District 1
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

N

12 Dedicated Acres

320

33

Joint or Infill

23 S

33 E

Consolidation Code

State of New Mexico

Form C-102

Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISIPNOEBS
OCCUMENT OF COMPANY O

SOUTH

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

APR 0 4 2017

2160

WEST

☐ AMENDED REPORT

LEA

WELL LOCATION AND ACREAGE DEDICATION FLAT

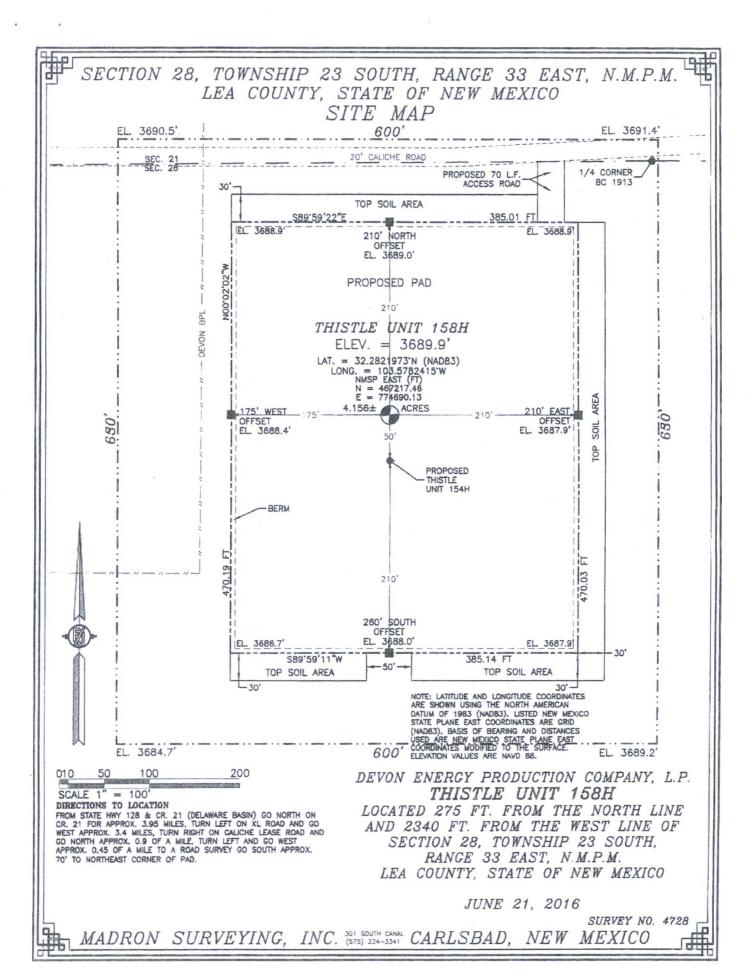
	API Numbe			² Pool Code			³ Pool Na		-	
30-02	-9-4	3733		59900			Triple X; Bo	ne Spri	ng	*
* Property	Code				5 Proper	rty Name			6	Well Number
308	84				THISTI	LE UNIT				158H
'OGRID	No.				* Opera	tor Name				° Elevation
6137			DEV	ON ENER	GY PROD	UCTION COMPA	VY, L.P.			3689.9
					10 Surfac	e Location			***************************************	
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/We	est line	County
C	28	23 S	33 E		275	NORTH	2340	WE	ST	LEA
	A		" Bot	tom Hol	e Location	If Different From	m Surface			***************************************
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/We	est line	County

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.

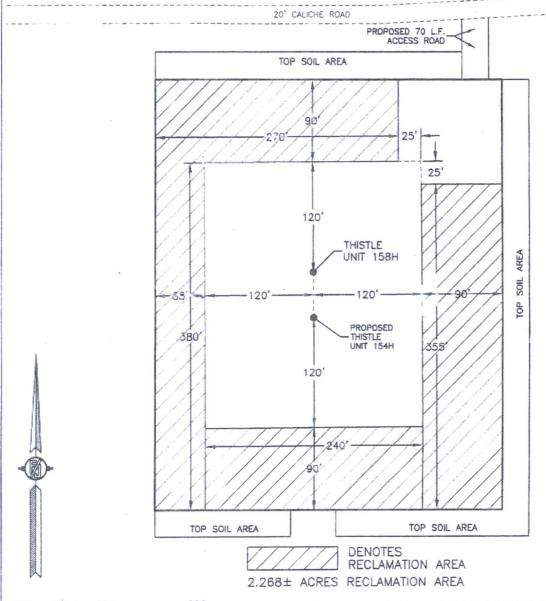
330

15 Order No.

	1	1	"OPERATOR CERTIFICATION
NW CORNER SEC. 28	2340' N/4 CORNER SEC. 28	NE CORNER SEC. 28 LAT. = 32.2829508'N	I hereby certify that the information contained herein is true and camplete to the
LONG. = 103.5858118'W	SURFACE LONG. = 103.5772866"W	LONG. = 103.5687577'W	hest of my knowledge and belief, and that this organization either owns a
NMSP EAST (FT)	LOCATION N MMSP EAST (FT)	NMSP EAST (FT) N = 467512,36	working interest or unleased mineral interest in the land including the proposed
N = 467476.07 E = 772348.66	(D = 22,007 no 1	E = 777619.12	
			bottom hole location or has a right to drill this well at this location pursuant to
	THISTLE UNIT 158H		a contract with an owner of such a mineral or working interest, or to a
W/4 CORNER SEC. 28	ELEV. = 3689.9'	E/4 CORNER SEC. 28	voluntary proding agreement or a compulsory pooling order heretofore entered
LAT. = 32.2756952'N LONG. = 103.5858099'W	LAT. = 32.2821973 N (NAD83) LONG. = 103.5782415 W	LAT. = 32.2756899'N LONG. = 103.5687542'W	by the division.
NMSP EAST (FT)	NMSP EAST (FT)	NMSP EAST (FT)	12 2 X 1 (1) X W9/14/2016
N = 464835.64 E = 772367.62	N = 467217.46 E = 774690.13	N = 464870.84 E = 777639.03	Signature Date
	2 - 171034.13		
	SEC 28		Rebecca Deal, Regulatory Analyst
		1	Printed Name
SECTION CORNER	QUARTERI CORNER	SECTION CORNER	rebecca.deal@dvn.com
LAT. = 32.2684591'N LONG. = 103.5858093'W	LAT. = 32!2684508'N	LAT. = 32.2684420'N LONG. = 103.5687493'W	E-mail Address
NMSP EAST (FT		NMSP EAST (FT)	
N = 462203.15 E = 772386.14	N = 462218.61	N = 462234.08 E = 777659.34	*SURVEYOR CERTIFICATION
E = 772380.14	NOTE: LATITUDE AND LONGITUDE COORDINATES ARE	77735.51	I hereby certify that the well location shown on this plat was
	SHOWN USING THE NORTH AMERICAN DATUM OF 1983		plotted from field notes of actual surveys made by me or under
	(NAD83), LISTED NEW MEXICO STATE PLANE EAST		
	AND DISTANCES USED ARE NEW MEXICO STATE PLANE EAST COORDINATES MODIFIED TO THE SURFACE.		my supervision, and that the same is true and correct to the
W/4 CORNER SEC. 33	ELEVATION VALUES ARE NAVD 88.	E/4 CORNER SEC. 28	best of my belief.
LAT. = 32.2611767'N		LAT. = 32.2611700'N	JUNE 21, 2016
LONG. = 103.5858055°W NMSP EAST (FT)	SECL 33	LONG. = 103.5687420'W NMSP EAST (FT)	
N = 459553.86	BOTTOM OF HOLE	N = 459588.56	Date of Survey
E = 772405.77	LAT. = 32.2548161'N	E = 777680.44	
	LONG. = 103.5788169'W NMSP EAST (FT)		1 18/15/2 0/
SW CORNER SEC. 33	N = 457255.02	or oomist see 37	The things of the said
LAT. = 32.2539176'N	E = 774582.35	SE CORNER SEC. 33 LAT. = 32.2539037'N	STORE SHOPE
LONG. = 103.5858020°W	BOT OM LONG. = 103.5772780 W	LONG. = 103.5687408'W	Surfactive and Seal of Provincial Surveyory
NMSP EAST (FT) N = 456913.03	2160' NMSP EAST (FT) N = 456927.75	NMSP EAST (FT) N = 456945.13	Centical Number Elemon F. JARAMILLO, PLS 12797
E = 772425.25	E = 775060.40	E = 777699.63	SURVEY NO.4728



PROPOSED INTERIM SITE RECLAMATION FOR THISTLE UNIT 158H SECTION 28, TOWNSHIP 23 SOUTH, RANGE 33 EAST, N.M.P.M. LEA COUNTY, STATE OF NEW MEXICO



010 50 100 200 SCALE 1" = 100' DEVON ENERGY PRODUCTION COMPANY, L.P.

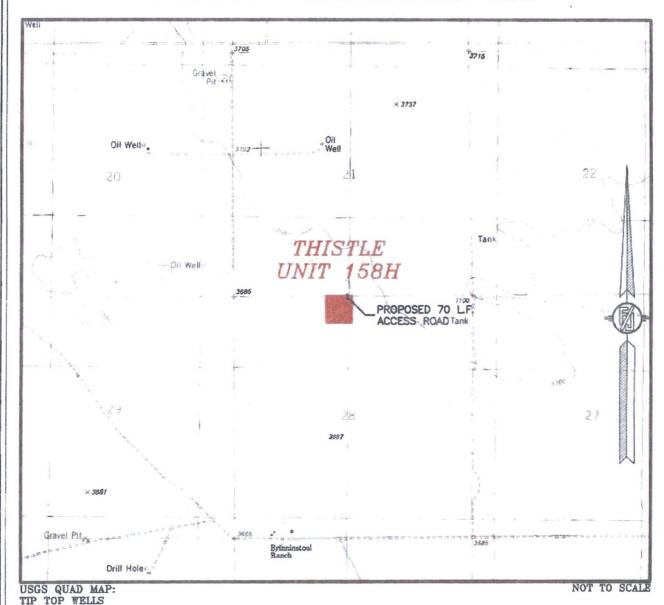
THISTLE UNIT 158H

LOCATED 275 FT. FROM THE NORTH LINE
AND 2340 FT. FROM THE WEST LINE OF
SECTION 28, TOWNSHIP 23 SOUTH,
RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

JUNE 21, 2016

SURVEY NO. 4728

SECTION 28, TOWNSHIP 23 SOUTH, RANGE 33 EAST, N.M.P.M. LEA COUNTY, STATE OF NEW MEXICO LOCATION VERIFICATION MAP



DEVON ENERGY PRODUCTION COMPANY, L.P.

THISTLE UNIT 158H

LOCATED 275 FT. FROM THE NORTH LINE
AND 2340 FT. FROM THE WEST LINE OF

SECTION 28, TOWNSHIP 23 SOUTH,

RANGE 33 EAST, N.M.P.M.

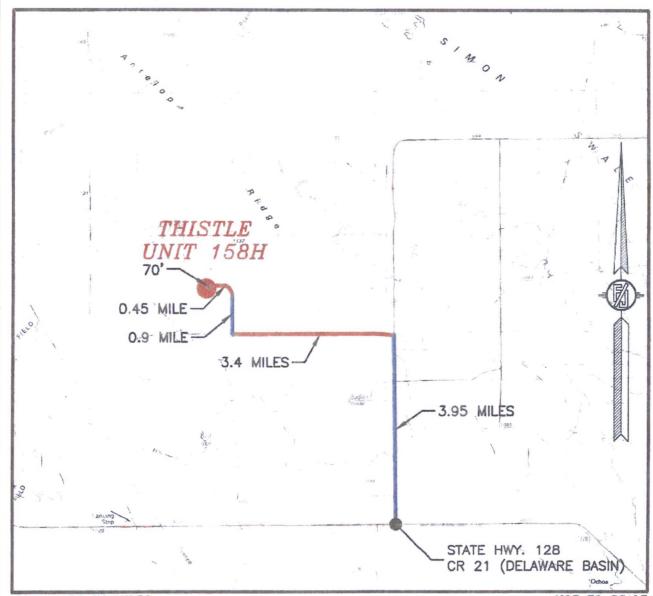
LEA COUNTY, STATE OF NEW MEXICO

JUNE 21, 2016

SURVEY NO. 4728

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO

SECTION 28, TOWNSHIP 23 SOUTH, RANGE 33 EAST, N.M.P.M. LEA COUNTY, STATE OF NEW MEXICO VICINITY MAP



DISTANCES IN MILES

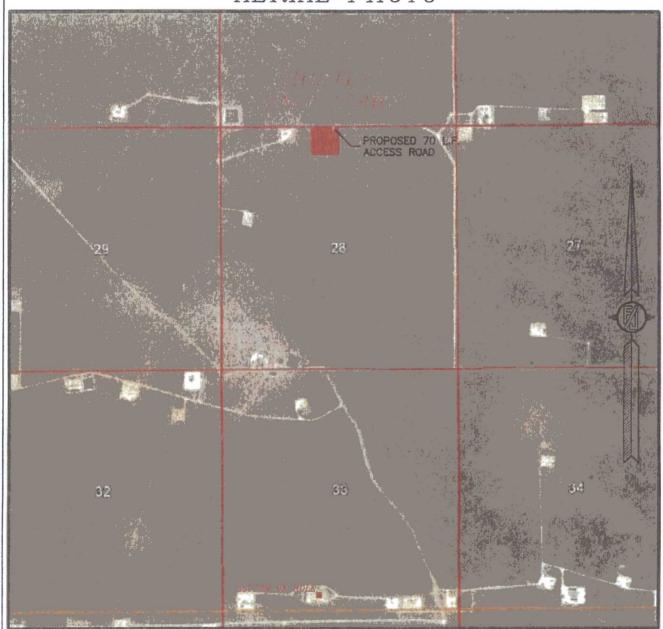
NOT TO SCALE

DIRECTIONS TO LOCATION DIRECTIONS TO LOCATION
FROM STATE HWY 128 & CR. 21 (DELAWARE BASIN) GO NORTH ON
CR. 21 FOR APPROX. 3.95 MILES, TURN LEFT ON XL ROAD AND GO
WEST APPROX. 3.4 MILES, TURN RIGHT ON CALICHE LEASE ROAD AND
GO NORTH APPROX. 0.9 OF A MILE, TURN LEFT AND GO WEST
APPROX. 0.45 OF A MILE TO A ROAD SURVEY GO SOUTH APPROX.
70' TO NORTHEAST CORNER OF PAD. DEVON ENERGY PRODUCTION COMPANY, L.P. THISTLE UNIT 158H LOCATED 275 FT. FROM THE NORTH LINE AND 2340 FT. FROM THE WEST LINE OF SECTION 28, TOWNSHIP 23 SOUTH, RANGE 33 EAST, N.M.P.M. LEA COUNTY, STATE OF NEW MEXICO

JUNE 21, 2016

SURVEY NO. 4728

SECTION 28, TOWNSHIP 23 SOUTH, RANGE 33 EAST, N.M.P.M. LEA COUNTY, STATE OF NEW MEXICO AERIAL PHOTO



NOT TO SCALE AERIAL PHOTO: GOOGLE EARTH FEB. 2014

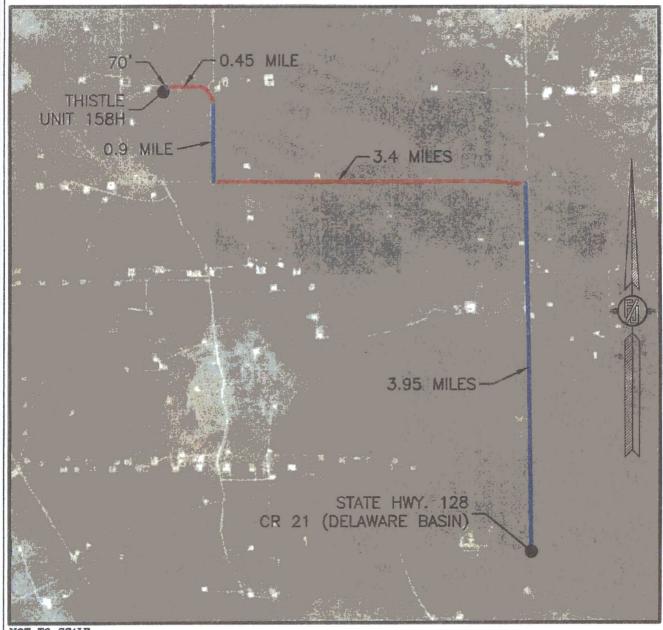
DEVON ENERGY PRODUCTION COMPANY, L.P.
THISTLE UNIT 158H

LOCATED 275 FT. FROM THE NORTH LINE AND 2340 FT. FROM THE WEST LINE OF SECTION 28, TOWNSHIP 23 SOUTH, RANGE 33 EAST, N.M.P.M. LEA COUNTY, STATE OF NEW MEXICO

JUNE 21, 2016

SURVEY NO. 4728

SECTION 28, TOWNSHIP 23 SOUTH, RANGE 33 EAST, N.M.P.M. LEA COUNTY, STATE OF NEW MEXICO AERIAL ACCESS ROUTE MAP



NOT TO SCALE AERIAL PHOTO: GOOGLE EARTH FEB. 2014

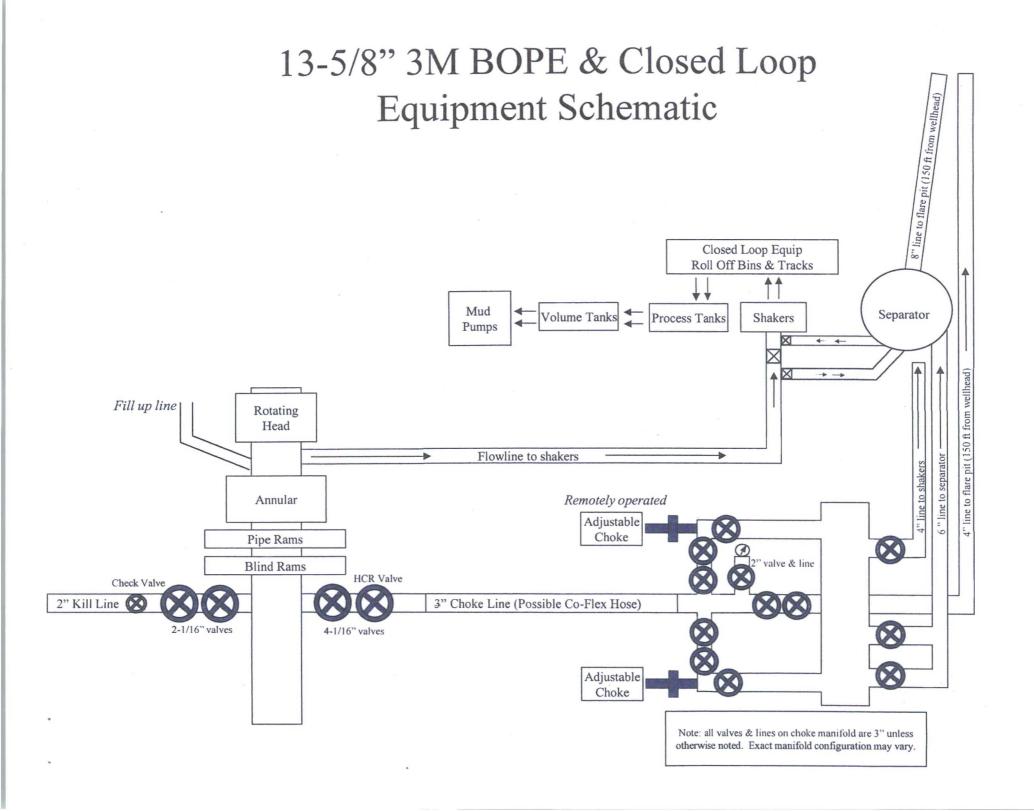
DEVON ENERGY PRODUCTION COMPANY, L.P.

THISTLE UNIT 158H

LOCATED 275 FT. FROM THE NORTH LINE
AND 2340 FT. FROM THE WEST LINE OF
SECTION 28, TOWNSHIP 23 SOUTH,
RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

JUNE 21, 2016

SURVEY NO. 4728



Casing Assumptions and Load Cases

Surface

All casing design assumptions were ran in Stress Check to determine safety factor which meet or exceed both Devon Energy and BLM minimum requirements. All casing strings will be filled while running in hole in order to not exceed collapse rating of the pipe.

	Surface Casing Burst Design	n
Load Case	External Pressure	Internal Pressure
Pressure Test	Formation Pore Pressure	Max mud weight of next hole- section plus Test psi
Drill Ahead	Formation Pore Pressure	Max mud weight of next hole section
Displace to Gas	Formation Pore Pressure	Dry gas from next casing point

	Surface Casing Collapse Design	
Load Case	External Pressure	Internal Pressure
Full Evacuation	Water gradient in cement, mud above TOC	None
Cementing	Wet cement weight	Water (8.33ppg)

Surfac	e Casing Tension Design	
Load Case	Assumptions	
Overpull	100kips	
Runing in hole	3 ft/s	
Service Loads	N/A	

Casing Assumptions and Load Cases

Intermediate

All casing design assumptions were ran in Stress Check to determine safety factor which meet or exceed both Devon Energy and BLM minimum requirements. All casing strings will be filled while running in hole in order to not exceed collapse rating of the pipe.

Intermediate Casing Burst Design		
Load Case	External Pressure	Internal Pressure
Pressure Test	Formation Pore Pressure	Max mud weight of next hole- section plus Test psi
Drill Ahead	Formation Pore Pressure	Max mud weight of next hole section
Fracture @ Shoe	Formation Pore Pressure	Dry gas

	Intermediate Casing Collapse Desig	gn
Load Case	External Pressure	Internal Pressure
Full Evacuation	Water gradient in cement, mud above TOC	None
Cementing	Wet cement weight	Water (8.33ppg)

Intermediate Casing Tension Design		
Load Case	Assumptions	
Overpull	100kips	
Runing in hole	2 ft/s	
Service Loads	N/A	