State of New Mexico

Form C-101 Revised July 18, 2013

Energy Minerals and Natural Resources

Oil Conservation Division

□AMENDED REPORT

1220 South St. Francis Dr.

Santa Fe, NM 87505

vavajo Rein 01 E. Main		mpany, L	L.C.	ind Address	. •		OGRID Num 15694	٠	
rtesia NM	88210		,			30-015	-42	872	
* Property	Code	3139	26	Property Name Vaste Dispos				Well No.	
		22 / 3	Ψ	7 Surface Lo			Y?		
UL - Lot	Section 28	Township 17S	Range 27E	Lot Idn Feet fro	m N/S Line	Feet From	E/W Line FEL	County Eddy	
M -		175	L 276	* Proposed Botton		1,100	FEL	Eudy	
UL - Lot	Section	Township	Range	Lot Idn Feet fro		Feet From	E/W Line	- County	
-	28	178	27Ě	2,31	0 FNL	1,100	FEL	Eddy	
				* Pool Inform	nation				
	_		SWO',	Pool Name Devonian (Undifferent	iated)			96101	
				Additional Well I					
11. Work	Туре		13. Well Type	11. Cable/R		Lease Type	is. G	Fround Level Elevation	
N 16. Mult	iple		17. Proposed Depth	R 18. Forma	tion	S 19. Contractor		3,450'±	
N			10,800'	Devon		TDB		TDB	
Depth to Ground	d water		Dista	nce from nearest fresh water w	/eil	Distance	to nearest surfac	e water	
5	500'±			Unknown			3 miles ±		
We will be	using a c	:losed-loop		f lined pits					
∐We will be	using a c	:losed-loop	· ,*	f lined pits Proposed Casing and	Cement Program				
We will be Type	•	closed-loop e Size	· ,*	-	Cement Program Setting Depth	Sucks of	Cement	Estimated TOC	
Туре	Hol	· · · · · · · · · · · · · · · · · · ·	,^ n.	Proposed Casing and		Sucks of		Estimated TOC Surface	
Туре	Hol 2	e Size	Casing Size	Proposed Casing and Casing Weight/ft	Setting Depth		yd		
Type Conductor	Hol 2	e Size	Cosing Size	Proposed Casing and Casing Weight/ft 129.33	Setting Depth	3 cu	yd cu ft	Surface	
Type Conductor Surface	Hol 2	e Size	Casing Size 20" 13 3/8" 9 5/8"	Proposed Casing and Casing Weight/ft 129.33 54.5	Setting Depth 80' 1,500' 10,800	3 cu 1,298 4,063	yd cu ft	Surface Surface	
Type Conductor Surface Protection	Hol 2 17 12	e Size	Casing Size 20" 13 3/8" 9 5/8" Casin	Proposed Casing and Casing Weight/ft 129.33 54.5 47	Setting Depth 80° 1,500° 10,800 Additional Comme	3 cu 1,298 4,063	yd cu ft	Surface Surface	
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Type Conductor Surface Protection	Hol 2 17 12 d Const	e Size	Cosing Size 20" 13 3/8" 9 5/8" Casin	Proposed Casing and Casing Weight/ft 129.33 54.5 47 ng/Cement Program: A Proposed Well Schema Proposed Blowout Pr	Setting Depth 80° 1,500° 10,800 Additional Commentic	3 cu 1,298 4,063 nts	eu ft cu ft	Surface Surface	
Type Conductor Surface Protection	Hol 2 17 12	e Size	Cosing Size 20" 13 3/8" 9 5/8" Casin	Casing Weight/ft 129.33 54.5 47 ng/Cement Program: A	Setting Depth 80° 1,500° 10,800 Additional Commentic	3 cu 1,298 4,063 nts	eu ft cu ft	Surface Surface Surface	
Conductor Surface Protection	Hol 2 17 12 d Const	e Size	Cosing Size 20" 13 3/8" 9 5/8" Casin	Proposed Casing and Casing Weight/ft 129.33 54.5 47 ng/Cement Program: A Proposed Well Schema Proposed Blowout Pr Working Pressure	Setting Depth 80° 1,500° 10,800 Additional Commentic evention Program Test Pr	3 cu 1,298 4,063 nts	eu ft cu ft	Surface Surface Surface	
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Disinct 1
1625 N. French Dr., Hobbs, NN 8824)
Phone: (575) 393-661 Fax (575) 393-6770
Disinct II
811 S. Frist [51], Artest, NM 88240
Phone: (575) 748-1283 Fax (574) 745-9720
Phote: 5131
1004 Rus Brazus Road, Artec, NN 87410
Phone: (415) 334-6178 Fax (505) 334-670
Disinct II
1220 S. St. Franco Dr., Santa Fe. NM 87505
Philip (505) 476-3460 Fax (505) 4-6-2462

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fc, NM 87505

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

☐ AMENDED REPORT

WELL LUCATION AND	ACKEAGE DEDICATION PLAT	
872 9610°1	SWD; Pool Name Devonian (undifferentiated)	(96101)
¹ Pı	roperty Name	* Well Number

	10101	Devonian (undiffere	ntiated)	101017	
Property Code		5 Property Name		* Well No	mher
313986	Waste Disposal Well			WDW-4	
OGRID No.		* Optrator Name		* Eleya	tion
15694	Navajo Refining Company, L.I	C.		3,430'	
	11 5	Surface Location			
1 t or lot on Soci	ion lounchin Dunna Lotton E	and from the Northit's out him	Cart from the	Cast(West Eas	Cimial

1,100' FEL Eddy 28 **17S FNL** 2,310' "Bottom Hole Location If Different From Surface LI or lot no. Section Township Feet from the North/South line Feet from the East/West line County 12 Dedicated Acres Consolidation Code Joint or Intill Order No. 2.500 N

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.

airision,	***			
16			2,310	POPERATOR CERTIFICATION I here he existly that the information consistent havin is much an employed to the that of any knowledge and belief, and that this is gunitation stitled arous a new folgomere to a national importal interest in the land instailing the proposed teation hade location for have a right to will this well at the instaint purposed teation hade location for have a right to will this well at the instaint purposed to a contract with an aware of such a muse rail or weeking instance, as to a volunting purpose of greenest as examplificate process of the health of the division.
	2	8	SE/NE WDW-4 ← 1,100' →	Signature Policy F. Boens Princed Name Probert Lowers G holly frontier Con E-mail Address "SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was platted from field notes of actual surveys made by me or under my supervision, and that the same is true and free No be began whether the Signature and Seal of Professional Street Signature and Seal of Professional Street Signature and Seal of Professional Street Corollege Number

Permit Conditions of Approval

API:

30-015-42872

OCD Reviewer	Condition
CSHAPARD	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string

Financial Assurance will need to be in place prior to beginning drilling operations

CO Perding

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, New Mexico 87505

FORM C-108 Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

I.	PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage Application qualifies for administrative approval? Yes No
11.	OPERATOR: Navajo Refining Company, L.L.C.
	ADDRESS: 501 E. Main, Artesia, New Mexico 88210
	CONTACT PARTY: Mike Holder PHONE: (214) 954-6536
III.	WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.
IV.	Is this an expansion of an existing project? Yes X No If yes, give the Division order number authorizing the project:
V.	Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
	Please refer to Section 7(a) Area of Review of the document entitled Permit Application, Class I Nonhazardous Waste Injection Well WDW No. 4, Navajo Refining Company, L.L.C., dated November 2014. A copy of this permit application was submitted to the District II office at the same time as the original document was submitted to the main office in Santa Fe.
VI.	Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
	Please refer to Section 7(a) Area of Review of the document entitled Permit Application, Class I Nonhazardous Waste Injection Well WDW No. 4, Navajo Refining Company, L.L.C., dated November 2014. A copy of this permit application was submitted to the District II office at the same time as the original document was submitted to the main office in Santa Fe.
VII.	Attach data on the proposed operation, including:
	Proposed average and maximum daily rate and volume of fluids to be injected;
	2. Whether the system is open or closed;3. Proposed average and maximum injection pressure;
	 Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
	 If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
•	Please refer to Section 7 of the document entitled Permit Application, Class I Nonhazardous Waste Injection Well WDW No. 4, Navajo Refining Company, L.L.C., dated November 2014. A copy of this permit application was submitted to the District II office at the same time as the original document was submitted to the main office in Santa Fe.
*VIII	Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
	Please refer to Section 7(e) Geology of the document entitled Permit Application, Class I Nonhazardous Waste Injection Well WDW No. 4, Navajo Refining Company, L.L.C., dated November 2014. A copy of this permit application was submitted to the District II office at the same time as the original document was submitted to the main office in Santa Fe.

IX. Describe the proposed stimulation program, if any.

Please refer to Section 7(i) Stimulation Program of the document entitled Permit Application, Class I Nonhazardous Waste Injection Well WDW No. 4, Navajo Refining Company, L.L.C., dated November 2014. A copy of this permit application was submitted to the District II office at the same time as the original document was submitted to the main office in Santa Fe.

- Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted). *X.
 - Please refer to Section 7r Logging and Testing of the document entitled Permit Application, Class I Nonhazardous Waste Injection Well WDW No. 4, Navajo Refining Company, L.L.C., dated November 2014. A copy of this permit application was submitted to the District II office at the same time as the original document was submitted to the main office in Santa Fe.
- *XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
 - A diligent search of public records did not located any groundwater quality data in the area of the location where WDW-4 will be installed.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
 - Navajo Refining Company, L.L.C. has examined available geologic and engineering data and has found no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
 - Please refer to Section 13 Draft Public Notice of the document entitled Permit Application, Class I Nonhazardous Waste Injection Well WDW No. 4, Navajo Refining Company, L.L.C., dated November 2014. A copy of this permit application was submitted to the District II office at the same time as the original document was submitted to the main office in Santa Fe.

XIV.	Certification: I hereby certify that the information submitted with belief.	h this application is true and correct to the best of my knowledge and
	NAME: Robert F. Borns	TITLE: Operation Manager
	SIGNATURE: Parlat L Shown	DATE: 11-21-2014

E-MAIL ADDRESS:

If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal:

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office

III. WELL DATA

- A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:
 - (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.

Please refer to Sections 3.0 Location and 4.0 Landowner(s) Geology of the document entitled Permit Application, Class 1 Nonhazardous Waste Injection Well WDW No. 4, Navajo Refining Company, L.L.C., dated November 2014. A copy of this permit application was submitted to the District II office at the same time as the original document was submitted to the main office in Santa Fe.

(2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.

Please refer to Section 7(1) Construction Procedures of the document entitled Permit Application, Class I Nonhazardous Waste Injection Well WDW No. 4, Navajo Refining Company, L.L.C., dated November 2014. A copy of this permit application was submitted to the District II office at the same time as the original document was submitted to the main office in Santa Fe.

(3) A description of the tubing to be used including its size, lining material, and setting depth.

Please refer to Section 7(1) Construction Procedures of the document entitled Permit Application, Class I Nonhazardous Waste Injection Well WDW No. 4, Navajo Refining Company, L.L.C., dated November 2014. A copy of this permit application was submitted to the District II office at the same time as the original document was submitted to the main office in Santa Fe.

(4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Please refer to Section 7(1) Construction Procedures of the document entitled Permit Application, Class I Nonhazardous Waste Injection Well WDW No. 4, Navajo Refining Company, L.L.C., dated November 2014. A copy of this permit application was submitted to the District II office at the same time as the original document was submitted to the main office in Santa Fe.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

- B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well.

 Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.
 - (1) The name of the injection formation and, if applicable, the field or pool name.

Please refer to Section 7(e) Geology of the document entitled Permit Application, Class I Nonhazardous Waste Injection Well WDW No. 4, Navajo Refining Company, L.L.C., dated November 2014. A copy of this permit application was submitted to the District II office at the same time as the original document was submitted to the main office in Santa Fe.

(2) The injection interval and whether it is perforated or open-hole.

Please refer to Section 7(e) Geology of the document entitled Permit Application, Class I Nonhazardous Waste Injection Well WDW No. 4, Navajo Refining Company, L.L.C., dated November 2014. A copy of this permit application was submitted to the District II office at the same time as the original document was submitted to the main office in Santa Fe.

(3) State if the well was drilled for injection or, if not, the original purpose of the well.

WDW-4 is being drilled specifically for injection of liquid wastes originating at the Navajo Artesia Refinery as described in Section 7(f) Proposed Operating Parameters of the document entitled Permit Application, Class I Nonhazardous Waste Injection Well WDW No. 4, Navajo Refining Company, L.L.C., dated November 2014. A copy of this permit application was submitted to the District II office at the same time as the original document was submitted to the main office in Santa Fe.

(4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.

Please refer to Section 7(1) Construction Procedures of the document entitled Permit Application, Class I Nonhazardous Waste Injection Well WDW No. 4, Navajo Refining Company, L.L.C., dated November 2014. A copy of this permit application was submitted to the District II office at the same time as the original document was submitted to the main office in Santa Fe.

(5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

Oil and gas production in the area where WDW-4 will be installed occurs in the Queen, Grayburg and San Andres Formation at depths of approximately 2,500 feet and the Morrow Formation at a depth of approximately 9,500 feet. The planned Devonian age Injection Interval in the Navajo WDW-4 injection wells is expected to be encountered below 10,000 feet, approximately 10,200 to 10,700 feet. There are no deeper oil or gas zones in the area.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

Please refer to Section 13 Draft Public Notice of the document entitled Permit Application, Class I Nonhazardous Waste Injection Well WDW No. 4, Navajo Refining Company, L.L.C., dated November 2014. A copy of this permit application was submitted to the District II office at the same time as the original document was submitted to the main office in Santa Fe.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

Side 1

INJECTION WELL DATA SHEET

OPERATOR: Navajo	Refining Company, L.L.C.		·		
WELL NAME & NUM	MBER: Waste Disposal Well No. 4 (W	DW-4)			
WELL LOCATION: 2	,310' FNL and 1,100' FEL of Section 2				
	FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE
	in the document entitled Permit Application copy of this permit application was submitted				
V 16.00	WELLBORE SCHEMATIC	<u> </u>	VELL CONSTRUCT		
			Surface	Casing	
		Hole Size:		Casing Size:	
		Cemented with:	sx.	or	ft³
		Top of Cement:		Method Determined	·
			<u>Intermedia</u>	te Casing	
		Hole Size:		Casing Size:	
		Cemented with:	sx.	or	ft ³
		Top of Cement:		Method Determined	•
			Production	n Casing	
		Hole Size:		Casing Size:	
		Cemented with:	sx.	or	ft³
		Top of Cement:		Method Determined	
		Total Depth:			
			Injection 1	<u>Interval</u>	
			feet	to	

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Refer to Figure 12 in the document entitled Permit Application, Class I Nonhazardous Waste Injection Well WDW No. 4, Navajo Refining Company, L.L.C., dated November 2014. A copy of this permit application was submitted to the District II office at the same time as the original document was submitted to the main office in Santa Fe.

Tu	ing Size:Lining Material:
Ту	De of Packer:
Pa	ker Setting Depth:
Ot	er Type of Tubing/Casing Seal (if applicable):
	Additional Data
1.	Is this a new well drilled for injection? X Yes No
	If no, for what purpose was the well originally drilled?
2.	Name of the Injection Formation: <u>Devonian (undifferentiated)</u>
3.	Name of Field or Pool (if applicable): Not applicable
4.	Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. No
5.	Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Queen, Grayburg and San Andres (approximately 2,500 feet) and Morrow (approximately 9,50 feet)