	DE	UNITED STATES PARTMENT OF THE INTE	RIOR		FORM OMB N	APPROVED 0. 1004-0135 July 31, 2010
	BUNDRY I	JREAU OF LAND MANAGEM	IENT O	CD HODDS	5. Lease Serial No. NMNM98247	July 31, 2010
	Do not use this abandoned wel	s form for proposals to drill or to re-enter an I. Use form 3160-3 (APD) for such proposals.			6. If Indian, Allottee of	or Tribe Name
	SUBMIT IN TRI	PLICATE - Other instruction	s on reverse side.	CCD	7. If Unit or CA/Agree	ement, Name and/or No.
1. Type of Well		er	0010	1 2015	8. Well Name and No. GAUCHO UNIT 2	20Y -
2. Name of Operat DEVON ENE	tor ERGY PRODUCIT	Contact: TRIN ON CO ERMail: trina.couch@dv	NA C COUCH n.com	IVED	9. API Well No. 30-025-42778	-
3a. Address DEVON ENE	RGY PRODUCIT	ON CO LP 333 WEST SHER	Phone No. (include area coo	le) CITY, OK 7	10. Field and Pool, or 8102WC025G06S22	Exploratory 23421L;BS
4. Location of We	Il (Footage, Sec., T.	R. M., or Survey Description)			11. County or Parish.	and State
Sec 29 T22S	8 R34E 200FSL 14	175FWL			LEA COUNTY O	COUNTY, NM
12	2. CHECK APPR	OPRIATE BOX(ES) TO INI	DICATE NATURE OF	NOTICE, R	EPORT, OR OTHE	R DATA
TYPE OF SU	UBMISSION		TYPE	OF ACTION		
Notice of Ir	ntent	Acidize	Deepen	Produc	tion (Start/Resume)	Water Shut-Off
S Subarran	Report	□ Alter Casing	Fracture Treat	C Reclan	nation	U Well Integrity
	кероп	Casing Repair	New Construction	Recom	plete	Other Change to Original
Final Aband	donment Notice	Change Plans	Plug and Abandon Plug Back	Tempo Water	rarily Abandon Disposal	PD
testing has been	completed. Final Ab the site is ready for fi	andonment Notices shall be filed onl nal inspection.)	ly after all requirements, incl	uding reclamation	on, have been completed,	and the operator has
determined that Devon Energ casing point	y Production Con from 5,225' to 4,4	npany, L.P. respectfully reque 88' due to well bore stability.	ests to change the 9 5/8	" intermediate	9	
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determined that Devon Energ casing point i Please find ro Thank you 14. I hereby certify Name (Printed/I Signature Approved By	ay Production Con from 5,225' to 4,4 evised drilling plan y that the foregoing is <i>Typed</i>) TRINA C C (Electronic S	true and correct. Electronic Submission #31772 For DEVON ENERGY F Committed to AFMSS for proc OUCH ubmission) THIS SPACE FOR F	SEE AT CONDI CONDI 22 verified by the BLM W PRODUCTON CO LP, se Title REGU Date 09/25 EDERAL OR STATI	" intermediate TACHE TIONS (Vell Information of to the Hob NNICK on 09/ JLATORY AN /2015 E OFFICE U	D FOR DF APPROV DF APPROV DF APPROV DF APPROV DSE DE CONTRACTOR DE CONTR	AL Z D Date

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED

OCT 1 3 2015



Gaucho Unit 20Y Update

3 messages

Stuart, Spencer <Spencer.Stuart@dvn.com> To: "Rennick, Kenneth" <krennick@blm.gov> Sun, Sep 20, 2015 at 9:30 AM

Ken,

As you requested below is our casing status and plan forward.

Surface casing is set at 2,217'

Intermediate casing is planned at 5,225'

We drilled to 3798 and lost returns. Continued to drill to 4389 start to run low on mud started to come out of the hole to wait for more volume were we got stuck at 4,316'. Free pointed, backed off and fished BHA on Thursday evening. We tripped out and laid down the fishing tools and picked up a drilling assembly and tripped back in the hole. At 2,800' we hit a bridge and washed through. After washing through the bridge we once again lost returns. We tripped back to bottom and drilled 13 feet down to 4,402', made a connection and got stuck. Worked stuck pipe and we were able to get free. Continued to drill to 4,465' and got stuck again and then unstuck. Thinking that it might be the stabilizers we came out and laid down the stabilizers and went in with a slick BHA to reduce the likelihood of the stabilizers getting hung up.

Yesterday we tripped in and tagged up at 2,824' washed and reamed the bridge. After washing through the bridge, we once again lost returns. We continued in the hole washing and reaming to bottom.

We drilled to 4,487' and attempted to make another connection and got stuck again. Worked pipe and once again got it free. On every connection we have been circulating sweeps and before making a connection back reaming the stand and pumping enough to theoretically move cutting above the loss zone at 3800' but we still continue to have issues getting stuck making connections.

What we think is happening is the loss zone (3,800') that was taking all the cuttings previously has stopped taking cuttings, but will still take fluid. As we try to circulate cutting up to the loss zone they are retained in the wellbore mix around and then when we try to make a connection they quickly fall down and stick us. We think that if we were to seal off the loss zone we could regain returns and then circulate cuttings from the well.

Our plan is to squeeze the loss zone to improve chances of regaining circulation a there by effectively removed cuttings from the well. We will keep you posted on our efforts.

Thanks,

Spencer Stuart

Devon Energy Corporation 333 West Sheridan Avenue Oklahoma City, OK 73102

Office: 405.552.3686

Cell: 580.706.1651

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Rennick, Kenneth <krennick@blm.gov> To: "Stuart, Spencer" <Spencer.Stuart@dvn.com> Mon, Sep 21, 2015 at 3:18 PM

Thank you Mr. Spencer Stuart for the information,

I did review this with the Senior Engineer at the Carlsbad Office. Just please keep us posted on the efforts.

Best Regards,

Kenneth Rennick [Quoted text hidden]

Kenneth Rennick

Petroleum Engineer Bureau of Land Management Carlsbad Field Office (575) 234-5964 krennick@blm.gov

Stuart, Spencer <Spencer.Stuart@dvn.com> To: "Rennick, Kenneth" <krennick@blm.gov> Thu, Sep 24, 2015 at 9:54 AM

Kennneth,

Last night we were able to pump the second cement plug in an effort to heal the loss zone at 3,798'. We tripped to surface to pick up a clean out assembly and clean out to bottom. At surface we found that we had left about 91' of drill pipe in the hole.

The plan forward is to trip in with a bit and tag up on the drill pipe come out with the bit and pick up fishing tools and then attempt to fish this joint of drill pipe out. I will keep you up to date on our fishing progress. Please call if you have any question.

Thanks,

Spencer Stuart

Devon Energy Corporation 333 West Sheridan Avenue Oklahoma City, OK 73102

Office: 405.552.3686

Cell: 580.706.1651

From: Rennick, Kenneth [mailto:krennick@blm.gov] Sent: Monday, September 21, 2015 4:18 PM To: Stuart, Spencer <<u>Spencer.Stuart@dvn.com</u>> Subject: Re: Gaucho Unit 20Y Update

[Quoted text hidden]



Gaucho Unit 20Y intermediate casing

Stuart, Spencer <Spencer.Stuart@dvn.com> To: "krennick@blm.gov" <krennick@blm.gov> Fri, Sep 25, 2015 at 8:53 AM

Kenneth,

Yesterday we tripped in the hole to verify the cement plug. At 3262 we stared to wash and ream with 10K WOB. We did than until 3680 where we lost returns. We continued to wash and ream to bottom. From 4200 to TD it continued to be very "sticky" when we would stop to make a connection we would get stuck and have to work it free to continue to bottom.

We have implemented best drilling practices, backreaming after drilling the stand down, extra time circulating before connections, spotting viscus pills around the BHA to prevent cutting from settling around the BHA and still resulting in getting stuck on connections.

The Base of the Salt was at 3700'. On the recently drilled Gaucho 21 Fed 3H we ran a caliper log in the intermediate and found the hole to be gauge hole at this and 500' above. We believe this will give us a good shoe and would allow for an option of 7" casing string to be set if problems are encountered.

As we discussed on the phone It is our recommendation to set pipe at the current depth 4,488' and drill ahead as planned. I have included updated cement volumes for the intermediate and production strings.

Please call if you have any questions.

Thanks,

Spencer

Casing program:

Hole Size	Hole Interval	Casing OD	Casing interval	Casing Wt (ppf)	Connection	Casing Grade
17-1/2"	0-2,217'	13-3/8"	0-2,217'	54.5	STC	J-55
12-1/4"	0'-4,488'	9-5/8"	0-4,488'	40	BTC	HCK-55
8-3/4"	4,488' - 17,901'	5-1/2"	0 - 17,901'	17	BTC	P-110

Design factors:

Casing	Collapse	Burst	Tension
13-3/8" J-55 STC	1.49	3.71	5.55
9-5/8" HCK-55 BTC	1.43	2.03	5.76
5-1/2" HCP-110 BTC	1.74	2.38	1.87

Casing	# Sks	Wt. Ib/ gal	H20 gal/sk	Yld ft3/ sack	500# Comp. Strength (hours)	Slurry Description
0.5/0%	370	12.9	9.81	1.85	14	Lead: (65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 Ibs/sack Poly-E-Flake
9-5/8"	220	14.8	6.32	1.33	6	Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake
Inter.					D\	/ Tool = 2750ft
Stage	420	12.9	9.81	1.85	14	Lead: (65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 Ibs/sack Poly-E-Flake
	210	14.8	6.32	1.33	6	Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake
5-1/2" Prod	760	11.9	12.89	2.31	n/a	Lead: (50:50) Class H Cement: Poz (Fly Ash) + 10% BWOC Bentonite + 1 lb/sk of Kol-Seal + 0.3% BWOC HR-601 + 0.5lb/sk D-Air 5000
Single Stage	2020	14.5	5.31	1.2	25	Tail: (50:50) Class H Cement: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% BWOC HR-601 + 2% bwoc Bentonite
	730	11.9	12.89	2.31	n/a	1 st Stage Lead: (50:50) Class H Cement: Poz (Fly Ash) + 10% BWOC Bentonite + 1 lb/sk of Kol-Seal + 0.3% BWOC HR-601 + 0.5lb/sk D-Air 5000
5-1/2" Prod	2020	14.5	5.31	1.2	25	1 st Stage 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
Stage					D١	/ Tool = 4538ft
Juge	20	11	14.81	2.55	22	2 nd Stage Lead: Tuned Light [®] Cement + 0.125 lb/sk Pol-E-Flake
	30	14.8	6.32	1.33	6	2 nd 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
9-5/8" Intermediate Casing Two Stage Option	1 st Stage = 2750' / 2 nd Stage = 0'	75%
5-1/2" Production Casing Single Stage Option	4288'	25%
5-1/2" Production Casing Two Stage Option	1 st Stage = 4538' / 2 nd Stage = 4288'	25%

Thanks,

Spencer Stuart

Devon Energy Corporation 333 West Sheridan Avenue Oklahoma City, OK 73102

Office: 405.552.3686

Cell: 580.706.1651

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Gaucho Unit 20Y Intermediate Casing Point Sundry

Casing and Cementing Plan Summary

The surface fresh water sands will be protected by setting 13 3/8" casing and circulating cement back to surface. The fresh water sands will be protected by setting 9 5/8" casing and circulating cement to surface. The Delaware intervals will be isolated by setting 5 1/2" casing to total depth and circulating cement above the base of the 9 5/8" casing. All casing is new and API approved.



Casing program:

Hole Size	Hole Interval	Casing OD	Casing interval	Casing Wt (ppf)	Connection	Casing Grade
17-1/2"	0 - 2,217'	13-3/8"	0-2,217'	54.5	STC	J-55
12-1/4"	0'-4,488'	9-5/8"	0-4,488'	40	BTC	HCK-55
8-3/4"	4,488' - 17,90 1'	5-1/2"	0 - 17,901'	17	BTC	HCP-110

Casing	Collapse	Burst	Tension
13-3/8" J-55 STC	1.49	3.71	5.55
9-5/8" HCK-55 BTC	1.43	2.03	5.76
5-1/2" HCP-110 BTC	1.74	2.38	1.87

Mud program:

Depth	Mud Wt. (ppg)	Visc. (cp)	Fluid loss	Type System
0-2,217'	8.4 - 8.6	1 - 3	NC	Fresh water
2,217' - 4,488'	9.8 - 10.0	1-3	NC	Brine
4,488' - 1 7,901 '	8.8 - 9.2	1-3	NC-12	Fresh water/cut brine

17,500

The necessary mud products for weight addition and fluid loss control will be on location at all times.

Pressure control equipment:

- The BOP system used to drill the intermediate hole will consist of a 13-5/8" 3M Double Ram and Annular ٠ preventer. The BOP system will be tested as per BLM Onshore Oil and Gas Order No. 2 as a 3M system prior to drilling out the surface casing shoe.
- The BOP system used to drill the production hole will consist of a 13-5/8" 3M Double Ram and Annular preventer. The BOP system will be tested as per BLM Onshore Oil and Gas Order No. 2 as a 3M system prior to drilling out the intermediate casing shoe.
- The pipe rams will be operated and checked each 24 hour period and each time the drill pipe is out of the hole. These tests will be logged in the daily driller's log. A 2" kill line and 3" choke line will be incorporated into the drilling spool below the ram BOP. In addition to the rams and annular preventer, additional BOP accessories include a kelly cock, floor safety valve, choke lines, and choke manifold rated at 3,000 psi WP.
- Devon 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.

Auxiliary Well Control and Monitoring Equipment:

- A Kelly cock will be in the drill string at all times.
- A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor at all times.
- Hydrogen Sulfide detection equipment will be in operation after drilling out the 13 3/8" casing shoe until the 5 1/2" casing is cemented. Breathing equipment will be on location upon drilling the 13 3/8" shoe until total depth is reached.

Anticipated Starting Date and Duration of Operations:

Road and location construction will begin after the BLM has approved the APD. Anticipated spud date will be as soon as a rig becomes available following BLM approval. Move in operations and drilling is expected to take 32 days.

Location and Types of Water Supply:

This location will be drilled using a combination of water mud systems (outlined in the Drilling Program). The water will be obtained from commercial water stations in the area and hauled to location by transport truck using the existing and proposed roads shown in the C-102. On occasion, water will be obtained from a pre-existing water well, running a pump directly to the drill rig. In these cases where a poly pipeline is used to transport water for drilling purposes, proper authorizations will be secured. If a poly pipeline is used, the size, distance, and map showing route will be provided to the BLM via sundry notice.

Methods of Handling Waste Material:

- Drill cuttings will be disposed of in a closed loop system.
- All trash, junk and other waste material will be contained in trash cages or trash bins to prevent scattering. When the job is completed all contents will be removed and disposed of in an approved sanitary landfill.
- The supplier will pick up salts remaining, including broken sacks, after completion of well.
- A Porto-john will be provided for the rig crews. This equipment will be properly maintained during the drilling and completion operations and will be removed when all operations are complete.
- Remaining drilling fluids will be sent to a closed loop system.
- Disposal of fluids to be transported by the following companies:
- American Production Service Inc, Odessa TX
- Gandy Corporation, Lovington NM
- I & W Inc, Loco Hill NM
- Jims Water Service of Co Inc, Denver CO

Casing	# Sks	Wt. Ib/ gal	H ₂ 0 gal/sk	Yld ft3/ sack	500# Comp. Strength (hours)	Slurry Description		
0.5 (0)	370	12.9	9.81	1.85	14	Lead: (65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 Ibs/sack Poly-E-Flake		
9-5/8"	220	14.8	6.32	1.33	6	Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake		
Inter.					D	V Tool = 2750ft		
Two Stage	420	12.9	9.81	1.85	14	Lead: (65:35) Class C Cement: Poz (Fly Ash): 6% BWO0 Bentonite + 5% BWOW Sodium Chloride + 0.125 Ibs/sack Poly-E-Flake		
	210	14.8	6.32	1.33	6	Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake		
5-1/2" Prod	760	11.9	12.89	2.31	n/a	Lead: (50:50) Class H Cement: Poz (Fly Ash) + 10% BWOC Bentonite + 1 lb/sk of Kol-Seal + 0.3% BWOC HR-601 + 0.5lb/sk D-Air 5000		
Single Stage	2020	14.5	5.31	1.2	25	Tail: (50:50) Class H Cement: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% BWOC HR-601 + 2% bwoc Bentonite		
	730	11.9	12.89	2.31	n/a	1 st Stage Lead: (50:50) Class H Cement: Poz (Fly Ash) + 10% BWOC Bentonite + 1 lb/sk of Kol-Seal + 0.3% BWOC HR-601 + 0.5lb/sk D-Air 5000		
5-1/2" Prod	2020	14.5	5.31	1.2	25	1 st Stage 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		
Stage					D	V Tool = 4538ft		
Stage	20	11	14.81	2.55	22	2 nd Stage Lead: Tuned Light [®] Cement + 0.125 lb/sk Pol-E-Flake		
	30	14.8	6.32	1.33	6	2 nd 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
9-5/8" Intermediate Casing Two Stage Option	1 St Stage = 2750' / 2 nd Stage = 0'	75%
5-1/2" Production Casing Single Stage Option	4288'	25%
5-1/2" Production Casing Two Stage Option	1 St Stage = 4538' / 2 nd Stage = 4288'	25%

Notes:

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



DEVON ENERGY

Lea County, NM (NAD-83) Gaucho Unit 20Y

OH

Plan: Plan #1

Standard Planning Report

08 September, 2015

Planning Report

Database: Company: Project: Site: Well: Wellbore: Design:	EDM 50 DEVON Lea Cou Gaucho 20Y OH Plan #1	000.1 Single User Dt I ENERGY unty, NM (NAD-83) 0 Unit	2	Local Co TVD Refe MD Refe North Re Survey C	-ordinate Refe orence: rence: ference: alculation Me	erence: thod:	Well 20Y 3427.7' GL + 3427.7' GL + Grid Minimum Cu	25' RKB @ 345 25' RKB @ 345 rvature	52.70usft 52.70usft
Project	Lea Cou	nty, NM (NAD-83)							
Map System: Geo Datum: Map Zone:	US State North Ame New Mexi	Plane 1983 erican Datum 1983 co Eastern Zone		System Da	atum:		Mean Sea Leve	əl	
Site	Gaucho	Unit							
Site Position: From: Position Uncertainty:	Мар	0.00 usft	Northing: Easting: Slot Radius:	50- 79:	4,450.40 usft 9,049.77 usft 13-3/16 "	Latitude: Longitude: Grid Conve	ergence:	-	32° 23' 2.539 N 103° 29' 54.548 W 0.45 °
Well	20Y								
Well Position	+N/-S +E/-W	-10,205.28 usft 876.15 usft	Northing: Easting:		494,245.1 799,925.9	2 usft L 2 usft L	.atitude: .ongitude:		32° 21' 21.492 N 103° 29' 45.263 W
Position Uncertainty		0.00 usft	Wellhead Ele	evation:	3,452.7	0 usft C	Ground Level:		3,427.70 usft
Wellbore	OH	en en antida la companya a		manufil random	and the second	CARDING PARA	Comment and a series		**************************************
Magnetics	Mod	lel Name	Sample Date	Declin (°	ation)	Di	p Angle (°)	Field	d Strength (nT)
		BGGM2015	9/6/2015		7.20		60.28	3	48,285
Design	Plan #1	CARLEY CONCERNING						The second states of	
Audit Notes: Version:			Phase:	PLAN	т	ie On Depth:		0.00	
Vertical Section:		Depth F	rom (TVD) usft)	+N/-S (usft)	+ (E/-W usft)		Direction (°)	
	gielo-era		5.00	0.00		0.00	na cas na pe	338.37	
Plan Sections		No Holder		0.0.20	ESCHORN			·····································	SALAR DESTRUCTION
Measured Depth Incli (usft)	nation (*)	Verti Azimuth Dep (°) (us	cal oth +N/-S ft) (usft)	+E/-W (usft)	Dogleg Rate (*/100usft)	Build Rate (°/100usfi	Turn Rate (*/100usft)	TFO (°)	Target
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10,585.54

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477.32

7,389.49

12.00

0.00

-11.91

-184.45

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358.57

0.00 PBHL (GU 20Y)

358.57 10,313.00

10,313.00

358.57

Planning Report

Database: Company:	EDM 5000.1 Single User Db DEVON ENERGY	Local Co-ordinate Reference: TVD Reference:	Well 20Y 3427.7' GL + 25' RKB @ 3452.70usft	
Project:	Lea County, NM (NAD-83)	MD Reference:	3427.7' GL + 25' RKB @ 3452.70usft	
Site: Well:	20Y	North Reference: Survey Calculation Method:	Grid Minimum Curvature	
Wellbore:	он			
Design:	Plan #1			

Planned Survey

Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate	
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.000
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	
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	
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
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	1,300.00	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	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	
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	
4,200.00	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	
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00	
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	
5,000.00	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	5 200 00	0.00	0.00	0.00	0.00	0.00	0.00	
2 21111101										

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Planning Report

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EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 20Y
DEVON ENERGY	TVD Reference:	3427.7' GL + 25' RKB @ 3452.70usft
Lea County, NM (NAD-83)	MD Reference:	3427.7' GL + 25' RKB @ 3452.70usft
Gaucho Unit	North Reference:	Grid
20Y	Survey Calculation Method:	Minimum Curvature
OH		
Plan #1		
	EDM 5000.1 Single User Db DEVON ENERGY Lea County, NM (NAD-83) Gaucho Unit 20Y OH Plan #1	EDM 5000.1 Single User Db Local Co-ordinate Reference: DEVON ENERGY TVD Reference: Lea County, NM (NAD-83) MD Reference: Gaucho Unit North Reference: 20Y Survey Calculation Method: OH Plan #1

Planned Survey

	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)	
STREET	5 400 00					(0.00				
	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	
	0,100.00									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	
	6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00	0.00	0.00	0.00	
	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	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	7,100.00	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	7,300.00	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	
	7 500 00	0.00	0.00	7 500 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	0.00	7,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
	7 800 00	0.00	0.00	7 800 00	0.00	0.00	0.00	0.00	0.00	0.00	
	7,900.00	0.00	0.00	7,900.00	0.00	0.00	0.00	0.00	0.00	0.00	
	8 000 00	0.00	0.00	8 000 00	0.00	0.00	0.00	0.00	0.00	0.00	
	8,000.00	0.00	0.00	8,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
	8,100.00	0.00	0.00	8,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
	8,200.00	0.00	0.00	8,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
	8,300.00	0.00	0.00	8,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
	8,400.00	0.00	0.00	8,400.00	0.00	0.00	0.00	0.00	0.00	0.00	
	8,500.00	0.00	0.00	8,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
	8,600.00	0.00	0.00	8,600.00	0.00	0.00	0.00	0.00	0.00	0.00	
	8,700.00	0.00	0.00	8,700.00	0.00	0.00	0.00	0.00	0.00	0.00	
	8,800.00	0.00	0.00	8,800.00	0.00	0.00	0.00	0.00	0.00	0.00	
	8,900.00	0.00	0.00	8,900.00	0.00	0.00	0.00	0.00	0.00	0.00	
	9,000,00	0.00	0.00	9,000,00	0.00	0.00	0.00	0.00	0.00	0.00	
	9 100 00	0.00	0.00	9 100 00	0.00	0.00	0.00	0.00	0.00	0.00	
	9 200 00	0.00	0.00	9 200 00	0.00	0.00	0.00	0.00	0.00	0.00	
	9 300 00	0.00	0.00	9 300 00	0.00	0.00	0.00	0.00	0.00	0.00	
	9 400 00	0.00	0.00	9 400 00	0.00	0.00	0.00	0.00	0.00	0.00	
	5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00	
	9,500.00	0.00	0.00	9,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
	9,600.00	0.00	0.00	9,600.00	0.00	0.00	0.00	0.00	0.00	0.00	
	9,700.00	0.00	0.00	9,700.00	0.00	0.00	0.00	0.00	0.00	0.00	
	9,800.00	0.00	0.00	9,800.00	0.00	0.00	0.00	0.00	0.00	0.00	
	9,835.54	0.00	0.00	9,835.54	0.00	0.00	0.00	0.00	0.00	0.00	
	KOP 12° DLS	3									
	9,850.00	1 74	358.57	9,850.00	0.22	-0.01	0.22	12.00	12.00	0.00	
	9,875.00	4.74	358.57	9,874,96	1.63	-0.04	1.63	12.00	12.00	0.00	
	9 900 00	7 74	358 57	9,899,80	4 34	-0.11	4 35	12.00	12.00	0.00	
	9 925 00	10.74	358 57	9 924 48	8 35	.0.21	8 36	12.00	12.00	0.00	
	9,950.00	13.74	358.57	9,948,91	13.65	-0.34	13.65	12.00	12.00	0.00	
	0.075.00	10.74	050.57	0.070.00	00.00	0.01	00.00	40.00	40.00	0.00	
	9,975.00	16.74	358.57	9,973.03	20.22	-0.50	20.22	12.00	12.00	0.00	

Planning Report

Database: Company:	EDM 5000.1 Single User Db DEVON ENERGY	Local Co-ordinate Reference:	Well 20Y 3427 7' GL + 25' RKB @ 3452 70usft
Project:	Lea County, NM (NAD-83)	MD Reference:	3427.7' GL + 25' RKB @ 3452.70usft
Site: Well:	Gaucho Unit	North Reference: Survey Calculation Method:	Grid Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey

Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate	
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(*/100usft)	
10,000.00	19.74	358,57	9,996.77	28.04	-0.70	28.05	12.00	12.00	0.00	
10,025.00	22.74	358.57	10,020.07	37.09	-0.93	37.10	12.00	12.00	0.00	
10,050.00	25.74	358.57	10,042.86	47.35	-1.18	47.36	12.00	12.00	0.00	
10,075.00	28.74	358.57	10,065.09	58.78	-1.47	58.80	12.00	12.00	0.00	
10,100.00	31.74	358.57	10,086.68	71.37	-1.78	71.39	12.00	12.00	0.00	
10,125.00	34.74	358.57	10,107.59	85.06	-2.12	85.09	12.00	12.00	0.00	
10,150.00	37.74	358.57	10,127.75	99.83	-2.49	99.86	12.00	12.00	0.00	
10,175.00	40.74	358.57	10,147.12	115.64	-2.89	115.68	12.00	12.00	0.00	
10,200.00	43.74	358.57	10,165.62	132.44	-3.31	132.48	12.00	12.00	0.00	
10,225.00	46.74	358.57	10,183.23	150.18	-3.75	150.23	12.00	12.00	0.00	
10,250.00	49.74	358.57	10,199.88	168.82	-4.21	168.87	12.00	12.00	0.00	
10,275.00	52.74	358.57	10,215.53	188.30	-4.70	188.36	12.00	12.00	0.00	
10,300.00	55.74	358.57	10,230.14	208.58	-5.21	208.65	12.00	12.00	0.00	
10,325.00	58.74	358.57	10,243.66	229.59	-5.73	229.67	12.00	12.00	0.00	
10,350.00	61.74	358.57	10,256,07	251.29	-6.27	251.37	12.00	12.00	0.00	
10,375.00	64.74	358.57	10,267.33	273.60	-6.83	273.68	12.00	12.00	0.00	
10,400.00	67.74	358.57	10,277.40	296.47	-7.40	296.56	12.00	12.00	0.00	
10,425.00	70.74	358.57	10,286.27	319.84	-7.98	319.94	12.00	12.00	0.00	
10,450.00	73.74	358.57	10,293.89	343.63	-8.58	343.74	12.00	12.00	0.00	
10,475.00	76.74	358.57	10,300.26	367.80	-9.18	367.91	12.00	12.00	0.00	
10,500.00	79.74	358.57	10,305.36	392.26	-9.79	392.38	12.00	12.00	0.00	
10,525.00	82.74	358.57	10,309.17	416.96	-10.41	417.09	12.00	12.00	0.00	
10,550.00	85.74	358.57	10,311.68	441.82	-11.03	441.96	12.00	12.00	0.00	
10,575.00	88.74	358.57	10,312.89	466.78	-11.65	466.93	12.00	12.00	0.00	
10,585.54	90.00	358.57	10,313.00	477.32	-11,91	477.46	12.00	12.00	0.00	
LP										
10,600.00	90.00	358.57	10,313.00	491.77	-12.28	491.93	0.00	0.00	0.00	
10,700.00	90.00	358.57	10,313.00	591.74	-14.77	591.93	0.00	0.00	0.00	
10,800.00	90.00	358.57	10,313.00	691.71	-17.27	691.93	0.00	0.00	0.00	
10,900.00	90.00	358.57	10,313.00	791.68	-19.76	791.93	0.00	0.00	0.00	
11,000.00	90.00	358.57	10,313.00	891.65	-22.26	891.93	0.00	0.00	0.00	
11,100.00	90.00	358.57	10,313.00	991.62	-24.75	991.93	0.00	0.00	0.00	
11,200.00	90.00	358.57	10,313.00	1,091.59	-27.25	1,091.93	0.00	0.00	0.00	
11,300.00	90.00	358.57	10,313.00	1,191.56	-29.74	1,191.93	0.00	0.00	0.00	
11,400.00	90.00	358.57	10,313.00	1,291.53	-32.24	1,291.93	0.00	0.00	0.00	
11,500.00	90.00	358.57	10,313.00	1,391.49	-34.73	1,391.93	0.00	0.00	0.00	
11,600.00	90.00	358.57	10,313.00	1,491.46	-37.23	1,491.93	0.00	0.00	0.00	
11,700.00	90.00	358.57	10,313.00	1,591.43	-39.72	1,591.93	0.00	0.00	0.00	
11,800.00	90.00	358.57	10,313.00	1,691.40	-42.22	1,691.93	0.00	0.00	0.00	
11,900.00	90.00	358.57	10,313.00	1,791.37	-44.71	1,791.93	0.00	0.00	0.00	
12,000.00	90.00	358.57	10,313.00	1,891.34	-47.21	1,891.93	0.00	0.00	0.00	
12,100.00	90.00	358.57	10,313.00	1,991.31	-49.71	1,991.93	0.00	0.00	0.00	
12,200.00	90.00	358.57	10,313.00	2,091.28	-52.20	2,091.93	0.00	0.00	0.00	
12,300.00	90.00	358.57	10,313.00	2,191.25	-54.70	2,191.93	0.00	0.00	0.00	
12,400.00	90.00	358.57	10,313.00	2,291.21	-57.19	2,291.93	0.00	0.00	0.00	
12,500.00	90.00	358.57	10,313.00	2,391.18	-59.69	2,391.93	0.00	0.00	0.00	
12,600.00	90.00	358.57	10,313.00	2,491.15	-62.18	2,491.93	0.00	0.00	0.00	
12,700.00	90.00	358.57	10,313.00	2,591.12	-64.68	2,591.93	0.00	0.00	0.00	
12,800.00	90.00	358.57	10,313.00	2,691.09	-67.17	2,691.93	0.00	0.00	0.00	
12,900.00	90.00	358.57	10,313.00	2,791.06	-69.67	2,791.93	0.00	0.00	0.00	
13,000.00	90.00	358.57	10,313.00	2,891.03	-72.16	2,891.93	0.00	0.00	0.00	
13,100.00	90.00	358.57	10,313.00	2,991.00	-74.66	2,991.93	0.00	0.00	0.00	
13,200.00	90.00	358.57	10,313.00	3,090.97	-77.15	3,091.93	0.00	0.00	0.00	
13 300 00	00.00	358 57	10 313 00	3 100 03	-79 65	3 101 03	0.00	0.00	0.00	

9/8/2015 3:32:04PM

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 20Y
Company:	DEVON ENERGY	TVD Reference:	3427.7' GL + 25' RKB @ 3452.70usft
Project:	Lea County, NM (NAD-83)	MD Reference:	3427.7' GL + 25' RKB @ 3452.70usft
Site:	Gaucho Unit	North Reference:	Grid
Well:	20Y	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey

Denth	In the second		Vertical		-	Vertical	Dogleg	Build	Turn
Depth	Inclination	Azimuth	Depth (weft)	+N/-S	+E/-W	Section	Rate (%/400ucft)	(%/400ucft)	(*/100ucft)
(USIT)	0	0	(usn)	(usft)	(ustt)	(usit)	(71000511)	(71000511)	(11000511)
13,400.00	90.00	358.57	10,313.00	3,290,90	-82.14	3,291.93	0.00	0.00	0.0
13,500.00	90.00	358.57	10,313.00	3,390.87	-84.64	3,391.93	0.00	0.00	0.0
13,600.00	90.00	358.57	10,313.00	3,490.84	-87.14	3,491.93	0.00	0.00	0.0
13,700.00	90.00	358.57	10,313.00	3,590.81	-89.63	3,591.93	0.00	0.00	0.0
13,800,00	90.00	358.57	10.313.00	3.690.78	-92.13	3.691.93	0.00	0.00	0.0
13,900.00	90.00	358.57	10,313.00	3,790.75	-94.62	3,791.93	0.00	0.00	0.0
14,000.00	90.00	358.57	10,313.00	3,890.72	-97.12	3,891.93	0.00	0.00	0.0
14,100.00	90.00	358.57	10,313.00	3,990.69	-99.61	3,991.93	0.00	0.00	0.0
14,200.00	90.00	358.57	10,313.00	4,090.65	-102.11	4,091.93	0.00	0.00	0.0
14,300.00	90.00	358.57	10,313.00	4,190.62	-104.60	4,191.93	0.00	0.00	0.0
14,400.00	90.00	358.57	10,313.00	4,290.59	-107.10	4,291.93	0.00	0.00	0.0
14,500.00	90.00	358.57	10,313.00	4,390.56	-109.59	4,391.93	0.00	0.00	0.0
14,600.00	90.00	358.57	10,313.00	4,490.53	-112.09	4,491.93	0.00	0.00	0.0
14,700.00	90.00	358.57	10,313.00	4,590.50	-114.58	4,591.93	0.00	0.00	0.0
14,800.00	90.00	358,57	10,313.00	4,690,47	-117.08	4,691,93	0.00	0.00	0.0
14,900.00	90.00	358.57	10,313.00	4,790.44	-119.57	4,791.93	0.00	0.00	0.
15,000.00	90.00	358.57	10,313.00	4,890.40	-122.07	4,891.93	0.00	0.00	0.
15,100.00	90.00	358.57	10,313.00	4,990.37	-124.57	4,991.93	0.00	0.00	0.
15,200.00	90.00	358.57	10,313.00	5.090.34	-127.06	5,091.93	0.00	0.00	0.
15,300.00	90.00	358.57	10,313.00	5,190.31	-129.56	5,191.93	0.00	.0.00	0.
15,400.00	90.00	358.57	10,313.00	5,290.28	-132.05	5,291.93	0.00	0.00	0.
15,500.00	90.00	358.57	10,313.00	5,390.25	-134.55	5,391.93	0.00	0.00	0.
15,600.00	90.00	358.57	10,313.00	5,490.22	-137.04	5,491.93	0.00	0.00	0.
15,700.00	90.00	358.57	10,313.00	5,590.19	-139.54	5,591.93	0.00	0.00	0.0
15,800.00	90.00	358.57	10,313.00	5,690.16	-142.03	5,691.93	0.00	0.00	0.
15,900.00	90.00	358.57	10,313.00	5,790.12	-144.53	5,791.93	0.00	0.00	0.
16,000.00	90.00	358.57	10,313.00	5,890.09	-147.02	5,891.93	0.00	0.00	0.
16,100.00	90.00	358.57	10,313.00	5,990.06	-149.52	5,991.93	0.00	0.00	0.
16,200.00	90.00	358.57	10,313.00	6,090.03	-152.01	6,091.93	0.00	0.00	0.
16,300.00	90.00	358.57	10,313.00	6,190.00	-154.51	6,191.93	0.00	0.00	0.
16,400.00	90.00	358.57	10,313.00	6,289.97	-157.00	6,291.93	0.00	0.00	0.
16,500.00	90.00	358.57	10,313.00	6,389.94	-159.50	6,391.93	0.00	0.00	0.
16,600.00	90.00	358.57	10,313.00	6,489.91	-162.00	6,491.93	0.00	0.00	0.
16,700.00	90.00	358.57	10,313.00	6,589.88	-164.49	6,591.93	0.00	0.00	0.0
16,800.00	90.00	358.57	10,313.00	6,689.84	-166.99	6,691.93	0.00	0.00	0.0
16,900.00	90.00	358.57	10,313.00	6,789.81	-169.48	6,791.93	0.00	0.00	0.0
17,000.00	90.00	358.57	10,313.00	6,889.78	-171.98	6,891.93	0.00	0.00	0.
17,100.00	90.00	358.57	10,313.00	6,989.75	-174.47	6,991.93	0.00	0.00	0.0
17,200.00	90.00	358.57	10,313.00	7,089.72	-176.97	7,091.93	0.00	0.00	0.0
17,300.00	90.00	358.57	10,313.00	7,189.69	-179.46	7,191.93	0.00	0.00	0.0
17,400.00	90.00	358.57	10,313.00	7,289.66	-181.96	7,291.93	0.00	0.00	0.0
	00.00	050 57	10 040 00	7 000 40	101 15	7 004 70	0.00	0.00	0.0

Planning Report

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Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 20Y
Company:	DEVON ENERGY	TVD Reference:	3427.7' GL + 25' RKB @ 3452.70usft
Project:	Lea County, NM (NAD-83)	MD Reference:	3427.7' GL + 25' RKB @ 3452.70usft
Site:	Gaucho Unit	North Reference:	Grid
Well:	20Y	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		
Design Targets	Ma		
Target Name			

- hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL (GU 20Y) - plan hits target cen	0.00 ter	0.00	10,313.00	7,389.49	-184.45	501,634.61	799,741.47	32° 22' 34.624 N	103° 29' 46.739 W

- Point

~	1	8 -		1.41	1 m.	-
۳	lan	An	noi	an	on	5
					~	•

	Measured	Vertical	Local Coordinates				
	Depth (usft)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment		
289943	9,835.54	9,835.54	0.00	0.00	KOP 12° DLS	THE R. LEW. NO. OF CONTRACT OF ANY ADDRESS OF	A REAL PROPERTY OF THE REAL PROPERTY OF THE REAL PROPERTY OF
	10,585.54	10,313.00	477.32	-11.91	LP		
	17,499,86	10,313.00	7,389,49	-184.45	TD		

PECOS DISTRICT CONDITIONS OF APPROVAL

GAUCHO UNIT 20Y API: 30-025-42778 Devon Energy Production Section 29, T. 22 S., R 34 E. Lea County

Original COA still applies, except for the replacement of the cement filled requirement for the 9-5/8th intermediate casing and for the 5-1/2th production casing. This has been replaced with the following:

- 1. The minimum required fill of cement behind the 9-5/8 inch intermediate casing, which shall be set at approximately 4488 feet, is:
 - a. First stage to DV tool:
 - Cement to circulate. If cement does not circulate, contact the appropriate BLM office before proceeding with second stage cement job. Operator should have plans as to how they will achieve circulation on the next stage.

Operator has proposed DV tool at depth of 2750 feet, but will adjust cement proportionately if moved. DV tool shall be set a minimum of 50 feet below previous shoe and a minimum of 200 feet above current shoe. Operator shall submit sundry if DV tool depth cannot be set in this range.

- a. Second stage above DV tool:
- Cement to surface. If cement does not circulate, contact the appropriate BLM office as outlined in the original COA. Excess calculates to 9% Additional cement may be required.

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

Option 1:

Cement should tie-back at least <u>200 feet</u> into previous casing string. Operator shall provide method of verification. Excess calculates to 25% - Additional cement may be required.

Option 2:

- b. First stage to DV tool:
- Cement to circulate. If cement does not circulate, contact the appropriate BLM office before proceeding with second stage cement job. Operator should have plans as to how they will achieve circulation on the next stage. Excess calculates to 25% - Additional cement may be required.

Operator has proposed DV tool at depth of 2750 feet, but will adjust cement proportionately if moved. DV tool shall be set a minimum of 50 feet below previous shoe and a minimum of 200 feet above current shoe. Operator shall submit sundry if DV tool depth cannot be set in this range.

- b. Second stage above DV tool:
- Cement to surface. If cement does not circulate, contact the appropriate BLM office as outlined in the original COA.

KGR 09252015