1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720

District II

811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720

District III 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico

Form C-101 Revised July 18, 2013

Energy Minerals and Natural Resources CONSERVATION NM OIL CONSERVATION

Oil Conservation Division

ARTESIA DISTRICT AMENDED REPORT

1220 South St. Francis Dr.

AUG 1 9 2016

Santa Fe, NM 87505

RECEIVED

APPLI	CATIO	N FOR	PERMIT T	O DE	ILL, RE-EN	TER, DI	EEPEN	I, PI	UGBAC	K, OR AI	DD A ZONE
			CHEVRON U. 6301 DEAUVIL	S.A. INC LE BLV	:					4323	
			MIDLAND, T	X 79706				}	30-0	^API Numb 2/5-4/38	er 7 2.
*. Prop	erty Code	16753		G	3. Property 1 RAVITAS 2 S	Name FATE SWD				7.70	002
		7.50			7. Surface La					<u> </u>	
UL - Lot	Section	Township	Range	Lot	Idn Feet fi	I	/S Line		Feet From	E/W Line	County
N	2	268	27E	 * T	roposed Botto		OUTH	1	1560	WEST	EDDY
UL - Lot	Section	Township	Range		Idn Feet fi	 -	/S Line		Feet From	E/W Line	County
		<u> </u>	<u>. </u>		9. Pool Infor	mation					
WD; DEVON	IAN – SILUR	JAN			Pool Name						Pool Code 97869
				Ac	lditional Well	Information	1				
11. Wo	rk Type		Well Type	u D	^{13.} Cable/F CABL				se Type ATE	15. G	round Level Elevation 3211
	ultiple		17. Proposed Depth 15500		^{18.} Forma DEVONIAN - SILU			19 Co	ntractor		²⁰ Spud Date 09/20/2016
Depth to Grou	ınd water		Dista	nce from	nearest fresh water	well			Distance	to nearest surfa	ce water
We will b	e using a	closed-loop	system in lieu o	f lined p	its		•				Table 19 Control of the Control of t
			21.	Propo	sed Casing and	Cement Pr	ogram		<u></u> .		
Туре	Hole	e Size	Casing Size	Ca	sing Weight/ft	Settin	g Depth		Sacks of	Cement	Estimated TOC
SURF	2	24	18.625	ŀ	I-40 14.8	4	50		42	2	0
INTER	1 10	5.5	13.375	P	-110 11.9	76	600		114	15	2100
INTER 2	2 13.	.375	12.25	P	-110 14.8	21	.00		51	5	1100
LINER	1 11	.75	10.625	P	-110 15.6	92	200		32	8	8200
LINER	1 11	.75	10.625	P	-110 14.5	82	200	\neg	29	3	7300
PROD	8	3.5	6.625	P	-110 15.6	12	810		68	0	8900
LINER 2	2 6.0	625	5.5	P	-110 11.7	14	000	寸	56	;	12500

	Froposeu biowout Fres	venuon rrogram	
Туре	Working Pressure	Test Pressure	Manufacturer
DOUBLE RAM	5000	5000	

Casing/Cement Program: Additional Comments

SWD ADMINISTRATIVE ORDER - 1620 APPROVED 03/22/2016

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

OIL CONSERVATION DIVISION

.

I further certify that I have complied with 19,15,14.9 (A) NMAC and/or 19.15.14.9 (B) NMAC, if applicable. Signature:	Approved By:
Printed name: DOKIAN K. FUENTES	Title: Bus Operospec adu
Title: REGULATORY SPECIALIST	Approved Date: 8-23-16 Expiration Date: 8-23-18
E-mail Address: DJVO@CHEVRON.COM	
Date: 08/15/2016 Phone: 432-687-7631	Conditions of Approval Attached BROWIDE C103

for Closed-Loop system

District I
1625 N, French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S, First St, Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S, St Francis Dr., Santa Fe, NM 87505
Phone. (505) 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

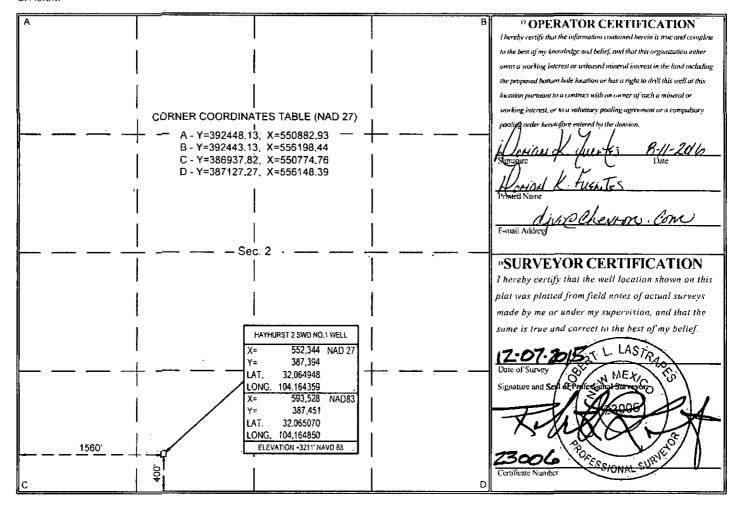
Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

■ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

			WORD EGOTTI	01,711,10		D D D D T C T L		·	
30-	' API Nun <i>015- 5</i>	13892	9186			WS Dev	Pool Nam	urian	
4 Proper	rty Code		•	. p	roperty Name	7,6			Well Number
316	753	1 6	MANIFAS 20	STATE	SWD				0020
	ID No.		C		perator Name				Elevation
432	23			CHEVR	ON U.S.A., IN	IC.		ł	3211'
				∘ Sur	face Locat	ion			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	Соилту
N	2	26 SOUTH	27 EAST, N.M.P.M.		400'	SOUTH	1560'	WEST	EDDY.
			" Bottom F	lole Locat	ion If Diffe	erent From S	Surface		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	2	26 SOUTH	27 EAST, N.M.P.M.	1	400'	SOUTH	1560'	WEST	EDDY
¹² Dedicated A	eres 13 Joi	nt or Infill	Consolidation Code	Order No.					
No allowah	le will be	assigned to	this completion unti	Lall interest	s have been e	oncolidated or	a non-etandard	unit has been an	proved by the

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.



Eddy County Horizontal Development Hayhurst NM Drilling Program "Quick-Look" for 5 String + OH

Surface String 18-5/8" 87.5 ppf, J-55,BTC @ 450"



Intermediate Liner String 11.3/4" 60 ppf, P-110, BLUE NearFlush @ WC-B (Collar size=11.988")

Production String 8-5/8" 44 ppf, TN110HC, T-521 @ Base of Barnett Shale (Collar size=9.134") Production Liner String 6-5/8", 28 ppf, P-110, T-521 @ Woodford (Collar size=7.120)

OBM 12.5-15.5 ppg DBM 8.9-9.2 ppg OBM 9.0-12,5 ppg 8.9-9.2 ppg Fresh Water Eddy County, NM 12.25" x 14.5" 6.75" x 8.5" 10.625" 18.5 24" SWD Well

5

Cut Brine 8.9-9.0 ppg

Commenter	Centh	4	ř	Thickness	San Despera					Pilot
	Š				30000					Target
	shallow-deep , ft TVD	ep,ftTVD	thin-	thin-thick, ft	low - high, psi		low - high, ppg	ppg	Oil, Gas, Water	Yes / No
Castille (Fresh Water Table)	410	505	1,250	1,400	190	234	6.8	6.8	N/A	z
Lamar	1,956	2,395	100	170	806	1,111	6,8	8.9	w/5/0	z
Bell	2,006	2,410	840	860	931	1,118	6.8	6.8	W/5/0	z
Cherry	2,861	3,208	1,000	1,300	1,328	1,489	6.80	6,8	w/5/a	z
Brushy	3,929	4,450	1,560	1,650	1,823	2,065	8.5	ф. Ф.	W/5/0	2
Bone Spring/Avalon	5,922	6,299	260	870	2,748	2,923	8.9	6.8	w/5/0	2
First Bone Spring Sand	6,513	6,888	130	190	3,022	3,196	6.8	6.8	w/9/0	z
First Bone Spring Shale	699'9	6,914	120	125	3,094	3,208	8.9	8.9	W/5/0	z
Second Bone Spring Sand	7,492	7,621	1,080	1,250	3,476	3,536	8.9	8.9	W/5/0	×
Harkey Sand	1,77,7	8,123	55	115	3,606	3,769	8.9	8.9	0/6/w	z
Third Bone Spring Sand	8,275	8,617	810	850	3,840	3,998	6.8	6.8	w/5/0	z
Wolfeamp A	8,988	9,014	130	190	4,782	5,679	10.2	12.1	W/5/0	>
Wolfcamp C	9,459	9,870	130	145	6,432	7,560	13.1	14.7	W/9/0	>
Wolfcamp D	9,570	9,992	270	300	6,584	7,654	13.2	14.7	W/9/0	>
Penn / Cisco / Canyon	10,650	11,340	1		7,466	9,129	13.5	15.5	w/5/o	z
Strawn	10,661	11,635	,		7,473	9,366	13.5	15.5	W/5/0	z
Atoka	10,900	11,860	,		7,641	9,547	13.5	15.5	w/5/0	z
Morraw	11,490	12,370	,	•	8,054	9,958	13.5	15.5	w/5/0	z
Barnett	12,170	12,780		,	8,531	10,083	13.5	15.2	w/9/0	z
Mississippi Lime	12,810	13,710		•	5,982	6,416	0.6	9:0	M/5/0	z
Woodford	13,000	14,000	100	140	6,071	6,552	9.0	0.6	w/5/0	z
Devonian / Silurian	13,100	14,100	200	009	6,078	6,542	ρ. Θ	6.8		z
Fusselman	13,600	14,700	200	909	6,310	6,821	8.9	8.9		z
SWDTD	14,100	15,300		'	6,542	7,099	8.9	8.9	٠	z

potential target formations potential salt water disposal formal

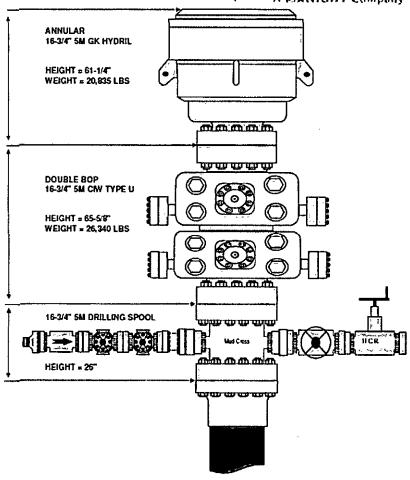
5. **CEMENTING PROGRAM**

Slurry	Type	Top	Bottom	Weight	Yield	Sacks	Water
Surface		A. S. W. S. W. W.		1505P.4	(sx/cu)ft)		gal/šk
Tail	Class C	0,	450′	14.8	1.33	422	6.37
Infermediate							11.0
Stage 2 Lead	50:50 Poz: Class C + Antifoam, Extender, Salt, Retarder	0,	1,100'	11.9	2.43	194	14.21
Stage 2 Tail	Class C + Antifoam, Retarder, Viscosifier	1,100'	2,100′	14.8	1.33	321	6.37
	50:50 Poz: Class H + Extender, Antifoam, Retarder, Salt,						
Stage 1 Lead	Viscosifier	2,100'	,009'9	11.9	2.43	792	13.76
Stage 1 Tail	Class H + Retarder, Extender, Dispersant	6,600'	7,600'	15.6	1.21	353	5.54
Lead	Class H + Antifoam, , Retarder	7,300'	8,200′	14.5	1.21	293	5.54
	Class H + Viscosifier, Antifoam, Dispersant, Fluid Loss, Retarder, Expanding Agent	8,200′	l B	15.6	1.2	328	5.30
Production -				and the state of t			
Lead	50:50 Poz: Class H + Extender, Antifoam, Dispersant, , Retarder	8,900'	11,810'	14.5	1.21	505	5.54
Tail	Class H + Viscosifier, Antifoam, Dispersant, Fluid Loss, Retarder, Expanding Agent	11,810'	12,810'	15.6	1.2	175	5.30
ProductionILiner			The second second				
Tail	Class H	12,500'	14,000'	11.7	2.45	56	14.21

Intermediate Section

CUSTOMER: RIG: CONTACT: PHONE: EMAIL: CHEVRON USA ENSIGN 769 MR. JUSTIN MURPHY (281)400-2360 onsign769@chevron.com





	The following item must be verified and checked off prior to pressure testing of BOP equipment.
	The installed BOP equipment meets at least the minimum requirements (rating, type, size, configuration) as shown on this schematic. Components may be substituted for equivalent equipment rated to higher pressures. Additional components may be put into place as long as they meet or exceed the minimum pressure rating of the system.
	All valves on the kill line and choke line will be full opening and will allow straight though flow.
	The kill line and choke line will be straight unless turns use toe blocks or are targeted with running tess, and will be anchored to prevent whip and reduce vibration.
	Manual (hand wheels) or automatic locking devices will be installed on all ram preventers. Hand wheels will also be installed on all manual valves on the choke line and kill line.
	A valve will be installed in the closing line as close as possible to the annular preventer to act as a locking device. This valve will remain open unless accumulator is inoperative.
	Upper kelly cock valve with handle will be available on rig floor along with safety valve and subs to fit all drill string connections in use.
After I	nstallation Checklist is complete, fill out the information below and email to Superintendent and Drilling Engineer
	Wellname:
	Representative:
	Date:

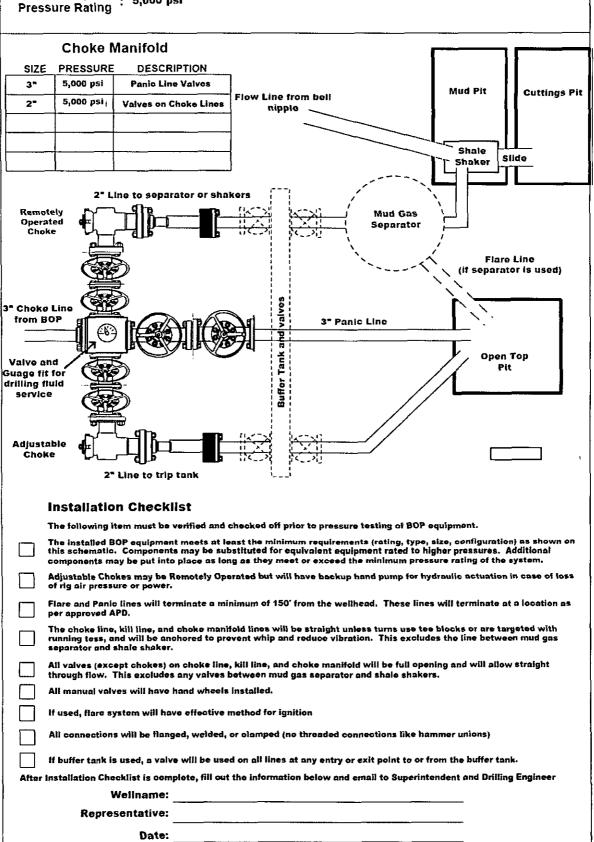
CHOKE MANIFOLD SCHEMATIC

Minimum Requirements

OPERATION: 2nd Intermediate Hole Section

Minimum System

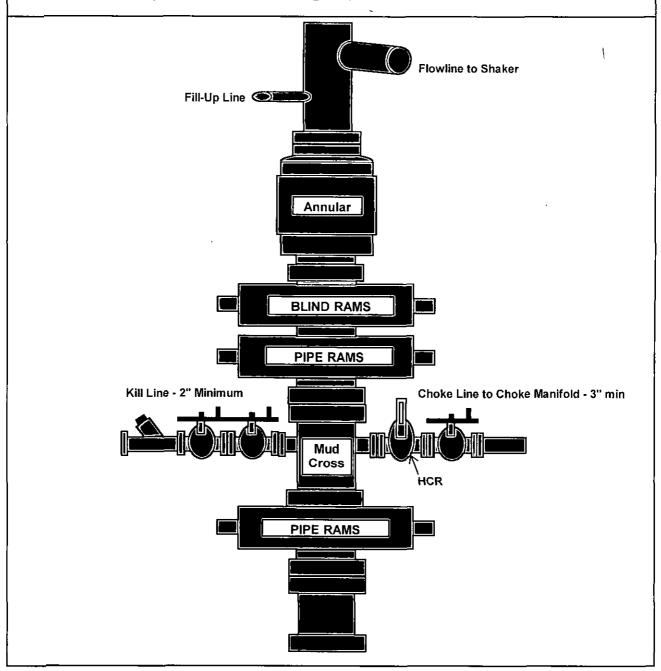
5,000 psi



10M BLOWOUT PREVENTER SCHEMATIC

Minimum Requirements

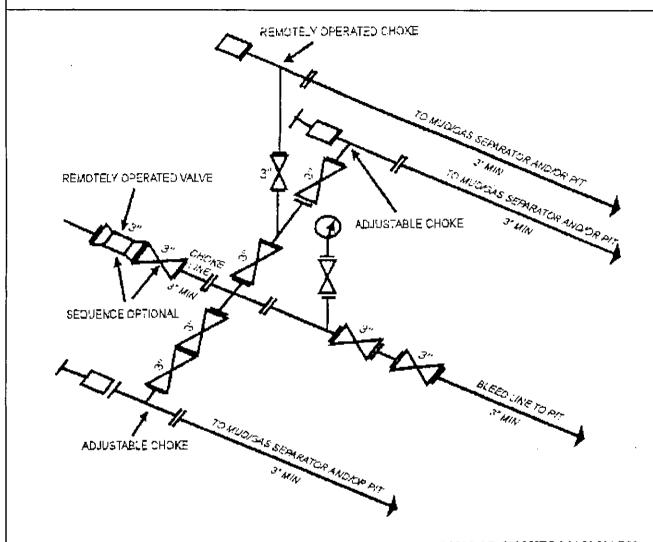
OPERATION: Production and Open Hole Sections **Minimum System Pressure Rating: 10,000 PSI**



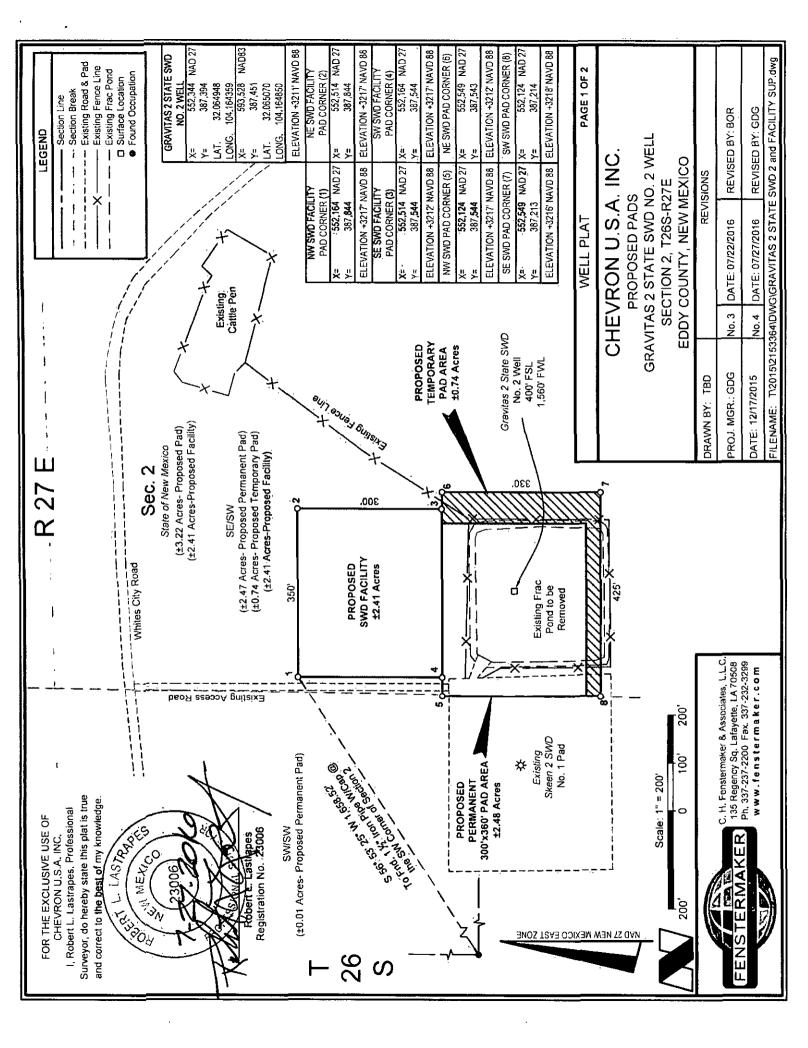
10M Choke Manifold SCHEMATIC

Minimum Requirements

OPERATION: Production and Open Hole Sections Minimum System Pressure Rating: 10,000 PSI



10M AND 15M CHOKE MANIFOLD EQUIPMENT - CONFIGURATION OF CHOKES MAY VARY [53 PR 4966], Dec. 9, 1988 and 54 PR 39528, Sept. 27, 1989]



flood plain, or "No Rise" certification analyses, including but not limited to determining and/or local laws, ordinances and regulations. Accordingly, Fenstermaker makes no performed nor was asked to perform any type of engineering, hydrological modeling, whether the project will impact flood hazards in connection with federal/FEMA, state, warranty or representation of any kind as to the foregoing issues, and persons or DISCLAIMER: At this time, C. H. Fenstermaker & Associates, L.L.C. has not entities using this information shall do so at their own risk.

NOTE: Please be advised, that while reasonable efforts are made to locate and pipelines and other hazards, such as fiber optic cubles, PVC pipelines, equipment, it is impossible to be 100 % effective. As such, we advise verify pipelines and anomalies using our standard pipeline locating using caution when performing work as there is a possibility that etc. may exist undetected on site,

those who dig (excavators) and those who own and operate underground contractor to contact the center for assistance in locating and marking Many states maintain information centers that establish links between underground utilities. For guidance: New Mexico One Call System facilities (operators). It is advisable and in most states, law, for the www.nmonecall.org.

Surveyor, do hereby state this plat is true I, Robert L. Lastrapes, Professional FOR THE EXCLUSIVE USE OF CHEVRON U.S.A. INC.

and correct to the best of my knowledge. SE'N MEXIC Registration No. WELL PLAT

PAGE 2 OF 2

CHEVRON U.S.A. INC.

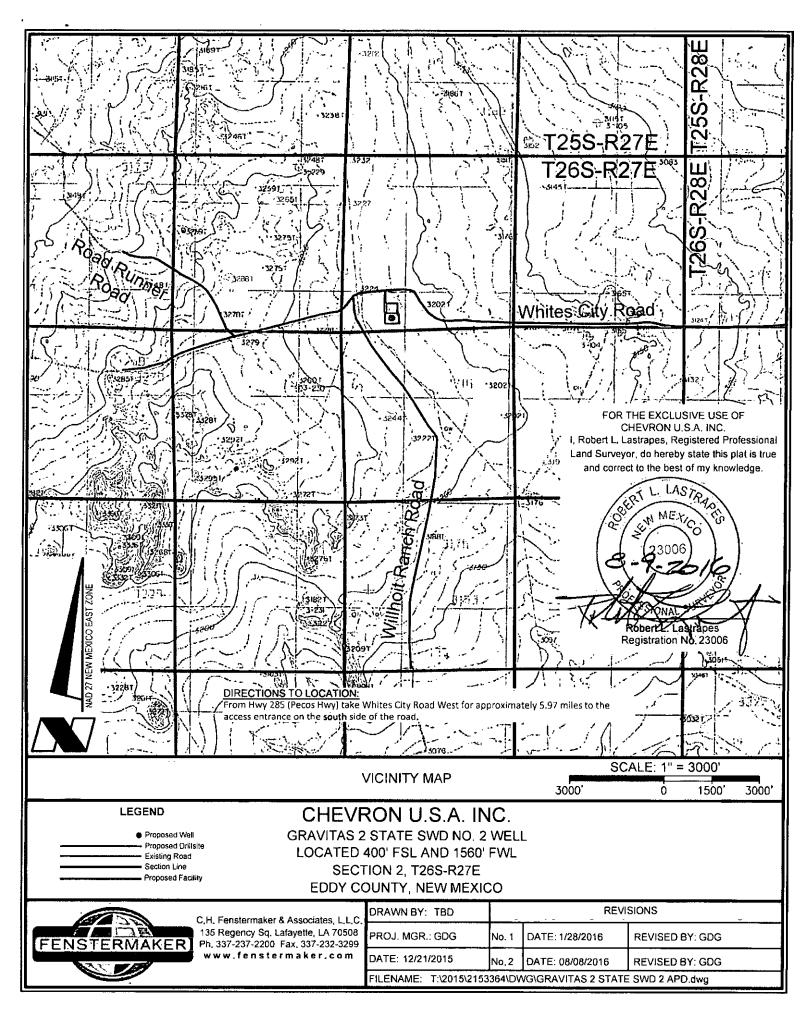
GRAVITAS 2 STATE SWD NO. 2 WELL EDDY COUNTY, NEW MEXICO **SECTION 2, T26S-R27E** PROPOSED PADS

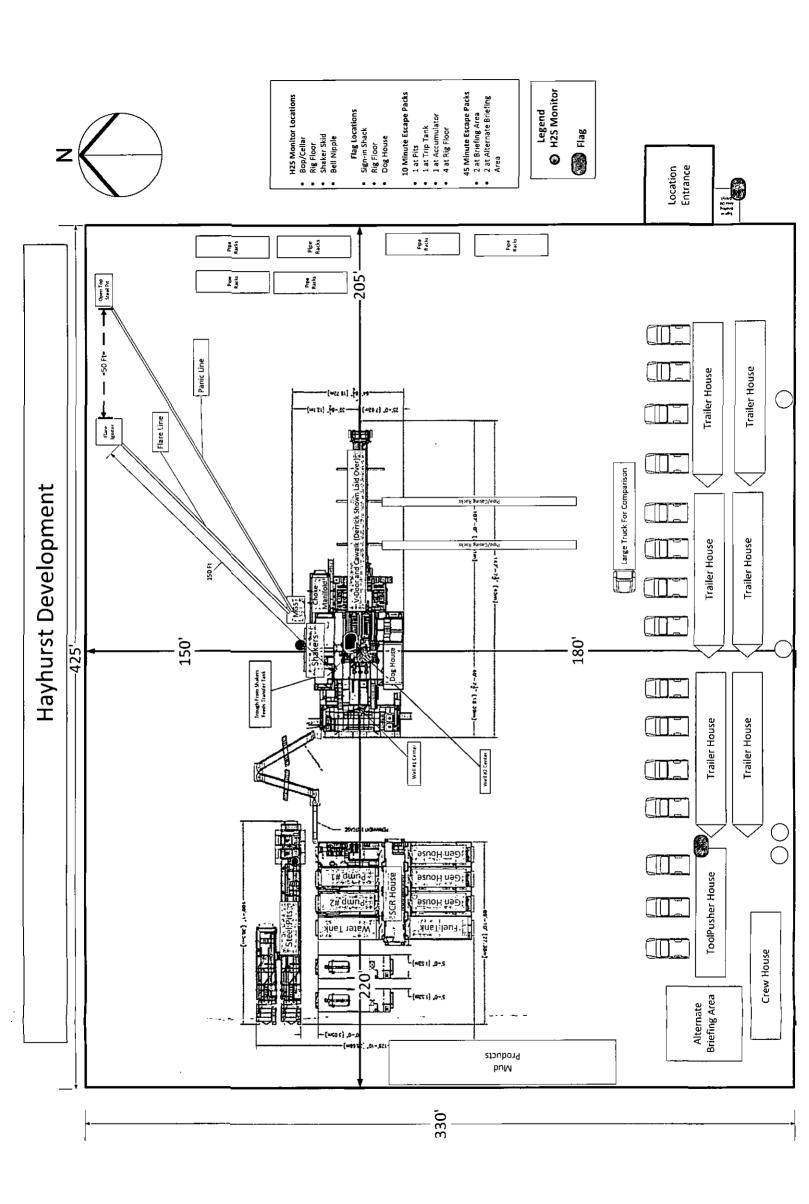
RAWN BY: TBD		REVI	REVISIONS
ROJ. MGR.: GDG	No.3	No. 3 DATE: 07/22/2016	REVISED BY: BOR
ATE: 12/17/2015	No. 4	No. 4 DATE: 07/27/2016	REVISED BY: GDG

FILENAME: T:\2015\2153364\DWG\GRAVITAS 2 STATE SWD 2 and FACILITY SUP.dwg

ERMAKER N - の乙当止

C. H. Fenstermaker & Associates, L.L.C. 135 Regency Sq. Lafayette, LA 70508 Ph. 337-237-2200 Fax, 337-232-3299 www.fenstermaker.com





DRIVING DIRECTIONS:

Coming from Carlsbad:

- Head South on HWY 285 (Pecas HWY) for roughly 28 miles (through the towns of Loving and Malaga)
- Turn right (West) onto Whites City road
- Travel West on Whites City road for roughly 6 miles
- Turn right (North) onto unnamed lease road (this lease road is just before the turn off for Wilhoit Ranch Road)
- Entrance to SWD will be on the right after less than a 1/10th of a mile

Coming from Pecas:

- Head North on HWY 285 (Pecas HWY) for roughly 57 miles (through the town of Orla)
- Turn left (West) onto Whites City road
- Travel West on Whites City road for roughly 6 miles
- Turn right (North) onto unnamed lease road (this lease road is just before the turn off for Wilhoit Ranch Road)
- Entrance to SWD will be on the right after less than a 1/10th of a mile

GPS coordinates:

SWD entrance is located approximately at 32°04'05.6"N 104°10'05.26"W

