la. Type of work: 🖌 DRILL	REENTER	R	ECEIVEL	7. If Unit or CA Age Cotton Draw U	reement, Nan Jnit NM709	ne and No. 028X
Ib. Type of Well:  Oil Well  Gas Wel	t 🗍 Other	Single Zone Mult	inle Zone	8. Lease Name and Cotton Draw 1	Well No.	13006
2. Name of Operator Devon Energy Product	ion Company, L.P.	6137>		9. API Well No.	42	109
3a. Address 333 W. Sheridan Oklahoma City, OK 73102-501	3b. P 405	hone No. (include area code) .228.7203		10. Field and Pool, or Paduca: Delaw	Exploratory	<u>"201</u> "2011# (49
<ol> <li>Location of Well (Report location clearly and in At surface 100 FNL &amp; 460 FWL, Lot #1 At proposed prod zone 230 FSL &amp; 660 FML</li> </ol>	n accordance with any State PP: 100 FNL & 660	requirements(*)		11. Sec., T. R. M. or H Sec. 7 T25S F	Blk.and Surv	ey or Area
<ol> <li>It proposed procession Sold Total a coort with the proposed procession of the sold of the proposed procession of the processi</li></ol>	n or post office*	7117)		12. County or Parish Lea County		13. State NM
<ul> <li>15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any)</li> </ul>	) NM NM	No. of acres in lease LC061873 - 319.73 ac LC061863A - 1882.6 ac	17. Spacin 159.98	g Unit dedicated to this 3 ac	well	
<ol> <li>Bistance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.</li> </ol>	ned map 19. TVI ME	Proposed Depth D - 8,185' D - 12,831'	20. BLM/E CO-1104	BIA Bond No. on file 4; NBM-000801		
Elevations (Show whether DF, KDB, RT, GL,	etc.) 22 03/	Approximate date work will sta 15/2014	art*	23. Estimated duration 45 Days	on	<u> </u>
		Attachmonts				
The following, completed in accordance with the requ	24. airements of Onshore Oil	and Gas Order No.1, must be a	attached to thi	s form:		
he following, completed in accordance with the required. Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on Natio SUPO must be filed with the appropriate Forest S Signature Signature Court	24. iirements of Onshore Oil i nal Forest System Lands Service Office).	Attachments and Gas Order No.1, must be a ltem 20 above). 5. Operator certifi 6. Such other site BLM. Name (Printed/Typed) Trina C. Couch	attached to thi the operation cation e specific info	s form: is unless covered by ar rmation and/or plans a	n existing bo s may be rec 11-25-	nd on file (see uuired by the
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Anne

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MA: 2 6 2015

### **HOBBS OCD**

# Devon Energy, Cotton Draw Unit 250H

# RECEIVED

MAY 2 6 2015

# 1. Geologic Formations

TVD of target	8185	Pilot hole depth	N/A
MD at TD:	12831	Deepest expected fresh water:	

### Basin

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Formation 4	, Depth (TVD) - from KB	Water/Mineral-Bearing/ - Target Zone?	Hazards* ,
Rustler	705	Water	and an and the second secon
Salado	1073	Salt	
Top of Salt	1105	Salt	
Base of Salt	4155	Salt	
Delaware	4385	Oil	
Bell Canyon	4411	Oil	
Cherry Canyon	5382	Oil	
Bushy Canyon	6765	Oil	
Bone Spring	8359	Oil/Gas	
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\*H2S, water flows, loss of circulation, abnormal pressures, etc.

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<sup>1</sup> Drilling Plan 4

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# Devon Energy, Cotton Draw Unit 250H

See COA

# 2. Casing Program

Hole Size	<u>Časing</u> From	<u>interval</u> To	Csg. Size	Weight	Grade	Conn.	SF Collapse	SF Burst	SF. Tension
17.5"	0	220 770'	13.375"	48	H40	STC	2.36	5.30	15.44
12.25"	0	4 <del>300</del> 4430	9.625"	40	J55	LTC	1.149	1.77	3.02
8.75"	0	12831	5.5"	17	P110	BTC	2.19	2.72	4.08
				BLM Min	imum Safet	y 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 Conitan Deef	N	
If yes, does production casing cement tie back a minimum of 50' above the Reef?		
Is well within the designated 4 string boundary.	STATISTICS SECTOR	
Is well located in SOPA but not in R-111-P?	N	
If yes, are the first 2 strings cemented to surface and 3 <sup>rd</sup> string cement tied back 500' into previous casing?		
	Presentations	
If yes, are the first three strings cemented to surface?	N	
Is 2 <sup>nd</sup> 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?		

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#### 3. Cementing Program

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Casing	# Sks	, Wt. Ab/ gal	- H20 gal/šk	-Yld ft3/ sack	500# Comp. Strengt	Slurry Description
					(hours)	
Surf.	800	14.8	6.32	1.33	7	Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake
Inter.	910	12.9	9.81	1.85	17	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
Prod.	530	12.5	10.86	1.96	30	1 <sup>st</sup> Lead: (65:35) Class H Cement: Poz (Fly Ash) + 6% BWOC Bentonite + 0.25% BWOC HR-601 + 0.125 lbs/sack Poly-E-Flake
	1350	14.5	5.31	1.2	25	1 <sup>st</sup> 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
					D	V Tool 4500'
	80	11	14.81	2.55	22	2 <sup>nd</sup> stage Lead: Tuned Light® Cement + 0.125 lb/sk Pol-E-Flake
	110	14.8	6.32	1.33	6	2 <sup>nd</sup> stage Tail: Class C Cement + 0.125 lbs/sack Poly- E-Flake

DV tool 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
Surface	0'	100%
Intermediate	0'	75%
Production	$1^{st}$ Stage = 4500' / $2^{nd}$ Stage =	25%
	3300'	

500' fie back

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### 4. Pressure Control Equipment

A variance is requested for the use of a diverter on the surface casing. See attached for schematic.

BOP installed and tested before drilling which hole?	Size?	Min. Required. WP	T All and All All and All	ype e		Tested to:		
			An	nular	X	50% of working pressure		
			Blin	d Ram				
12-1/4"	13-5/8"	3M	Pipe	e Ram		3M		
			Doub	le Ram	x	5141		
			Other*					
			An	nular	x	50% testing pressure		
	13-5/8"	13-5/8"	13-5/8"	2" 314	Blind Ram			
8-3/4"					3M	Pipe Ram		
0.5/1	15 5/0	5141	Doub	le Ram	x	3M		
			Other *					
			Annular					
			Blind Ram					
			Pipe	Ram				
			Double Ram					
			Other *					

\*Specify if additional ram is utilized.

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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.

	A variance is requested for the use of a flexible choke line from the BOP to Choke
Y	Manifold. See attached for specs and hydrostatic test chart.
	N Are anchors required by manufacturer?
Y	A multibowl wellhead is being 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.
	<ul> <li>Devon proposes using a multi-bowl wellhead assembly (FMC Uni-head). 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.</li> <li>Wellhead will be installed by FMC's representatives.</li> <li>If the welding is performed by a third party, the FMC's representative will monitor the temperature to verify that it does not exceed the maximum temperature of the scal</li> </ul>
	<ul> <li>FMC representative will install the test plug for the initial BOP test.</li> <li>FMC 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 5M, 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.</li> <li>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.</li> <li>Devon will pressure test all seals above and below the mandrel (but still above the casing) to full working pressure rating.</li> </ul>
	<ul> <li>Devon will test the casing to 0.22 psi/ft or 1500 psi, whichever is greater, per Onshore Order #2.</li> </ul>
	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 FMC Uni-head 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 FMC.
	Uni-head.
	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 (0A

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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.

See attached schematic.

# see coa

#### 5. Mud Program

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e de la Constanti de De	pth 🔬 🖇 🖓	Туре	Weight (ppg)	Viscosity	Water Loss,
From	To				
0	-730" 770'	FW Gel	8.6-8.8	28-34	N/C
230	4300' 4430'	Saturated Brine	10.0-10.2	28-34	N/C
4300	12831'	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	PVT/Pason/Visual Monitoring
of fluid?	

#### 6. Logging and Testing Procedures

Logg	ing, Coring and Testing.
X	Will run GR/CNL fromTD 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

	Resistivity	Int. shoe to KOP
	Density	Int. shoe to KOP
X	CBL	Production casing
Χ	Mud log	Intermediate shoe to TD
	PEX	

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### Devon Energy, Cotton Draw Unit 250H

#### 7. Drilling Conditions

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Condition	Specify what type and where?
BH Pressure at deepest TVD	3683 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 <u>X</u> Directional Plan Other, describe

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7 Drilling Plan

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# **DEVON ENERGY**

Eddy County, NM (NAD-83) Cotton Draw Unit 250H

250H OH

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Plan: Plan #1

# **Standard Planning Report**

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11 September, 2014

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Planning Report

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Eddy County, NM (N Cotton Draw Unit 250H 250H OH	IAD-83)		IVD Refe	rence:	f. "	Cactus 126: 343	57.2' GL + 25'	RKB @
Cottôn Draw Unit 250H 250H OH	(10-00)	•				3462:20ustt (On	iginal Well Ele	v)·
Cotton Draw Unit 250H 250H OH		•	WD Refer	ence:	. •	Cactus 26: 343	7.2 GL + 25	KR @
250H 250H OH			North Re	ference		Grid	Gina Àăci ⊏ie	<b>v</b> )•
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ddy County NM (N	AD-83)							and a second
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w Mexico Eastern 7	000							
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	North	ing:	419	,194.51 usft	Latitude:			32° 9' 3.901 N
Мар	Easti	ng:	722	,955.98 usft	Longitude:			103° 44' 47.345 W
0.0	0 usft Slot F	Radius:		13-3/16 "	Grid Converg	ence:		0.31 °
50H								
N/-S 306.	.00 usft N	orthing:		419,500.51	usft Lati	itude:		32° 9' 6.503 N
E/-W 7,733.	54 usft E	asting:		730,689.52	usft Lor	aitude:		103° 43' 17.370 W
0.	00 usft 🛛 W	ellhead Elevati	ion:	3,462.20	usft Gro	und Level:		3,437.20 usft
50H OH		and a standard stand Standard standard stan	na degle mananan a si si na si sa angele angele ma					
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SOH OH         Model Name           BGGM2014         BGGM2014           an #1         E           con         Azimuth           (°)         0.00         0.00	Samp Phas Depth From (Th (usft) 0.00 Vertical Depth (usft) 0.00	e Date 9/10/2014 e: P /D) +N/-S (usft) 0.00	Declina (°) /LAN +N/-S (usft) 0.00 +E/-W (usft) 0.00	ttion 7.41 Tie +E (u 0. Dogieg Rate {°/100usft) 0.00	Dip A (* • On Depth: :/-W sft) 00 Build Rate (*/100usft) 0.00	ingle ) 60.01 Dire ( 17 Turn Rate (°/100usft) 0.00	Field ( ( 0.00 ection (°) 7.41 TFO (°). 0.00	Strength nT) 48,192
SOH OH         Model Name           BGGM2014         BGGM2014           an #1         E           con         Azimuth           (°)         0.00         0.00           0.00         0.00         0.00	Samp Phas Depth From (Th (usft) 0.00 Vertical Depth (usft) 0.00 7,707.54	e Date 9/10/2014 e: P /D) +N/-S (usft) 0.00 0.00	Declina (°) LAN +N/-S (usft) 0.00 +E/-W (usft) 0.00 0.00	ttion 7.41 Tie +E (u 0. Dogleg Rate {°/100usft) 0.00 0.00	Dip A (* • On Depth: :/-W sft) 00 Build Rate (*/100usft) 0.00 0.00	ingle ) 60.01 Dire ( 17 Turn Rate (°/100usft) 0.00 0.00	Field ( ( 0.00 ection (°) 7.41 TFO (°). 0.00 0.00	Strength nT) 48,192 Target
SOH OH         Model Name           BGGM2014         BGGM2014           an #1         E           con         Azimuth           (°)         0.00         0.00           0.00         0.00         177.41	Sampi Phas Depth From (TT (usft) 0.00 Vertical Depth (usft) 0.00 7,707.54 8,185.00	e Date 9/10/2014 e: P /D) +N/-S (usft) 0.00 0.00 -476.98	Declina (°) /LAN +N/-S (usft) 0.00 +E/-W (usft) 0.00 0.00 0.00 21.61	tion 7.41 Tie +E (u 0. Dogleg Rate {°/100usft) 0.00 0.00 12.00	Dip A (° • On Depth: //-W sft) 00 Build Rate (°/100usft) 0.00 0.00 12.00	ingle ) 60.01 Dire ( 17 Turn Rate (°/100usft) 0.00 0.00 0.00 0.00	Field ( ( ) 0.00 ection (°) 7.41 TFO (°) (°) 0.00 0.00 177.41	Strength nT) 48,192 Target
	ddy County: NM.(N. State Plane 1983 rth American Datum w Mexico Eastern Z otton Draw Unit Map 0.0 30H N/-S 306. E/-W 7,733. 0.	ddy County: NM. (NAD-83) i State Plane 1983 rth American Datum 1983 w Mexico Eastern Zone otton Draw Unit Map Eastin 0.00 usft Slot F i0H N/-S 306.00 usft Ni E/-W 7,733.54 usft Ea 0.00 usft W	ddy County: NM.(NAD-83).         i State Plane 1983         rth American Datum 1983         w Mexico Eastern Zone         otton Draw Unit         Map       Easting:         0.00 usft       Slot Radius:         iôH         N/-S       306.00 usft         7,733.54 usft       Easting:         0.00 usft       Worthing:         E/-W       7,733.54 usft         0.00 usft       Wellhead Elevat	ddy County: NM.(NAD:83).         i State Plane 1983         ith American Datum 1983         w Mexico Eastern Zone         otton Draw Unit         Map         Easting:         0.00 usft         Slot Radius:         i0H         N/-S         306.00 usft         Northing:         E/-W         7,733.54 usft         Easting:         0.00 usft         Wellhead Elevation:	Northing:         419,194.51 usft           0.00 usft         Slot Radius:         13-3/16 "           100 usft         Northing:         419,50.51           0.00 usft         Slot Radius:         13-3/16 "           100 usft         Northing:         419,50.51           0.00 usft         Slot Radius:         13-3/16 "           100 usft         Slot Radius:         13-3/16 "           100 usft         Worthing:         419,500.51           100 usft         Worthing:         419,500.51           100 usft         Worthing:         30,689.52           0.00 usft         Wellhead Elevation:         3,462.20	Image: State Plane 1983       System Datum:       Mathematical Mathematical Mathematical Mathematical Datum 1983         is State Plane 1983       w Mexico Eastern Zone       System Datum:       Mathematical Mathmatical Mathmatical Mathmatical Mathematical Mathmatica	dy, County, NM. (NAD-83).         i State Plane 1983       System Datum:       Mean Sea Level         th American Datum 1983       w Mexico Eastern Zone       Mean Sea Level         otton Draw Unit	ddy, County; NM. (NAD-83).         i State Plane 1983       System Datum:       Mean Sea Level         rth American Datum 1983       w Mexico Eastern Zone         otton Draw Unit

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COMPASS 5000.1 Build 72

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Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 250H	
Company:	DEVON ENERGY	, TVD Reference:	Cactus 126::3437.2' GL + 25' RKB @	
Project:	Eddý County, NM (NAD-83)	MD Reference:	3462.20usft (Originàl'Well Elev) Čactus 126: 3437.2' GL + 25' RKB @ 3462.20usft (Original Well Elev)	•••
Site:	Cotton Draw Unit	North Reference:	Grid	
Well:	250H	Survey Calculation Method:	Minimum Curvature	
Wellbore:	250H OH	•	ł	
Design:	Pian'#1		n na sense se s	inana afat <sup>a</sup> ita balansa

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Planned Survey

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Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Section	Rate	Rate	Rate
(usit)	(*)	(*)	(usn)	(usft)	(usit)	(USπ)	(7100usn)	(-/10005π)	(*/1000sn)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SHL (CDU 2	50H) (		• •			•	· · · · ·	1	- · ·
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
705.00	. 0.00	0.00	705.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler,	** ·	*	4		•			'i ·	
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0:00
1,073.00	0.00	0.00	1,073.00	0.00	0.00	0.00	0.00	0.00	0.00
Salado		•	1				÷ .	. :	2
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,105.00	0.00	0.00	1,105.00	0.00	0.00	0.00	0.00	0.00	0.00
Top Salt			· ·	• •	•		4. F. 4		
1 200 00	0.00	0.00	1 200 00	0.00	0.00	0.00	0.00	0.00	0.00
1 300 00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0:00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0,00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0 00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3.200.00	0.00	0.00	3.200.00	.11 E 0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300:00	0.00	0.00	0.00	0.00	0.00	0.00
3 400 00	0.00	0.00	3,400,00	0.00	0.00	0.00	0.00	0.00	0.00
3 500 00	0.00	0.00	3 500 00	0.00	0.00	0.00	0.00	0.00	0.00
3.600.00	0.00	0.00	3.600.00	0.00	0.00	0.00	0,00	0.00	0.00
9,700.00	0.00	0.00	9,200,00	0.00	0.00	0.00	0.00		0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,155.00	0.00	0.00	4,155.00	0.00	0.00	0.00	0.00	0.00	0.00
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COMPASS 5000.1 Build 72

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Planning Report

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Database:	EDM:5000.1 S	ingle User Db	فيسله الطائبة فيتلوسكمون بالاسا حاسيتها	Local	o-ordinate Re	eference:	Well 250H	and the free the second se	د د منطقی برگیته باشید. محمد مرابع		
Company:	DEVON ENER	RGY		TVD Re	eference:		Cactus 126	3437-2 GL + 25	'RKB:@		
	-			ter	_		3462 20usft (	Original Well El	ev)		
Project:	_couy county, I	MM. (MYD-02)	· .	MD Ret	erence:		Cactus 126/3437/2 GL + 25"RKB @				
Gito	Colition Drawli	lóit		, , , , , , , , , , , , , , , , , , ,			0462:200sit (	Original Well El	evj		
Sile.	Control Blawio		•	North F	kererence:		Gild .				
well:	250H			Survey	Calculation W	iemod:	ivinimum cur	vature			
Wellbore:	250H'OH-			1 ·				•			
Désign:	Plan #1						he stander Bro	مطع <u>ة + من يت يالد و</u>	ar mar le d'Ara a maindea Tarair		
Planned Survey	,	an an ann an	- بر ماستان با محمد با مار بر ماندهی میچ	···· , · ··· , · · ··· , · · · · · · ·							
r lainea aairay	್ ಎಂದಿ ಮಾಡಿದ್ದ ಮ	ten and and a state of the second	ىرىغ <sup>يى</sup> لىكە ئىرىپىغىر ، مۇنىيىكە ئە	ىدىغە مېيە سىسقىتە بەكلەت	کیا ہیا۔ 	بې د او د د او د د او د د او د د او د ر	telenar o materio attano osi	l en Mér estadarenten egy ar els a	unter maria o cataloguese de		
Measured			Vertical			Vertical	Dogleg	Build	Turn		
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Section	Rate	Rate	Rate		
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100üsft)		
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00		
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00		
	0.00	0.00	4,383,00	0.00		0.00		0.00	0.00		
4 400 00	0.00	0.00	4 400 00	<u>.</u>	0.00	0.00	0.00	0.00	0.00		
4,400.00	0.00	-	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00		
4,411.00	0.00	0.00	4,411.00	0.00	0;00	0.00	0.00	0.00	0.00		
Bell Canyon				,				ار بر 			
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00		
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00		
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00		
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00		
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00		
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00		
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00		
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0:00	0.00	0.00		
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00		
5,382.00	0.00	0.00	5,382.00	0.00	0.00	0.00	0.00	0.00	0.00		
Cherry Cany	on			· · · · · · ·				· · · ·	self and the		
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00		
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00		
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00		
5,700.00	0.00	0.00	5,700.00	0.00	0,00	0.00	0.00	0.00	0:00		
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0:00	0.00		
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00	0.00	0.00		
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00	0.00	0.00		
6,100.00	0.00	0.00	6,100.00	0.00	0.00	0.00	0.00	0.00	0.00		
6,200.00	0.00	0.00	6,200.00	0.00	0.00	0.00	0.00	0.00	0.00		
6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00	0.00	0.00	0.00		
6,400.00	0.00	0.00	6,400.00	0.00	0.00	0.00	0.00	0.00	0.00		
6,500.00	0.00	0.00	6,500.00	0.00	0.00	0.00	0.00	0.00	0.00		
6,600.00	0.00	0.00	6,600.00	0.00	0.00	0.00	0.00	0.00	0.00		
0,700.00	0.00	0.00	0,700.00	0.00	0.00	0.00	0.00	0.00	0.00		
6,765.00	0.00	0.00	6,765.00	0.00	0.00	0.00	0.00	0.00	0.00		
Brushy Cany	/on	· · · · · · · · · · · · · · · · · · ·		•• • • • •				· · · · · · · · · · · · · · · · · · ·	~ 4		
6,800.00	0.00	0:00	6,800.00	0.00	0.00	0.00	0.00	0.00	0.00		
6,900.00	0.00	0.00	6,900.00 7:000.00	0.00	0.00	0.00	0.00	0.00	0.00		
7,000.00	0.00	0.00	7,000.00	0.00	0.00	0.00	0.00	0.00	0.00		
7,100.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00		
7,200.00	0.00	0.00	7,200.00	0.00	0.00	0.00	0.00	0.00	0.00		
7,300.00	0.00	0.00	7,400.00	0.00	0.00	0.00	0.00	0:00	0.00		
7,400.00	0.00	0.00	7,400.00	0.00	0.00	0.00	0.00	0.00	0.00		
7,600.00	0.00	0.00	7,600.00	0.00	0.00	0.00	0.00	0.00	0.00		
7,000.00	0.00		7 707 5 4	0.00	0.00	0.00	0.00	0.00	0.00		
7,707.54	0.00	0.00	7,707.54	0.00		0.00 1.11 - 1.11	0.00	0.00	0.00		
- «KOP:12» DLS			7 705 00	0.20	0.01	• • •	12.00	13.00	·: ·		
7,725.00	2.10	1//.41	7,725.00	-0.32	0.01	1 00	12.00	12.00	0.00		
7,750.00	5.10	177.41	1,149.94 7 771 70	-1.89	ບ.ບອ	.09 ∦.76	12.00	12.00	0.00		
7,775.00	0.10 11 10	177.41	7 799 12	-4.75	0.22	8 93	12 00	12.00	0.00		
1,000,00	1.10			0.02	u.+u	0.00		.2.00			
7,825.00	14.10	177.41	7,823.82	-14.36	0.65	14.38	12.00	12.00	0.00		
7,850.00	17.10	1//.41	7,847.90	-∠1.U8	0.95	21.1U	12.00	12.00	0.00		

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COMPASS 5000:1 Build 72

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Planning Report

Database:	EDM 5000 1 Single User Db	Local Co-ordinate Reference:	Well, 250H
Company:	DEVON ENERGY	TVD Reference:	Cactus:126: 3437:2' GL + 25' RKB @'
Project:	Eddy County, NM (NAD-83)	MD Reference:	3462:20usπ (Onginal Well Elev); Cactus 126: 3437.2' GL + 25' RKB @ 3462:20usπ/Original Well Elev)
Site:	Cotton Draw Unit	North Reference:	Grid
Well:	250H	Survey Calculation Method:	, Minimum Curvature
Wellbore:	250H OH		
Design:	Plan #1		

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Ťurn Rate (°/100usft)
7,875.00	20.10	177.41	7,871.59	-29.04	1.32	29.07	12.00	12.00	0.00
7,900.00	23.10	177.41	7.894.83	-38.23	1.73	38.27	12.00	12.00	0.00
7,925.00	26.10	177.41	7,917.56	-48.62	2.20	48.67	12.00	12.00	0.00
7 950 00	29.10	177 41	7 020 71	60.10	2 72	60.25	12.00	12.00	0.00
7,930.00	29.10	177.41	7,939.71	-60.19	2.73	72.08	12.00	12.00	0.00
8,000,00	35.10	177.41	7,901.25	-12.50	3.30	96.91	12.00	12.00	0.00
8 025 00	38.10	177.41	8 002 12	101.61	3.93	101 71	12.00	12.00	0.00
8,050.00	41.10	177.41	8,021.38	-117.52	5.32	117.64	12.00	12.00	0.00
8 075 00	44 10	177 41	8 030 78	-134 42	6.09	134 56	12.00	12.00	0.00
8,100.00	47.10	177.41	8 057 27	-152.26	6.90	152.42	12.00	12.00	0.00
8,125.00	50 10	177 41	8 073 81	-170 99	7 75	171 17	12.00	12.00	0.00
8 150 00	53 10	177 41	8 089 34	-190.56	8.63	190.76	12.00	12.00	0.00
8,175.00	56.10	177.41	8,103.82	-210.92	9.55	211.13	12.00	12.00	0.00
8 200 00	59 10	177 41	8 117 21	-232.00	10.51	232 24	12.00	12.00	0.00
8,225,00	62.10	177.41	8,129,49	-253.75	11.49	254.01	12.00	12.00	0.00
8,250,00	65,10	177.41	8,140.60	-276.12	12.51	276.40	12.00	12.00	0.00
8,275.00	68.10	177.41	8,150,53	-299.04	13.55	299.34	12.00	12.00	0.00
8,300.00	71.10	177.41	8,159.25	-322.44	14.61	322.77	12.00	12.00	0.00
8 325 00	74 10	177 41	8 166 72	-346 27	15 69	346 63	12.00	12.00	0.00
8,350.00	77 10	177 41	8 172 94	-370.46	16.00	370.84	12.00	12.00	0.00
8 375 00	80.10	177 41	8 177 88	-394 94	17.89	395.34	12.00	12.00	0.00
8,400.00	83.10	177 41	8,181 54	-419 64	19.01	420.07	12.00	12.00	0.00
8,425.00	86.10	177.41	8,183.89	-444.50	20.13	444.95	12.00	12.00	0.00
8 450 00	89.10	177 41	8 184 94	-469.45	21.26	469 93	12 00	12 00	0.00
8 457 54	90.10 90.00	177.41	8 185 00	-476 08	21.20	477 46	12.00	12.00	0.00
1 P	50.00		0,100.00	-470.00	21.01		12.00	12.00	0.00
8 500 00	90.00	177 41	8 185 00	-519.40	23 53	510 03	0.00	0.00	0.00
8 600 00	90.00	177.41	8 185 00	-619.29	28.05	619.93	0.00	0.00	0.00
8,700.00	90.00	177.41	8,185.00	-719.19	32.58	719.93	0.00	0.00	0.00
			0,100.00	,	0.2.00	110.00	0.00	0.00	0.00
8,800.00	90.00	177.41	8,185.00	-819.09	37.10	819.93	0.00	0.00	0.00
8,900.00	90.00	177.41	8,185.00	-918.99	41.63	919.93	0.00	0.00	0.00
9,000.00	90.00	177.41	8,185.00	-1,018.88	46.15	1,019.93	0.00	0.00	0.00
9,100.00	90.00	1/7.41	8,185.00	-1,118.78	50.68	1,119.93	0.00	0.00	0.00
9,∠00.00	90.00	177,43	8,185.00	-1,218.68	55.20	1,219.93	0.00	0.00	0.00
9,300:00	90.00	177.41	8,185.00	-1,318.58	59.73	1,319.93	0.00	0.00	0.00
9,400.00	90.00	177:41	8,185.00	-1,418.48	64.25	1,419.93	0.00	0.00	0.00
9,500.00	90.00	177.41	8,185.00	-1,518.37	68.78	1,519.93	0.00	0.00	0.00
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9,900.00	90.00	177.41	8,185.00	-1,917.96	86.88	1,919.93	0.00	0.00	0.00
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10,100.00	90.00	1/7.41	8,185.00	-2,117.76	40.45	2,119.93	0.00	0.00	0.00
10,200:00	90:00	177.41	0,100.00	-2,217.00	100.40	2,219.93	0.00	0.00	0.00
10,300:00	90.00	177.41	8,185.00	-2,317.55	104.98	2,319.93	0.00	0.00	0.00
10,400.00	90.00	177.41	8,185.00	-2,417.45	109.50	2,419.93	0.00	0.00	0.00
10,500.00	90.00	177.41	8,185.00	-2,517.35	114.03	2,519.93	0.00	0.00	0.00
10,600.00	90.00	177.41	8,185.00	-2,617.25	118.55	2,619.93	0.00	0.00	0.00
10,700.00	90.00	177.41	8,185.00	-2,717.14	123.08	2,719.93	0.00	0.00	0.00
10,800.00	90.00	177.41	8,185.00	-2,817.04	127.60	2,819.93	0.00	0.00	0.00
10,900.00	90.00	177.41	8,185.00	-2,916.94	132.13	2,919.93	0.00	0.00	0.00
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Page 5

COMPASS 5000.1 Build 72

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Planning Report

Database:	EDM-5000.1 Single User Db	Local Co-ordinate Reference:	Well 250H
Company:	ĎEVON EŇĚRGÝ	TVD Reference:	Cactūs 126: 3437.2' GL + 25' ŘKB @ 3462:20ŭsft (Original;Well Elev)
Project:	Eddy County, NM (NAD-83)	MD Reference:	; Cactus 126; 3437.2' GL + 25' ŘKB @ 3462.20usti (Onginal Well'Elev)
Site:	Cotton Draw Unit	North Reference:	Grid
Well:	250H	Survey Calculation Method:	Minimum Curvature
Wellbore:	250H OH		
Design:	Plan:#1		
Blanned Survey			* A state and the set of the s
Planned Survey	بالإستاد المحادية الاستراب المعالية المعتبان فيطاعه والمحاد والأ	يست الدينا ستعلمه بالماد بالمتحصيت والداري الدام التركية الألا والماد الأرابية	ayada yana waxaa waxa

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11,100.00	90.00	177.41	8,185.00	-3.116.73	141.18	3,119,93	0.00	0.00	0.00
11,200.00	90.00	177.41	8,185.00	-3,216.63	145.70	3,219.93	0.00	0.00	0.00
11,300.00	90.00	177.41	8,185.00	-3,316.53	150.23	3,319.93	0.00	0.00	0.00
11,400.00	90.00	177.41	8,185.00	-3,416,43	154.75	3,419,93	0.00	0.00	0.00
11,500.00	90.00	177.41	8,185.00	-3,516.32	159.28	3,519.93	0.00	0.00	0.00
11,600.00	90.00	177.41	8,185.00	-3,616.22	163.80	3,619.93	0.00	0.00	0.00
11,700.00	90.00	177.41	8,185.00	-3,716.12	168.33	3,719.93	0.00	0.00	0.00
11,800.00	90.00	177.41	8,185.00	-3,816.02	172.86	3,819.93	0.00	0.00	0.00
11,900.00	90.00	177.41	8,185.00	-3,915.91	177.38	3,919.93	0.00	0.00	0.00
12,000.00	90.00	177.41	8,185.00	-4,015.81	181.91	4,019.93	0.00	0.00	0.00
12,100.00	90.00	177.41	8,185.00	-4,115.71	186.43	4,119.93	0.00	0.00	0.00
12,200.00	90.00	177.41	8,185.00	-4,215.61	190.96	4,219.93	0.00	0.00	0.00
12,300.00	90.00	177.41	8,185.00	-4,315.50	195.48	4,319.93	0.00	0.00	0.00
12,400.00	90.00	177.41	8,185.00	-4,415.40	200.01	4,419.93	0.00	0.00	0.00
12,500.00	90.00	177.41	8,185.00	-4,515.30	204.53	4,519.93	0.00	0.00	0.00
12,600.00	90.00	177.41	8,185.00	-4,615.20	209.06	4,619.93	0.00	0.00	0.00
12,700.00	90.00	177.41	8,185.00	-4,715.09	213.58	4,719.93	0.00	0.00	0.00
12,800.00	90.00	177.41	8,185.00	-4,814.99	218.11	4,819.93	0.00	0.00	0.00
12,831.47	90.00	177.41	8,185.00	-4,846.43	219.53	4,851.40	0.00	0.00	0.00

Design Targets				ىر <del>الىر بىرىيىرى</del> بىرى بىيى . سىرى بىر بىرى بىرى بىر	بر المصحة والله محمد المحمد المحمة	and and a second se	مرحد منت سيد بلاد و ترجيعت در بليو آن دافايه الله الي	, , , , , , , , , , , , , , , , , , ,	ور باین کار باید که ایند ورد. محمد ایک کار باید ایند ایند
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL (CDU 250H) - plan hits target ce - Point	0.00 nter	0.00	0.00	0.00	0.00	419,500.51	730,689.52	32° 9' 6.503 N	103° 43' 17.370 W
PBHL (CDU 250H) - plan hits target ce - Point	0.00 nter	0.00	8,185.00	-4,846.43	219.53	414,654.08	730,909.05	32° 8' 18.532 N	103º 43' 15.137 W

Formations	مىلىپىدىيەت مەركىيى دىمىلىرىدى		and the second sec	nan andre san andre san ar	nen men han han and an and an and an and an and a second second second second second second second second second	antana ang ang ang ang ang ang ang ang ang	
	Measured Depth (usft)	Vertical Depth (usft)		Name	Lithology	Dip (°)	Dip Direction (°)
·····	705.00	693.00	Rustler			0.00	an Bhar dan san san san san san san san san san s
	1,073.00	1,061.00	Salado			0.00	
	1,105.00	1,093.00	Top Salt			0.00	
	4,155.00	4,143.00	Base Salt			0.00	
: .::	4,385.00	4,373.00	Delaware		: :::	0.00	
:	4,411.00	4,399.00	Bell Canyon			0.00	
	5,382.00	5,370.00	Cherry Canyon			0.00	
	6,765.00	6,753.00	Brushy Canyon			0.00	

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Planning Report

	Measured	Vertical	Local Co	oordinates	
Plan Annotatio	ns	تريفيات الميسم متعسير. المريد المريد الم			می میں میں میں میں میں اور
Design:	Plan #	1		<u> </u>	
Wellbore:	250H	ŎН			
Well:	250H			Survey Calculation Method:	Minimum Curvature
Site:	Cottor	Draw Unit		North Reference:	3462,20ust (Orginal Well Elev) Grid
Project: Eddý County, NM (NAD-		)-83)	MD Reference:	3462:20usft (Original Well Elev) Cactus 126: 3437.2' GL + 25' RKB @	
Database: Company:	, DEVO		er Ub	TVD Reference:	Veii 250H Cactus 126: 3437:2' GL + 25' RKB @

 (usft)	(usft)	(usft)	(usft)	Comment
7,707.54	7,707.54	0.00	0.00	KOP 12° DLS
8,457.54	8,185.00	-476.98	21.61	LP
12,831.47	8,185.00	-4,846.43	219,53	TD

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COMPASS 5000.1 Build 72

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#### NOTES REGARDING BLOWOUT PREVENTERS

### Devon Energy Production Company, L.P. Cotton Draw Unit 250H

- 1. Drilling Nipple will be constructed so it can be removed mechanically without the aid of a welder. The minimum internal diameter will equal BOP bore.
- 2. Wear ring will be properly installed in head.
- 3. Blowout preventer and all associated filings will be in operable condition to withstand a minimum of 3000psi working pressure.
- 4. All fittings will be flanged.
- 5. A fill bore safety valve tested to a minimum of 3000psi WP with proper thread connections will be available on the rotary rig floor at all times.
- 6. All choke lines will be anchored to prevent movement.
- 7. All BOP equipment will be equal to or larger in bore than the internal diameter of the last casing string.
- 8. Will maintain a kelly cock attached to the kelly.

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- 9. Hand wheels and wrenches will be properly installed and tested for safe operation.
- 10. Hydraulic floor control for blowout preventer will be located as near in proximity to driller's controls as possible.
- 11. All BOP equipment will meet API standards and include a minimum 40 gallon accumulator having two independent means of power to initiate closing operation.

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Fluid Technology

ContiTech Beattie Corp. Website: <u>www.contitechbeattie.com</u>

Monday, June 14, 2010

RE: Drilling & Production Hoses Lifting & Safety Equipment

To Heimerich & Payne,

A Continental ContiTech hose assembly can perform as intended and suitable for the application regardless of whather the hose is secured or unsecured in its configuration. As a manufacturer of High Pressure Hose Assemblies for use in Drilling & Production, we do offer the corresponding lifting and safety equipment, this has the added benefit of easing the lifting and handling of each hose assembly whilst affording hose longevity by ensuring correct handling methods and procedures as well as securing the hose in the unlikely event of a failure; but in no way does the lifting and safety equipment affect the performance of the hoses providing the hoses have been handled and installed correctly. It is good practice to use lifting & safety equipment but not mandatory.

Should you have any questions or require any additional information/clarifications then please do not hesitate to contact us.

ContiTech Beattie is part of the Continental AG Corporation and can offer the full support resources associated with a global organization.

Best regards,

Robin Hodgson Sales Manager ContiTech Beattie Corp

ContiTech Beattie Corp, 11535 Brittmoore Park Drive, Houston, TX 77041 Phone: +1 (832) 327-0141 Fax: +1 (832) 127-0148 www.contitechbeattle.com

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 DATE: 02/08/12 11:32AM

PACKING LIST

#### Ship From

PAGE: 1 OF 1

Midwest Hose & Specialty, Inc.

Ship To Cactus Drilling Co., LLC 8300 SW 15th Oklahoma City OK USA 3312 S 1-35 Service Road Oklahoma City OK 73129 USA

Midwest Hose & Specialty, Inc.

#### Bill To

Cartus Drilling Cb., LLC ATTN: Accounts Payable 8300 SW 15th Street Oklahoma City OK 73128-9594 OSA

Payment Terms	13 10 - NET 36 DAYS (INET30)
Ship Method	DELTVE
Freight Terms	Prepaid
Customer Ship	CACTUSO,1
Cartons	1
Weight	0.00
Tracking Nbrs	

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Shipping Notes:

Cust phone: 577-5347 Written by: MSMILLEY

Customer PO: JEFF WILBUR R-129 15062

#### INVOICE REQUIREMENTS:

1.Purchase Order Number and Rig # Required 2. Proof of Delivery Required \*\*\*GIVE ALL PACKING LISTS TO MENDI JACKSON TO APPROVE PRIOR TO DELIVERY

Received By: Date Received:

LINE	ITEM / DESCRIPTION	UOM	QUANTITY ORDERED	QUANTITY PREV SHIPPED	QUANTITY Back ordered	QUANTITY THIS SHIPMENT
0010	CK64-SS-10K-6410K-6410K-35.00' FT-W/LIFTER4	- BA	1,00	0.00	0.00	1.00
	Choke & KHI 10K with 10K Flanges				Unit Price: 29500.0000	Byl. Price: 29500.00
	PLA: 00137890 Ficked by: DMCLEMORE COM: 00116983 Shipped by: AMARTIN				ABOUNT FREIGHT/INSUR/HANDLE SALES TAM TOTAL	29,500.00 0.00 \$2,470.63 31,970.63

Questions? Phone: (800) 375-2358

S.C. Mark Number: ASSET#M13387

Packing List #:00137890



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Tested Hy: Consile Mislamore

Approved By: the themes

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	Midwest Hose & Specialty, Inc.							
	INTERNAL	HYDROST	ATIC TEST I	REPORT				
	Customer:	CACTUS		Customer P.O R-12	. Number: 9			
		HOSE SPECIFICATIONS						
	Type: Rotary / Vi C & K/API	brator Hose 7K		Hose Length:	35 FEET			
	I.D. 4	MOHES	0.0.	G 7/84	INCHES			
	7,500 <i>PS</i>	45,000	) PS/	N/A	PS1			
		COUR	LINGS					
	Part Number E4.0x64WB E4.0x64WB	Stem Lot Nur LOT	nber Ferrule Lot Number 10-10 LOT 10-10 10-10 LOT 10-10					
	Type of Coupling: Swage-	ŧ	Die Size: 6.56 INCHES					
	PROCEDURE							
	Huse assumbly	areasure tested wit	ir water at ambient temperature . I					
	1 3/4	NIN.	ACTORE	NVA	PSi			
	Hose Assembly Serie 137890	il Number:	Hose Serial Number: 7748					
	Commants:	<u></u>			<u>.</u>			
:	Date:	Tested:		Approved:				
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Cap. or Exp.

Equipment

Rig No.

Asset No.

er Skanton av Lassenderskater för

Job No.

For Cactus Use

EXP

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M13387

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BOP EQUIP

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Cactus Drilling Company, L.L.C. 8300 SW 15TH P.O. Box 270848 Oklahoma City, OK 73128-9594 405-577-5347 fax 405-577-9306

Purchase 15062 Order No.

unitur aquibir

Date

รากและการรูญรายสุดทางการจ

St OK

06-Feb-12

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Zip 73128

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# Ship To

Cactus Drilling Company, L.L.C.

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Name	Midwest Hose		Name	Cactus Drilling Comp	a
Attn:	Mendi Jackson		Attn:		_
Address	3312 I-35 Servic	ce Road	Address	8300 SW 15TH	
City	OKC	St. OK Zip 73129	City	Oklahoma City St	ł
Phone	405-670-6718		Phone	405-577-5347	_
- Anna an		มีผู้สำนักของ สามารถสารสารสารสารสารสารสารสารสารสารสารสารสาร	la mar and the	and the second	

Qty	Units	Description	Unit Price	Total
t	Units EA	CK64-SS-10K-6410K-6410K-35.00° FT-W/LIFTER4 Choke & Kill 10K with 10K Flanges	Unit Price \$29,500.00	Total \$29,500,000
1				

Shipping & Handling Taxes 1.6 

TOTAL

- Approval

\$29,500.00

Josh Simons Ron Tyson

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Issued

"Please include this purchase order number on your involce"

# H&P Flex Rig Location Layout



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Commitment Runs Deep



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Design Plan Operation and Maintenance Plan Closure Plan

> SENM - Closed Loop Systems June 2010

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#### I. Design Plan

Devon uses MI SWACO closed loop system (CLS). The MI SWACO CLS is designed to maintain drill solids at or below 5%. The equipment is arranged to progressively remove solids from the largest to the smallest size. Drilling fluids can thus be reused and savings is realized on mud and disposal costs. Dewatering may be required with the centrifuges to insure removal of ultra fine solids.

The drilling location is constructed to allow storm water to flow to a central sump normally the cellar. This insures no contamination leaves the drilling pad in the event of a spill. Storm water is reused in the mud system or stored in a reserve fluid tank farm until it can be reused. All lubricants, oils, or chemicals are removed immediately from the ground to prevent the contamination of storm water. An oil trap is normally installed on the sump if an oil spill occurs during a storm.

A tank farm is utilized to store drilling fluids including fresh water and brine fluids. The tank farm is constructed on a 20 ml plastic lined, bermed pad to prevent the contamination of the drilling site during a spill. Fluids from other sites may be stored in these tanks for processing by the solids control equipment and reused in the mud system. At the end of the well the fluids are transported from the tank farm to an adjoining well or to the next well for the rig.

Prior to installing a closed-loop system on site, the topsoil, if present, will be stripped and stockpiled for use as the final cover or fill at the time of closure.

Signs will be posted on the fence surrounding the closed-loop system unless the closed-loop system is located on a site where there is an existing well, that is operated by Devon.

#### II. Operations and Maintenance Plan

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*Primary Shakers*: The primary shakers make the first removal of drill solids from the drilling mud as it leaves the well bore. The shakers are sized to handle maximum drilling rate at optimal screen size. The shakers normally remove solids down to 74 microns.

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*Mud Cleaner*: The Mud Cleaner cleans the fluid after it leaves the shakers. A set of hydrocyclones are sized to handle 1.25 to 1.5 times the maximum circulating rate. This ensures all the fluid is being processed to an average cut point of 25 microns. The wet discharged is dewatered on a shaker equipped with ultra fine mesh screens and generally cut at 40 microns.



*Centrifuges*: The centrifuges can be one or two in number depending on the well geometry or depth of well. The centrifuges are sized to maintain low gravity solids at 5% or below. They may or may not need a dewatering system to enhance the removal rates. The centrifuges can make a cut point of 8-10 microns depending on bowl speed, feed rate, solids loading and other factors.

The centrifuge system is designed to work on the active system and be flexible to process incoming fluids from other locations. This set-up is also dependant on well factors.

*Dewatering System*: The dewatering system is a chemical mixing and dosing system designed to enhance the solids removal of the centrifuge. Not commonly used in shallow wells. It may contain pH adjustment, coagulant mixing and dosing, and polymer mixing and dosing. Chemical flocculation binds ultra fine solids into a mass that is within the centrifuge operating design. The

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dewatering system improves the centrifuge cut point to infinity or allows for the return of clear water or brine fluid. This ability allows for the ultimate control of low gravity solids.

*Cuttings Boxes:* Cuttings boxes are utilized to capture drill solids that are discarded from the solids control equipment. These boxes are set upon a rail system that allows for the removal and replacement of a full box of cuttings with an empty one. They are equipped with a cover that insures no product is spilled into the environment during the transportation phase.

*Process Tank:* (Optional) The process tank allows for the holding and process of fluids that are being transferred into the mud system. Additionally, during times of lost circulation the process tank may hold active fluids that are removed for additional treatment. It can further be used as a mixing tank during well control conditions.

Sump and Sump Pump: The sump is used to collect storm water and the pump is used to transfer this fluid to the active system or to the tank for to hold in reserve. It can also be used to collect fluids that may escape during spills. The location contains drainage ditches that allow the location fluids to drain to the sump.

*Reserve Fluids (Tank Farm):* A series of frac tanks are used to replace the reserve pit. These are steel tanks that are equipped with a manifold system and a transfer pump. These tanks can contain any number of fluids used during the drilling process. These can include fresh water, cut brine, and saturated salt fluid. The fluid can be from the active well or reclaimed fluid from other locations. A 20 ml liner and berm system is employed to ensure the fluids do not migrate to the environment during a spill.

If a leak develops, the appropriate division district office will be notified within 48 hours of the discovery and the leak will be addressed. Spill prevention is accomplished by maintaining pump packing, hoses, and pipe fittings to insure no leaks are occurring. During an upset condition the source of the spill is isolated and repaired as soon as it is discovered. Free liquid is removed by a diaphragm pump and returned to the mud system. Loose topsoil may be used to stabilize the spill and the contaminated soil is excavated and placed in the cuttings boxes. After the well is finished and the rig has moved, the entire location is scrapped and testing will be performed to determine if a release has occurred.

All trash is kept in a wire mesh enclosure and removed to an approved landfill when full. All spent motor oils are kept in separate containers and they are removed and sent to an approved recycling center. Any spilled lubricants, pipe

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dope, or regulated chemicals are removed from soil and sent to landfills approved for these products.

These operations are monitored by Mi Swaco service technicians. Daily logs are maintained to ensure optimal equipment operation and maintenance. Screen and chemical use is logged to maintain inventory control. Fluid properties are monitored and recorded and drilling mud volumes are accounted for in the mud storage farm. This data is kept for end of well review to insure performance goals are met. Lessons learned are logged and used to help with continuous improvement.

A MI SWACO field supervisor manages from 3-5 wells. They are responsible for training personnel, supervising installations, and inspecting sites for compliance of MI SWACO safety and operational policy.

#### III. Closure Plan

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A maximum 340' X 340' caliche pad is built per well. All of the trucks and steel tanks fit on this pad. All fluid cuttings go to the steel tanks to be hauled by various trucking companies to an agency approved disposal.



Form NM 8140-9 (March 2008)

#### United States Department of the Interior Bureau of Land Management New Mexico State Office

#### Permian Basin Cultural Resource Mitigation Fund

The company shown below has agreed to contribute funding to the Permian Basin Cultural Resource Fund in lieu of being required to conduct a Class III survey for cultural resources associated with their project. This form verifies that the company has elected to have the Bureau of Land Management (BLM) follow the procedures specified within the Memorandum of Agreement (MOA) concerning improved strategies for managing historic properties within the Permian Basin, New Mexico, for the undertaking rather than the Protocol to meet the agency's Section 106 obligations.

Company Name: <u>Devon Energy Production Co., LP</u>

Address: <u>333 W. Sheridan, OKC, OK 73102</u>

Project description: Application for Permit to Drill

Cultural Resource Inventory for the Cotton Draw Unit 250H proposed well location and access road.

Application for Permit to Drill (wells and immediate environment) -\$1552.00 well for the pad and a ¼ mile of road -Anything over ¼ mile of road is \$0.18/linear foot -Total arch cost \$1,463.00

 $5,280 = 1 \text{ mile } => \frac{1}{4} = 1,320$ Total access road:  $320.5' - \frac{1}{4}$  mile of road included (1320) = 0' over 1320' 0' x 0.20 = 0.00(See above & see well pad topo)

T.\_25<u>S</u>, R.\_<u>32E</u>, Section \_7\_\_ NMPM, Lea\_\_\_ County, New Mexico

Amount of contribution: \$ <u>1552.00</u>

Provisions of the MOA:

A. No new Class III inventories are required of industry within the Project Area for those projects where industry elects to contribute to the mitigation fund.

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B. The amount of funds contributed was derived from the rate schedule established within Appendix B of the MOA. The amount of the funding contribution acknowledged on this form reflects those rates.

C. The BLM will utilize the funding to carry out a program of mitigation at high-priority sites whose study is needed to answer key questions identified within the Regional Research Design.

D. Donating to the fund is voluntary. Industry acknowledges that it is aware it has the right to pay for Class III survey rather than contributing to the mitigation fund, and that it must avoid or

fund data recovery at those sites already recorded that are eligible for nomination to the National Register or whose eligibility is unknown and that any such payments are independent of the mitigation funds established by this MOA.

E. Previously recorded archeological sites determined eligible for nomination to the National Register or whose eligibility remains undetermined must be avoided or mitigated.

F. If any skeletal remains that might be human or funerary objects are discovered by any activities, the land-use applicant will cease activities in the area of discovery, protect the remains, and notify the BLM within 24 hours. The BLM will determine the appropriate treatment of the remains in consultation with culturally affiliated Indian Tribe(s) and lineal descendents. Applicants will be required to pay for treatment of the cultural items independent and outside of the mitigation fund.

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Trina C. Couch Company-Authorized Officer

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10/14/2014 Date

Date

BLM-Authorized Officer

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District.1 1625 N. French Dr., Hobbs, NM \$8240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II 811 S. First St., Artesin, NM 88210 Phone: (\$75) 748-1283 Fax: (\$75)-748-9720

District III 1000 Rio Brazos Road. Aztec, NM \$7410 Phone: (505) 334-6178 Fax: (505) 334-6170 District IV

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

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

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

AMENDED REPORT

		V	NELL LO	<b>JCATI</b>	ON AND ACE	REAGE DEDIC	CATION PLA	ſΤ		
٨'	API Numbe	r		2 Pool Co	de	<sup>3</sup> Pool Name				
			49460	1		Paduca; D	elaware			
<sup>+</sup> Property C	Code				<sup>3</sup> Property	Name			" Well Number	
_					COTTON DR	AW UNIT			250H	
<sup>7</sup> OGRID ?	No.				' Operator	Name		1	* * Elevation	
6137			DEV	EVON ENERGY PRODUCTION COMPANY, L.P.					3437.2	
					<sup>io</sup> Surface	Location				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/We	st line	County
1	7	25 S	32 E		100	NORTH	460	WES	ST	LEA
			" Bo	ottom Ho	ole Location I	f Different Fror	n Surface			
UL or lot no.	L or lot no. Section Township Range Lot Idn Feet from the North					North/South line	Feet from the	East/Wes	stine	County
4	7	25 S	32 E		330	SOUTH	660	WES	5т	LEA
<sup>12</sup> Dedicated Acres	<sup>13</sup> Joint o	r infili 🏼 <sup>14</sup> (	Consolidation	Code <sup>15</sup> C	)rder No.	•,,,				,
109.90 40										

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.

	N89'42'07"E	2662.90 FT N89'35'57"	2660.68 FT	"OPERATOR CERTIFICATION
	460' 🔫	N/4 CORNER SEC. 7	NE CORNER SEC. 7	I hereby certify that the information contained herein is true and complete
		LAI. = 3211520779'N LONG. = 103.7143746'W	LONG. = 103.7057795W	to the best of my knowledge and benef, and that this organization either
	ŏ	NMSP EAST (FT)	NMSP EAST (FT)	the proposed bottom hole location or base right to dell discussion dis
z	LOT 1	N = 419611.92	N = 419630.53	langting methods in a construction of his a regulation of his week at his
0.1	40.39 AC	E = 732691.36	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
L L	NW CORNER SEC.	COTTON DRAW UNIT 250H		interest, or to a volumary pooning ugreement or a compaisory pooning
1	LAI = 32.1520816 N LONC = 103.7229759 W	ELEV. = 3437.2'	00 T	order heretojore entered by the division.
N	NMSP EAST (FT)	LONG. = 103.7214917W	+	had tel 10/14/14
639	N = 419598.07	NMSP EAST (FT)	51.	Aunature Dave
22	E = 7.30229.30	E = 730689.52	60	Tring C. Couch, Regulatory Analyst
1 23	LOT 2	ł	۲ I	Printed Name
	' NMLC061863A	A Deviant Area		
	W/4 CORNER SEC.	Project Area	E/4 CORNER SEC. 7	trina.couch@dvn.com
	$LAT_{,} = 32.1448285 N_{,}$	-Producing Arca	LAT. = 32.1447996'N	E-mail Address
			LUNG. = 103./0300/5 W	
	N = 416959.45	Project Area	N = 416979.52	"SURVEYOR CERTIFICATION
	E = 730239.54		E = 735558.39	I hereby certify that the well location shown on this
_	NMLC061873	NOTE LATITUDE AND LONGTUDE COORDINATES ARE	1	plat was plotted from field ingtes of actual surveys
g	LOT B	SHOWN USING THE NORTH AMERICAN DATUM OF 1983	00	made by me orsunder my supervision, and that the
4	SW CORNER SEC. 7	(NADB3). LISTED NEW MEXICO STATE PLANE EAST. COORDINATES ARE GRID (NADB3). BASIS OF BEARING	10	same is transford addition to the barry to multiplicat
29	LAT. = 32.1375733'N	AND DISTANCES USED ARE NEW MEXICO STATE PLANE EAST COORDINATES MODIFIED TO THE SURFACE.	49	same is tracting correction mediants pay years).
×	LUNG = 103.7230040 W		+	JUNE 2. 2014
263	N = 414320.09		625	Date of Survey-
6:6	E = 730250.66	BOTTOM OF HOLE	1.36	
6 Г	LOT 4	AI = 32.1384811 N 1 ONG = 103 7208714 W	SE CORNER SEC. 7	
	40.13AC	NMSP EAST (FT)	LAT. = 32.1375763'N	Barles Whenes
	BOTTO	/ N == 414654.08 F F == 730909.05	NUSP FAST (FT)	Signature and Seal of Professional Survivor
		S/4 CORNER SEC. 7	N = 414351.76	Configurate Munchan Ell IN (CHECAND MALLIN CO. DI CO 10202
	è.	SCALED SCALED	E = 735566.66	Centricale municer: FILIMIONE, JARAMILLO, FLS (2797
	589'39'32"W	2658.63 FT 589.39.32 W	2000.00 11	300 VET NO. 2908







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