

Submit 1 Copy To Appropriate District
Office
District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM
87505

State of New Mexico
Energy, Minerals and Natural Resources

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

Form C-103
Revised July 18, 2013

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO. 30-025-43440
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐		5. Indicate Type of Lease STATE ☒ FEE ☐
2. Name of Operator DEVON ENERGY PRODUCTION COMPANY, LP		6. State Oil & Gas Lease No.
3. Address of Operator 333 W. Sheridan Avenue Oklahoma City, OK 73102		7. Lease Name or Unit Agreement Name Thistle Unit
4. Well Location Unit Letter <u>O</u> : <u>248</u> feet from the <u>South</u> line and <u>1992</u> feet from the <u>East</u> line Section <u>34</u> Township <u>23S</u> Range <u>33E</u> NMPM <u>Lea</u> , County		8. Well Number <u>112H</u>
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3644		9. OGRID Number <u>6137</u>
		10. Pool name or Wildcat Triple X; Bone Spring

12. 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 WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☒	COMMENCE DRILLING OPNS. ☐	P AND A ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPL ☐	CASING/CEMENT JOB ☐	
DOWNHOLE COMMINGLE ☐			
CLOSED-LOOP SYSTEM ☐			
OTHER: ☐		OTHER: ☐	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Devon Energy respectfully requests to change the target formation from Leonard B to Leonard C, 10,057' TVD @ LP. Please see the attached revised C-102, Drilling Plan & Directional Survey.

Spud Date:

Rig Release Date:

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

SIGNATURE Rebecca Deal TITLE Regulatory Analyst DATE 12/8/2016

Type or print name Rebecca Deal E-mail address: rebecca.deal@dvn.com PHONE: 405-228-88429

For State Use Only

APPROVED BY: [Signature] TITLE Petroleum Engineer DATE 12/09/16

Conditions of Approval (if any):

Devon Energy, Thistle Unit 112H

NOTES OCD
DEC 09 2016
RECEIVED

1. Geologic Formations

TVD of target	10,077'	Pilot hole depth	N/A
MD at TD:	17,663'	Deepest expected fresh water:	

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Rustler	1,328		
Top of Salt	1,828		
Base of Salt	4,958		
Delaware	5,228		
Lower Brushy Canyon	8,953		
1 st Bone Spring Lime	9,113		
Leonard A	9,248		
Leonard B	9,618		
Leonard B Base	9,728		
Leonard C	9,948		

*H2S, water flows, loss of circulation, abnormal pressures, etc.

Devon Energy, Thistle Unit 112H

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn .	SF Collapse	SF Burst	SF Tension
	From	To							
17.5"	0	1,375'	13.375"	48	H-40	STC	1.18	2.64	8.05
12.25"	0	4,300'	9.625"	40	J-55	BTC	1.15	1.77	4.15
12.25"	4,300'	5,100'	9.625"	40	HCK-55	BTC	1.58	1.47	4.50
8.75"	0	17,663'	5.5"	17	P-110	BTC	1.56	1.93	2.09
BLM Minimum Safety Factor							1.125	1.00	1.6 Dry 1.8 Wet

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

Must have table for contingency casing

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

Devon Energy, Thistle Unit 112H

3. Cementing Program

Casing	# Sks	Wt. lb/ gal	H ₂ O gal/sk	Yld ft ³ / sack	500# Comp. Strength (hours)	Slurry Description
13-3/8" Surface	680	12.9	9.81	1.85	14	Lead: (65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake
	550	14.8	6.32	1.33	6	Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake
13-3/8" Surface Two Stage	460	12.9	9.81	1.85	14	1 st Stage Lead: (65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake
	550	14.8	6.32	1.33	6	1 st Stage Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake
	DV Tool = 300ft					
	320	14.8	6.32	1.33	6	2 nd Stage Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake
9-5/8" Inter.	1060	12.9	9.81	1.85	14	Lead: (65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake
	430	14.8	6.32	1.33	6	Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake
5-1/2" Prod	405	10.9	20.6	3.31	24	Lead: (50:40:10) Class C: Silicalite: Enhancer 923 + 10% BWOC Bentonite + 0.05% BWOC SA-1015 + 0.3% BWOC HR-800 + 0.2% BWOC FE-2 + 0.125 lb/sk Pol-E-Flake + 0.5 lb/sk D-Air 5000
	2100	14.5	5.31	1.2	25	Tail: (50:50) Class H Cement: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% BWOC HR-601 + 2% bwoc Bentonite

If a DV tool is used, depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. DV tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above current shoe. Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

Casing String	TOC	% Excess
13-3/8" Surface	0'	100%
13-3/8" Surface – Two Stage Option	1 st Stage = 300' / 2 nd Stage = 0'	100%
9-5/8" Intermediate	0'	75%
5-1/2" Production Casing	4900'	25%

Devon Energy, Thistle Unit 112H

4. Pressure Control Equipment

N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.
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BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	✓	Tested to:
12-1/4"	13-5/8"	3M	Annular	x	50% of working pressure
			Blind Ram		3M
			Pipe Ram		
			Double Ram	x	
			Other*		
8-3/4"	13-5/8"	3M	Annular	x	50% testing pressure
			Blind Ram		3M
			Pipe Ram		
			Double Ram	x	
			Other *		
			Annular		
			Blind Ram		
			Pipe Ram		
			Double Ram		
			Other *		

*Specify if additional ram is utilized.

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

Y	Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.
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Devon Energy, Thistle Unit 112H

Y	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.
Y	Are anchors required by manufacturer?
Y	A multibowl wellhead may be used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested. Devon proposes using a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 3000 (3M) psi. • Wellhead will be installed by wellhead representatives. • If the welding is performed by a third party, the wellhead representative will monitor the temperature to verify that it does not exceed the maximum temperature of the seal. • Wellhead representative will install the test plug for the initial BOP test. • Wellhead company will install a solid steel body pack-off to completely isolate the lower head after cementing intermediate casing. After installation of the pack-off, the pack-off and the lower flange will be tested to 3M, as shown on the attached schematic. Everything above the pack-off will not have been altered whatsoever from the initial nipple up. Therefore the BOP components will not be retested at that time. • If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head will be cut and top out operations will be conducted. • Devon will pressure test all seals above and below the mandrel (but still above the casing) to full working pressure rating. • Devon will test the casing to 0.22 psi/ft or 1500 psi, whichever is greater, as per Onshore Order #2. After running the 13-3/8" surface casing, a 13-5/8" BOP/BOPE system with a minimum rating of 3M will be installed on the wellhead system and will undergo a 250 psi low pressure test followed by a 3,000 psi high pressure test. The 3,000 psi high and 250 psi low test will cover testing requirements a maximum of 30 days, as per Onshore Order #2. If the well is not complete within 30 days of this BOP test, another full BOP test will be conducted, as per Onshore Order #2. After running the 9-5/8" intermediate casing with a mandrel hanger, the 13-5/8" BOP/BOPE system with a minimum rating of 3M will already be installed on the wellhead. The pipe rams will be operated and checked each 24 hour period and each time the drill pipe is out of the hole. These tests will be logged in the daily driller's log. A 2" kill line and 3" choke line will be incorporated into the drilling spool below the ram BOP. In addition to the rams and annular preventer, additional BOP accessories include a kelly cock, floor safety valve, choke lines, and choke manifold rated at 3,000 psi WP.

Devon Energy, Thistle Unit 112H

	Devon's proposed wellhead manufactures will be FMC Technologies, Cactus Wellhead, or Cameron. Devon requests a variance to use a flexible line with flanged ends between the BOP and the choke manifold (choke line). The line will be kept as straight as possible with minimal turns.
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5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	1,375'	FW Gel	8.6-8.8	28-34	N/C
1,375'	5,100'	Saturated Brine	10.0-10.2	28-34	N/C
5,100'	17,663'	Cut Brine	8.5-9.3	28-34	N/C

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring
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6. Logging and Testing Procedures

Logging, Coring and Testing.	
x	Will run GR/CNL from TD to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
	No Logs are planned based on well control or offset log information.
	Drill stem test? If yes, explain
	Coring? If yes, explain

Additional logs planned		Interval
	Resistivity	Int. shoe to KOP
	Density	Int. shoe to KOP
X	CBL	Production casing
X	Mud log	Intermediate shoe to TD
	PEX	

Devon Energy, Thistle Unit 112H

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	4692 psi
Abnormal Temperature	No

Mitigation measure for abnormal conditions. Describe. Lost circulation material/sweeps/mud scavengers.

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.	
N	H2S is present
Y	H2S Plan attached

8. Other facets of operation

Is this a walking operation? No.

Will be pre-setting casing? No.

Attachments

☒ Directional Plan

☐ Other, describe

**5D Plan Report**

Devon Energy

Field Name: *Lea Co, NM Nad 83 NMEZ*
Site Name: *Thistle Unit 112H*
Well Name: *Thistle Unit 112H*
Plan: *P1:V5*

9 December 2016





Thistle Unit 112H

Field Name: Lea Co, NM Nad 83 NMEZ	Map Units: US ft		Company Name: Devon Energy	
	Vertical Reference Datum (VRD): Mean Sea Level			
	Projected Coordinate System: NAD83 / New Mexico East (ftUS)			
	Comment:			
Site: Thistle Unit 112H	Units: US ft	North Reference: Grid	Convergence Angle: 0.41	
	Position:	Northing: 457211.32 US ft	Latitude: 32° 15' 16.45"	
		Easting: 780985.05 US ft	Longitude: -103° 33' 29.19"	
	Elevation above MSL: 3643.80 US ft			
Comment:				
Slot: Thistle Unit 112H	Position (Relative to Site Centre)			
	+N/-S: 0.00 US ft	Northing: 457211.32 US ft	Latitude: 32°15'16.45"	
	+E/-W: 0.00 US ft	Easting: 780985.05 US ft	Longitude: -103°33'29.19"	
	Slot TVD Reference: Ground Elevation			
	Elevation above MSL: 3643.80 US ft			
Comment:				
Well: Thistle Unit 112H	Type: Main well		UWI:	Plan: P1:V5
	File Number:	Comment:		
	Closure Distance: 7672.19US ft		Closure Azimuth: 358.32°	
	Vertical Section: Position of Origin (Relative to Slot centre)			
	+N/-S: 0.00 US ft		+E/-W: 0.00 US ft	Az: 359.92°
	Magnetic Parameters:			
	Model: bggm2016	Field Strength: 48103.0nT	Declination: 7.05°	Dip: 60.11° Date: 31/Dec/2016

Drill floor: Plan: P1:V5

Rig Height (Drill Floor): 23.50us ft	Elevation above MSL: 3667.30us ft	Inclination: 0.00°	Azimuth: 0.00°
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Target set: Thistle Unit 112H Tgts Comment:

Target Name:	Shape:	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (USft)	Easting (USft)	Comment
PBHL 112H	Point	10077.00	7668.89	-225.07	464880.21	780759.98	

Wellpath created using minimum curvature.

Tie Point:

MD: 0.00USft	Inclination: 0.00°	Azimuth: 0.00°	TVD: - 0.00USft	North Offset: 0.00USft	East Offset: 0.00USft
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5D Plan Report

Salient Points: (Relative to Slot centre)(TVD relative to Drill Floor)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	VS (US ft)	DLS (°/100US ft)	B.Rate (°/100US ft)	T.Rate (°/100US ft)	T.Face (°)	Comment
0.00	0.00	0.00	-0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3200.00	0.00	0.00	3200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Nudge
3733.33	4.00	225.00	3732.90	-13.16	-13.16	-13.14	0.75	0.75	0.00	225.00	Hold
6733.33	4.00	225.00	6725.59	-161.13	-161.13	-160.91	0.00	0.00	0.00	0.00	Drop
7266.67	0.00	0.00	7258.49	-174.29	-174.29	-174.05	0.75	-0.75	0.00	180.00	Hold
9492.21	0.00	0.00	9484.04	-174.29	-174.29	-174.05	0.00	0.00	0.00	0.00	KOP
10390.64	89.84	359.63	10057.00	397.08	-177.99	397.32	10.00	10.00	0.00	359.63	LP
17662.63	89.84	359.63	10077.00	7668.89	-225.07	7669.20	0.00	0.00	0.00	0.00	PBHL 112H

Interpolated Points: (Relative to Slot centre)(TVD relative to Drill Floor)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	VS (US ft)	DLS (°/100US ft)	Northing (US ft)	Easting (US ft)	Comment
0.00	0.00	0.00	-0.00	0.00	0.00	0.00	0.00	457211.32	780985.05	
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	457211.32	780985.05	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	457211.32	780985.05	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	457211.32	780985.05	
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	457211.32	780985.05	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	457211.32	780985.05	
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	457211.32	780985.05	
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	457211.32	780985.05	
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	457211.32	780985.05	
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	457211.32	780985.05	
1000.00	0.00	0.00	1000.00	0.00	0.00	0.00	0.00	457211.32	780985.05	
1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	457211.32	780985.05	
1200.00	0.00	0.00	1200.00	0.00	0.00	0.00	0.00	457211.32	780985.05	
1300.00	0.00	0.00	1300.00	0.00	0.00	0.00	0.00	457211.32	780985.05	
1400.00	0.00	0.00	1400.00	0.00	0.00	0.00	0.00	457211.32	780985.05	
1500.00	0.00	0.00	1500.00	0.00	0.00	0.00	0.00	457211.32	780985.05	
1600.00	0.00	0.00	1600.00	0.00	0.00	0.00	0.00	457211.32	780985.05	
1700.00	0.00	0.00	1700.00	0.00	0.00	0.00	0.00	457211.32	780985.05	
1800.00	0.00	0.00	1800.00	0.00	0.00	0.00	0.00	457211.32	780985.05	
1900.00	0.00	0.00	1900.00	0.00	0.00	0.00	0.00	457211.32	780985.05	
2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	457211.32	780985.05	
2100.00	0.00	0.00	2100.00	0.00	0.00	0.00	0.00	457211.32	780985.05	
2200.00	0.00	0.00	2200.00	0.00	0.00	0.00	0.00	457211.32	780985.05	
2300.00	0.00	0.00	2300.00	0.00	0.00	0.00	0.00	457211.32	780985.05	
2400.00	0.00	0.00	2400.00	0.00	0.00	0.00	0.00	457211.32	780985.05	
2500.00	0.00	0.00	2500.00	0.00	0.00	0.00	0.00	457211.32	780985.05	
2600.00	0.00	0.00	2600.00	0.00	0.00	0.00	0.00	457211.32	780985.05	
2700.00	0.00	0.00	2700.00	0.00	0.00	0.00	0.00	457211.32	780985.05	
2800.00	0.00	0.00	2800.00	0.00	0.00	0.00	0.00	457211.32	780985.05	
2900.00	0.00	0.00	2900.00	0.00	0.00	0.00	0.00	457211.32	780985.05	
3000.00	0.00	0.00	3000.00	0.00	0.00	0.00	0.00	457211.32	780985.05	
3100.00	0.00	0.00	3100.00	0.00	0.00	0.00	0.00	457211.32	780985.05	
3200.00	0.00	0.00	3200.00	0.00	0.00	0.00	0.00	457211.32	780985.05	Nudge
3300.00	0.75	225.00	3300.00	-0.46	-0.46	-0.46	0.75	457210.86	780984.59	
3400.00	1.50	225.00	3399.98	-1.85	-1.85	-1.85	0.75	457209.47	780983.20	
3500.00	2.25	225.00	3499.92	-4.16	-4.16	-4.16	0.75	457207.16	780980.89	
3600.00	3.00	225.00	3599.82	-7.40	-7.40	-7.39	0.75	457203.92	780977.65	
3700.00	3.75	225.00	3699.64	-11.57	-11.57	-11.55	0.75	457199.75	780973.48	
3733.33	4.00	225.00	3732.90	-13.16	-13.16	-13.14	0.75	457198.16	780971.89	Hold
3800.00	4.00	225.00	3799.40	-16.45	-16.45	-16.42	0.00	457194.87	780968.60	
3900.00	4.00	225.00	3899.16	-21.38	-21.38	-21.35	0.00	457189.94	780963.67	
4000.00	4.00	225.00	3998.92	-26.31	-26.31	-26.28	0.00	457185.01	780958.74	
4100.00	4.00	225.00	4098.67	-31.24	-31.24	-31.20	0.00	457180.08	780953.81	
4200.00	4.00	225.00	4198.43	-36.18	-36.18	-36.13	0.00	457175.14	780948.87	
4300.00	4.00	225.00	4298.19	-41.11	-41.11	-41.05	0.00	457170.21	780943.94	
4400.00	4.00	225.00	4397.94	-46.04	-46.04	-45.98	0.00	457165.28	780939.01	
4500.00	4.00	225.00	4497.70	-50.97	-50.97	-50.90	0.00	457160.35	780934.08	

5D Plan Report

Interpolated Points: (Relative to Slot centre)(TVD relative to Drill Floor)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	VS (US ft)	DLS (%/100US ft)	Northing (US ft)	Easting (US ft)	Comment
4600.00	4.00	225.00	4597.46	-55.91	-55.91	-55.83	0.00	457155.41	780929.14	
4700.00	4.00	225.00	4697.21	-60.84	-60.84	-60.75	0.00	457150.48	780924.21	
4800.00	4.00	225.00	4796.97	-65.77	-65.77	-65.68	0.00	457145.55	780919.28	
4900.00	4.00	225.00	4896.72	-70.70	-70.70	-70.61	0.00	457140.62	780914.35	
5000.00	4.00	225.00	4996.48	-75.64	-75.64	-75.53	0.00	457135.68	780909.41	
5100.00	4.00	225.00	5096.24	-80.57	-80.57	-80.46	0.00	457130.75	780904.48	
5200.00	4.00	225.00	5195.99	-85.50	-85.50	-85.38	0.00	457125.82	780899.55	
5300.00	4.00	225.00	5295.75	-90.44	-90.44	-90.31	0.00	457120.88	780894.61	
5400.00	4.00	225.00	5395.51	-95.37	-95.37	-95.23	0.00	457115.95	780889.68	
5500.00	4.00	225.00	5495.26	-100.30	-100.30	-100.16	0.00	457111.02	780884.75	
5600.00	4.00	225.00	5595.02	-105.23	-105.23	-105.09	0.00	457106.09	780879.82	
5700.00	4.00	225.00	5694.78	-110.17	-110.17	-110.01	0.00	457101.15	780874.88	
5800.00	4.00	225.00	5794.53	-115.10	-115.10	-114.94	0.00	457096.22	780869.95	
5900.00	4.00	225.00	5894.29	-120.03	-120.03	-119.86	0.00	457091.29	780865.02	
6000.00	4.00	225.00	5994.05	-124.96	-124.96	-124.79	0.00	457086.36	780860.09	
6100.00	4.00	225.00	6093.80	-129.90	-129.90	-129.71	0.00	457081.42	780855.15	
6200.00	4.00	225.00	6193.56	-134.83	-134.83	-134.64	0.00	457076.49	780850.22	
6300.00	4.00	225.00	6293.31	-139.76	-139.76	-139.57	0.00	457071.56	780845.29	
6400.00	4.00	225.00	6393.07	-144.69	-144.69	-144.49	0.00	457066.63	780840.36	
6500.00	4.00	225.00	6492.83	-149.63	-149.63	-149.42	0.00	457061.69	780835.42	
6600.00	4.00	225.00	6592.58	-154.56	-154.56	-154.34	0.00	457056.76	780830.49	
6700.00	4.00	225.00	6692.34	-159.49	-159.49	-159.27	0.00	457051.83	780825.56	
6733.33	4.00	225.00	6725.59	-161.13	-161.13	-160.91	0.00	457050.19	780823.92	Drop
6800.00	3.50	225.00	6792.12	-164.22	-164.22	-163.99	0.75	457047.10	780820.83	
6900.00	2.75	225.00	6891.97	-168.07	-168.07	-167.84	0.75	457043.25	780816.98	
7000.00	2.00	225.00	6991.88	-171.00	-171.00	-170.76	0.75	457040.32	780814.05	
7100.00	1.25	225.00	7091.84	-173.01	-173.01	-172.77	0.75	457038.31	780812.04	
7200.00	0.50	225.00	7191.83	-174.09	-174.09	-173.84	0.75	457037.23	780810.96	
7266.67	0.00	0.00	7258.49	-174.29	-174.29	-174.05	0.75	457037.03	780810.76	Hold
7300.00	0.00	0.00	7291.83	-174.29	-174.29	-174.05	0.00	457037.03	780810.76	
7400.00	0.00	0.00	7391.83	-174.29	-174.29	-174.05	0.00	457037.03	780810.76	
7500.00	0.00	0.00	7491.83	-174.29	-174.29	-174.05	0.00	457037.03	780810.76	
7600.00	0.00	0.00	7591.83	-174.29	-174.29	-174.05	0.00	457037.03	780810.76	
7700.00	0.00	0.00	7691.83	-174.29	-174.29	-174.05	0.00	457037.03	780810.76	
7800.00	0.00	0.00	7791.83	-174.29	-174.29	-174.05	0.00	457037.03	780810.76	
7900.00	0.00	0.00	7891.83	-174.29	-174.29	-174.05	0.00	457037.03	780810.76	
8000.00	0.00	0.00	7991.83	-174.29	-174.29	-174.05	0.00	457037.03	780810.76	
8100.00	0.00	0.00	8091.83	-174.29	-174.29	-174.05	0.00	457037.03	780810.76	
8200.00	0.00	0.00	8191.83	-174.29	-174.29	-174.05	0.00	457037.03	780810.76	
8300.00	0.00	0.00	8291.83	-174.29	-174.29	-174.05	0.00	457037.03	780810.76	
8400.00	0.00	0.00	8391.83	-174.29	-174.29	-174.05	0.00	457037.03	780810.76	
8500.00	0.00	0.00	8491.83	-174.29	-174.29	-174.05	0.00	457037.03	780810.76	
8600.00	0.00	0.00	8591.83	-174.29	-174.29	-174.05	0.00	457037.03	780810.76	
8700.00	0.00	0.00	8691.83	-174.29	-174.29	-174.05	0.00	457037.03	780810.76	
8800.00	0.00	0.00	8791.83	-174.29	-174.29	-174.05	0.00	457037.03	780810.76	
8900.00	0.00	0.00	8891.83	-174.29	-174.29	-174.05	0.00	457037.03	780810.76	
9000.00	0.00	0.00	8991.83	-174.29	-174.29	-174.05	0.00	457037.03	780810.76	
9100.00	0.00	0.00	9091.83	-174.29	-174.29	-174.05	0.00	457037.03	780810.76	
9200.00	0.00	0.00	9191.83	-174.29	-174.29	-174.05	0.00	457037.03	780810.76	
9300.00	0.00	0.00	9291.83	-174.29	-174.29	-174.05	0.00	457037.03	780810.76	
9400.00	0.00	0.00	9391.83	-174.29	-174.29	-174.05	0.00	457037.03	780810.76	
9492.21	0.00	0.00	9484.04	-174.29	-174.29	-174.05	0.00	457037.03	780810.76	KOP
9500.00	0.78	359.63	9491.83	-174.24	-174.29	-174.00	10.00	457037.08	780810.76	
9600.00	10.78	359.63	9591.19	-164.18	-174.36	-163.94	10.00	457047.14	780810.69	
9700.00	20.78	359.63	9687.30	-137.03	-174.53	-136.78	10.00	457074.29	780810.52	
9800.00	30.78	359.63	9777.24	-93.59	-174.82	-93.35	10.00	457117.73	780810.23	
9900.00	40.78	359.63	9858.26	-35.20	-175.19	-34.96	10.00	457176.12	780809.86	
10000.00	50.78	359.63	9927.92	36.37	-175.66	36.61	10.00	457247.69	780809.39	
10100.00	60.78	359.63	9984.08	118.95	-176.19	119.19	10.00	457330.27	780808.86	

5D Plan Report

Interpolated Points: (Relative to Slot centre)(TVD relative to Drill Floor)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	VS (US ft)	DLS (%/100US ft)	Northing (US ft)	Easting (US ft)	Comment
10200.00	70.78	359.63	10025.06	210.03	-176.78	210.27	10.00	457421.35	780808.27	
10300.00	80.78	359.63	10049.59	306.84	-177.41	307.09	10.00	457518.16	780807.64	
10390.64	89.84	359.63	10057.00	397.08	-177.99	397.32	10.00	457608.40	780807.06	LP
10400.00	89.84	359.63	10057.02	406.44	-178.05	406.69	0.00	457617.76	780807.00	
10500.00	89.84	359.63	10057.30	506.44	-178.70	506.68	0.00	457717.76	780806.35	
10600.00	89.84	359.63	10057.57	606.43	-179.35	606.68	0.00	457817.75	780805.70	
10700.00	89.84	359.63	10057.85	706.43	-180.00	706.68	0.00	457917.75	780805.05	
10800.00	89.84	359.63	10058.12	806.43	-180.64	806.68	0.00	458017.75	780804.41	
10900.00	89.84	359.63	10058.40	906.43	-181.29	906.68	0.00	458117.75	780803.76	
11000.00	89.84	359.63	10058.67	1006.42	-181.94	1006.68	0.00	458217.74	780803.11	
11100.00	89.84	359.63	10058.95	1106.42	-182.58	1106.67	0.00	458317.74	780802.47	
11200.00	89.84	359.63	10059.22	1206.42	-183.23	1206.67	0.00	458417.74	780801.82	
11300.00	89.84	359.63	10059.50	1306.42	-183.88	1306.67	0.00	458517.74	780801.17	
11400.00	89.84	359.63	10059.77	1406.41	-184.53	1406.67	0.00	458617.73	780800.52	
11500.00	89.84	359.63	10060.05	1506.41	-185.17	1506.67	0.00	458717.73	780799.88	
11600.00	89.84	359.63	10060.32	1606.41	-185.82	1606.67	0.00	458817.73	780799.23	
11700.00	89.84	359.63	10060.60	1706.41	-186.47	1706.66	0.00	458917.73	780798.58	
11800.00	89.84	359.63	10060.87	1806.40	-187.12	1806.66	0.00	459017.72	780797.93	
11900.00	89.84	359.63	10061.15	1906.40	-187.76	1906.66	0.00	459117.72	780797.29	
12000.00	89.84	359.63	10061.42	2006.40	-188.41	2006.66	0.00	459217.72	780796.64	
12100.00	89.84	359.63	10061.70	2106.40	-189.06	2106.66	0.00	459317.72	780795.99	
12200.00	89.84	359.63	10061.97	2206.39	-189.71	2206.66	0.00	459417.71	780795.34	
12300.00	89.84	359.63	10062.25	2306.39	-190.35	2306.65	0.00	459517.71	780794.70	
12400.00	89.84	359.63	10062.52	2406.39	-191.00	2406.65	0.00	459617.71	780794.05	
12500.00	89.84	359.63	10062.80	2506.39	-191.65	2506.65	0.00	459717.71	780793.40	
12600.00	89.84	359.63	10063.07	2606.38	-192.30	2606.65	0.00	459817.70	780792.75	
12700.00	89.84	359.63	10063.35	2706.38	-192.94	2706.65	0.00	459917.70	780792.11	
12800.00	89.84	359.63	10063.62	2806.38	-193.59	2806.65	0.00	460017.70	780791.46	
12900.00	89.84	359.63	10063.90	2906.38	-194.24	2906.64	0.00	460117.70	780790.81	
13000.00	89.84	359.63	10064.17	3006.37	-194.88	3006.64	0.00	460217.69	780790.17	
13100.00	89.84	359.63	10064.45	3106.37	-195.53	3106.64	0.00	460317.69	780789.52	
13200.00	89.84	359.63	10064.72	3206.37	-196.18	3206.64	0.00	460417.69	780788.87	
13300.00	89.84	359.63	10065.00	3306.37	-196.83	3306.64	0.00	460517.69	780788.22	
13400.00	89.84	359.63	10065.27	3406.36	-197.47	3406.64	0.00	460617.68	780787.58	
13500.00	89.84	359.63	10065.55	3506.36	-198.12	3506.63	0.00	460717.68	780786.93	
13600.00	89.84	359.63	10065.82	3606.36	-198.77	3606.63	0.00	460817.68	780786.28	
13700.00	89.84	359.63	10066.10	3706.36	-199.42	3706.63	0.00	460917.68	780785.63	
13800.00	89.84	359.63	10066.37	3806.35	-200.06	3806.63	0.00	461017.67	780784.99	
13900.00	89.84	359.63	10066.65	3906.35	-200.71	3906.63	0.00	461117.67	780784.34	
14000.00	89.84	359.63	10066.92	4006.35	-201.36	4006.63	0.00	461217.67	780783.69	
14100.00	89.84	359.63	10067.20	4106.35	-202.01	4106.62	0.00	461317.67	780783.04	
14200.00	89.84	359.63	10067.47	4206.34	-202.65	4206.62	0.00	461417.66	780782.40	
14300.00	89.84	359.63	10067.75	4306.34	-203.30	4306.62	0.00	461517.66	780781.75	
14400.00	89.84	359.63	10068.02	4406.34	-203.95	4406.62	0.00	461617.66	780781.10	
14500.00	89.84	359.63	10068.30	4506.34	-204.60	4506.62	0.00	461717.66	780780.45	
14600.00	89.84	359.63	10068.58	4606.33	-205.24	4606.62	0.00	461817.65	780779.81	
14700.00	89.84	359.63	10068.85	4706.33	-205.89	4706.61	0.00	461917.65	780779.16	
14800.00	89.84	359.63	10069.13	4806.33	-206.54	4806.61	0.00	462017.65	780778.51	
14900.00	89.84	359.63	10069.40	4906.33	-207.19	4906.61	0.00	462117.65	780777.86	
15000.00	89.84	359.63	10069.68	5006.32	-207.83	5006.61	0.00	462217.64	780777.22	
15100.00	89.84	359.63	10069.95	5106.32	-208.48	5106.61	0.00	462317.64	780776.57	
15200.00	89.84	359.63	10070.23	5206.32	-209.13	5206.61	0.00	462417.64	780775.92	
15300.00	89.84	359.63	10070.50	5306.32	-209.77	5306.60	0.00	462517.64	780775.28	
15400.00	89.84	359.63	10070.78	5406.31	-210.42	5406.60	0.00	462617.63	780774.63	
15500.00	89.84	359.63	10071.05	5506.31	-211.07	5506.60	0.00	462717.63	780773.98	
15600.00	89.84	359.63	10071.33	5606.31	-211.72	5606.60	0.00	462817.63	780773.33	
15700.00	89.84	359.63	10071.60	5706.31	-212.36	5706.60	0.00	462917.63	780772.69	
15800.00	89.84	359.63	10071.88	5806.30	-213.01	5806.60	0.00	463017.62	780772.04	
15900.00	89.84	359.63	10072.15	5906.30	-213.66	5906.59	0.00	463117.62	780771.39	

5D Plan Report

Interpolated Points: (Relative to Slot centre)(TVD relative to Drill Floor)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	VS (US ft)	DLS (°/100US ft)	Northing (US ft)	Easting (US ft)	Comment
16000.00	89.84	359.63	10072.43	6006.30	-214.31	6006.59	0.00	463217.62	780770.74	
16100.00	89.84	359.63	10072.70	6106.30	-214.95	6106.59	0.00	463317.62	780770.10	
16200.00	89.84	359.63	10072.98	6206.29	-215.60	6206.59	0.00	463417.61	780769.45	
16300.00	89.84	359.63	10073.25	6306.29	-216.25	6306.59	0.00	463517.61	780768.80	
16400.00	89.84	359.63	10073.53	6406.29	-216.90	6406.59	0.00	463617.61	780768.15	
16500.00	89.84	359.63	10073.80	6506.29	-217.54	6506.58	0.00	463717.61	780767.51	
16600.00	89.84	359.63	10074.08	6606.28	-218.19	6606.58	0.00	463817.60	780766.86	
16700.00	89.84	359.63	10074.35	6706.28	-218.84	6706.58	0.00	463917.60	780766.21	
16800.00	89.84	359.63	10074.63	6806.28	-219.49	6806.58	0.00	464017.60	780765.56	
16900.00	89.84	359.63	10074.90	6906.28	-220.13	6906.58	0.00	464117.60	780764.92	
17000.00	89.84	359.63	10075.18	7006.27	-220.78	7006.58	0.00	464217.59	780764.27	
17100.00	89.84	359.63	10075.45	7106.27	-221.43	7106.57	0.00	464317.59	780763.62	
17200.00	89.84	359.63	10075.73	7206.27	-222.08	7206.57	0.00	464417.59	780762.97	
17300.00	89.84	359.63	10076.00	7306.27	-222.72	7306.57	0.00	464517.59	780762.33	
17400.00	89.84	359.63	10076.28	7406.26	-223.37	7406.57	0.00	464617.58	780761.68	
17500.00	89.84	359.63	10076.55	7506.26	-224.02	7506.57	0.00	464717.58	780761.03	
17600.00	89.84	359.63	10076.83	7606.26	-224.66	7606.57	0.00	464817.58	780760.39	
17662.63	89.84	359.63	10077.00	7668.89	-225.07	7669.20	0.00	464880.21	780759.98	PBHL 112H

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

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DEC 09 2016
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Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

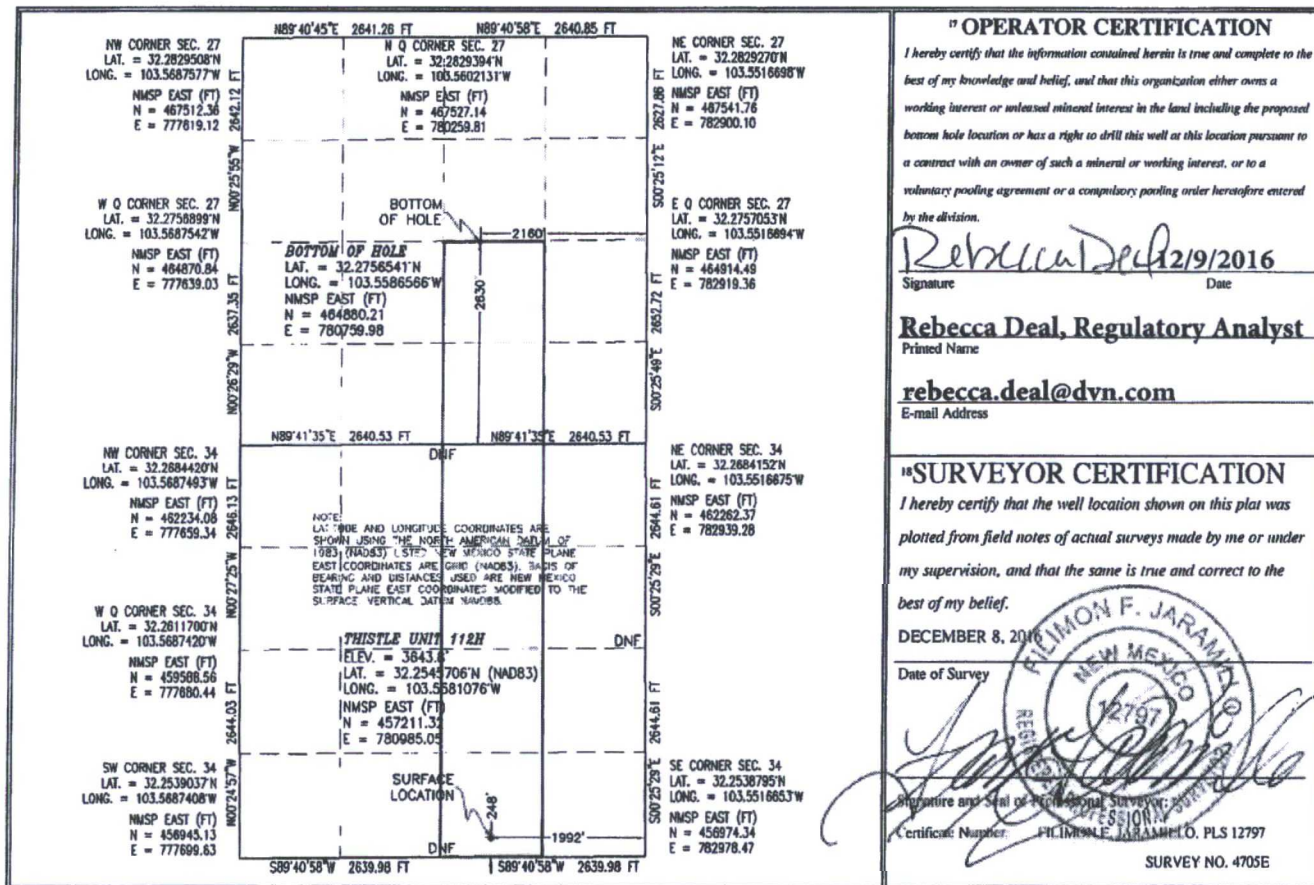
¹ API Number 30-025-43440		² Pool Code 59900		³ Pool Name Triple X; Bone Spring	
⁴ Property Code 30884		⁵ Property Name THISTLE UNIT			⁶ Well Number 112H
⁷ OGRID No. 6137		⁸ Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.			⁹ Elevation 3643.8

¹⁰ Surface Location									
UL or lot no. O	Section 34	Township 23 S	Range 33 E	Lot Idn	Feet from the 248	North/South line SOUTH	Feet from the 1992	East/West line EAST	County LEA

¹¹ Bottom Hole Location If Different From Surface									
UL or lot no. J	Section 27	Township 23 S	Range 33 E	Lot Idn	Feet from the 2630	North/South line SOUTH	Feet from the 2160	East/West line EAST	County LEA

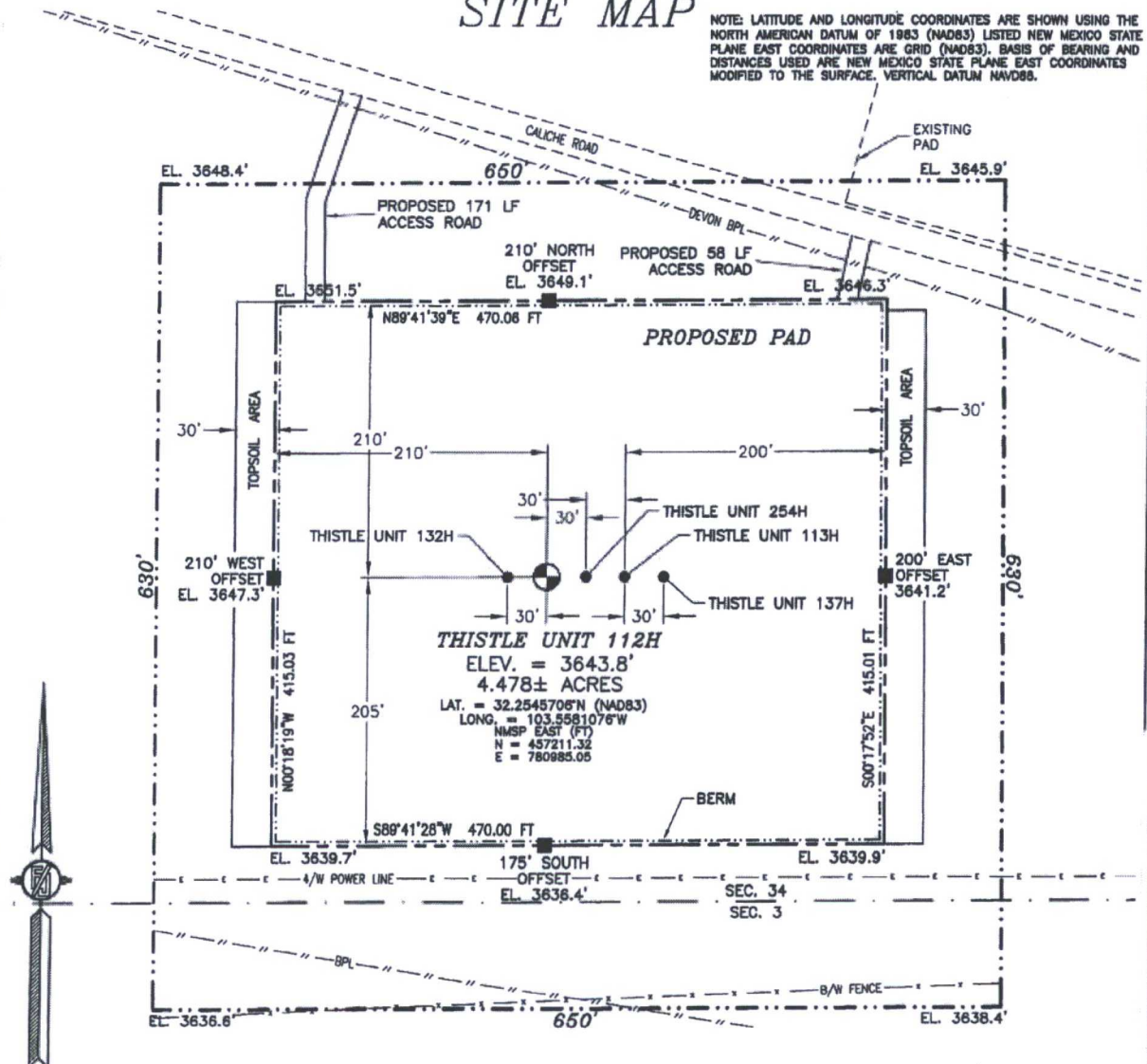
¹² Dedicated Acres 240	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



SECTION 34, TOWNSHIP 23 SOUTH, RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
SITE MAP

NOTE: LATITUDE AND LONGITUDE COORDINATES ARE SHOWN USING THE NORTH AMERICAN DATUM OF 1983 (NAD83) LISTED NEW MEXICO STATE PLANE EAST COORDINATES ARE GRID (NAD83). BASIS OF BEARING AND DISTANCES USED ARE NEW MEXICO STATE PLANE EAST COORDINATES MODIFIED TO THE SURFACE, VERTICAL DATUM NAVD88.



0 12 60 120 240
SCALE 1" = 120'

DIRECTIONS TO LOCATION

FROM STATE HIGHWAY 128 AND CR J2 (BRINNSTOOL) GO NORTH ON CR J2 3.1 MILES, TURN RIGHT ON CALICHE ROAD AND GO EAST 0.44 OF A MILE, BEND LEFT AND GO NORTH 0.1 OF A MILE, BEND RIGHT AND GO SOUTHEAST 0.31 OF A MILE TO A PROPOSED ROAD SURVEY AND FOLLOW FLAGS SOUTH 58' TO THE NORTHEAST PAD CORNER FOR THIS LOCATION.

DEVON ENERGY PRODUCTION COMPANY, L.P.
THISTLE UNIT 112H

LOCATED 248 FT. FROM THE SOUTH LINE
AND 1992 FT. FROM THE EAST LINE OF
SECTION 34, TOWNSHIP 23 SOUTH,
RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

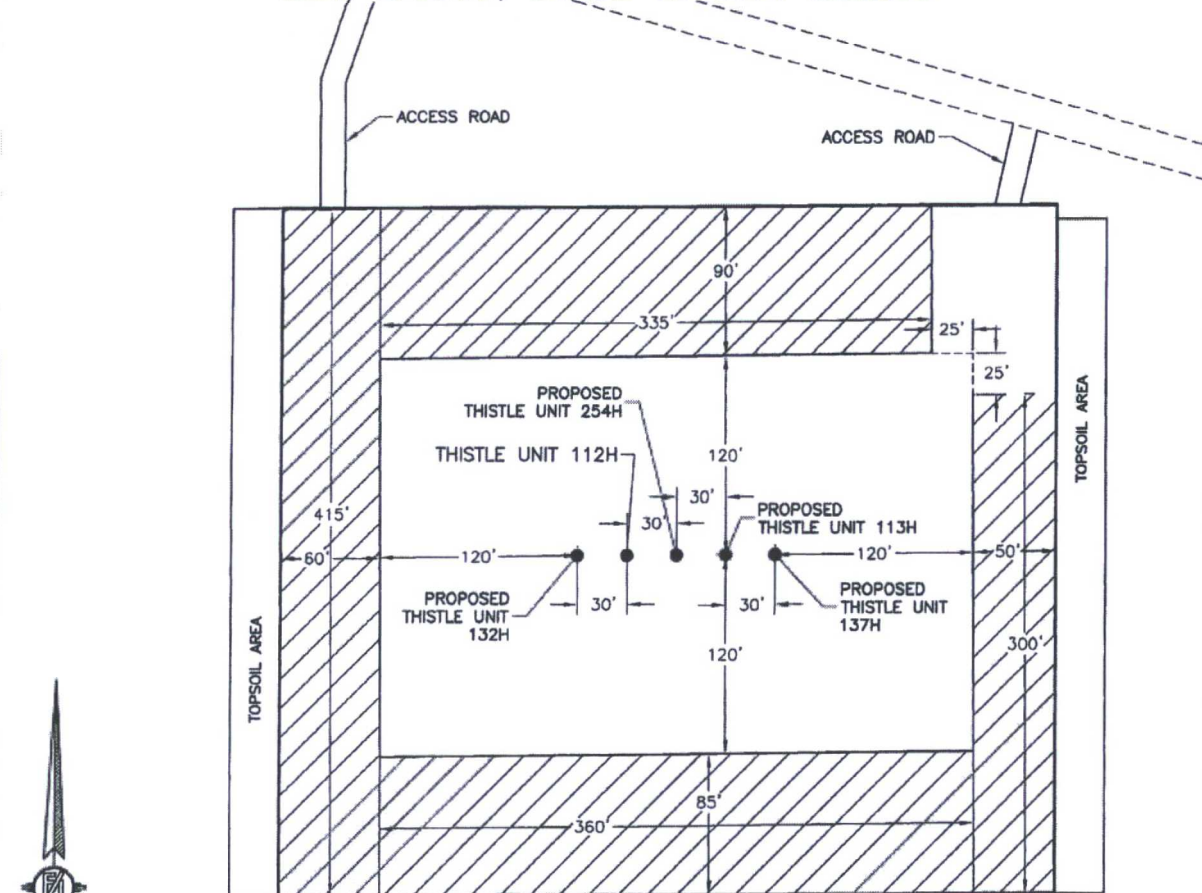
DECEMBER 8, 2016

SURVEY NO. 4705E

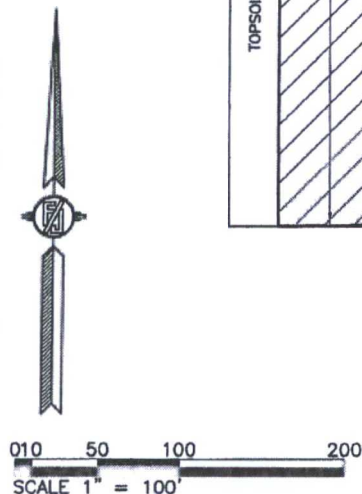
MADRON SURVEYING, INC. 301 SOUTH CANAL
(575) 234-3341

CARLSBAD, NEW MEXICO

**PROPOSED INTERIM SITE RECLAMATION
FOR THISTLE UNIT 112H
SECTION 34, TOWNSHIP 23 SOUTH, RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO**



 DENOTES
RECLAMATION AREA
2.311± ACRES RECLAMATION AREA



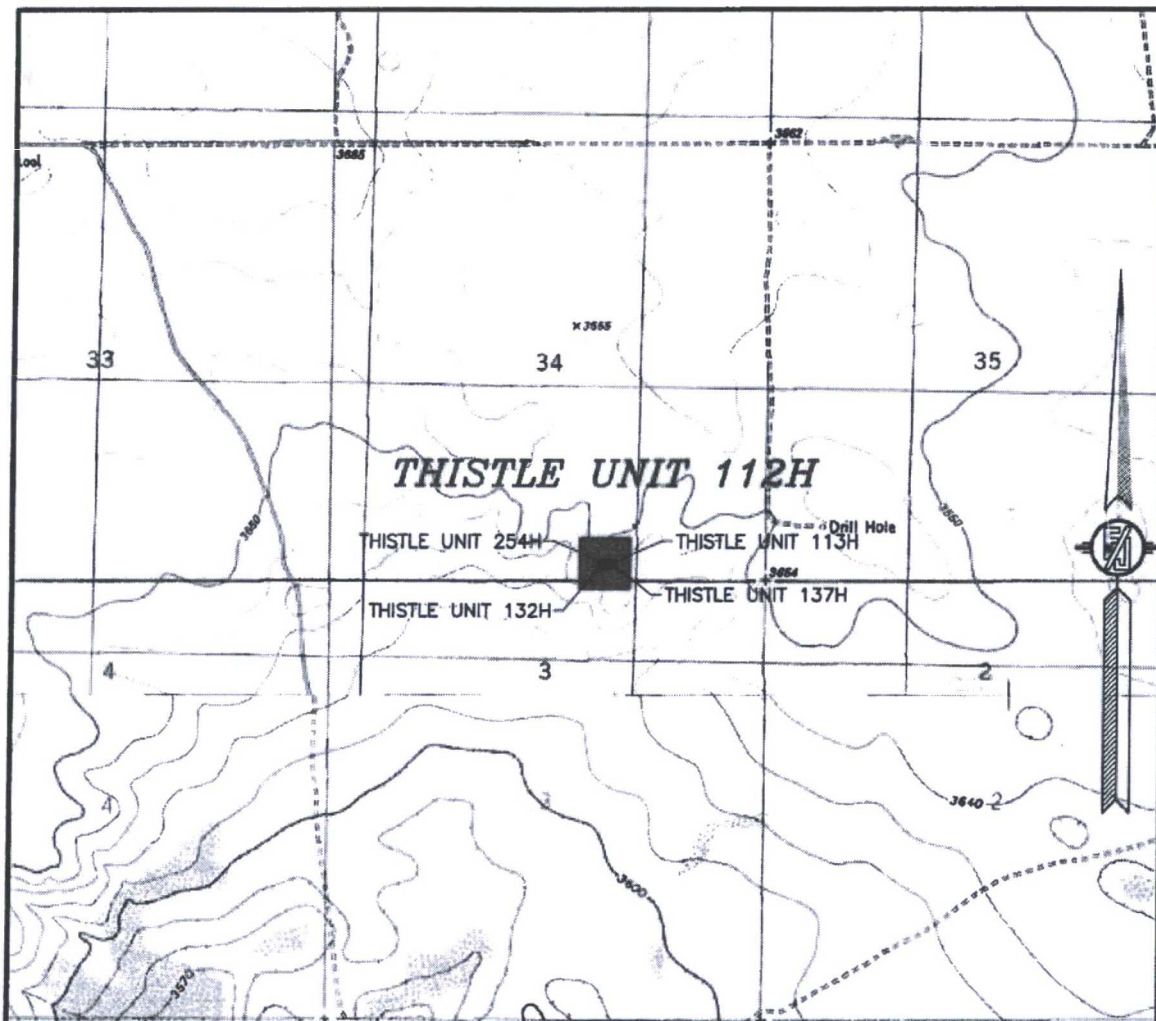
DEVON ENERGY PRODUCTION COMPANY, L.P.
THISTLE UNIT 112H
LOCATED 248 FT. FROM THE SOUTH LINE
AND 1992 FT. FROM THE EAST LINE OF
SECTION 34, TOWNSHIP 23 SOUTH,
RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

DECEMBER 8, 2016

SURVEY NO. 4705E

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

SECTION 34, TOWNSHIP 23 SOUTH, RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
LOCATION VERIFICATION MAP



USGS QUAD MAP:
TIP TOP WELLS

NOT TO SCALE

DEVON ENERGY PRODUCTION COMPANY, L.P.

THISTLE UNIT 112H

LOCATED 248 FT. FROM THE SOUTH LINE
AND 1992 FT. FROM THE EAST LINE OF

SECTION 34, TOWNSHIP 23 SOUTH,
RANGE 33 EAST, N.M.P.M.

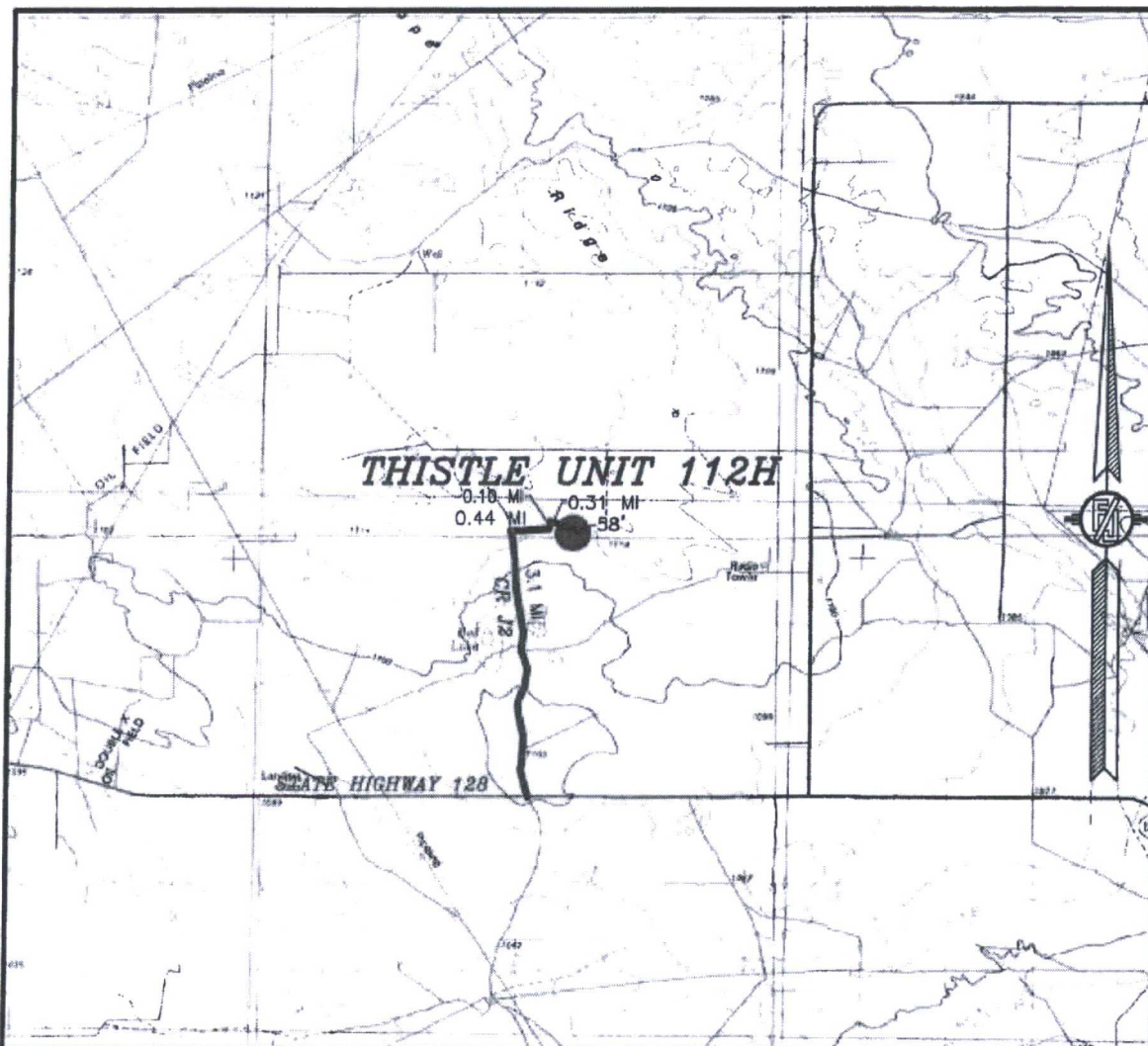
LEA COUNTY, STATE OF NEW MEXICO

DECEMBER 8, 2016

SURVEY NO. 4705E

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

SECTION 34, TOWNSHIP 23 SOUTH, RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
VICINITY MAP



DISTANCES IN MILES

NOT TO SCALE

DEVON ENERGY PRODUCTION COMPANY, L.P.
THISTLE UNIT 112H

LOCATED 248 FT. FROM THE SOUTH LINE
AND 1992 FT. FROM THE EAST LINE OF
SECTION 34, TOWNSHIP 23 SOUTH,
RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

DIRECTIONS TO LOCATION

FROM STATE HIGHWAY 128 AND CR J2 (BRINNSTOOL) GO NORTH ON CR J2 3.1 MILES, TURN RIGHT ON CALICHE ROAD AND GO EAST 0.44 OF A MILE, BEND LEFT AND GO NORTH 0.1 OF A MILE, BEND RIGHT AND GO SOUTHEAST 0.31 OF A MILE TO A PROPOSED ROAD SURVEY AND FOLLOW FLAGS SOUTH 58° TO THE NORTHEAST PAD CORNER FOR THIS LOCATION.

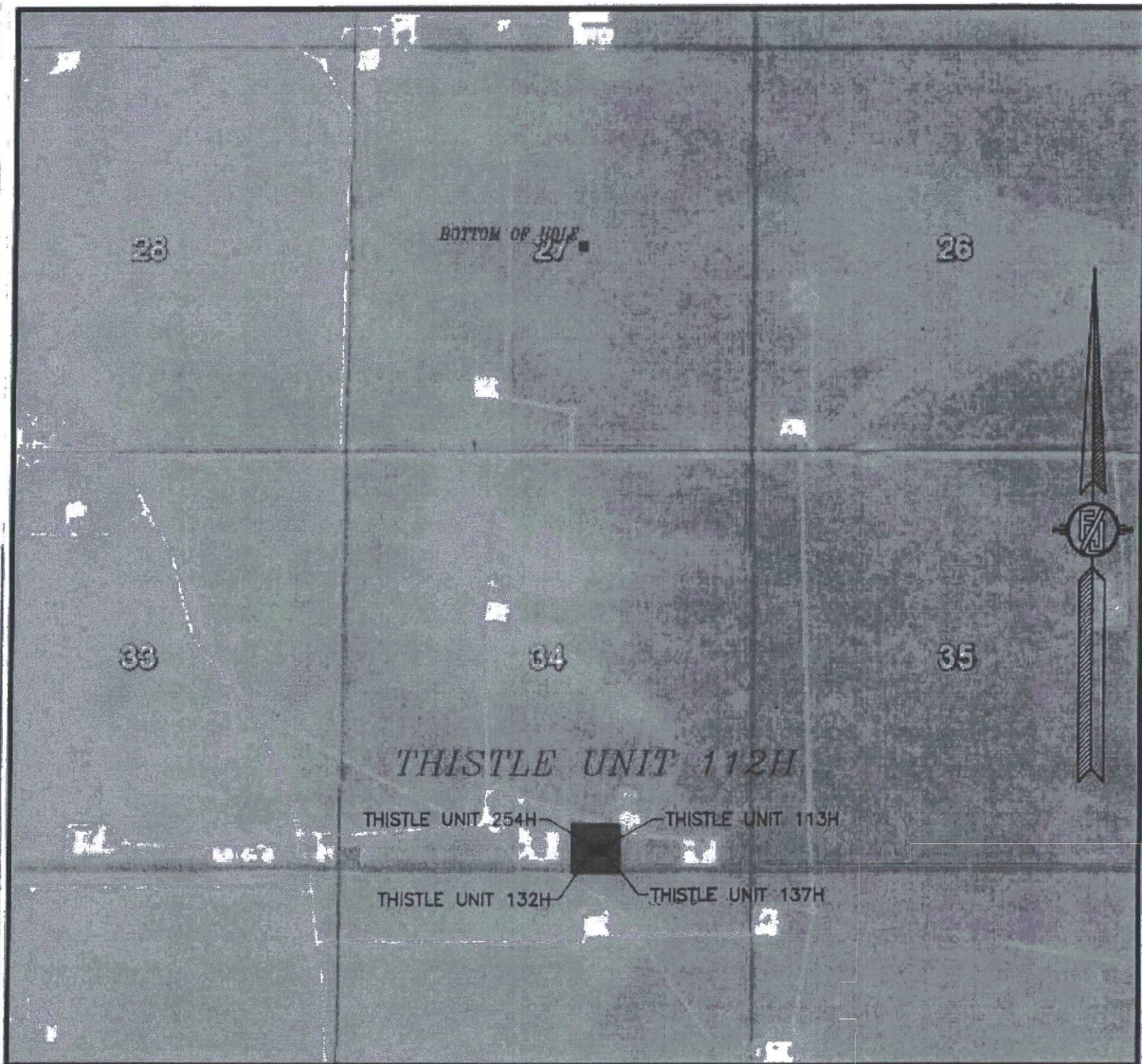
DECEMBER 8, 2016

SURVEY NO. 4705E

MADRON SURVEYING, INC. 301 SOUTH CANAL
(575) 234-3341

CARLSBAD, NEW MEXICO

SECTION 34, 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
FEBRUARY 2014

DEVON ENERGY PRODUCTION COMPANY, L.P.
THISTLE UNIT 112H

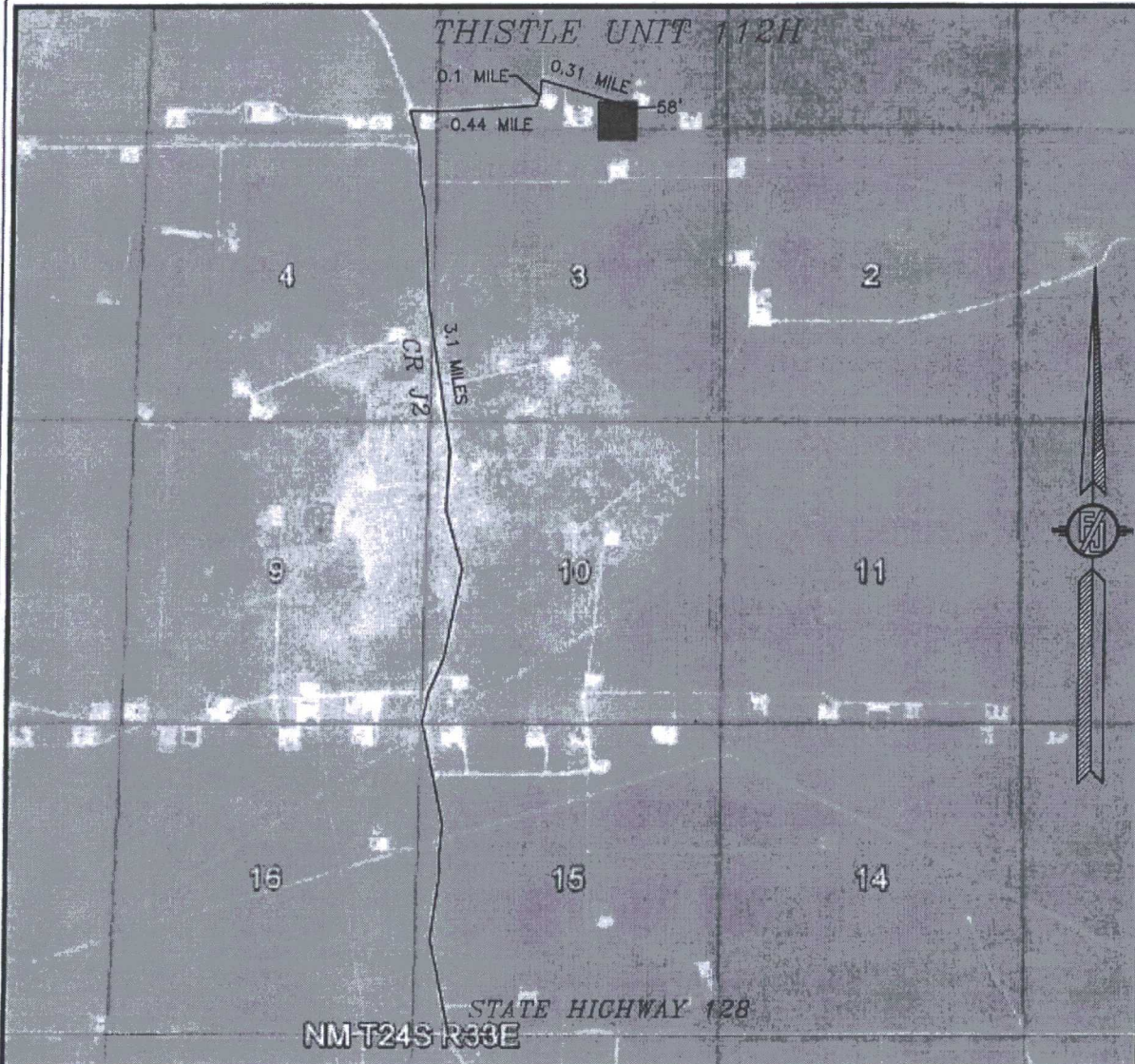
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SECTION 34, TOWNSHIP 23 SOUTH,
RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

DECEMBER 8, 2016

SURVEY NO. 4705E

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

SECTION 34, TOWNSHIP 23 SOUTH, RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
ACCESS AERIAL ROUTE MAP



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
FEBRUARY 2014

DEVON ENERGY PRODUCTION COMPANY, L.P.
THISTLE UNIT 112H
LOCATED 248 FT. FROM THE SOUTH LINE
AND 1992 FT. FROM THE EAST LINE OF
SECTION 34, TOWNSHIP 23 SOUTH,
RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

DECEMBER 8, 2016

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MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO