD-1654 and SWD-1671were approved in part on the bases of these evaluations. No additional wells inside the one-mile circle have been identified in an updated database search.
- 5. With respect to AGI #D2, only 3 of these wells (the original AGI #1, State Gas Com 005, and North Monument G/SA Unit 032) were within the 0.33 mile radius of the original calculated TAG plume (2.5 MMSCFD for 30 years). The proposed expansion of the plume to 0.47 miles (5.0 MMSCFD for 30 years) will only encompass one additional well, J.R. Phillips 005 (Figure 2 Table 1).
- 6. The J.R. Phillips 005 well was spudded in 1947 and produced oil and gas from the Simpson Sand (9,610' to 9,870'). It was recompleted as an Abo gas well in 1998 by back plugging with a CIBP at 7,785' and perforations from 6,968' to 7,145'. A review of well records (Attachment A) indicates that the original 9,941' 5 ½" production casing in the 7 ¾" borehole was cemented with 1500 sacks. The Halliburton Redbook indicates this geometry would yield an annular volume of 6.15 feet per cubic foot of cement. This would represent approximately 9,225 feet of filled annulus at only 1.0 cubic feet per sack. Clearly, the production casing was cemented to or very close to the surface, and safely protects the zones below the CIBP.
- 7. Considering the not-yet-drilled AGI #3, the proposed expanded plume of 0.47 miles only includes one additional well, North Monument G/SA Unit 286 (Figure 3; Table 1). The Unit 286 well was a dry hole, and was plugged and abandoned in March 1963. The well was re-entered in August of 1995 to a depth of 3,760 feet as a potential Eunice-Monument zone. The well was not recompleted, and is currently in Temporary Abandoned status. The last MIT was performed in April 2008. Relevant well records are provided as Attachment B.
- 8. As detailed in Table 1, all of these wells are properly completed and/or plugged and abandoned, and do not pose a hazard for migration of the injected TAG into any other zones.

Targa respectfully requests that Orders R-13052-A, SWD-1654 and SWD-1671 be amended to increase the total maximum injection rate (combined rate of both or either well) from 2.5 to 5.0 MMSCFD. Targa does not request any increase in the current MAOP of 3,000 psig, and will continue to comply with all other conditions of these Orders.

Geolex, Inc. 5/25/2017

#### 3.0 IDENTIFICATION OF INTERESTED PARTIES IN AREA OF REVIEW

Geolex has reviewed the land status and operators within one-half mile of the currently operating AGI #D2 and the permitted, yet-to-be drilled AGI #3, and two of the three operators identified in the original Order (Apache Corporation and XTO) remain on the list of operators of record. Three additional operators/lease holders, however, are located within the one-half mile radius of the wells. They are Lea Co. New Mexico Exploration and Production, LLC; Jack Huff Energy and Targa Midstream Services, LLC. There are only two operators within the one-half mile radius with wells penetrating the injection zone (Targa and Apache).

Surface owners within the area of review were also identified in Appendix B of the C-108 applications for both wells. These surface owners are identified in Table 2.

All interested parties will be individually noticed when a hearing date is set pursuant to NMOCC requirements.

**TABLES** 

TABLE 1: Wells Penetrating Injection Zone within One Mile of the Active Targa AGI #D2 and

Proposed Monument AGI #3

API	OPERATOR	DEPTH	WELLNAME	STATUS	Notes
3002540002	TARGA RESOURCES	9200	MONUMENT AGI #1	Plugged	Pumped cmt 3,500' to surface.
3002512473	APACHE CORP	10255	STATE F GAS COM 005	Active	Plugged back to Eumont/Seven Rivers at 3,400' (in 5 1/2" casing) 9/11/96. CIBP's w/cmt @ 7,800', 6,850', 5,640', 3,420'.
3002512478	APACHE CORP	9822	NORTH MONUMENT G/SA UNIT 032	Plugged	CIBP w/cmt @ 9,475'; squeezed cmt plugs @ 7,590', 7,160', 5,710'' CIBP w/cmt @ 4,500'; Spot cmt @ 2,900', 2,345', 1,330', 367 to surface.
3002512481	APACHE CORP	10100	NORTH MONUMENT G/SA UNIT 285	Active	Plugged & abandoned 3/5/59. Spot cmt @ 9,900', 9,755', 6,305', and 5,655' 3,780'. Reentered and recompleted 3,930' in Eunice Monument 2/14/96; Re-entered and attempted to re-plugged deeper zones per NMOCD Order R-13052 2/2011. Unsuccessful, released rig May 2011. Well returned to production 7/15/11. Requirement to re-plug well rescinded per Order R-13052 (Reopened) 11/17/2011.
3002520517	APACHE CORP	9900	NORTH MONUMENT G/SA UNIT 286	TA	Dry hole; P&A w/spot plugs @ 10,080', 9,790', 9068', 8,180', 7,865', 6,770', 6,205', 5,642', 5,075', 3/750', 1,450' to surface, 12/28/62. Re-entered 6/7/95 cleaned to 3,760' (Eunice Monument). Not perforated. Status Temporary Abandoned.
3002505780	ATLANTIC RICHFIELD	9900	J R PHILLIPS A 008	Plugged	CIBP w/cmt @ 9,475'; squeezed cmt plugs @ 7,652', 5,742', 4,897, 3,442', 2,097', 880', 81' to surface.
3002523632	ARCO PERMIAN	9650	J R PHILLIPS A 009	Plugged	CIBP's w/cmt @ 9435', 6,620', 6,186', 5,655', 5,255',5,069'; Cmt plugs @ 3,645', 1,1125', 610', Surface.
3002504134	APACHE CORP	9953	J R PHILLIPS 005	Active	Recompleted 7/12/98; CIBP at 7,785', perforated 6,965' to 7,685'.
3002504136	APACHE CORP	10214	J R PHILLIPS 007	Active	Temp. abandoned 8/6/92, CIBP's w/cmt @ 9,700', 6,700', 6,275', 5,590'. Recompleted in Paddock 5,264' to 5,530' 3/2010
3002505964	CHEVRON U S A INC	9814	J R PHILLIPS 011	Active	Producing in McKee-Ellenburger 9,490' to 9,800'.

Wells highlighted are within the 0.47 mile radius of the proposed 5.0 MMSCFD rate increase which were not within the 0.33 mile radius of the original rate limitation of 2.5 MMSCFD.

Note: The cement and completion status of all of these wells was reviewed in the C-108 applications, resulting in NMOCD Orders SWD-1654 and SWD 1671.

Table 2: Surface Owners Within One Half Mile of Targa Monument AGI System

Surface Owner	Legal Legal	Acres
State of New Mexico	T19S-R36E	ACIES
New Mexico State Land Office	Section 25: SE/4, E/2SW/4	240.00
310 Old Santa Fe Trail	Section 25. SE/4, E/25 W/4	240.00
d to the contract of the contr	Section 26, NW/A S/2NE/A N/2SE/A	260.00
Santa Fe, NM 87501	Section 36: NW/4, S/2NE/4, N/2SE/4,	360.00
	N/2N/2SW/4	
	TOO DOO	*
	T20S-R36E	4 - 4 - 4
	Section 1: Pt. W/2NE/4, Pt. NW/4, SW/4, Pt. SE/4	463.65
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DLD Corporation &	T19S-R36E	
Any Successors-in		* , · · · ·
Interest/Assignees	Section 36: S/2N/2SW/4	
1314 Brittany	Parcel #: 4000428830001	40.00
Hobbs, NM 88240		•
. 15		
Versado Gas Processors, LLC	T19S-R36E	4 - 5
1900 Dalrock Rd.	Section 36: S/2SW/4, SW/4SE/4	120.00
Rowlett, TX 75088	Parcel #: 4000423510003	
		:,
•	T20S-R36E	•
	Section 1: Pt. N/2NE/4NW/4	18.13
	Parcel #: 4000423510004	10,12,
	1 41001 11. 1000 123310004	
Chevron USA, Inc.	T19S-R36E	
P.O. Box 285	Section 36: SE/4SE/4	40.00
Houston, TX 77001	Parcel #: 4000409030001	70.00
(Tiouston, TX 7.7001	1 arcer #. 4000409030001	
Charlie F. Byrd, et al	T10C D27F	9
P.O. Box 32	T19S-R37E Section 31: W/2, W/2NE/4, Pt. E/2NE/4	160 44
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Monument, NM 88265	raicci#. 4000402920004	
	T20C D27E	
	T20S-R37E	160.50
,	Section 6: Lots 3 – 5, SE/4NW/4	157.77
	Parcel #: 4000402920002	4 4 4 1 1 4 1 4 1 4 1 1 1 1 1 1 1 1 1 1
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James R. Byrd		
P.O. Box 32	T20S-R36E	
Monument, NM 88265	Section 1: Pt. NE/4	33.93
	Parcel #: 4000792560001	
Juan Carlos Martinez	T20S-R36E	
210 W. Chance Dr.	Section 1: Pt. NW/4	9.56
Hobbs, NM 88242	Parcel #: 4000407150001	

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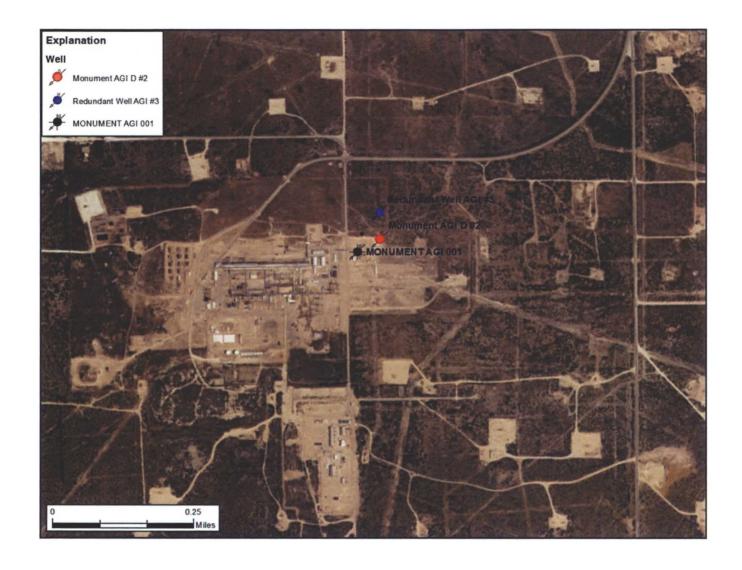


Figure 1: Locations of AGI Wells at Targa Monument Natural Gas Plant

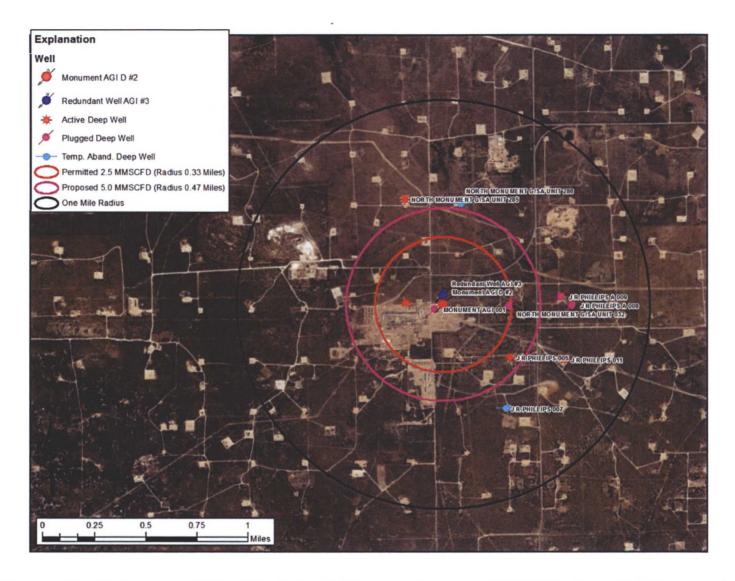


Figure 2: Calculated Radii of TAG Plume From AGI #D2 after 30 Years of Injection at 2.5 MMSCFD (0.33 Miles) and 5.0 MMSCFD (0.47Miles)

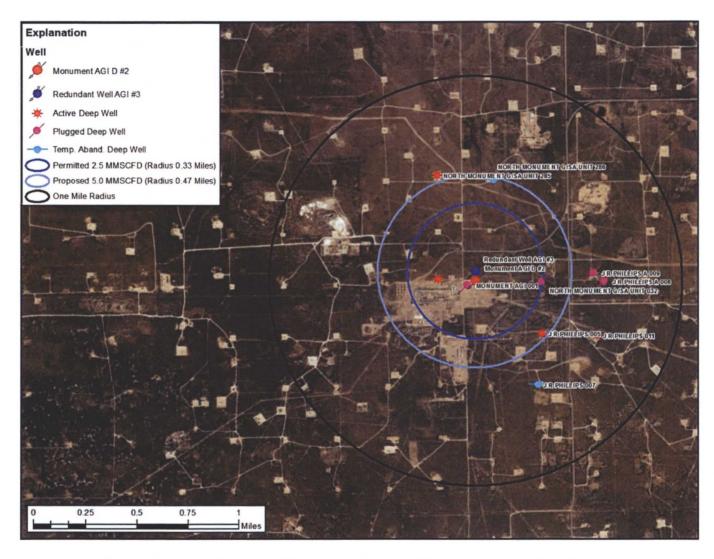


Figure 3: Calculated Radii of TAG Plume From AGI #3 after 30 Years of Injection at 2.5 MMSCFD (0.33 Miles) and 5.0 MMSCFD (0.47 Miles)

## ATTACHMENT A

COMPLETION AND RECOMPLETION RECORDS, J. R. PHILLIPS OO5 (API 3002504134)

# NEW .. LEXICO OIL CONSERVATION COMN \_\_SION Santa Fe, New Mexico

EQUEST FOR (OIL) - (GAS) ALLOWABLE

Recompletion

This form shall be submitted by the operator before an initial allowable will be assigned to any completed Oil or Gas well. From 1904 at to be submitted in QUADRUPLICATE to the same District Office to which Form C-101 was sent. The allowable will be assigned effective 7:00 A.M. on date of completion or recompletion, provided this form is filed during calendar month of completion or recompletion. The completion date shall be that date in the case of an oil well when oil is delivered into the stock tanks. Gas must be reported on 15.025 psia at 60° Fahrenheit.

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Submit to Appropriate

# State of New Mexico

Form C-105

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11.3/4"	60#	2419		15"	1011	-		ran in		-		1 in 194	
8.5/8"	12#	5121		10-5		-		ran in		-	***************************************	1 in 194	-
5-1/2"	17#	9941'		7-3/4	4	_	CSQ.	ran in	-	-	wei	1 in 194	1.
24.		JINER RECO	BD				25.	TII	BING R	FCORI	0		_
SIZE	TOP	BOTTOM	SACKS CE	MENT	SCRE	EN	143.	SIZE	1	THISET		PACKER	SET
							2.	7/8"	7443				
26. Perforation record	d (interval, size, and	number)						FRACTUR	E, CEM	ENT.	SOE	EZE, ETO	2.
Perf. 5-1/2" cs	a usina 4" Hea	is csa. aun	w/4 SPF a	t		INI	ERVAL				MAT	ERIAL USE	D
following: 696					7785 · 6968 · ·	7605			1/2" CI		221	154 UCI	
7000'-7060', 70		CONTINUED O			5150'.				100 ck			15% HCL	-
28.			PRODUC		V			- I - Tanquett	100 50	3 44 5	311.111	a prins	
Date First Production		Method (Flowing			Size and ty	pe pu	mp)					r Shut-in)	
6-9-98		25-125-R			O'I DII		C 1/	OF W		ducing		il Ratio	
Date of Test 7-19-98	Hours Tested 24 Hours		Prod'n Fo	od 2	Oil - Bb1. 26	1	Gas - M 191	73	er - Bbl.	7:	346		
Flow Tubing Press. 280	Casing Pressure 20	Calculated 24- Hour Rate	Oil - Bbl.		Gas - MO	CF.	Wat	er - Bbl.	Oil Gr	avity - A	API -(	Corr.)	
29. Disposition of Gas (	Sold, used for fuel, ve	ented, etc.)						Test	Vitnessed E	Зу			
Sold													
30. List Attachments	104												
C · 103 C		m on both -/-	of this form !			4 - 1	- back of						
31. I bereby certify that			or this form is	s true an	ia compiete	to the	e best of	my knowledg	e and belie	:1			
110	On L. S.	1	Printed	R 1	Wheele	r 1	r	. Admin	SVC	Coord	-	7.23.9	R

## **INSTRUCTIONS**

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

# INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE Southeastern New Mexico Northeastern New Mexico

T Anhy Please ref T Salt original we B Salt completion T Yales T 7-Rivers T Queen T Grayburg T San Andres T Glorieta T Paddock T Blinebry T Tubb T Drinkard T Abo T Wolfcamp	T. Strawn  T. Atoka  T. Miss  T. Devonian  T. Silurian  T. Montoya  T. Simpson  T. McKee  T. Ellenburger  T. Gr. Wash  T. Delaware Sand  T. Bone Springs  T.  T.	T. Kirtl. T. Pictu T. Cliff T. Mene T. Point T. Mane T. Gallu Base Gn T. Dake T. Morr T. Todil T. T. Cliff T. Cliff T. Cliff T. Cliff	and-Fruired Cliffi House_ fee Lookov os peenhom ta too da e e	The state of the s	T. Penr T. Penr T. Lead T. Mad T. Elbe T. McC T. Igna T. Grar T. T. T. T. T.	cio Orzte
T PennT Cisco (Bough C)		T. Perm T. Penn		FAR-1: COLOR CAS.	The same	og <sub>ser</sub> en generalistic versione en de la company de la
T. C.S.O. (DOGB.!! C)	OIL OR GAS SA		S at mount	Contracting of the second section	, = <del>1</del>	
No. 2, from Include data on rate of water No. 1, from No. 2, from No. 3 from	inflow and elevation to which water relation to	No. 4 VATER SA Ose in hole	from ANDS	feetfeet		
From To Thickness		From	To	Thickness in Feet	the management of the second	Lithology
	Please refer original well completion:  26. Perforations Cont. 7155':7260', 7335'-7345', 7370'-7380', 7440'-7455', 7475'-7515', 7540'-7560', 7590'-7600', & 7650'-7685'.	A consider a consistent of the constant of the				

Submit 3 Copies to Appropriate

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

Form C-103 Revised 1-1-89

DISTRICT OIL CONSER		
P.O. Box 1980, Hobbs NM 88241-1980	VATION DIVISION	WELL API NO.
DISTRICT II	D Pacheco St. ta Fe, NM 87505	30-025-04134  5. Indicate Type of Lease
1.0. 514771 55, 7110314, 1711 00210	1411 01303	STATE FEE X
DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410		6. State Oil & Gas Lease No.
SUNDRY NOTICES AND REPORTS	ON WELLS	
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR T DIFFERENT RESERVOIR. USE "APPLICATION (FORM C-101) FOR SUCH PROPOSE	ON FOR PERMIT"	7. Lease Name or Unit Agreement Name
1. Type of Well: OIL GAS WELL OTHE	ER	J. R. Phillips
2. Name of Operator		8. Well No.
Amerada Hess Corporation 3. Address of Operator		9. Pool name or Wildcat
P. O. Box 840, Seminole, Texas 79360		Monument Abo
4. Well Location Unit Letter A: 660 Feet From The	North Line and 68	60 Feet From The East Line
Section 1 Township 20	S Range 36E	NMPM Lea County
	Show whether DF, RKB, RT, GR, et	
Charles Assessed Boundary	3587' DF	Parant an Other Pate
Check Appropriate Box to I NOTICE OF INTENTION TO:		-
NOTICE OF INTENTION TO:	301	SSEQUENT REPORT OF:
RFORM REMEDIAL WORK PLUG AND ABAND	ON REMEDIAL WORK	ALTERING CASING
EMPORARILY ABANDON CHANGE PLANS	COMMENCE DRILLING	OPNS. PLUG AND ABANDONMENT
JLL OR ALTER CASING		THE ION
	LCASING TEST AND CE	-MENI JOB L
	CASING TEST AND CE	
THER:	OTHER: Recom	pletion.
THER:	other: Recomportinent details, and give pertinent details, and give pertinent data ved wellhead, installed BC H w/5-1/2" CIBP set at 778 I. Held OK. Schlumberger using 4" Hegs csg. gun w/9' - 6982', 6989' - 6992', 7370' - 7380', 7440' - 7685'. American Fracmast 600 gal. 15% HCL acid. Sw	opletion.  OP & TOH w/tbg. & pkr.  OF & TOH w/tbg. & pkr.  OF & TOH w/tbg. & csg.  Tran VSI/CCL/GR log.  '4 SPF. total 1569 shots.  7000' - 7060',  7455', 7475' - 7515'.  Ser acidized Abo Zone  vabbed & flowed well.
2. Describe Proposed or Completed Operations (Clearly state all pwork) SEE RULE 1103.  6-1 thru 7-12-98  MIRU Dawson Prod. Svc. pulling Unit. Remo TIH w/4.34" gauge ring to 7830' & TOH. TI w/KCL water & press. tested csg. to 500 PS Schlumberger perf. 5-1/2" csg. in Abo Zone at following intervals: 6968 - 6971', 697' 7070' - 7145', 7155' - 7260', 7335' - 7345 7540' - 7560', 7590' - 7600' & fr. 7650' - 5-1/2" csg. perfs. fr. 6968' - 7685' w/19, GPM connected gas Meter No. 711202 & began thereby certify that the information above is tope and complete to the best of IGNATURE	orher: Recomportinent details, and give pertinent details, and give pertinent data ved wellhead, installed BCH w/5-1/2" CIBP set at 778 I. Held OK. Schlumberger using 4" Hegs csg. gun w/9' - 6982', 6989' - 6992', 7370' - 7380', 7440' - 7685'. American Fracmast 600 gal. 15% HCL acid. Sw taking gas on 6-12-98.	OP & TOH w/tbg. & pkr. 185'. Circ. tbg. & csg. 1 ran VSI/CCL/GR log. 14 SPF. total 1569 shots. 17000' - 7060', 17455'. 7475' - 7515'. 18er acidized Abo Zone 18abbed & flowed well. 18 CONTINUED OVER
2. Describe Proposed or Completed Operations (Clearly state all pwork) SEE RULE 1103.  6-1 thru 7-12-98  MIRU Dawson Prod. Svc. pulling Unit. Remo TIH w/4.34" gauge ring to 7830' & TOH. TI w/KCL water & press. tested csg. to 500 PS Schlumberger perf. 5-1/2" csg. in Abo Zone at following intervals: 6968 - 6971', 697' 7070' - 7145', 7155' - 7260', 7335' - 7345 7540' - 7560', 7590' - 7600' & fr. 7650' - 5-1/2" csg. perfs. fr. 6968' - 7685' w/19, GPM connected gas Meter No. 711202 & began	other: Recomportinent details, and give pertinent details, and give pertinent data ved wellhead, installed BC H w/5-1/2" CIBP set at 778 I. Held OK. Schlumberger using 4" Hegs csg. gun w/9' - 6982', 6989' - 6992', 7370' - 7380', 7440' - 7685'. American Fracmast 600 gal. 15% HCL acid. Sw taking gas on 6-12-98.	pletion.  OP & TOH w/tbg. & pkr.  185'. Circ. tbg. & csg.  Tran VSI/CCL/GR log.  14 SPF. total 1569 shots.  7000' - 7060'.  7455'. 7475' - 7515'.  Ler acidized Abo Zone  Wabbed & flowed well.  CONTINUED OVER
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TIH w/TAC on 2-7/8" tbg. & set tbg. OE at 7747'. Swabbed well. TIH w/pump & rods. could not get below 6888'. TOH w/rods, pump, & tbg. TIH w/4-3/4" csg. swedge to 7785' & TOH. TIH w/pkr. testing at intervals & located csg. leak between 5159' - 5191'. TIH w/5-1/2" Md. "G" Baker RBP set at 6325'. Spotted 2 sks. sand on top RBP. TIH w/5-1/2" cement retainer set at 5061'. Halliburton Svc. pumped 100 sks. premium plus neat cement. WOC. TIH w/4-3/4" bit, tagged TOC at 5056' & drld. cement. retainer fr. 5061' - 5063' & cement out at 5207': Girc. well clean. TIH, circ. sand off RBP at 6325', latched onto & TOH w/RBP. TIH w/5-1/2" Baker TAC on 2-7/8" tbg. & set tbg. at 7443' w/TAC at 6912'. Removed BOP & installed wellhead. TIH w/pump & rods. RDPU & cleaned location. Set pumping unit & motor. Connected electrical svc. & began pumping well on 7-12-98.

Test of 7-19-98: Produced 26 B.O./D., 73 B.W./D., & 191 MCFGPD in 24 hours.

## ATTACHMENT B

PLUGGING AND RECOMPLETION RECORDS, NORTH MONUMENT G/SA UNIT 286 (3002520517)

SANTA FIRE U.S.G.S. LAND OFFICE	on on		,		. •	VATION C	OMMISSION		DRM C-107
PHORATION OFFI	GAB ICE				•		mission Rule	1106)	•
Name of Comp	BOY		<del></del>	Addres	s	11.7	<u> </u>	5 .	
Amered	a Petrolem		· · · · · · · · · · · · · · · · ·				Hobbs, Ke		D
Lease		\\	eil No.	Unit Letter	Section 36	1 -	9-3	Range	
State Mork Per		Pool				County			
		THIS IS A	REPORT	OF: (Check	7000000	ite block	<del> </del>		<del> </del>
Beginnic	g Drilling Operation	<del></del>		Cement Job		Other (E	xplain):		<del></del>
Plugging	· · · · · · · · · · · · · · · · · · ·	Reme	edial Work						
Section of the section	<u>. ( - / - /</u>	nature and quantity of	materials u	ised, and res	ults obte	ined.	· · · · · ·	· · · · · · · · · · · · · · · · · · ·	
		ve on well head handomed 3-1-6		to hold (	or no	gaible A	iture use 's	NR A	r
Well To		bandoned 3-1-63		to hold i	or po	šaible f	iture use a	98 <b>a</b>	
Well To	emporarily al ater dispessi	bandoned 3-1-63	Position		for po	Company	,		
Well To	emporarily al ater dispessi	bendomed 3-1-6	Position			Company Amerada	Petroleum		<b>Vien</b>
Well To salt w	emporarily al ater dispesal	bendoned 3-1-6; well.	Position Perem OW FOR R ORIGINAL	MEDIAL W	ORK R	Company Amerada EPORTS Of	Petroleum	Cerpare	Salah Salah Salah Salah Sa
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Well To salt with white work over workover	emperarily alater dispessal  Wiseman  T D  terval(s)  terval  Date of Test	FILL IN BELO  Tubing Depth  Oil Production BPD	Position Perem OW FOR R ORIGIN PBTD  RESULT  Gas P	Production CFPD  I her to th	ing Form  KOVER  Water  eby certie best of	Company Anareda EPORTS Of Producing eter nation(s)  Production BPD	Petroleum  VLY  Interval  Oil String  GOR  Cubic feet/R	Complete g Depth	ion Date  Well Potent MCFPD
Witnessed by  I. W.  D F Elev.  Tubing Diame  Perforated Int  Open Hole Int  Test  Before Workover  After Workover	emperarily alater dispessal  Wiseman  T D  terval(s)  terval  Date of Test	FILL IN BELO  Tubing Depth  Oil Production BPD	Position Perem OW FOR R ORIGIN PBTD  RESULT	Production CFPD  I her to th  Name	ing Form  KOVER  Water  eby certie best of	Company Anareda EPORTS Of Producing eter nation(s)  Production BPD	Petroleum  VLY  Interval  Oil String  GOR  Cubic feet/R  Iformation gives  ge.	Complete g Depth	ion Date  Well Potent MCFPD

Submit 3 Copies
to Appropriate
District Office

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

Form C-103 Revised 1-1-89

P.O. Box 1980, Hobbs NM 88241-1980 P.O. Box 2088	WELL API NO.
DISTRICT II Santa Fe. New Mexico 87504-2088	30-025-20517 5. Indicate Type of Lease
P.O. Drawer DD, Artesia, NM 88210	STATE X FEE
DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410	6. State Oil & Gas Lease No. B-1626
SUNDRY NOTICES AND REPORTS ON WELLS	
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	7. Lease Name or Unit Agreement Name
I. Type of Well: OIL GAS WELL OTHER P & A'd	STATE "V"
2. Name of Operator	8. Well No.
Amerada Hess Corporation	5
3. Address of Operator P. O. Drawer D. Monument, NM 88265 4. Well Location	9. Pool name or Wildcat EUNICE MONUMENT GB/SA
Unit Letter G: 1980 Feet From The NORTH Line and	1830 Feet From The EAST Line
Section 36 Township 19S Range 36E	E NMPM LEA County
10. Elevation (Subw whether DF, RRB, R	1, GR, etc.)
Check Appropriate Box to Indicate Nature of	Notice, Report, or Other Data
NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK PLUG AND ABANDON REMEDIAL V	NORK ALTERING CASING
TEMPORARILY ABANDON	DRILLING OPNS. DPLUG AND ABANDONMENT
CASING TES	ST AND CEMENT JOB
OTHER: ST	tatus chg. fr. PA'd to TA'd.
12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pwork). SEE RULE 1103.	ertinent dates, including estimated date of starting any proposed
AHC State "V" #5 (08-07-95 Thru 08-11-95)	
Tyler Well Service RUPU. Halliburton Svc. tapped the Recorded the press. at 600 psi. Bled the press. off BOP on 10" surf. csg. flange. Ran bit on drill collaboration for a surficted 150.	to reverse pit in 1 min. Install lars & drilled solid cmt. fr. the total of 8 drill collars. Ran tbg. out plug to 722'. Drid. & cleaned
& tagged up at 722'. Circ. clean. Star Tool drld. out 7-5/8" prod. csg. to 3,136'. Recovered heavy much out & circ. 7-5/8" csg. clean fr. 3,136'-3,688'. Recovered heavy much a circ. 7-5/8" csg. clean fr. 3,136'-3,688'. Recovered heavy much point & circ. 7-5/8" csg. clean fr. 3,136'-3,688'. Recovered heavy much point & circ. Star PAL fr. 3,670' to surf. Csg. good. Ran cmt. bot TOC at 1,750'. Have free pipe fr. there to surf. No	covered heavy mud. Tst'd csg. to ollars and bit. Schlumberger RU & nd log fr. 3,670' to surf. Found
& tagged up at 722'. Circ. clean. Star Tool drld. out 7-5/8" prod. csg. to 3,136'. Recovered heavy much out & circ. 7-5/8" csg. clean fr. 3,136'-3,688'. Recovered heavy much a circ. 7-5/8" csg. clean fr. 3,136'-3,688'. Recovered heavy much companies and the start of the start o	covered heavy mud. Tst'd csg. to ollars and bit. Schlumberger RU & nd log fr. 3,670' to surf. Found ote: Well passed the csg. integrity ontinued On Back)
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AHC State "V" #5 - Continued - Page 2

test. Schlumberger shot 4 holes in 7-5/8" prod. csg. at 1,510'. Ran Baker loc-set pkr. & set at 1,384'. Star Tool circ. 100 bls. fresh water through 7-5/8" csg. perfs. & out 10-3/4" surf. csg. at 4 BPM & 200 psi. TOH w/tbg. & pkr. Ran cmt. retainer on tbg. Pumped through tool w/10 bbls. fresh water & set at 1,450'. Halliburton pressured up on the csg. to 500 psi. Established rate into the perfs. at 3 BPM at 200 psi. Pumped 400 sacks of Premium Plus cmt. w/2% Calcium Chloride. Circ. out 10-3/4" surf. csg., pumped 4 sks. to pit, left 4 sks. on top of the retainer, left 12 sks. below the retainer & 380 sks. in the formation & between the 7-5/8" & 10-3/4" csg. Stung out of the retainer & reversed out. TOH w/the tbg. Removed the BOP & capped the wellhead. Cleaned location and RD & moved out pulling unit. TA'd well. Well donated to unit as NMGSAU Well No. 1423. NMOCD Well No. 286. Well TA'd for future use in North Monument Grayburg San Andres Unit.

Submit 3 Copies To Appropriate District Office		f New Mexico		Form C-103
District 1 1625 N. French Dr., Hobbs, NM 88240	Energy, Mineral	ls and Natural Resource	WELL API N	May 27, 2004 O.
District II 1301 W. Grand Ave , Artesia, NM 88210	OIL CONSER	RVATION DIVISION	5 Indiana To	30-025-20517
District III 1000 Rio Brazos Rd., Aztec, NM 87410		th St. Francis Dr.	5. Indicate Ty STATE	
District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505	Santa 1	Fe, NM 87505	6. State Oil & BO-1626	Gas Lease No.
		EPEN OR PLUG BACK TO A	7. Lease Nam North Monum Well 23	ne or Unit Agreement Name nent G/SA Unit: Blk 14
	Gas Well 🗌 Other		8. Well Numb	per 286 /
2. Name of Operator Apache Corpo	oration	<b>t</b>	9. OGRID N	umber 00873
3. Address of Operator 6120 S Ya	le Ave, Suite 1500 74136-4224		10. Pool name	e or Wildcat ument, Grayburg-San Andres
4. Well Location		<del></del>	Eunice Won	inicit, Grayourg-San Andres
				from the East line
Section 36	Township 1		NMPM	CountyLea
THE RESERVE THE PROPERTY OF TH	3603' DF	wnetner DR, RKB, RT, Gl	k, etc.)	
Pit or Below-grade Tank Application on Pit type Depth to Groundwa	· · · · · · · · · · · · · · · · · · ·			
Pit type Depth to Groundwa	Below-Grade Tank: \	nearest fresh water well	Distance from nearest  Is; Construction Materia	
and the second s	*	Indicate Nature of No		**
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NOTICE OF IN PERFORM REMEDIAL WORK ☐ TEMPORARILY ABANDON ☐	PLUG AND ABANDO CHANGE PLANS	N   REMEDIAL	SUBSEQUENT F WORK E DRILLING OPNS.	ALTERING CASING
PULL OR ALTER CASING	MULTIPLE COMPL	a Programme and a contract of the contract of	EMENT JOB	j
OTHER:		☐ OTHER:Rec	quest extension to TA	status (XX)
13. Describe proposed or comploin of starting any proposed wo				dates, including estimated date agram of proposed completion
or recompletion.	<b>,</b>		PROPERT	Maria Maria
Notified OCD of MIT. Successfully	ran MIT 3/25/2008.	See attached chart.	MEGEN	
Apache respectfully requests to exte	nd TA status on this we	ell.	APR 1 1 200	8
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•				
of Tempora	ry 1/1/2013			
This Approval of Tempora Abandonment Expires —	4/16/			
				· ,
A Company of the Comp				
I hereby certify that the information a grade tank has been/will be constructed or	bove is true and completed according to NMOC	lete to the best of my known begundelines , a general per	wledge and belief. I fu mit  or an (attached) al	rther certify that any pit or below- ternative OCD-approved plan .
SIGNATURE Sophie	Mackay	TITLE Engineering Tec	<u>h</u>	DATE 04/04/2008
Type or print name Sophie Mackay For State Use Only	7	E-mail address; sophie.	mackay@apachecorp.o	Complephone No. (918)491-4864
NI-1	ili. oco	ESTRICT SUPERVISORY	SENFRAL MANIA	APR 16 2008
APPROVED BY:(Miss): Conditions of Approval (if any):	Musma	_IIILE	- TENT WAKY COS	DATE