

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

HOBBS OCD

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

DEC 03 2014

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

RECEIVED

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		5. Lease Serial No. NMNM112941
2. Name of Operator DEVON ENERGY PRODUCTION CO LP Contact: DAVID H COOK Email: david.cook@devn.com		6. If Indian, Allottee or Tribe Name
3a. Address 333 WEST SHERIDAN AVE OKLAHOMA CITY, OK 73102	3b. Phone No. (include area code) Ph: 405-552-7848	7. If Unit or CA/Agreement, Name and/or No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 22 T26S R34E SESE 100FSL 210FEL		8. Well Name and No. MEAN GREEN 22 FED 1H
		9. API Well No. 30-025-41434-00-X1
		10. Field and Pool, or Exploratory WC-025 G06 S263422P
		11. County or Parish, and State LEA COUNTY, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Change to Original A PD
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Devon Energy Production Co., LP respectfully requests approval to change the approved APD as follows:

- Change the BHL from 330 FNL & 330 FEL, Unit A, 22-26S-34E, Lease NMNM112941 to 2310 FSL to 330 FEL, Unit I, 15-26S-34E, Lease NMNM094118.
- Change target TD from 14,042' MD to 16,546' MD.
- Change target formation from Wildcat; Delaware to the Madera Sand; Delaware.
- Change well name from Mean Green 22 Fed 1H to Mean Green 22 Fed Com 1H.

Please see the attached revised C-102, Drilling Plan and Directional Survey.

**SEE ATTACHED FOR
CONDITIONS OF APPROVAL**

14. I hereby certify that the foregoing is true and correct.	
Electronic Submission #283427 verified by the BLM Well Information System For DEVON ENERGY PRODUCTION CO LP, sent to the Hobbs Committed to AFMSS for processing by JENNIFER MASON on 12/01/2014 (15JAM0031SE)	
Name (Printed/Typed) DAVID H COOK	Title REGULATORY SPECIALIST
Signature (Electronic Submission)	Date 12/01/2014
THIS SPACE FOR FEDERAL OR STATE OFFICE USE	
APPROVED DEC 1 2014 BUREAU OF LAND MANAGEMENT CARLSBAD FIELD OFFICE	
Approved By _____	Title _____
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	
Office _____	
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.	

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

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DRILLING PROGRAM

Devon Energy Production Company, L.P.
Mean Green 22 Fed Com 1H

1. **Geologic Name of Surface Formation:** Quaternary
2. **Estimated Tops of Geological Markers & Depths of Anticipated FW, Oil, or Gas:**

a. Fresh Water	180'	
b. Rustler	900'	Barren
c. Top of Salt	1100'	Barren
d. Base of Salt	5100'	Barren
e. Delaware	5321'	Oil / Gas
f. Cherry Canyon	6365'	Oil / Gas
g. Brushy Canyon	7640'	Oil / Gas
h. Madera Sand	8328'	Oil / Gas
Total Depths	9144' TVD	16546' MD

3. Pressure Control Equipment:

A 3M 13-5/8" BOP system (Double Ram and Annular preventer) will be installed and tested prior to drilling out the surface casing shoe. The BOP system used to drill the intermediate hole will be tested per BLM Onshore Oil and Gas Order 2.

A 3M 13-5/8" BOP system (Double Ram and Annular preventer) will be installed and tested prior to drilling out the intermediate casing shoe. The BOP system used to drill the production hole will be tested per BLM Onshore Oil and Gas Order 2.

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.

See
COA

Devon requests a variance to use a flexible line with flanged ends between the BOP and the choke manifold (choke line); **if an H&P rig drills this well. Otherwise no flex line is needed.** The line will be kept as straight as possible with minimal turns.

Auxiliary Well Control and Monitoring Equipment:

- a. A Kelly cock will be in the drill string at all times.
- b. A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor at all times.

4. Casing Program:

Hole Size	Hole Interval	Casing OD	Casing Interval	Weight (lb/ft)	Collar	Grade	Collapse Design Factor	Burst Design Factor	Tension Design Factor
17-1/2"	0 - 930'	13-3/8"	0 - 930'	54.5	BTC	J55	1.21	2.92	8.34
12-1/4"	930-5300'	9-5/8"	0-5300'	40	LTC	J55	1.51	1.25	2.92
8-3/4"	5300'-16546'	5-1/2"	0-16546'	17	BTC	HCP110	1.92	2.74	6.19

Casing Notes:

- All casing is new and API approved

Maximum Lateral TVD: 9264'

5. Proposed mud Circulations System:

Depth	Mud Weight	Viscosity	Fluid Loss	Type System
0-930'	8.4-8.6	30-34	N/C	FW
930-5300'	10.0	28-32	N/C	Brine
5300-16546'	8.6-9.2	28-32	N/C	FW

The necessary mud products for weight addition and fluid loss control will be on location at all times. Visual mud monitoring equipment will be in place to detect volume changes indicating loss or gain of circulating fluid volume. If abnormal pressures are encountered, electronic/mechanical mud monitoring equipment will be installed.

6. Cementing Table:

String	Number of sx	Weight lbs/gal	Water Volume g/sx	Yield cf/sx	Stage; Lead/Tail	Slurry Description
13-3/8" Surface Casing	430	13.5	9.08	1.72	Lead	Class C Cement + 0.125 lbs/sack Poly-E-Flake + 4% bwoc Bentonite + 70.1% Fresh Water
	450	14.8	6.34	1.33	Tail	Class C Cement + 63.5% Fresh Water
9-5/8" Intermediate Casing	1190	12.9	9.82	1.85	Lead	(65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake + 70.9 % Fresh Water
	430	14.8	6.32	1.33	Tail	Class C Cement + 0.125 lbs/sack Poly-E-Flake + 63.5% Fresh Water
5-1/2" Production Casing	240	11.0	14.98	2.66	Lead	Tuned Light Blend + 0.125 lb/sk Pol-E-Flake + 76.3% Fresh Water
	330	12.5	10.81	1.96	Lead #2	(65:35) Class H Cement: Poz (Fly Ash) + 6% BWOC Bentonite + 0.25% BWOC HR-601 + 0.125 lbs/sack Poly-E-Flake + 74.1 % Fresh Water
	1900	14.5	5.32	1.21	Tail	(50:50) Class H Cement: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.25% bwoc CFR-3 + 0.2% bwoc HR-601 + 2% bwoc Bentonite + 58.8% Fresh Water

Plug Length	Plug top	Plug Bottom	% Excess	No. Sacks	Wt. lb/gal	Yld ft3/sack	Water gal/sk	Slurry Description and Cement Type
200'	8626	8826	10	80	15.6	1.2	5.42	Class H + 0.4% BWOC HR-601 + 0.2% Halad-9

A 200' cement plug will be set at these depths and then an openhole whipstock will be set on top of the plug to sidetrack the well.

TOC for all Strings:

Surface @ 0'
Intermediate @ 0'
Production @ 4800'

Notes:

- Cement volumes Surface 100%, Intermediate 75%, Pilot Hole 10% and Production Casing based on at least 25% excess.
- Actual cement volumes will be adjusted based on fluid caliper and caliper log data

verbal given

devon

Mean Green 22 Fed Com
Lea Co, NM

KB-3241
GL-3213

Plan Data for Mean Green 22 Fed Com 1H 5701

Plan Point Information:										
Dogleg Severity Unit: °/100.00ft				Position offsets from Slot centre						
KD	Inc	Az	TVD	+N/-S	+E/-W	Northing	Easting	VSec	DLS	
(USft)	(°)	(°)	(USft)	(USft)	(USft)	(USft)	(USft)	(USft)	(DLSU)	
8611.00	0.88	137.81	8609.97	-20.31	11.28	372818.37	815133.67	-20.31	0.21	
8626.00	1.12	319.01	8624.97	-20.29	11.26	372818.39	815133.65	-20.29	13.33	
8631.00	1.12	319.01	8629.97	-20.22	11.19	372818.46	815133.58	-20.22	0.00	
8994.53	36.20	319.01	8969.03	66.21	-63.91	372904.89	815058.48	66.21	9.65	
9662.24	91.00	0.01	9264.42	607.09	-208.76	373445.77	814913.63	607.09	9.65	
16546.48	91.00	0.01	9144.25	7490.29	-207.04	380328.97	814915.35	7490.29	0.00	

Plan Data for Mean Green 22 Fed Com 1H 5701

Slot: Mean Green 22 Fed Com 1H
Position:
Offset is from Site centre
+N/-S: 0.00USft Northing: 372838.68USft Latitude: 32°1'19.0"
+E/-W: 0.00USft Easting: 815127.99USft Longitude: -103°25'59.7"
Elevation Above VSD: 3213.00USft

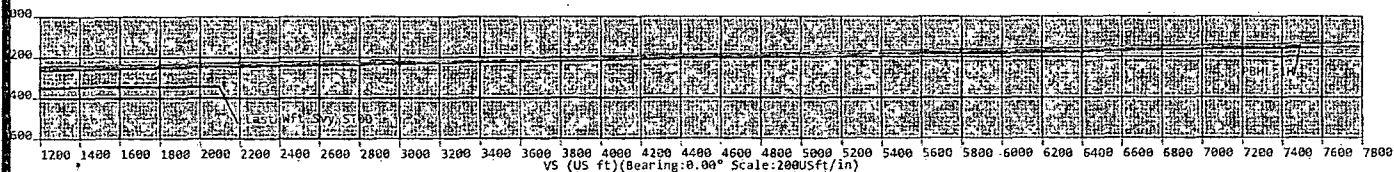
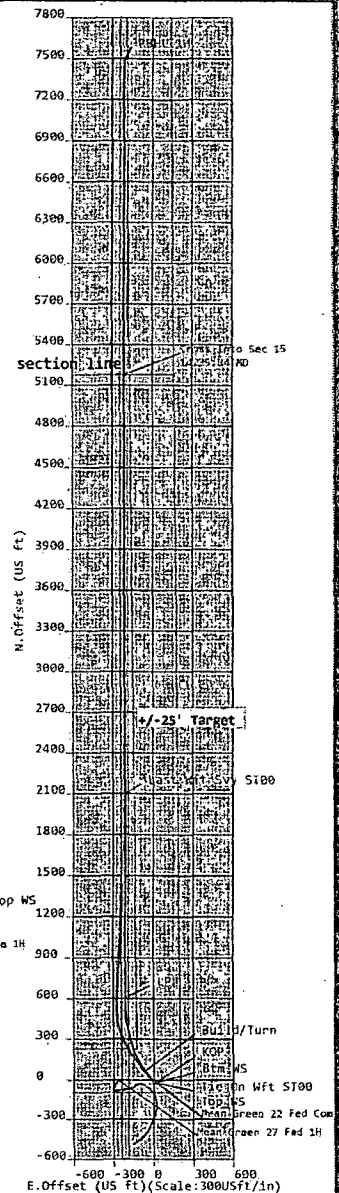
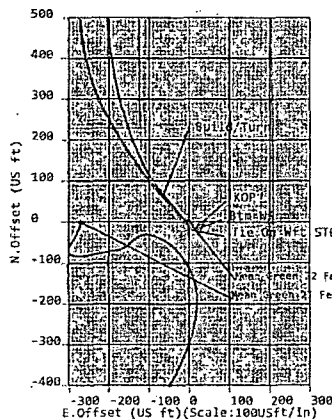
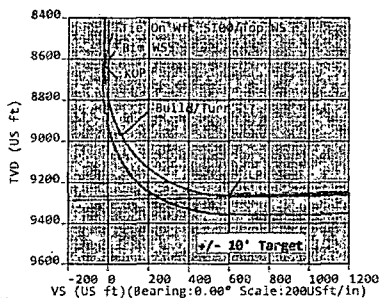
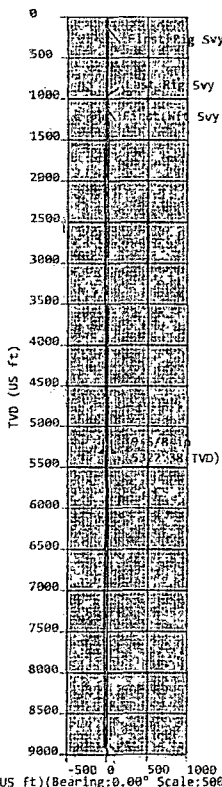
Plan Data for Mean Green 22 Fed Com 1H 5701

Target Set Information:
Name: Mean Green 22 Fed Com 1H
Position offsets from Slot centre
Name TVD +N/-S +E/-W Northing Easting Shape Comment
(USft) (USft) (USft) (USft)
PBL 1H 9144.25 7490.29 -207.04 380328.97 814915.35 Cuboid

Plan Data for Mean Green 22 Fed Com 1H 5701

Well: Mean Green 22 Fed Com 1H 5701
Type: Side-Track
File Number:
Plan Folder: P1 Plan: P1-V1
Vertical Section: Position offset of origin from Slot centre:
+N/-S: 0.00USft Azimuth: 0.00°
+E/-W: 0.00USft
Magnetic Parameters:
Model: Field Strength: Declination: Dip: Date:
GSM 48149(n) 7.28° 59.91° 2014-11-15

Mean Green 22 Fed Com 1H 5701
Mean Green 27 Fed 1H
Mean Green 22 Fed Com 1H



Sign Off: Russell Joyner

5D Plan Report

Devon Energy

Field Name: *Lea Co, NM Nad 83 NMEZ*

Site Name: *Mean Green 22,27 Fed Com 1H Pad*

Well Name: *Mean Green 22 Fed Com 1H ST01*

Plan: *P1:V1*

06 November 2014



Weatherford®

Mean Green 22 Fed Com 1H ST01

Field Name Mean Green 22 Fed Com 1H ST01	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 Name Mean Green 22, 27 Fed Com 1H Pad	Units : US ft	North Reference : Grid	Convergence Angle : 0.47	
	Position	Northing : 372838.68 US ft	Latitude : 32° 1' 18.97"	
		Easting : 815122.39 US ft	Longitude : -103° 26' 59.74"	
Elevation above Mean Sea Level: 3213.00 US ft				
Comment :				
Slot Name Mean Green 22 Fed Com 1H	Position (Offsets relative to Site Centre)			
	+N / -S : 0.00 US ft	Northing : 372838.68 US ft	Latitude : 32° 1' 18.97"	
	+E / -W : 0.00 US ft	Easting : 815122.39 US ft	Longitude : -103° 26' 59.74"	
Slot TVD Reference : Ground Elevation				
Elevation above Mean Sea Level : 3213.00 US ft				
Comment :				
Well Name Mean Green 22 Fed Com 1H ST01	Type : Sidetrack		UWI :	Plan : P1:V1
	Parent : Mean Green 22 Fed Com 1H ST00		Tie Point Method : MD	Tie Point : 8611.00 US ft
	Rig Height : Kelly Bushing : 28.00 US ft		Comment :	
	Relative to Mean Sea Level: 3241.00 US ft			
	Closure Distance : 7493.15 US ft		Closure Azimuth : 358.417°	
	Vertical Section (Position of Origin Relative to Slot)			
	+N / -S : 0.00 US ft		+E / -W : 0.00 US ft	Az : 0.00°
	Magnetic Parameters			
	Model : BGGM	Field Strength : 48149.0nT	Dec : 7.26°	Dip : 59.93°
	Date : 15/Nov/2014			

Target Set

Name : Mean Green 22 Fed Com 1H
Number of Targets : 2

Comment :

Target Name: PEHL 1H Shape: Cuboid	Position (Relative to Slot centre)		
	+N / -S : 7490.29 US ft	Northing : 380328.97 US ft	Latitude : 32° 2' 33.11"
	+E / -W : -207.04 US ft	Easting : 814915.35 US ft	Longitude : -103° 27' 1.43"
TVD (Kelly Bushing) : 9144.25 US ft			
Orientation Azimuth : 0.03°		Inclination : 1.00°	
Dimensions Length : 13834.00 US ft		Breadth : 50.00 US ft	Height : 20.00 US ft

5D Plan Report

Target Name:	Position (Relative to Slot centre)			
LP:	+N / -S : 607.09 US ft	Northing : 373445.77 US ft	Latitude : 32°1'25.00"	
Shape:	+E / -W : 208.76 US ft	Easting : 814913.63 US ft	Longitude : -103°27'2.11"	
Cuboid:	TVD (Kelly Bushing) : 9264.42 US ft			
	Orientation Azimuth : 0.00°	Inclination : 1.00°		
	Dimensions Length : 2400.00 US ft	Breadth : 50.00 US ft	Height : 20.00 US ft	

Wellpath created using minimum curvature

Salient Points (Relative to Slot centre, TVD relative to Kelly Bushing)											Comment
ID (US ft)	Inc (°)	Az (°)	TVD (US ft)	North (US ft)	East (US ft)	VS (US ft)	DL (P/100 US ft)	Rate P/100 US ft	Rate P/100 US ft	Rate (°)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
147.00	0.80	46.88	147.00	0.70	0.75	0.70	0.54	0.54	0.00	46.88	First Rig Svy
274.00	0.60	94.25	273.99	1.26	2.06	1.26	0.47	-0.16	37.30	131.72	
329.00	0.79	95.49	328.98	1.20	2.72	1.20	0.35	0.35	2.25	5.15	
419.00	0.70	108.19	418.98	0.97	3.86	0.97	0.21	-0.10	14.11	124.84	
509.00	0.70	133.06	508.97	0.42	4.79	0.42	0.33	0.00	27.63	102.43	
597.00	0.88	129.06	596.96	-0.37	5.71	-0.37	0.21	0.20	-4.55	340.96	
692.00	1.19	144.88	691.94	-1.64	6.84	-1.64	0.44	0.33	16.65	50.76	
814.00	1.00	136.27	813.92	-3.44	8.30	-3.44	0.21	-0.16	-7.06	216.64	
904.00	1.01	168.79	903.91	-4.79	9.00	-4.79	0.63	0.01	36.13	105.28	
955.00	1.11	168.65	954.90	-5.71	9.19	-5.71	0.20	0.20	-0.27	358.45	Last Rig Svy
1139.00	0.74	172.35	1138.88	-8.64	9.69	-8.64	0.20	-0.20	2.01	172.68	First Wft Svy
1233.00	0.63	182.22	1232.87	-9.76	9.76	-9.76	0.17	-0.12	10.50	137.85	
1328.00	0.51	188.74	1327.86	-10.70	9.67	-10.70	0.14	-0.13	6.86	154.84	
1422.00	0.43	192.23	1421.86	-11.45	9.53	-11.45	0.09	-0.09	3.71	162.05	
1517.00	0.40	194.42	1516.86	-12.12	9.37	-12.12	0.04	-0.03	2.31	153.22	
1612.00	0.40	189.65	1611.86	-12.77	9.24	-12.77	0.04	0.00	-5.02	267.62	
1706.00	0.55	173.02	1705.85	-13.54	9.24	-13.54	0.22	0.16	-17.69	308.90	
1801.00	0.35	164.36	1800.85	-14.28	9.37	-14.28	0.22	-0.21	-9.12	194.49	
1896.00	0.36	162.51	1895.85	-14.84	9.54	-14.84	0.02	0.01	-1.95	310.17	
1990.00	0.43	153.32	1989.85	-15.44	9.78	-15.44	0.10	0.07	-9.78	313.20	
2085.00	0.49	147.44	2084.84	-16.10	10.16	-16.10	0.08	0.06	-6.19	318.84	
2180.00	0.56	130.39	2179.84	-16.74	10.74	-16.74	0.18	0.07	-17.95	285.45	
2274.00	0.69	124.47	2273.83	-17.36	11.55	-17.36	0.15	0.14	-6.30	330.60	
2368.00	0.88	111.34	2367.83	-17.94	12.69	-17.94	0.28	0.20	-13.97	309.88	
2463.00	1.04	98.81	2462.81	-18.34	14.22	-18.34	0.28	0.17	-13.19	300.94	
2558.00	1.38	89.53	2557.79	-18.46	16.22	-18.46	0.41	0.36	-9.77	325.35	
2653.00	1.48	85.26	2652.76	-18.35	18.59	-18.35	0.15	0.11	-4.49	311.03	
2747.00	0.82	91.12	2746.74	-18.26	20.47	-18.26	0.71	-0.70	6.23	172.82	
2841.00	0.60	104.93	2840.73	-18.40	21.62	-18.40	0.29	-0.23	14.69	148.89	
2936.00	0.63	92.51	2935.73	-18.55	22.62	-18.55	0.14	0.03	-13.07	276.42	
3030.00	0.85	94.37	3029.72	-18.63	23.83	-18.63	0.24	0.23	1.98	7.16	
3125.00	1.15	91.70	3124.71	-18.71	25.48	-18.71	0.32	0.32	-2.81	349.83	
3219.00	1.61	81.66	3218.68	-18.55	27.73	-18.55	0.55	0.49	-10.68	327.19	
3314.00	1.41	73.17	3313.65	-18.02	30.17	-18.02	0.32	-0.21	-8.94	224.01	
3409.00	0.69	14.12	3408.63	-17.12	31.43	-17.12	1.27	-0.76	-62.16	209.29	
3503.00	1.06	6.54	3502.62	-15.71	31.67	-15.71	0.41	0.39	-8.06	338.81	
3598.00	1.09	28.21	3597.60	-14.04	32.20	-14.04	0.43	0.03	22.81	96.66	
3693.00	1.44	12.16	3692.58	-12.08	32.87	-12.08	0.52	0.37	-16.89	306.44	
3788.00	0.66	7.47	3787.57	-10.37	33.20	-10.37	0.83	-0.82	-4.94	183.95	
3882.00	0.42	353.06	3881.56	-9.49	33.23	-9.49	0.29	-0.26	-15.33	202.43	
3977.00	0.85	29.92	3976.56	-8.53	33.54	-8.53	0.60	0.45	38.80	62.97	

SD Plan Report

Salient Points (Relative to Slot centre, TWD relative to Kelly Bushing)											
WD (US-ft)	Inc (°)	Δ (ft)	TWD (US-ft)	Offset (US-ft)	Correct (US-ft)	Vs (US-ft)	DLS (ft/100 US-ft)	GRAB (ft/100 US-ft)	GRAB (ft/100 US-ft)	HS-EC (ft)	Comments
4072.00	0.70	355.00	4071.55	-7.34	33.84	-7.34	0.51	-0.16	-36.76	235.44	
4166.00	1.01	265.78	4165.54	-6.83	32.96	-6.83	1.30	0.33	-94.91	235.81	
4261.00	1.21	264.35	4260.52	-6.99	31.13	-6.99	0.21	0.21	-1.51	351.40	
4355.00	0.95	265.04	4354.51	-7.16	29.36	-7.16	0.28	-0.28	0.73	177.48	
4450.00	0.97	275.29	4449.49	-7.15	27.78	-7.15	0.18	0.02	10.79	88.50	
4544.00	0.64	281.26	4543.48	-6.98	26.47	-6.98	0.36	-0.35	6.35	168.71	
4639.00	0.42	336.94	4638.48	-6.55	25.81	-6.55	0.56	-0.23	58.61	139.29	
4734.00	0.30	43.05	4733.48	-6.05	25.85	-6.05	0.43	-0.13	69.59	137.42	
4828.00	0.49	64.25	4827.48	-5.70	26.38	-5.70	0.25	0.20	22.55	48.49	
4923.00	0.66	80.18	4922.47	-5.43	27.28	-5.43	0.24	0.18	16.77	51.39	
5017.00	1.07	92.10	5016.46	-5.37	28.69	-5.37	0.47	0.44	12.68	29.73	
5112.00	1.37	94.15	5111.44	-5.48	30.71	-5.48	0.32	0.32	2.16	9.30	
5206.00	1.34	90.26	5205.41	-5.57	32.93	-5.57	0.10	-0.03	-4.14	250.00	
5226.00	1.35	90.14	5225.41	-5.57	33.40	-5.57	0.05	0.05	-0.60	344.21	
5394.00	1.12	84.11	5393.37	-5.41	37.01	-5.41	0.16	-0.14	-3.59	206.48	
5488.00	0.35	193.40	5487.36	-5.59	37.86	-5.59	1.36	-0.82	116.27	165.03	
5583.00	0.71	200.85	5582.36	-6.42	37.58	-6.42	0.39	0.38	7.84	14.58	
5678.00	0.59	180.07	5677.35	-7.46	37.37	-7.46	0.28	-0.13	-21.87	232.89	
5773.00	1.14	246.11	5772.34	-8.33	36.51	-8.33	1.10	0.58	69.52	96.95	
5867.00	1.33	244.17	5866.32	-9.19	34.67	-9.19	0.21	0.20	-2.06	346.62	
5962.00	1.23	239.73	5961.30	-10.18	32.80	-10.18	0.15	-0.11	-4.67	222.56	
6057.00	1.29	244.51	6056.27	-11.16	30.95	-11.16	0.13	0.06	5.03	62.68	
6151.00	1.14	245.91	6150.25	-11.99	29.14	-11.99	0.16	-0.16	1.49	169.50	
6246.00	1.12	238.74	6245.23	-12.86	27.49	-12.86	0.15	-0.02	-7.55	258.38	
6340.00	1.19	239.79	6339.21	-13.83	25.86	-13.83	0.08	0.07	1.12	17.35	
6435.00	1.16	232.21	6434.19	-14.91	24.25	-14.91	0.17	-0.03	-7.98	255.30	
6530.00	1.07	239.83	6529.18	-15.95	22.72	-15.95	0.18	-0.09	8.02	125.03	
6624.00	1.19	243.22	6623.16	-16.83	21.09	-16.83	0.15	0.13	3.61	30.82	
6719.00	1.28	239.57	6718.14	-17.81	19.29	-17.81	0.13	0.09	-3.84	317.01	
6813.00	1.22	244.34	6812.11	-18.78	17.49	-18.78	0.13	-0.06	5.07	122.34	
6908.00	1.19	237.17	6907.09	-19.75	15.75	-19.75	0.16	-0.03	-7.55	255.18	
7002.00	1.29	237.13	7001.07	-20.85	14.04	-20.85	0.11	0.11	-0.04	359.48	
7097.00	0.56	293.38	7096.06	-21.25	12.71	-21.25	1.14	-0.77	59.21	154.56	
7191.00	0.41	304.92	7190.06	-20.88	12.02	-20.88	0.19	-0.16	12.28	152.61	
7286.00	0.55	322.99	7285.05	-20.32	11.46	-20.32	0.22	0.15	19.02	56.51	
7381.00	0.45	299.52	7380.05	-19.77	10.86	-19.77	0.24	-0.11	-24.71	232.56	
7475.00	0.41	264.44	7474.05	-19.62	10.21	-19.62	0.28	-0.04	-37.32	244.09	
7570.00	0.91	356.55	7569.04	-18.90	9.82	-18.90	1.07	0.53	96.96	116.00	
7665.00	0.90	0.34	7664.03	-17.40	9.78	-17.40	0.06	-0.01	3.99	101.38	
7759.00	0.63	359.81	7758.02	-16.14	9.79	-16.14	0.29	-0.29	-0.56	181.24	
7854.00	0.56	356.65	7853.02	-15.16	9.76	-15.16	0.08	-0.07	-3.33	203.54	
7949.00	0.38	318.72	7948.01	-14.46	9.52	-14.46	0.37	-0.19	-39.93	221.91	
8043.00	0.38	224.71	8042.01	-14.45	9.10	-14.45	0.59	0.00	-100.01	223.00	
8138.00	0.50	190.53	8137.01	-15.08	8.80	-15.08	0.30	0.13	-35.98	276.83	
8232.00	0.56	164.86	8231.01	-15.92	8.84	-15.92	0.26	0.06	-27.31	271.12	
8327.00	0.75	156.60	8326.00	-16.94	9.21	-16.94	0.22	0.20	-8.69	329.40	
8422.00	0.72	147.87	8420.99	-18.02	9.78	-18.02	0.12	-0.03	-9.19	250.67	
8516.00	0.87	150.96	8514.98	-19.14	10.44	-19.14	0.17	0.16	3.29	17.50	
8611.00	0.88	137.81	8609.97	-20.31	11.28	-20.31	0.21	0.01	-13.84	266.26	Tie On Wrt ST00/Top WS
8626.00	1.12	319.01	8624.97	-20.29	11.26	-20.29	13.33	1.60	-1192.02	180.67	Btm WS
8631.00	1.12	319.01	8629.97	-20.22	11.19	-20.22	0.00	0.00	0.00	0.00	KOP
8994.53	36.20	319.01	8969.03	66.21	-63.91	66.21	9.65	9.65	0.00	0.00	Build/Turn
9662.24	91.00	0.01	9264.42	607.09	-208.76	607.09	9.65	8.21	6.14	46.65	LP
14235.84	91.00	0.01	9184.58	5180.00	-207.62	5180.00	0.00	0.00	0.00	0.00	Cross Into Sec 15 (14235.84' MD)
16546.48	91.00	0.01	9144.25	7490.29	-207.04	7490.29	0.00	0.00	0.00	0.00	PBHL 1H

5D Plan Report

Interpolated Points (Relative to Slot centre, TWD relative to Kelly Bushing)										
ID (US\$)	Inc (°)	Az (°)	TWD (US\$)	N Offset (US\$)	E Offset (US\$)	VS (US\$)	OLS FA00(US\$)	Northing (US\$)	Easting (US\$)	Comment
8600.00	0.88	139.31	8598.97	-20.19	11.17	-20.19	0.00	372818.49	815133.56	
8611.00	0.88	137.81	8609.97	-20.31	11.28	-20.31	0.21	372818.37	815133.67	Tie On Wft ST00/Top WS
8626.00	1.12	319.01	8624.97	-20.29	11.26	-20.29	13.33	372818.39	815133.65	Btm WS
8631.00	1.12	319.01	8629.97	-20.22	11.19	-20.22	0.00	372818.46	815133.58	KOP
8700.00	7.78	319.01	8698.72	-16.18	7.69	-16.18	9.65	372822.50	815130.08	
8800.00	17.43	319.01	8796.20	0.27	-6.61	0.27	9.65	372838.95	815115.78	
8900.00	27.08	319.01	8888.64	28.82	-31.42	28.82	9.65	372867.50	815090.97	
8994.53	36.20	319.01	8969.03	66.21	-63.91	66.21	9.65	372904.89	815058.48	Build/Turn
9000.00	36.56	319.65	8973.44	68.68	-66.03	68.68	9.65	372907.36	815056.36	
9100.00	43.73	329.72	9049.91	121.35	-102.82	121.35	9.65	372960.03	815019.57	
9200.00	51.57	337.36	9117.28	187.50	-135.40	187.50	9.65	373026.18	814986.99	
9300.00	59.80	343.47	9173.65	265.27	-162.83	265.27	9.65	373103.95	814959.56	
9400.00	68.27	348.61	9217.41	352.43	-184.35	352.43	9.65	373191.11	814938.04	
9500.00	76.89	353.18	9247.33	446.54	-199.34	446.54	9.65	373285.22	814923.05	
9600.00	85.58	357.43	9262.56	544.93	-207.37	544.93	9.65	373383.61	814915.02	
9662.24	91.00	0.01	9264.42	607.09	-208.76	607.09	9.65	373445.77	814913.63	LP
9700.00	91.00	0.01	9263.76	644.85	-208.75	644.85	0.00	373483.53	814913.64	
9800.00	91.00	0.01	9262.02	744.84	-208.72	744.84	0.00	373583.52	814913.67	
9900.00	91.00	0.01	9260.27	844.82	-208.70	844.82	0.00	373683.50	814913.69	
10000.00	91.00	0.01	9258.52	944.81	-208.67	944.81	0.00	373783.49	814913.72	
10100.00	91.00	0.01	9256.78	1044.79	-208.65	1044.79	0.00	373883.47	814913.74	
10200.00	91.00	0.01	9255.03	1144.77	-208.62	1144.77	0.00	373983.45	814913.77	
10300.00	91.00	0.01	9253.29	1244.76	-208.60	1244.76	0.00	374083.44	814913.79	
10400.00	91.00	0.01	9251.54	1344.74	-208.57	1344.74	0.00	374183.42	814913.82	
10500.00	91.00	0.01	9249.80	1444.73	-208.55	1444.73	0.00	374283.41	814913.84	
10600.00	91.00	0.01	9248.05	1544.71	-208.52	1544.71	0.00	374383.39	814913.87	
10700.00	91.00	0.01	9246.31	1644.70	-208.50	1644.70	0.00	374483.38	814913.89	
10800.00	91.00	0.01	9244.56	1744.68	-208.47	1744.68	0.00	374583.36	814913.92	
10900.00	91.00	0.01	9242.81	1844.67	-208.45	1844.67	0.00	374683.35	814913.94	
11000.00	91.00	0.01	9241.07	1944.65	-208.42	1944.65	0.00	374783.33	814913.97	
11100.00	91.00	0.01	9239.32	2044.64	-208.40	2044.64	0.00	374883.32	814913.99	
11200.00	91.00	0.01	9237.58	2144.62	-208.37	2144.62	0.00	374983.30	814914.02	
11300.00	91.00	0.01	9235.83	2244.61	-208.35	2244.61	0.00	375083.29	814914.04	
11400.00	91.00	0.01	9234.09	2344.59	-208.32	2344.59	0.00	375183.27	814914.07	
11500.00	91.00	0.01	9232.34	2444.58	-208.30	2444.58	0.00	375283.26	814914.09	
11600.00	91.00	0.01	9230.60	2544.56	-208.27	2544.56	0.00	375383.24	814914.12	
11700.00	91.00	0.01	9228.85	2644.55	-208.25	2644.55	0.00	375483.23	814914.14	
11800.00	91.00	0.01	9227.10	2744.53	-208.22	2744.53	0.00	375583.21	814914.17	
11900.00	91.00	0.01	9225.36	2844.52	-208.20	2844.52	0.00	375683.20	814914.19	
12000.00	91.00	0.01	9223.61	2944.50	-208.17	2944.50	0.00	375783.18	814914.22	
12100.00	91.00	0.01	9221.87	3044.49	-208.15	3044.49	0.00	375883.17	814914.24	
12200.00	91.00	0.01	9220.12	3144.47	-208.12	3144.47	0.00	375983.15	814914.27	
12300.00	91.00	0.01	9218.38	3244.45	-208.10	3244.45	0.00	376083.13	814914.29	
12400.00	91.00	0.01	9216.63	3344.44	-208.07	3344.44	0.00	376183.12	814914.32	
12500.00	91.00	0.01	9214.88	3444.42	-208.05	3444.42	0.00	376283.10	814914.34	
12600.00	91.00	0.01	9213.14	3544.41	-208.02	3544.41	0.00	376383.09	814914.37	
12700.00	91.00	0.01	9211.39	3644.39	-208.00	3644.39	0.00	376483.07	814914.39	
12800.00	91.00	0.01	9209.65	3744.38	-207.97	3744.38	0.00	376583.06	814914.42	
12900.00	91.00	0.01	9207.90	3844.36	-207.95	3844.36	0.00	376683.04	814914.44	
13000.00	91.00	0.01	9206.16	3944.35	-207.92	3944.35	0.00	376783.03	814914.47	
13100.00	91.00	0.01	9204.41	4044.33	-207.90	4044.33	0.00	376883.01	814914.49	
13200.00	91.00	0.01	9202.67	4144.32	-207.87	4144.32	0.00	376983.00	814914.52	
13300.00	91.00	0.01	9200.92	4244.30	-207.85	4244.30	0.00	377082.98	814914.54	
13400.00	91.00	0.01	9199.17	4344.29	-207.82	4344.29	0.00	377182.97	814914.57	
13500.00	91.00	0.01	9197.43	4444.27	-207.80	4444.27	0.00	377282.95	814914.59	
13600.00	91.00	0.01	9195.68	4544.26	-207.78	4544.26	0.00	377382.94	814914.61	
13700.00	91.00	0.01	9193.94	4644.24	-207.75	4644.24	0.00	377482.92	814914.64	

SD Plan Report

Interpolated Points (Relative to Slot centre, NVD relative to Kelly Bushings)										
ID (USd)	Inc (°)	Az (°)	NVD (USd)	N Offset (USd)	E Offset (USd)	VS (USd)	CLS (°/100 USd)	Northing (USd)	Easting (USd)	Comment
13800.00	91.00	0.01	9192.19	4744.23	-207.73	4744.23	0.00	377582.91	814914.66	
13900.00	91.00	0.01	9190.45	4844.21	-207.70	4844.21	0.00	377682.89	814914.69	
14000.00	91.00	0.01	9188.70	4944.20	-207.68	4944.20	0.00	377782.88	814914.71	
14100.00	91.00	0.01	9186.96	5044.18	-207.65	5044.18	0.00	377882.86	814914.74	
14200.00	91.00	0.01	9185.21	5144.17	-207.63	5144.17	0.00	377982.85	814914.76	
14235.84	91.00	0.01	9184.58	5180.00	-207.62	5180.00	0.00	378018.68	814914.77	Cross Into Sec 15 (14235.84°M 0)
14300.00	91.00	0.01	9183.46	5244.15	-207.60	5244.15	0.00	378082.83	814914.79	
14400.00	91.00	0.01	9181.72	5344.13	-207.58	5344.13	0.00	378182.81	814914.81	
14500.00	91.00	0.01	9179.97	5444.12	-207.55	5444.12	0.00	378282.80	814914.84	
14600.00	91.00	0.01	9178.23	5544.10	-207.53	5544.10	0.00	378382.78	814914.86	
14700.00	91.00	0.01	9176.48	5644.09	-207.50	5644.09	0.00	378482.77	814914.89	
14800.00	91.00	0.01	9174.74	5744.07	-207.48	5744.07	0.00	378582.75	814914.91	
14900.00	91.00	0.01	9172.99	5844.06	-207.45	5844.06	0.00	378682.74	814914.94	
15000.00	91.00	0.01	9171.25	5944.04	-207.43	5944.04	0.00	378782.72	814914.96	
15100.00	91.00	0.01	9169.50	6044.03	-207.40	6044.03	0.00	378882.71	814914.99	
15200.00	91.00	0.01	9167.75	6144.01	-207.38	6144.01	0.00	378982.69	814915.01	
15300.00	91.00	0.01	9166.01	6244.00	-207.35	6244.00	0.00	379082.68	814915.04	
15400.00	91.00	0.01	9164.26	6343.98	-207.33	6343.98	0.00	379182.66	814915.06	
15500.00	91.00	0.01	9162.52	6443.97	-207.30	6443.97	0.00	379282.65	814915.09	
15600.00	91.00	0.01	9160.77	6543.95	-207.28	6543.95	0.00	379382.63	814915.11	
15700.00	91.00	0.01	9159.03	6643.94	-207.25	6643.94	0.00	379482.62	814915.14	
15800.00	91.00	0.01	9157.28	6743.92	-207.23	6743.92	0.00	379582.60	814915.16	
15900.00	91.00	0.01	9155.53	6843.91	-207.20	6843.91	0.00	379682.59	814915.19	
16000.00	91.00	0.01	9153.79	6943.89	-207.18	6943.89	0.00	379782.57	814915.21	
16100.00	91.00	0.01	9152.04	7043.88	-207.15	7043.88	0.00	379882.56	814915.24	
16200.00	91.00	0.01	9150.30	7143.86	-207.13	7143.86	0.00	379982.54	814915.26	
16300.00	91.00	0.01	9148.55	7243.84	-207.10	7243.84	0.00	380082.52	814915.29	
16400.00	91.00	0.01	9146.81	7343.83	-207.08	7343.83	0.00	380182.51	814915.31	
16500.00	91.00	0.01	9145.06	7443.81	-207.05	7443.81	0.00	380282.49	814915.34	
16546.48	91.00	0.01	9144.25	7490.29	-207.04	7490.29	0.00	380328.97	814915.35	PBHL 1H

5D Anti-Collision Report

Devon Energy

Field Name: *Lea Co, NM Nad 83 NMEZ*

Site Name: *Mean Green 22,27 Fed Com 1H Pad*

Well Name: *Mean Green 22 Fed Com 1H ST01*

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Mean Green 22 Fed Com 1H ST01

Field Name Lea Co. NM N40 88 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 Name Mean Green 22,27 Fed Com 1H Pad	Units : US ft	North Reference : Grid	Convergence Angle : 0.47
	Position	Northing : 372838.68 US ft	Latitude : 32° 1' 18.97"
		Easting : 815122.39 US ft	Longitude : -103° 26' 59.74"
Elevation above Mean Sea Level: 3213.00 US ft		Comment :	
Slot Name Mean Green 22 Fed Com 1H	Position (Offsets relative to Site Centre)		
	+N / -S : 0.00 US ft Northing : 372838.68 US ft Latitude : 32° 1' 18.97"		
	+E / -W : 0.00 US ft Easting : 815122.39 US ft Longitude : -103° 26' 59.74"		
Slot TVD Reference : Ground Elevation		Elevation above Mean Sea Level : 3213.00 US ft	
Comment :			
Well Name Mean Green 22 Fed Com 1H ST01	Type : Sidetrack	UWI :	Plan : Working Plan
	Parent : Mean Green 22 Fed Com 1H ST00	Tie Point Method : MD	Tie Point : 8611.00 US ft
	Rig Height <i>Kelly Bushing</i> : 28.00 US ft	Comment :	
	Relative to Mean Sea Level: 3241.00 US ft	Closure Distance : 7493.15 US ft Closure Azimuth : 358.417°	
	Vertical Section (Position of Origin Relative to Slot)		
	+N / -S : 0.00 US ft +E / -W : 0.00 US ft Az : 0.00°		
	Magnetic Parameters		
	Model : BGGM	Field Strength : 48149.0nT	Dec : 7.26° Dip : 59.93° Date : 15/Nov/2014

Collision / Uncertainty Analysis

Primary Well	Start MD (US ft)	End MD (US ft)	Collision Risk Interval	No. of Std Deviations in Error Computation
Mean Green 22 Fed Com 1H ST01 (p)	0.00	16546.48	100.00	2

Secondary Well Names

Mean Green 27 Fed 1H (s)
Mean Green 22 Fed Com 1H ST00 (s)

Anti-Collision Report Terminology:

- S.Minor, S.Major : Radii of the ellipse of uncertainty at the current location as seen in the along hole direction.
- PHI : Angle between high-side vector and semi-minor axis
- TVD Spread : Total TVD range of the ellipsoid of uncertainty at the current location
- ES : Distance between the extremities of the primary and secondary uncertainty ellipsoids in the direction Cr-Cr
- T.Face to Sec : Angle between the Hi-Side vector of the primary well at the current location and line of closest approach between the two wells

AC Filter Info: The following filter(s) have been applied: Separation Factor.

5D Anti-Collision Report

Separation factors calculated using Pedagogical (Independent Uncertainty) Well path created using minimum curvature

Anti Collision Proximity Summary (NVD relative to Kelly Bushing)

Section Well Name	GRID (US ft)	Sec MD (US ft)	TVD (US ft)	CC (US ft)	ES (US ft)	SF	Rel
Mean Green 22 Fed Com 1H ST00 (s)	8611.00	8611.00	8609.97	0.00	-1.60	0.00	SF (Hi)
Mean Green 27 Fed 1H (s)	8678.77	8776.82	8677.64	490.85	457.74	14.83	

Primary Well : Mean Green 22 Fed Com 1H ST00 (p) (NVD Relative to Kelly Bushing ; All Azimuth Relative to GRID NORTH)

GRID (US ft)	TVD (US ft)	True to Sec (p)	Sec MD (US ft)	SIN INC (US ft)	Nearest Well	CC (US ft)	ES (US ft)	SF	Rel
8611.00	8609.97	90.88	17.93	17.92	Mean Green 22 Fed Com 1H ST00 (s)	0.00	-1.60	0.00	SF (Hi)
8711.00	8709.61	180.42	18.13	17.96	Mean Green 22 Fed Com 1H ST00 (s)	8.53	-27.39	0.24	SF (Hi)
8811.00	8806.66	181.61	18.33	17.78	Mean Green 22 Fed Com 1H ST00 (s)	26.37	-9.67	0.73	SF (Hi)
8911.00	8898.39	182.34	18.55	17.36	Mean Green 22 Fed Com 1H ST00 (s)	45.16	9.28	1.26	SF (Med)
9011.00	8982.23	180.74	18.81	16.74	Mean Green 22 Fed Com 1H ST00 (s)	63.74	28.58	1.81	SF (Lo)
9111.00	9057.80	179.49	19.15	16.17	Mean Green 22 Fed Com 1H ST00 (s)	77.19	43.21	2.27	
9211.00	9124.05	186.62	19.56	15.58	Mean Green 22 Fed Com 1H ST00 (s)	86.58	53.54	2.62	
9311.00	9179.10	197.85	20.05	14.95	Mean Green 22 Fed Com 1H ST00 (s)	95.35	62.51	2.90	
9411.00	9221.40	209.90	20.65	14.39	Mean Green 22 Fed Com 1H ST00 (s)	103.13	68.87	3.01	
9511.00	9249.74	216.06	21.35	13.98	Mean Green 22 Fed Com 1H ST00 (s)	108.41	73.07	3.07	
9611.00	9263.32	215.76	22.11	13.83	Mean Green 22 Fed Com 1H ST00 (s)	110.36	74.99	3.12	
9711.00	9263.57	212.73	22.95	14.02	Mean Green 22 Fed Com 1H ST00 (s)	110.70	75.50	3.15	
9811.00	9261.82	209.85	24.02	14.26	Mean Green 22 Fed Com 1H ST00 (s)	109.15	73.76	3.08	
9911.00	9260.08	205.83	25.16	14.54	Mean Green 22 Fed Com 1H ST00 (s)	107.28	72.10	3.05	
10011.00	9258.33	202.53	26.35	14.84	Mean Green 22 Fed Com 1H ST00 (s)	105.67	70.55	3.01	
10111.00	9256.59	200.05	27.60	15.18	Mean Green 22 Fed Com 1H ST00 (s)	102.77	67.36	2.90	
10211.00	9254.84	197.35	28.90	15.54	Mean Green 22 Fed Com 1H ST00 (s)	100.05	64.47	2.81	
10311.00	9253.10	194.22	30.24	15.93	Mean Green 22 Fed Com 1H ST00 (s)	97.91	62.27	2.75	
10411.00	9251.35	190.60	31.63	16.35	Mean Green 22 Fed Com 1H ST00 (s)	96.29	60.58	2.70	
10511.00	9249.60	187.34	33.07	16.78	Mean Green 22 Fed Com 1H ST00 (s)	95.72	59.68	2.66	
10611.00	9247.86	184.47	34.58	17.24	Mean Green 22 Fed Com 1H ST00 (s)	96.83	60.23	2.65	
10711.00	9246.11	182.11	36.12	17.71		99.08	61.75	2.65	

SD Anti-Collision Report

Primary Well: Mean Green 22 Fed Com 1H ST00 (s) (TVD Relative to Kelly Bushing - All Azimuth Relative to GRID NORTH)									
RPD (US ft)	TVD (US ft)	Trace to Sec (°)	S-Major (US ft)	S-Minor (US ft)	Nearest Well	CC (US ft)	ES (US ft)	SF	Risk
					Mean Green 22 Fed Com 1H ST00 (s)				
10811.00	9244.37	182.16	37.69	18.19	Mean Green 22 Fed Com 1H ST00 (s)	99.49	61.20	2.60	
10911.00	9242.62	183.25	39.27	18.68	Mean Green 22 Fed Com 1H ST00 (s)	100.47	61.12	2.55	
11011.00	9240.88	183.89	40.87	19.22	Mean Green 22 Fed Com 1H ST00 (s)	101.34	60.81	2.50	
11111.00	9239.13	184.14	42.49	19.74	Mean Green 22 Fed Com 1H ST00 (s)	103.22	61.60	2.48	
11211.00	9237.39	183.96	44.13	20.25	Mean Green 22 Fed Com 1H ST00 (s)	120.49	78.49	2.87	
11311.00	9235.64	183.96	45.78	20.85	Mean Green 22 Fed Com 1H ST00 (s)	191.33	150.28	4.66	
11411.00	9233.89	183.96	47.44	21.43	Mean Green 22 Fed Com 1H ST00 (s)	280.52	239.92	6.91	

Secondary Well: Mean Green 22 Fed Com 1H ST00 (s) (TVD Relative to Kelly Bushing (Primary)); All Azimuth Relative to GRID NORTH									
RPD (US ft)	TVD (US ft)	Sec-MD (US ft)	Trace to Sec (°)	S-Major (US ft)	S-Minor (US ft)	CC (US ft)	ES (US ft)	SF	Risk
8611.00	8609.97	8611.00	90.88	16.02	16.01	0.00	-1.60	0.00	SF (Hi)
8711.00	8709.53	8710.57	180.42	16.23	16.22	8.53	-27.39	0.24	SF (Hi)
8811.00	8810.21	8811.53	181.61	16.43	16.33	26.37	-9.67	0.73	SF (Hi)
8911.00	8911.64	8915.55	182.34	16.64	16.28	45.16	9.28	1.26	SF (Med)
9011.00	9011.74	9023.86	180.74	16.88	16.04	63.74	28.58	1.81	SF (Lo)
9111.00	9105.82	9136.67	179.49	17.18	15.56	77.19	43.21	2.27	
9211.00	9187.19	9250.57	185.62	17.63	15.04	86.58	53.54	2.62	
9311.00	9254.53	9368.47	197.85	18.32	14.39	95.35	62.51	2.90	
9411.00	9302.07	9487.61	209.90	19.17	14.07	103.13	68.87	3.01	
9511.00	9334.55	9610.02	216.06	19.98	14.03	108.41	73.07	3.07	
9611.00	9352.74	9732.41	215.76	20.68	14.10	110.36	74.99	3.12	
9711.00	9356.67	9842.03	212.73	21.58	14.29	110.70	75.50	3.15	
9811.00	9356.44	9943.47	209.85	22.52	14.56	109.15	73.76	3.08	
9911.00	9356.58	10043.84	205.83	23.53	14.85	107.28	72.10	3.05	
10011.00	9355.84	10144.98	202.53	24.74	15.17	105.67	70.55	3.01	
10111.00	9353.01	10245.56	200.05	26.02	15.52	102.77	67.36	2.90	
10211.00	9350.26	10344.94	197.35	27.26	15.88	100.05	64.47	2.81	
10311.00	9347.94	10444.64	194.22	28.47	16.27	97.91	62.27	2.75	
10411.00	9345.96	10544.16	190.60	29.74	16.69	96.29	60.58	2.70	
10511.00	9344.52	10643.01	187.34	31.11	17.11	95.72	59.68	2.66	
10611.00	9344.40	10741.36	184.47	32.42	17.56	96.83	60.23	2.65	
10711.00	9345.13	10841.56	182.11	33.87	18.03	99.08	61.75	2.65	
10811.00	9343.77	10943.06	182.16	35.56	18.49	99.49	61.20	2.60	
10911.00	9342.93	11042.37	183.25	37.07	19.03	100.47	61.12	2.55	
11011.00	9341.98	11142.11	183.89	38.57	19.56	101.34	60.81	2.50	
11111.00	9342.08	11241.02	184.14	40.05	20.09	103.22	61.60	2.48	
11211.00	9342.41	11283.00	183.96	40.64	20.31	120.49	78.49	2.87	
11311.00	9342.41	11283.00	183.96	40.64	20.31	191.33	150.28	4.66	
11411.00	9342.41	11283.00	183.96	40.64	20.31	280.52	239.92	6.91	



Weatherford

Weatherford Drilling Services

GeoDec4 v2.0.0.3

HOBBS OGD

DEC 03 2014

RECEIVED

Report Date: October 17, 2014
Job Number: _____
Customer: Devon Energy
Well Name: Mean Green 22 Fed Com 1H
API Number: _____
Rig Name: _____
Location: Lea Co, NM Nad83 NME
Block: _____
Engineer: RWJ

NAD83 / New Mexico East (ftUS)	NAD83 (1986)
Projected Coordinate System	Geodetic Coordinate System
Datum: North American Datum 1983 (1986)	Datum: North American Datum 1983 (1986)
Ellipsoid: GRS 1980	Ellipsoid: GRS 1980
EPSG: 2257	EPSG: 4269
North: 372838.68 US Survey Foot	Latitude: 32.021937 Degree
East: 815122.39 US Survey Foot	Longitude: -103.449927 Degree
Convergence: 0.47°	
Declination: 7.21°	
Total Correction: 6.74°	
Datum Transformation: none	

Geodetic Location WGS84
MSL Elevation = 0 m
Latitude = 32° 01' 18.97" N
Longitude = 103° 26' 59.74" W

Magnetic Declination = 7.21 deg	[True North Offset]
Local Gravity = .9988 g	Checksum = 6737
Local Field Strength = 48161 nT	Magnetic Vector X = 23952 nT
Magnetic Dip = 59.91 deg	Magnetic Vector Y = 3030 nT
Magnetic Model = bggm2013.bgs	Magnetic Vector Z = 41673 nT
Run Date = November 15, 2014	Magnetic Vector H = 24142 nT

Signed: _____ Date: _____

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Warning: This information is controlled, and any printed version is deemed as uncontrolled unless suitably endorsed by a controlling authority or accompanied by a controlled table of contents in order to ensure adequate revision control.

HOBBS OCD

DEC 03 2014

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

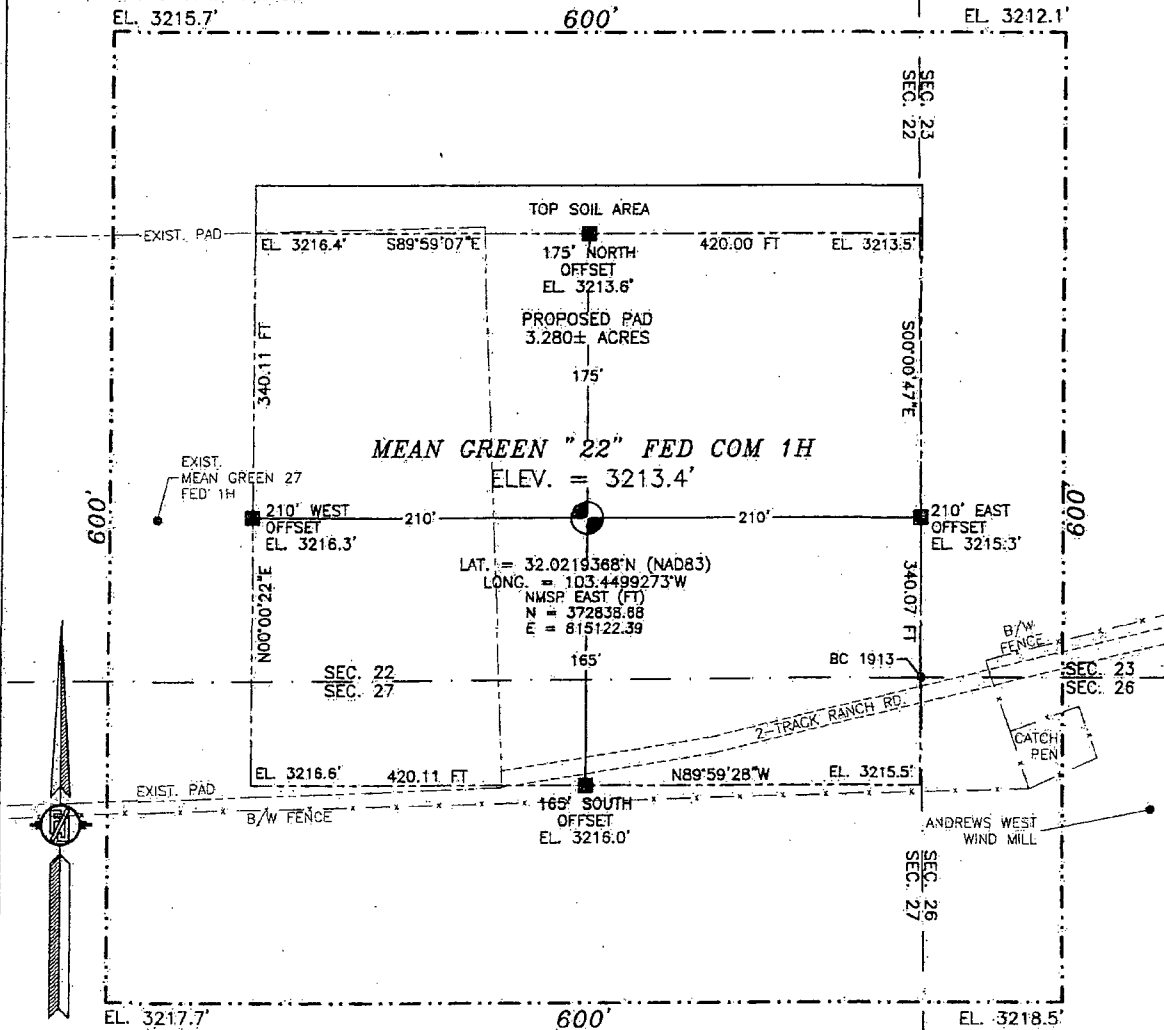
¹ API Number 30-025-41434		² Pool Code		³ Pool Name MADERA SAND; DELAWARE					
⁴ Property Code		⁵ Property Name MEAN GREEN 22 FED COM						⁶ Well Number 1H	
⁷ OGRID No. 6137		⁸ Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.						⁹ Elevation 3213.4	
¹⁰ Surface Location									
UL or lot no. P	Section 22	Township 26 S	Range 34 E	Lot Idn	Feet from the 100	North/South line SOUTH	Feet from the 210	East/West line EAST	County LEA
¹¹ Bottom Hole Location If Different From Surface									
UL or lot no. I	Section 15	Township 26 S	Range 34 E	Lot Idn	Feet from the 2310	North/South line SOUTH	Feet from the 330	East/West line EAST	County LEA
¹² Dedicated Acres 240		¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No.			

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.

NW CORNER SEC. 15 LAT. = 32.0507085°N LONG. = 103.4663040°W NMSP EAST (FT) N = 383264.37 E = 809952.75		N/4 CORNER SEC. 15 LAT. = 32.0507132°N LONG. = 103.4577729°W NMSP EAST (FT) N = 383287.40 E = 812505.94		NE CORNER SEC. 15 LAT. = 32.0506920°N LONG. = 103.4492558°W NMSP EAST (FT) N = 383301.20 E = 815244.90		¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature: <i>[Signature]</i> Date: 10/30/2014 David H. Cook Regulatory Specialist Printed Name david.cook@dmv.com E-mail Address	
W/4 CORNER SEC. 15 LAT. = 32.0434531°N LONG. = 103.4662973°W NMSP EAST (FT) N = 380824.94 E = 809983.99		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. BOTTOM OF HOLE LAT. = 32.0425278°N LONG. = 103.4503171°W NMSP EAST (FT) N = 380328.44 E = 814940.34 330' BOTTOM OF HOLE 210'		E/4 CORNER SEC. 15 LAT. = 32.0434198°N LONG. = 103.4492522°W NMSP EAST (FT) N = 380655.68 E = 815267.67		¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. OCTOBER 30, 2014 Date of Survey Signature and Seal of Professional Surveyor: <i>[Signature]</i> Certificate Number: FILMON E. RAMILLO, PLS 12797 SURVEY NO. 2744C	
SECTION CORNER LAT. = 32.0361926°N LONG. = 103.4662911°W NMSP EAST (FT) N = 377983.66 E = 810009.13		QUARTER CORNER LAT. = 32.0361886°N LONG. = 103.4577776°W NMSP EAST (FT) N = 378002.79 E = 812647.33		SECTION CORNER LAT. = 32.0361767°N LONG. = 103.4492534°W NMSP EAST (FT) N = 378020.70 E = 815288.88			
W/4 CORNER SEC. 22 LAT. = 32.0289466°N LONG. = 103.4662875°W NMSP EAST (FT) N = 375347.67 E = 810031.41		MEAN GREEN "22" FED COM 1H ELEV. = 3213.4 LAT. = 32.0219368°N (NAD83) LONG. = 103.4499273°W NMSP EAST (FT) N = 372838.68 E = 815122.39		E/4 CORNER SEC. 22 LAT. = 32.0289204°N LONG. = 103.4492517°W NMSP EAST (FT) N = 375380.94 E = 815311.00			
SW CORNER SEC. 22 LAT. = 32.0218943°N LONG. = 103.4662802°W NMSP EAST (FT) N = 372705.41 E = 810054.34		S/4 CORNER SEC. 22 LAT. = 32.0218811°N LONG. = 103.4577669°W NMSP EAST (FT) N = 372725.89 E = 812693.41		SE CORNER SEC. 22 LAT. = 32.0216603°N LONG. = 103.4492498°W NMSP EAST (FT) N = 372739.78 E = 815333.18			

**SECTION 22, TOWNSHIP 26 SOUTH, RANGE 34 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.



010 50 100 200
SCALE 1" = 100'

DIRECTIONS TO LOCATION

FROM STATE HWY. 128 AND CR. 2 (BATTLE AXE) GO SOUTH AND WEST ON CR. 2 12.0 MILES, TURN LEFT ON CALICHE ROAD AND GO SOUTH 0.8 MILES, TURN LEFT AND GO EAST 3.0 MILES, TURN RIGHT AND GO SOUTHEAST 3.56 MILES, TURN LEFT AND GO EAST 375' TO EXIST. PAD FOR MEAN GREEN '27' FED 1H AND FROM THIS WELL LOCATION IS 270° EAST.

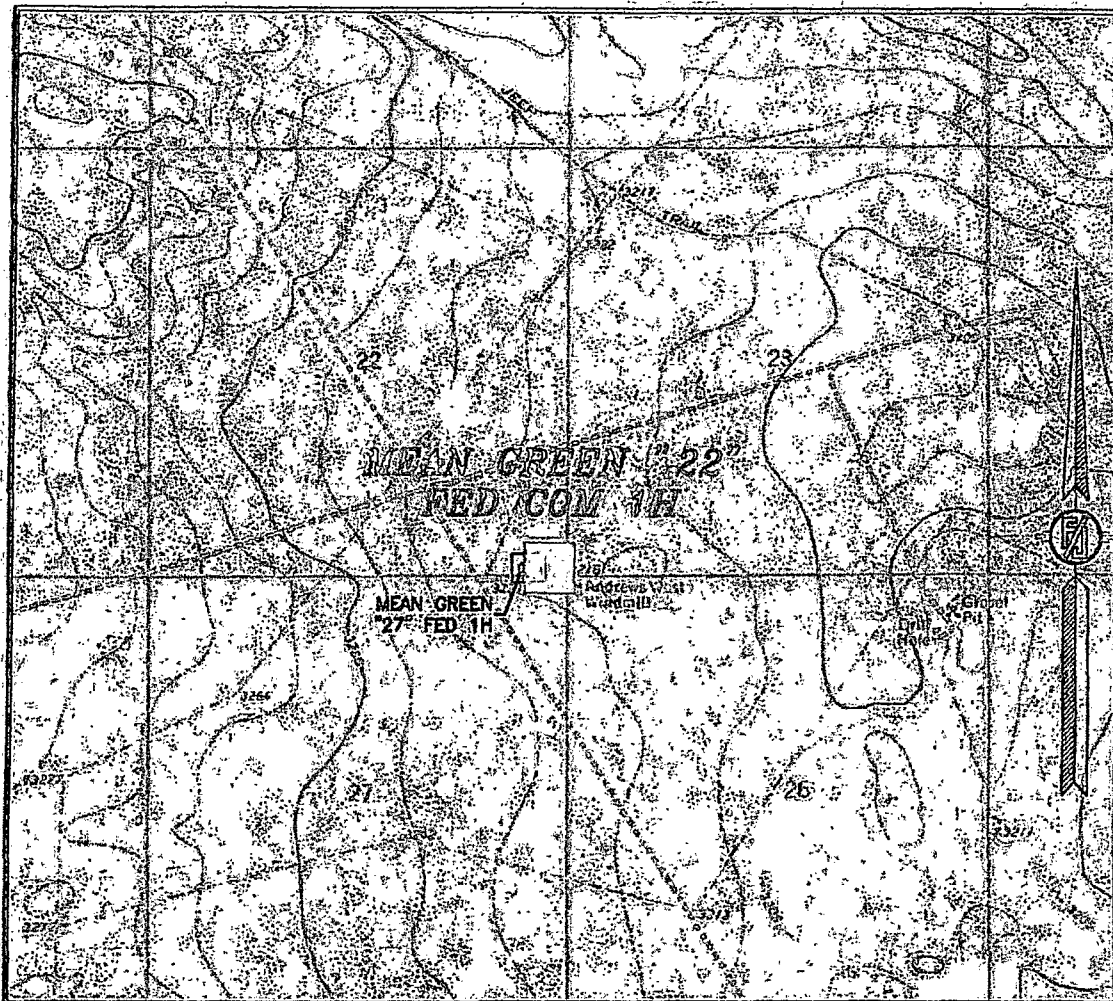
**DEVON ENERGY PRODUCTION COMPANY, L.P.
MEAN GREEN "22" FED COM 1H
LOCATED 100 FT. FROM THE SOUTH LINE
AND 210 FT. FROM THE EAST LINE OF
SECTION 22, TOWNSHIP 26 SOUTH,
RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO**

OCTOBER 24, 2014

SURVEY NO. 2744C

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

SECTION 22, TOWNSHIP 26 SOUTH, RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
LOCATION VERIFICATION MAP



USGS QUAD MAP:
ANDREWS PLACE

NOT TO SCALE

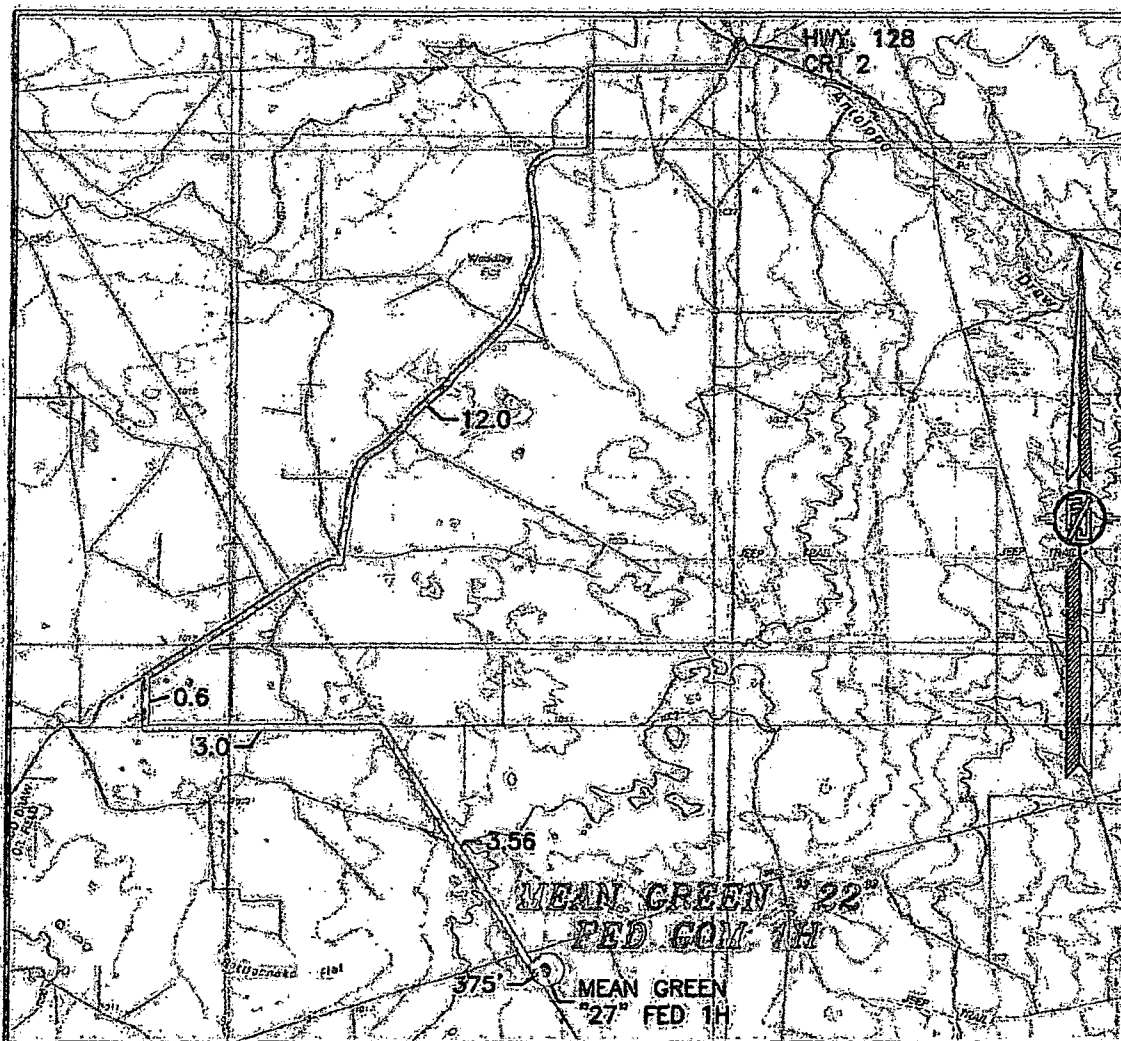
DEVON ENERGY PRODUCTION COMPANY, L.P.
MEAN GREEN "22" FED COM 1H
LOCATED 100 FT. FROM THE SOUTH LINE
AND 210 FT. FROM THE EAST LINE OF
SECTION 22, TOWNSHIP 26 SOUTH,
RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

OCTOBER 24, 2014

SURVEY NO. 2744C

MADRON SURVEYING, INC. 501 SOUTH CANAL, CARLSBAD, NEW MEXICO
(505) 234-3341

SECTION 22, TOWNSHIP 26 SOUTH, RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
VICINITY MAP



DISTANCES IN MILES

NOT TO SCALE

DIRECTIONS TO LOCATION
FROM STATE HWY. 128 AND CR. 2 (BATTLE AXE) GO SOUTH AND WEST ON CR. 2 12.0 MILES, TURN LEFT ON CALICHE ROAD AND GO SOUTH 0.6 MILES, TURN LEFT AND GO EAST 3.0 MILES, TURN RIGHT AND GO SOUTHEAST 3.56 MILES, TURN LEFT AND GO EAST 375' TO EXIST. PAD FOR MEAN GREEN 27' FED. 1H AND FROM THIS WELL LOCATION IS 270' EAST.

DEVON ENERGY PRODUCTION COMPANY, L.P.

MEAN GREEN 22' FED. COM. 1H

LOCATED 100 FT. FROM THE SOUTH LINE

AND 210 FT. FROM THE EAST LINE OF

SECTION 22, TOWNSHIP 26 SOUTH,

RANGE 34 EAST, N.M.P.M.

LEA COUNTY, STATE OF NEW MEXICO

OCTOBER 24, 2014

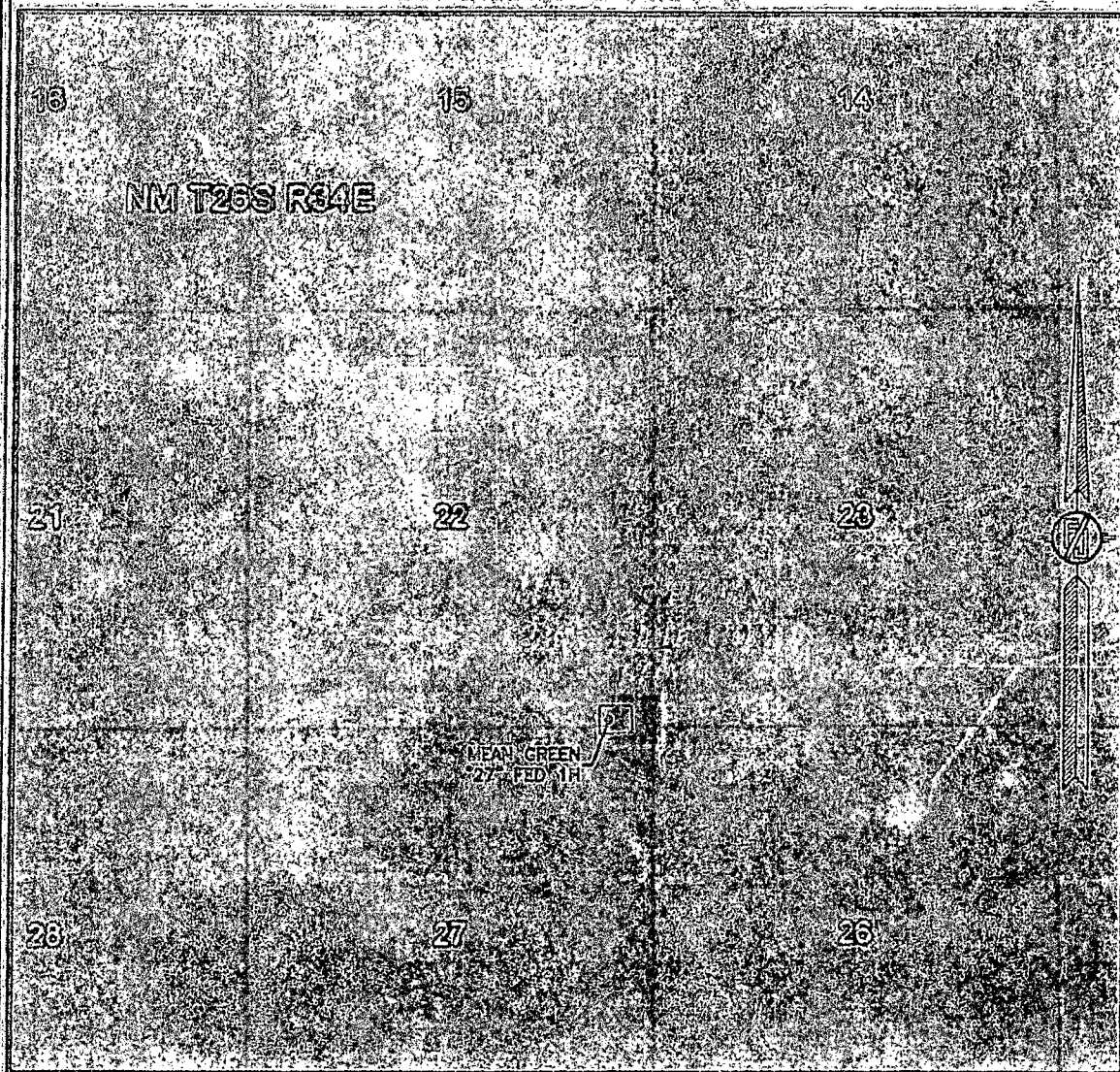
SURVEY NO. 2744C

MADRON SURVEYING, INC.

361 SOUTH CANAL
(979) 234-4341

CARLSBAD, NEW MEXICO

SECTION 22, TOWNSHIP 26 SOUTH, RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
AERIAL PHOTO



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
APRIL 2013

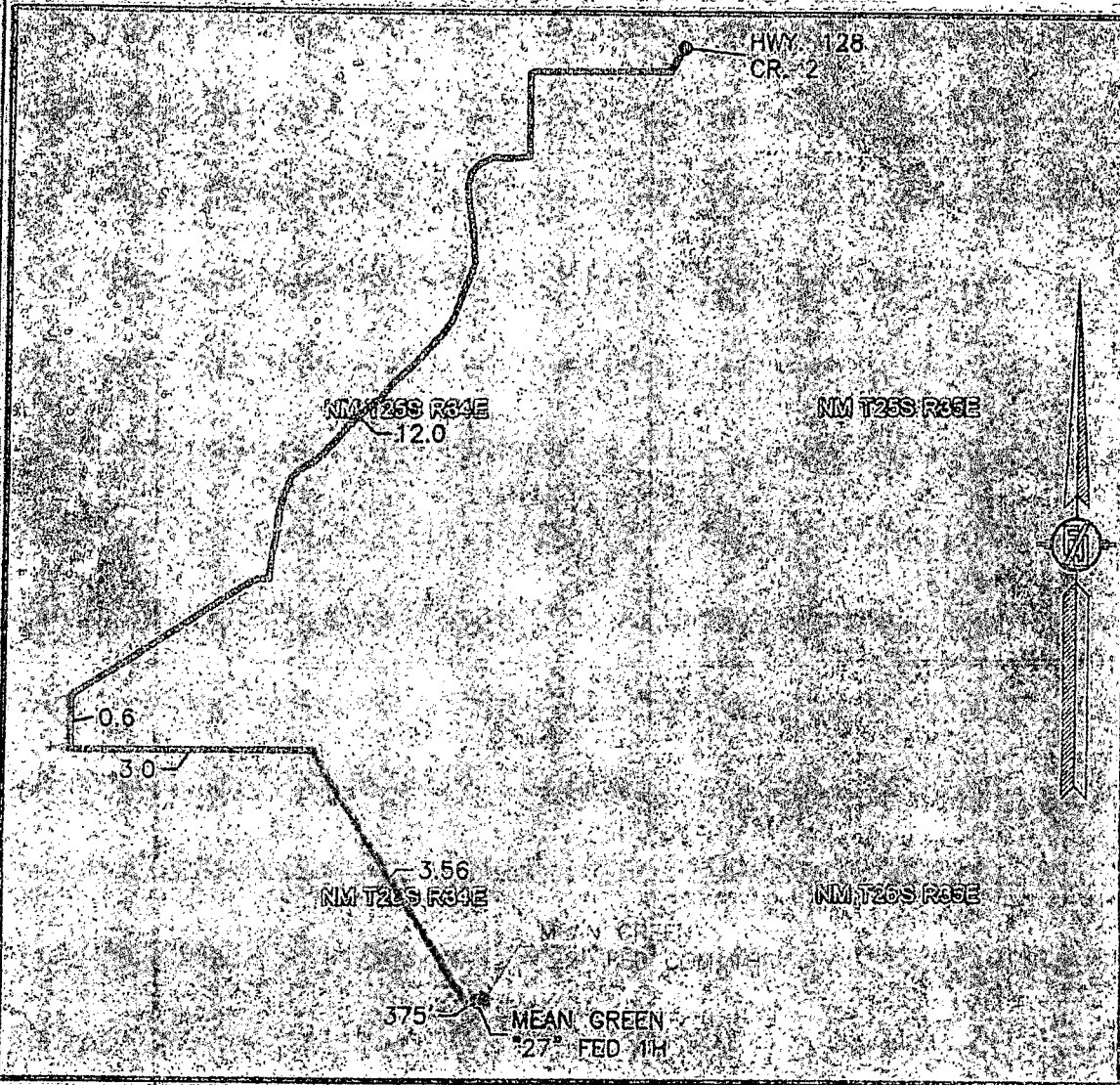
DEVON ENERGY PRODUCTION COMPANY, L.P.
MEAN GREEN "22" FED COM 1H
LOCATED 100 FT. FROM THE SOUTH LINE
AND 210 FT. FROM THE EAST LINE OF
SECTION 22, TOWNSHIP 26 SOUTH,
RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

OCTOBER 24, 2014

SURVEY NO. 2744C

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO
(505) 234-3341

SECTION 22, TOWNSHIP 26 SOUTH, RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
AERIAL ACCESS ROUTE MAP



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
APRIL 2013

DEVON ENERGY PRODUCTION COMPANY, L.P.
MEAN GREEN "22" FED COM 1H
LOCATED 100 FT. FROM THE SOUTH LINE
AND 210 FT. FROM THE EAST LINE OF
SECTION 22, TOWNSHIP 26 SOUTH,
RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

OCTOBER 24, 2014

SURVEY NO. 2744C

MADRON SURVEYING, INC. 301 SOUTH CANAL, CARLSBAD, NEW MEXICO
(505) 238-3391

DEC 03 2014

**PECOS DISTRICT
CONDITIONS OF APPROVAL**

RECEIVED

OPERATOR'S NAME:	Devon Energy Production, L.P.
LEASE NO.:	NMNM-112941
WELL NAME & NO.:	Mean Green 22 Fed 1H
SURFACE HOLE FOOTAGE:	0100' FSL & 0210' FEL
BOTTOM HOLE FOOTAGE	2310' FSL & 0330' FEL Sec. 15, T. 26 S., R 34 E.
LOCATION:	Section 22, T. 26 S., R 34 E., NMPM
COUNTY:	Lea County, New Mexico

The original COAs still stand with the following drilling modifications:

Special Requirements:

Communitization Agreement

A Communitization Agreement covering the acreage dedicated to this well must be filed for approval with the BLM. The effective date of the agreement shall be prior to any sales. In addition, the well sign shall include the surface and bottom hole lease numbers. If the Communitization Agreement number is known, it shall also be on the sign. If not, it shall be placed on the sign when the sign is replaced. **Operator shall submit a sundry to add "COM" to the name.**

I. DRILLING

A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

☒ **Lea County**

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240,
(575) 393-3612

1. **Although there are no measured amounts of Hydrogen Sulfide reported, it is always a potential hazard. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.**

2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval. **If the drilling rig is removed without approval – an Incident of Non-Compliance will be written and will be a “Major” violation.**
3. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works is located, this does not include the dog house or stairway area.
4. **The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.**

B. CASING

Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

Wait on cement (WOC) time prior to drilling out for a primary cement job will be a minimum 18 hours for a water basin, 24 hours in the potash area, or 500 pounds compressive strength, whichever is greater for all casing strings. DURING THIS WOC TIME, NO DRILL PIPE, ETC. SHALL BE RUN IN THE HOLE. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. IF OPERATOR DOES NOT HAVE THE WELL SPECIFIC CEMENT DETAILS ONSITE PRIOR TO PUMPING THE CEMENT FOR EACH CASING STRING, THE WOC WILL BE 30 HOURS. See individual casing strings for details regarding lead cement slurry requirements.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

Possible sulfur flows in the Castile Group and above.

Possibility of water flows in the Salado, Castile, Delaware, and Bone Spring.

Possibility of lost circulation in the Delaware and Bone Spring.

1. The **13-3/8** inch surface casing shall be set at approximately **930** feet (**in a competent bed below the Magenta Dolomite, which is a Member of the Rustler, and if salt is encountered, set casing at least 25 feet above the salt**) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.**
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.

Intermediate casing shall be kept fluid filled while running into hole to meet BLM minimum collapse requirements.

2. The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:

☒ Cement to surface. If cement does not circulate see B.1.a, c-d above.

Centralizers required on horizontal leg, must be type for horizontal service and a minimum of one every other joint.

3. The minimum required fill of cement behind the **5-1/2** inch production casing is:

☒ Cement should tie-back at least 500 feet into previous casing string. Operator shall provide method of verification. **Excess calculates to 19% - Additional cement may be required.**

4. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

C. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
2. Variance approved to use flex line from BOP to choke manifold. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. **Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.** If the BLM inspector questions the straightness of the hose, a BLM engineer will be contacted and will review in the field or via picture supplied by inspector to determine if changes are required (operator shall expect delays if this occurs).
3. 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.
 - a. **For surface casing only:** If the BOP/BOPE is to be tested against casing, the wait on cement (WOC) time for that casing is to be met (see WOC statement at start of casing section). Independent service company required.
4. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

- b. The tests shall be done by an independent service company utilizing a test plug **not a cup or J-packer**. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (18 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- c. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- d. The results of the test shall be reported to the appropriate BLM office.
- e. All tests are required to be recorded on a calibrated test chart. **A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.**
- f. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.

D. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

E. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

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