District I 1625 N French Dr., Hobbs, NM 88240 Phone (575) 393-6161 Fax (575) 393-0720 District II

Phone (375) 334-6178 Fax (375) 339-0720

District III

811 S First St., Artesia, NM 88210

Phone (575) 748-1283 Fax (575) 748-9720

District III

1000 Rio Brazos Road, Aztec, NM 87410

Phone (505) 334-6178 Fax (505) 334-6170

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

State of New Mexico

Form C-101 Revised August 1, 2011

Energy Minerals and Natural Resources
Oil Conservation Division

HOBBS OCD

Permit

1220 South St. Francis Dr.

JUN 2 5 2012

Santa Fe, NM 87505

Phone (505) 476-3460 Fax. (505) 476-3462										
APP	LICATIO	ON F				E-ENTER.	, DEEPE	N, PLUGB	ACK, OF	R ADD A ZONE
			Operator Name a					6137	² OGRID Nur	nber
	DEVON 333 W.	1 ENEI SHERI	RGY PRODUC IDAN, OKLAH	OMA (CITY, OK. 731	102 30 10 25 4064				
3929	Code 5			BUT	Property 1 TTER CUP 36	Name STATE COM	М		0	Well No. 2H
					⁷ Surfa	ce Location	n			
UL - Lot I		ownship 18S	Range 34E	Lot I	idn Feet f	•	/S Line S	Feet From 250	E/W Line E	County LEA
	1		<u> </u>		⁸ Pool I	nformatio	n			
UNDESIG	MATER MATER	BON	E SPRING							960
				A	dditional V					
9 Work 7 N	`ype		Well Type		Cable/F	-	14	Lease Type S	" G	Ground Level Elevation 3971.3°
¹⁴ Multi		TVD	15 Proposed Depth	-21	¹⁶ Forma	ation	ł	Contractor	_	18 Spud Date
No Depth to Ground		עוו	0:10605 MD:155 Distan		Bone S nearest fresh water	pring well 0 30 mile		H & P Distance to	o nearest surfa	ce water 1/2 mile
			19	Propo	sed Casing	and Cem	ent Prog	ram		
Туре	Hole Siz	e	Casing Size	Cas	ing Weight/ft	Setting Depth		Sacks of C	ement	Estimated TOC
	17 1/2"		13 3/8"		54.5#	19	1925		5	Surface
	12.1/4		9 5/8"		40#		375	1420		Surface
	8 3/4° 8 3/4°		5 1/2" 5 1/2"		<u>17#</u> 17#		992 531	22.50	0	4875'
	A 3/4		31/2			1.7.731				
			Casin	g/Cen	nent Progra	ım: Additi	onal Cor	mments		
See attached	Drilling Pla	an, Hoi	rizontal Plan & I	ВОР						
			P	ropos	ed Blowout	t Prevention	n Progra	am		
	Туре			orking P		Test Pressure			Manufacturer	
13 5/8"Trip	le Ram 2F	Z35-35	;	3,000	0#	3,000#			Shaffer	
of my knowledg	e and belief.	_	given above is true a	-		OIL CONSERVATION DIVISION				
I further certify that the drilling pit will be constructed according to NMOCD guidelines , a general permit , or an (attached) alternative OCD-approved plan . Closed Loop.						Approved By				
Printed name: B	arry W. Hunt	1	Daw W.	M	#	Title PETROLEUM BNGWEER				
Title: Permit Ag	ent	- <i>(</i>		-> ~		Approved LUN 2 6 2019 .xpiration Date				
E-mail Address:	specialtperm	utting@	gmail.com							
Date 06/20/12			Phone (575) 36	1-4078		Conditions of Approval Attached				

DISTRICT I 1625 N. French Dr., Hobbs, NM 88240 Phone (575) 393-6161 Fax (575) 393-0720 DISTRICT II 811 5 First St., Artesia, NM 88210 Phone (575) 748-1283 Fax: (575) 748-9720 DISTRICT III 1000 Rio Brazos Rd. Aztec, NM 87410 Phone (505) 334-6178 Fax (505) 334-6170 DISTRICT IV 1220 S St Francis Dr., Santa Γe, NM 87505 Phone (505) 476-3460 Fax (505) 476-3462

State of New Mexico JUN 2 5 2012 Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr.

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

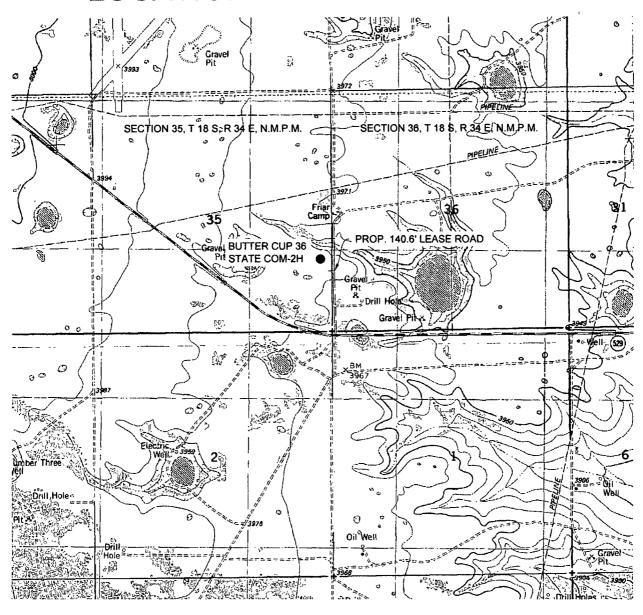
Santa Fe, New Mexico 87505

		5 20 01 1	110111		de bebleiti			
1 Number 5-4	0641	E SPRING						
de			•	Property Name			Well Nun	nber
5			BUTTI	ER CUP 36 ST	ATE COM		2H	
)				Operator Name			Elevation	on
	DEVON ENERGY PRODUCTION COMPANY, L.P. 3971.3'							
Surface Location								
Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
35	18 S	34 E		1600	SOUTH	250	EAST	LEA
	•	Botte	om Hole I	ocation If Diffe	rent From Surfac	e		
Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
36	18 S	34 E		2030	SOUTH	330	EAST	LEA
Joint or	Infill	Consolidated Cod	le Orde	r No				
	35 Section 36	Section Township 35 18 S Section Township 36 18 S	DEVOI Section Township Range 35 18 S 34 E	Section Township Range Lot Idn 36 18 S 34 E	Property Name BUTTER CUP 36 ST/Operator Name DEVON ENERGY PRODUCTION	Property Name BUTTER CUP 36 STATE COM Operator Name DEVON ENERGY PRODUCTION COMPANY, L Surface Location Section Township Range Lot Idn Feet from the North/South line 35 18 S 34 E 1600 SOUTH Bottom Hole Location If Different From Surface Section Township Range Lot Idn Feet from the North/South Line Section Township Range Lot Idn Feet from the North/South Line 36 18 S 34 E 2030 SOUTH	Property Name BUTTER CUP 36 STATE COM Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P. Surface Location Section Township Range Lot Idn Feet from the North/South line Feet from the 35 18 S 34 E 1600 SOUTH 250 Bottom Hole Location If Different From Surface Section Township Range Lot Idn Feet from the North/South line Feet from the 36 18 S 34 E 2030 SOUTH 330 SOUTH SOUT	Section Township Range Lot Idn Feet from the Bottom Hole Location If Different From Surface Section Township Range Lot Idn Feet from the Section Township Range Lot Idn Feet from the Section Township Range Lot Idn Feet from the South South South South South South Section Township Range Lot Idn Feet from the South South

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

NW COR SEC 35 NMSP-E (NAD 83) Y = 623482 1' N X = 785477 2' E LAT = N32' 42' 41 33" LONG.= W103° 32' 22 47"	NW COR SEC 36 NMSP-E (NAD 83) Y = 623525 2' N X = 790766 4' E LAT.= N32" 42' 41 36" LONG = W103" 31' 20.57"	NE COR SEC 36 NMSP-E (NAD 83) Y = 623583 4 'N X = 796034 4' E LAT.= N32" 42' 41.53" LONG = W103" 30' 18.91"	OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and bettef, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to voluntary pooling order heretofore entered by the division.
	NMSP-E Y = 6203 X = 7957 LAT.= N3	58'N	Barry W. Hung Print Name E-mail Address
BUTTER CUP 36 STATE COM 2H SHL NMSP-E (NAD 83) Y = 619839.7 N X = 790544.8' E 250 LAT = N32° 42' 04.91" — O LONG.= W103° 31' 23.49"		330'	SURVEYORS CERTIFICATION I hereby certify that the well location shown on this plat was plotted from held notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief May 15, 2012 Date of Survey Signature and Seal of Protestatia Surveyor MEL
SW COR SEC 35 NMSP-E (NAD 83) Y = 618198 5' N X = 785526 1' E LAT.= N32° 41' 49 05" LONG.= W103° 32' 22 36"	SW COR SEC 36 NMSP-E (NAD 83) Y = 618242 4' N X = 790807 4' E LAT = N32" 41' 49.09" LONG = W103" 31' 20 56"	SE COR SEC 36 NMSP-E (NAD 83) Y = 618288 8' N X = 796084 8' E LAT.= N32* 41' 49.14" LONG.= W103* 30' 18 80"	Job No. WTC48541 JAMES E, TOMPKINS 14729 Certificate Number

LOCATION VERIFICATION MAP



SCALE. 1" = 2000'

SECTION 35, T 18 S, R 34 E, N.M.P.M.

COUNTY LEA

STATE: NM

DESCRIPTION: 1600' FSL & 250' FEL

OPERATOR: DEVON ENERGY PRODUCTION COMPANY, LP.

WELL NAME: BUTTER CUP 36 STATE COM-2H

DRIVING DIRECTIONS:

FROM JUNCTION OF STATE HIGHWAY 529 AND HIGHWAYS 62/180 ABOUT 12 MILES WEST OF HOBBS, NM.. GO WEST ON HIGHWAY 529 8.1 MILES TO VAN NOY LANE. GO NORTH 1389 FEET TO THE BEGINNING OF A PROPOSED ROAD TO THE WEST AND THE LOCATION FLAG IS ON YOUR LEFT.

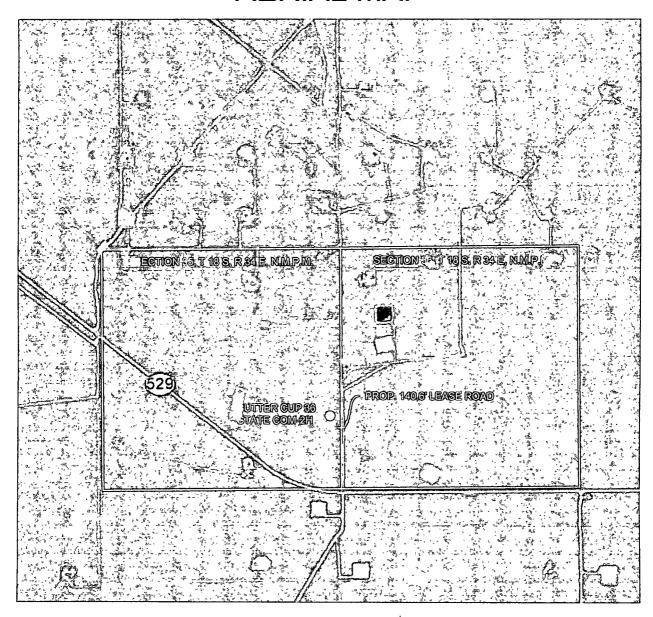


WEST TEXAS CONSULTANTS, INC ENGINEERS PLANNERS SURVEYORS 405 S.W 1st STREET ANDREWS, TEXAS 79714 (432) 523-2181



JOB No . WTC48541

AERIAL MAP



SCALE: 1" = 2000'

SECTION 35, T 18 S, R 34 E, N.M.P.M.

COUNTY: LEA

STATE: NM

DESCRIPTION: 1600' FSL & 250' FEL

OPERATOR: DEVON ENERGY PRODUCTION COMPANY, LP

WELL NAME. BUTTER CUP 36 STATE COM-2H

DRIVING DIRECTIONS:

FROM JUNCTION OF STATE HIGHWAY 529 AND HIGHWAYS 62/180 ABOUT 12 MILES WEST OF HOBBS, NM.. GO WEST ON HIGHWAY 529 8.1 MILES TO VAN NOY LANE. GO NORTH 1389 FEET TO THE BEGINNING OF A PROPOSED ROAD TO THE WEST AND THE LOCATION FLAG IS ON YOUR LEFT.

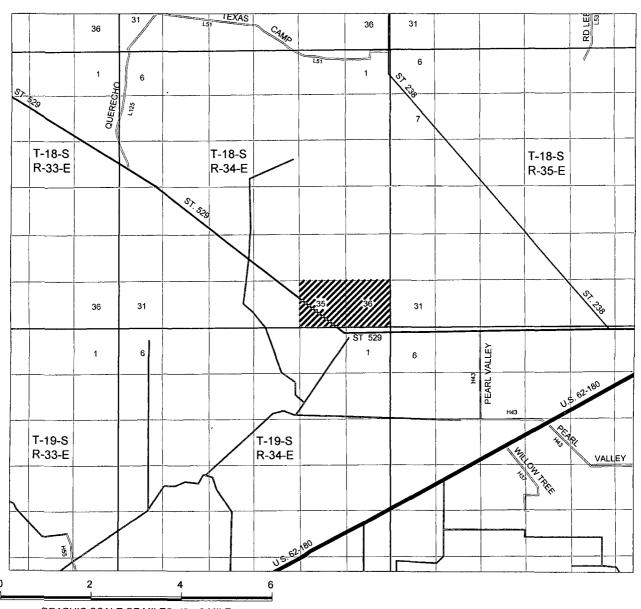


WEST TEXAS CONSULTANTS, INC.
ENGINEERS PLANNERS SURVEYORS
405 S W 1st STREET
ANDREWS, TEXAS 79714
(432) 523-2181



JOB No WTC48541

VICINITY MAP



GRAPHIC SCALE OF MILES 1" = 2 MILE

SECTION 35, T 18 S, R 34 E, N.M P.M.

COUNTY LEA

STATE: NM

DESCRIPTION: 1600' FSL & 250' FEL

OPERATOR: DEVON ENERGY PRODUCTION COMPANY, LP.

WELL NAME: BUTTER CUP 36 STATE COM-2H



FROM JUNCTION OF STATE HIGHWAY 529 AND HIGHWAYS 62/180 ABOUT 12 MILES WEST OF HOBBS, NM.. GO WEST ON HIGHWAY 529 8.1 MILES TO VAN NOY LANE GO NORTH 1389 FEET TO THE BEGINNING OF A PROPOSED ROAD TO THE WEST AND THE LOCATION FLAG IS ON YOUR LEFT.

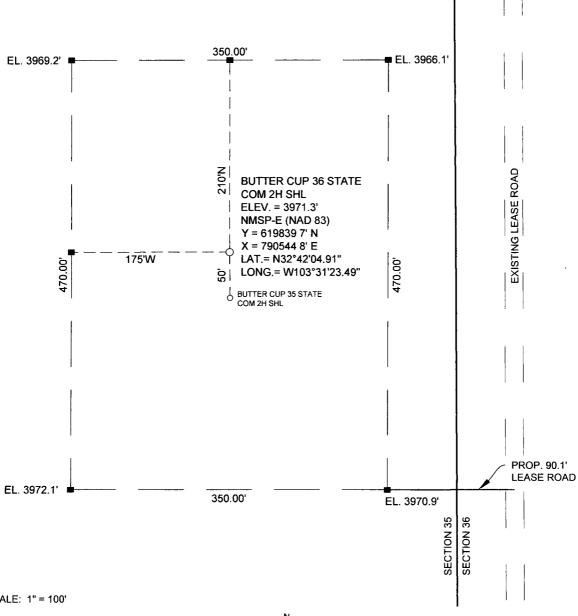


WEST TEXAS CONSULTANTS, INC. ENGINEERS PLANNERS SURVEYORS 405 S W 1st STREET ANDREWS, TEXAS 79714 (432) 523-2181



JOB No WTC48541

SITE LOCATION



SCALE: 1" = 100'

SECTION 35, T 18 S, R 34 E, N.M.P M

COUNTY: LEA

STATE. NM

DESCRIPTION: 1600' FSL & 250' FEL

OPERATOR: DEVON ENERGY PRODUCTION COMPANY, LP.

WELL NAME: BUTTER CUP 36 STATE COM-2H

DRIVING DIRECTIONS:

FROM JUNCTION OF STATE HIGHWAY 529 AND HIGHWAYS 62/180 ABOUT 12 MILES WEST OF HOBBS, $\ensuremath{\mathsf{NM}}$. GO WEST ON HIGHWAY 529 8.1 MILES TO VAN NOY LANE. GO NORTH 1389 FEET TO THE BEGINNING OF A PROPOSED ROAD TO THE WEST AND THE LOCATION FLAG IS ON YOUR LEFT.



West Texas Consultants, inc ENGINEERS PLANNERS SURVEYORS 405 S W 1st STREET ANDREWS, TEXAS 79714 (432) 523-2181



DISTRICT I
1923 N. Franch Dr. Holber, NM 812-0
1923 N. Franch Dr. Holber, 1973/794-9739
DISTRICT II
811 S. Tub Sc., Arman, NM 82210
Fromt 1970 Net-1239 Proc (173) 74-9770
DISTRICT II
1000 Bis Brown Rd., Arman, NM 67410
France (207) 324-6717 Fax. (197) 324-871
DISTRICT II
1200 S. D. Francos Dr. Brown Fa. The 87505
DISTRICT Dr. Brown Fa. The 87505
DISTRICT Dr. Brown Fa. The 87505
District (197) 324-6719 Fax. (199) 324-6719

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

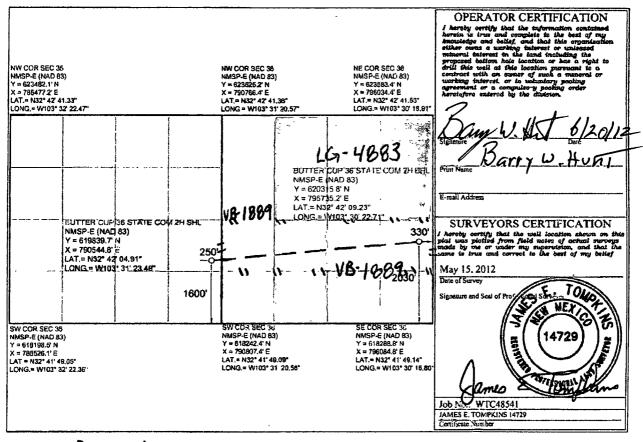
Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

□ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number				Pool Code Pool Name						
			1		ļ	UNDESI	GNATED BONI	ESPRING		
Property Co	xde	I			Property Name			Well Number		
		1		BUTT	ER CUP 36 ST	ATE COM		2H		
OGRIÐ N	0.				Operator Name			Elevati	Elevation	
6137			DEVO	N ENER(Y PRODUCTION	ON COMPANY, L	P.	3971	.3'	
		***************************************			Surface Locat	ion				
UL or lot no.	Section	Townstup	Range	Lot kom	Feet from the	North/South line	Feet from the	East/West line	County	
1	35	18 \$	34 E		1600	SOUTH	250	EAST	LEA	
		·	Bott	om Hole	ocation If Diffe	rent From Surfac	e	<u> </u>	·	
UL or lot no.	Section	Township	Range	Los Idn	Feet from the	North/South line	Feet from the	East/West line	County	
1	36	18 S	34 E		2030	SOUTH	330	EAST	LEA	
Dedicated Acres	Ioint or	lnfill	Consolidated Co	de Orde	r No.		·	· l	· · · · · ·	
160	1	i		1						

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.



11 = Project Attent □ = 16-4883 = VB-1889

Butter Cup 36 State Com 2H Drilling Plan

1. Casing and Cementing Plan Summary

The surface fresh water sands will be protected by setting 13.375" casing at 1,925' and circulating cement back to surface. The fresh water sands will be protected by setting 9.625" casing at 5,375' and circulating cement to surface. The Delaware intervals will be isolated by setting 5-1/2" casing to total depth of 15,531' and circulating cement above the base of the 9-5/8" casing. All casing is new and API approved.

2. Casing Program:

Hole Size	Hole Interval	Casing OD	Casing Interval	Weight	Collar	Grade
17.5"	0 - 1,925'	13.375"	0 – 1,925'	54.5#	BTC	J-55
12.25"	1,925' - 5,375'	9.625"	0 - 5,375'	40#	BTC	HCK-55
8.75"	5,375' - 9,992'	5.5"	0 - 9,992'	17#	LTC	P-110HC
8.75"	9,992' - 15,531'	5.5"	9,992' - 15,531'	17#	BTC	P-110HC

3. Design Factors:

Casing Size	Collapse Design Factor	Burst Design Factor	Tension Design Factor		
13.375"	1.25	3.03	9.23		
9.625"	1.52	1.41	4.31		
5.5" LTC	1.83	2.28	1.69		
5.5" BTC	1.73	2.14	6.03		

4. Cement Program:

String	Slurry	Amount and Type of Cement
Court of	Lead	1220 sacks Class C Cement + 0.125 lbs/sack Ply-E-Flake, 13.5 ppg, 1.76 cf/sk
Surface	Tail	425 sacks Class C Cement + 2% bwoc Calcium Chloride + 0.125 lbs/sack Poly-E- Flake, 14.8 ppg, 1.35 cf/sk
T-4	Lead	995 sacks EconoCem HLC+ 5% bwow Sodium Chloride + 0.125 lbs/sack Poly-E-Flake, 12.5 ppg, 2.06 cf/sk
Intermediate	Tail	425 sacks Halcem C Cement + 0.125 lbs/sack Cello Flake, 14.8 ppg, 1.33 cf/sk
Production	1 st Lead	455 sacks EconoCem H Cement+ 0.3 Econolite BWOC + .125 lb/sk Poly-E-Flake + 0.3% BWOC HR-601, 11.8 ppg, 2.54 cf/sk
Froduction	2 nd Lead	390 sacks EconoCem HLH Cement+ 0.1 HR-601 BWOC + .125 lb/sk Poly-E-Flake, 12.5 ppg, 1.95 cf/sk
	Tail	1405 sacks VersaCem H Cement + 0.5% BWOC Halad-344 + 0.3% BWOC CFR-3 + 1 lb/sk Salt + 0.2% BWOC HR-601, 14.4 ppg, 1.25 cf/sk

Drilling Program / Surface Use Plan Discipline-Specific Input Form

String	TOC			
Surface	Surface			
Intermediate	Surface			
Production	4,875'			

The above cement volumes are based on 25% excess. Actual cement volumes could be adjusted based on fluid caliper and caliper log data.

5. Pressure Control Equipment

BOP DESIGN: The BOP system used to drill the intermediate and production holes will consist of a 13-5/8 "3M Triple 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 prior 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.

6. Proposed Mud Circulation System:

Depth Range	Mud Weight	Viscosity	Fluid Loss	Type System
0 - 1,925'	8.4-9.0	28-34	NC	Fresh Water
1,925' - 5,375'	9.8-10.2	28-32	NC	Brine
5,375' - 15,531'	8.6-9.0	28-32	NC-12	Fresh Water

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

7. Auxiliary Well Control and Monitoring Equipment:

- a. A Kelly cock will be in the drill string at all times.
- b. A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor at all times.
- c. Hydrogen Sulfide detection equipment will be in operation after drilling out the 13.375" casing shoe until the 5.5" casing is cemented. Breathing equipment will be on location upon drilling the 13.375" shoe until total depth is reached.

8. Potential Hazards:

No abnormal pressures or temperatures are expected. There is no known presence of H2S in this area. If H2S is encountered the operator will comply with the provisions of Onshore Oil and Gas Order No. 6. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Estimated BHP of 3,600 psi and estimated BHT 145°. No H2S is anticipated to be encountered.

9. Anticipated Starting Date and Duration of Operations:

a. 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. If production casing is run, then an additional 30 days will be needed to complete the well and construct surface facilities and/or lay flow lines in order to place well on production.

10. 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.

11. Methods of Handling Waste Material:

- a. Drill cuttings will be disposed of in a closed loop system.
- b. 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.
- c. The supplier will pick up salts remaining, including broken sacks, after completion of well.
- d. 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.
- e. Remaining drilling fluids will be sent to a closed loop system.
- f. Disposal of fluids to be transported by the following companies:
 - i. American Production Service Inc, Odessa TX
 - ii. Gandy Corporation, Lovington NM
 - iii. I & W Inc, Loco Hill NM
 - iv. Jims Water Service of Co Inc, Denver CO

GEOLOGIC PROGNOSIS

WELL NAME:		Butter Cu	p 36 State	Com 2H	35-18S-34E				API#	: 30-025-	
•		250 FEL & 1600 FSL 35-18S-34E									
BOTTOM HOLE LOCATION	BHL 330 FEL & 2030 FSL 36-18S-34E (90 degree azimuth from surface loc.) 0.5 degree downdip										
PLANNED TD: 15,544											
KB:	3985	_ GL:	3965	MUD:	CUT BRINE (con				_ CASING	:	
RIG:						CONTAC					
PRODUCING FM		ne Spring			PC	OOL NAME	Corbin				
ESTIMATED BHP/BHT:	4600 p	si 130d		GISTS:	ZACH POL	AND AND	STEVE	BURNS			
email: Zach.Poland@		05-228-884 n/ stephen.b	9/ 405-228	-4346 com	cell (after hour mailing	s/weekend: address:	s): 405-32 3 Devon Ene	3-1411/ 405-301- ergy, 20 N Broadv		City, OK 7	3102-8260
		WELL			REFERENC		s 	<u>L</u>	OCATION		
No known hazards.			КНО	WN OR	POTENTIAL	HAZARI	DS/REM/	ARKS.		···	
No Pilot Hole											
All tops are 0 feet	Vertic	al Section	าท								
An tops are a rect	00100	<u> </u>			GEOLOGIC	MADVEC			······································		
1/0									1		
KB: FORMATION / CASI	398! NG	PROG MD	subsea	MD	MUDLOG subsea hi/k	MD	subsea	.OG hi/lo		NOTES	
QUATERNARY		20	3965	10.5							
RUSTLER DOL.		1889	2096				. ?		* , ×t ,	į	· · ·
SALADO SALT		2170	1815								
BASE SALT		3340	-645		ļ	_					
YATES SS		3445	540			┦					
QUEEN SS.		4720	-735			<u> </u>					
GRAYBURG	r	5300	-1315	, , ,,,,			1 .				
DELAWARE		6986	-3001			┦	<u> </u>				· · · · · · · · · · · · · · · · · · ·
1ST BONE SPRING LM.		7975	-3990	ļ.,		┧		. , -,			
1ST BONE SPRING SS.	Till 1	¥9320 ×	-5335	The second		1 2 2 2				<u>.,, (4 i., .</u>	- , , , , ,
2ND BONE SPRING LM	.,	9520	-5535			┧	3				
2ND BONE SPRING SS		9860	-5875	- 4.87	14 10 10 1 10 1 10 1 10 1 10 1 10 1 10					4.	
3rd Bone Spring Lime	21	10000	-6015	1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m				1649 W 164		[, , , , , , ,	
3rd Bone Spring Sand	•	10420	-6435	J3 60				. , , , , , , , , , , , , , , , , , , ,	64		··· , ·· , ·· , ·· -
3rd Bone Spring Sand Targ	et	10600	-6615		2000	1 2 3 3 00 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		in the same		arget OIL	1. 1. K. K. K

Total Depth

MUDLOGGING PROGRAM

 ${\color{red}2\,\text{MAN SERVICE CASING TO TD. MORNING REPORT AT 9AM OKLAHOMA CITY TIME TO ZACH POLAND.}\\$

Weatherford Surface Logging Systems

DEVON ENERGY OPEN HOLE LOGGING PROGRAM

WELL NAME:	-	om 2H 35-18S-34E API#. 30-025-								
SURFACE LOCATION:	Butter Cup 36 State Com 2H 35-18S-34E API#. 30-025- 250 FEL & 1600 FSL 35-18S-34E 330 FEL & 2030 FSL, downdip .5 degrees (') 36-18S-34E									
BOTTOM HOLE LOCATION										
PLANNED TD:	330 T EE & 2030 T SE,	PRIMARY OBJECTIVE: 3rd BONE SPRING SAND								
KB: 3985	GL: 3965	MUD: CUT BRINE (confirm on location) BIT: CASING:								
RIG		RIG CONTACT:								
PRODUCING FM.:	3rd Bone Spring	POOL NAME: Corbin								
ESTIMATED BHP/BHT:	4600 psi 130degF	T OOL IV WILL								
		OGISTS: ZACH POLAND AND STEVE BURNS								
office: email: Zach.Poland@dvn.co COMPANY:	405-228-8849/ 405-228 m/ stephen.burns@dvn									
LOGGING ENGINEER:										
EOOSING ENGINEER.	LOG	LOGGING SERVICES DEPTH INTERVALS								
***	1st descent	1st descent								
1	13t descent	13t deadent								
<u>`</u>										
	Horizontal	Horizontal .								
G	amma Ray while drilling	Kickoff to TD								
the state of	3rd descent	3rd descent								
1										
		d or Steve Burns AS SOON AS YOU ARRIVE AT THE WELLSITE.								
PLEASE INCLUDE NEUTRO	N-DENSITY LOGS ON	A LIMESTONE MATRIX								
PLEASE INCLUDE SONIC P	OROSITY LOG ON A L	IMESTONE MATRIX								
No known hazards.	KNO	WN OR POTENTIAL HAZARDS/REMARKS.								
CALIBRATIONS: Refore &	ofter checks of all tools o	LOGGING INSTRUCTIONS on location Present all calibrations and parameters on logs.								
		Present in-pipe checks on logs @ 5"/100".								
~ · · · · · · · · · · · · · · · · · · ·		adings. Label cycle skips, splices, tension pulls, fluid levels, repeat logs.								
TOOL DIAGRAM: Present to										
SCALES & PRESENTATION										
· · · · ·		6 to 16 inches (track 1); cable tension (track 1); bulk density (2 to 3),								
neutron porosity (0.30 to -0.10										
•										
		6 to 16 inches (track 1); cable tension (track 1); crossplot porosity (0.30 to -0.10),								
density porosi	tv (0.30 to -0.10), neutro	on porosity (0.30 to -0.10), PE 0 to 10 (track 2), density correction (-0.1 to 0.9) (track 2)								

PROJECT DETAILS. Lea County (NAD83)
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsold: GRS 1980
Zone: New Mexico Eastem Zone
System Datum: Mean Sea Level
Local North: Grid

A Schlumberger Company

(u/usn ooz) (+)uvon(-)unos West(-)/East(+) (200 usft/in)

South(-) North(-) (100 us Nin)

Plan: Plan #2 (#2H/OH)

Project: Lea County (NAD83)
Site: Butter Cup 36 State Com
Well: #2H
Wellbore: OH

WELL BORE TAXOET DETAILS (MAD CO ORDINATES)

PERL (Briter Cup 38 State RZPI) 1005.5.3 476.1 5191.4 62015 800 78273.200 Point

State of the stat True Vertical Depth (200 usft/in)

WELL DETAILS, #2H

Azi 0.00 0.00 84 76 170 9992.0 19564.9 10605.3

*N/-S 0.0 51.9 476.1

0.00 0.00 0.00

TFace 0 00 0.00 84.76 0 00

VSect 0.0 0.0 568.0 5212.2

Target

PBHL (Butter Cup 36 State #2H)

SECTION DETAILS +E/-W 0.0 0.0 565 6 5190 4

Azimuths to Grid North True North: -0.44° Magnetic North: 7.04°

Magnetic Field Strength: 48808.1snT Dip Angle: 60.61° Date: 6/4/2012 Model: IGRF2010

Created By. Sam Biffle

Date: 13 51, June 05 2012

Plan. Plan #2 (#2H/OH)