<u>District 1</u> 1625 N. French Dr., Hobbs, NM 88240 Phone (575) 393-6161 Fax: (575) 393-0720 District II

811 S First St , Artesia, NM 88210 Phone (575) 748-1283 Fax (575) 748-9720 District III 1000 Rio Brazos Road, Aztec, NM 87410 Phone (505) 334-6178 Fax (505) 334-6170

District IV 1220 S St Francis Dr , Santa Fe, NM 87505

State of New Mexico

Form C-101 Revised August 1, 2011

Energy Minerals and Natural Resources

HOBBS OCD

Permit

Oil Conservation Division

1220 South St. Francis Dr.

JUN 2 5 2012

Santa Fe, NM 87505

Phone (505) 476-3	3460 Fax (505) 47	6-3462							. REC	EIVED		
API	PLICATI	ON FO		PERMI'			E-ENTER	R, DEEPI	EN, PLUGE 6137	OGRID Nu	R ADD A ZONE	
	DEVO 333 W.	N ENER SHERII	GY DAN	PRODUC I, OKLAH	TION IOMA	COMPANY, I CITY, OK. 73	P. 102		30-0	³API Num	1ber 40640	
Property Code 39295 BUTTER CUP 36					Name STATE CO)M			Well No. 1H			
<u> </u>						⁷ Surfa	ce Locatio	n		- 		
UL - Lot P	Section T	Township 18S		Range 34E	Loi	Idn Feet 50	from 1	N/S Line S	Feet From 200	E/W Line E	County LEA	
						⁸ Pool I	nformatio	n				
HITS UNDESI	ተィነው GNATED	BONI	E SI	PRING		-					960	
					F	Additional V						
9 Work			10	Well Type		11 Cable/	-	13	Lease Type	13	Ground Level Elevation 3970.8°	
	ltiple	 -		posed Depth		16 Form		1	⁷ Contractor		18 Spud Date	
Depth to Grou		1	106	25 MD:15		Bone S			H&P	to negrect curf	ace water 1/2 mile	
Departo Grou	nd water 150										acc water 1/2 time	
70		<u> </u>	Ω,	1		osed Casing	Ī		l		T. () 1700	
Туре	Hole Si			ng Size	Casing Weight/ft		Setting Depth		Sacks of		Estimated TOC Surface	
	12.1/4			5/8"	54.5# 40#		1925 5375		147		Surface	
	8 3/4			1/2"	17#		10.011		224	45	4875'	
	8 3/4	!"	_5_	1/2"	17#		1.5486		 			
		L		Casin	ıg/Ce	ment Progra	 am: Addit	tional Co	mments			
See attache	d Drilling P	lan, Hori	izon		<u> </u>							
					rono	sed Blowou	t Preventi	on Prog	ram			
<u>.</u>	Туре		T			Pressure		Test Press			Manufacturer	
13 5/8"Tr	riple Ram 2I	FZ35-35	\dashv		3,00			3,000			Shaffer	
of my knowled I further cert	dge and belief.	: rilling pit	will	be construct	ted acco	ording to		OIL C	ONSERVA	ΓΙΟΝ DIV	ISION	
NMOCD guidelines, a general permit, or an (attached) alternative OCD-approved plan Closed Loop.					Approved By							
Printed name	Barry W. Hur		ar	rW.	He.		Title:	PETA	OFERIN EM	HESP		
Title: Permit A	Agent	/	<u>//</u>				Approved	N 26	2 <u>0</u> 12_	Expiration Date	:	
E-mail Addres	ss: <u>specialtperr</u>	mitting@g	mail.	com								
Date: 06/20/12	2		Ph	one (575) 36	51-4078		Conditions of	f Annroval Att	tached			

DISTRICT 1
1623 N French Dr., Hobba, NM 88240
Phone (757) 393-6161 Fax: (375) 393-4720
DISTRICT II
811.5 First St., Arteus, NM 88210
Phone (575) 748-1283 Iax (375) 748-9720 DISTRICT III
1000 Rto Brazos Rd., 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

HOBBS OCD

Form C-102 Revised August 1, 2011

Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION

JUN 2 5 2012 Submit one copy to appropriate

1220 South St. Francis Dr. Santa Fe, New Mexico 87505

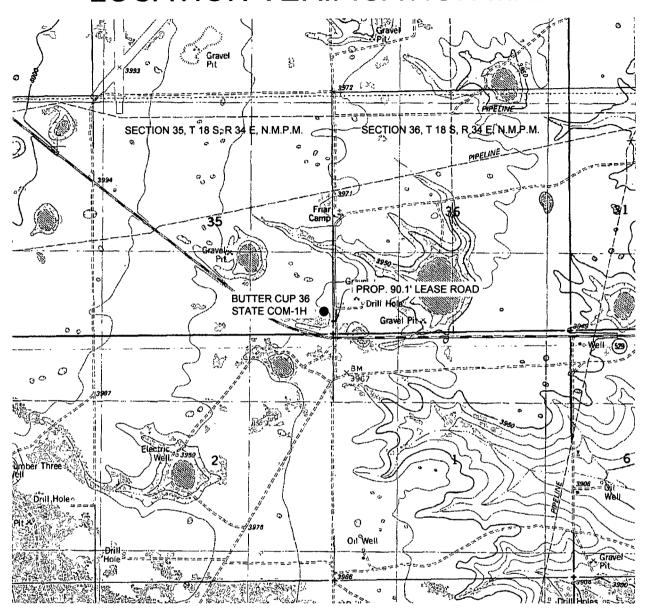
☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

		WI	ELL LUCA	TION A	IND ACKEA	OE DEDICAT	IONILAI		
30-08	PI Number 95-41	0640	0	Pool Code	Air	Str. PUNDESH	Pool Name GNATED-BONE	E SPRING	
Property Co	Property Code Property Name							Well Nur	nber
3929	5	}		BUTT	ER CUP 36 ST	ATE COM		1H	l
OGRID N	lo				Operator Name			Elevate	on
6137		1	DEVO	N ENERG	SY PRODUCTION	ON COMPANY, L	P.	3970	.8'
					Surface Locat	ion			
UL or lot no	Section	Townsh	ip Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Р	35	18 S	34 E		500	SOUTH	200	EAST	LEA
			Bott	om Hole I	Location If Diffe	erent From Surfac	e		
UL or lot no	Section	Townsh	ip Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Р	36	18 S	34 E	£	500	SOUTH	330	EAST	LEA
Dedicated Acres	Joint or	lofill	Consolidated Co	de Orde	r No	,			
160									
No allowable w division.	ill be assign	ned to th	is completion u	intil all inte	rests have been co	onsolidated or a non-		been approved by	
							I hereby certify t	THE CENTIFICATION of the the information of the complete to the bes	ontained

			OPERATOR CERTIFICATION
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"	I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hale 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 agreement or a compulsory pooling order heretofore entered by the division.
			Spenture Barry W Hunt
			Print Name Sarry W. Hunt
			E-mail Address
			SURVEYORS CERTIFICATION
	BUTTER NMSP-E (CUP 36 STATE COM 1H BHL	I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief
BUTTER CUP 36 STATE COM 1H SHI			May 15, 2012
NMSP-E (NAD 83)	X = 79575		Date of Survey
Y = 618740.2' N X = 790603 4' E 20		2° 41' 54.09" 1/103° 30' 22.67' 330'	Signature and Seal of Professional Surveyor OMO
LAT.= N32° 41' 54.03" — O LONG = W103° 31' 22.90" 500'		500'	S CO MEXICATED
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'	14729
			Job No WTC48541
			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: 500' FSL & 200' FEL

OPERATOR: DEVON ENERGY PRODUCTION COMPANY, LP.

WELL NAME: BUTTER CUP 36 STATE COM-1H

DRIVING DIRECTIONS:

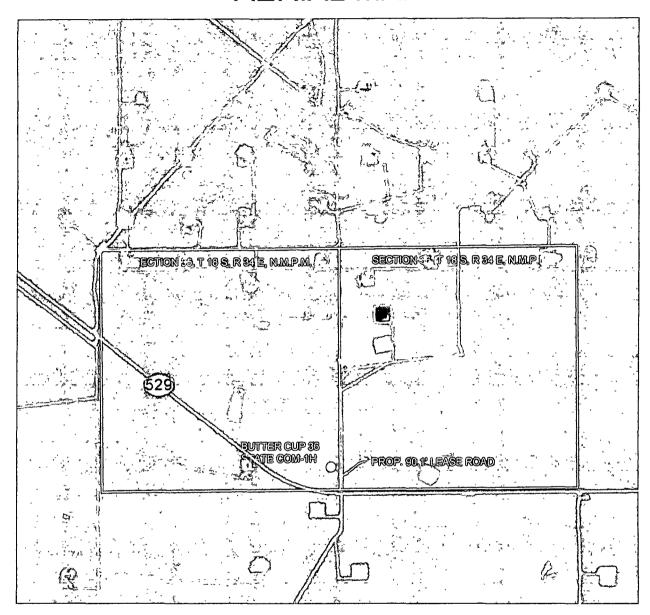
FROM JUNCTION OF STATE HIGHWAY 529 AND HIGHWAYS 62/180 ABOUT 12 MILES WEST OF HOBBS, NM.. GO WEST ON HIGHWAY 529 8.1 MILES TO VAN NOY LANE. GO NORTH 340 FEET TO THE BEGINNING OF A PROPOSED ROAD TO THE WEST AND THE LOCATION FLAG IS ON YOUR LEFT.



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



AERIAL MAP



SCALE: 1" = 2000'

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

COUNTY: LEA

STATE: NM

DESCRIPTION: 500' FSL & 200' FEL

OPERATOR: DEVON ENERGY PRODUCTION COMPANY, LP.

WELL NAME: BUTTER CUP 36 STATE COM-1H



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 340 FEET TO THE BEGINNING OF A PROPOSED ROAD TO THE WEST AND THE LOCATION FLAG IS ON YOUR LEFT.

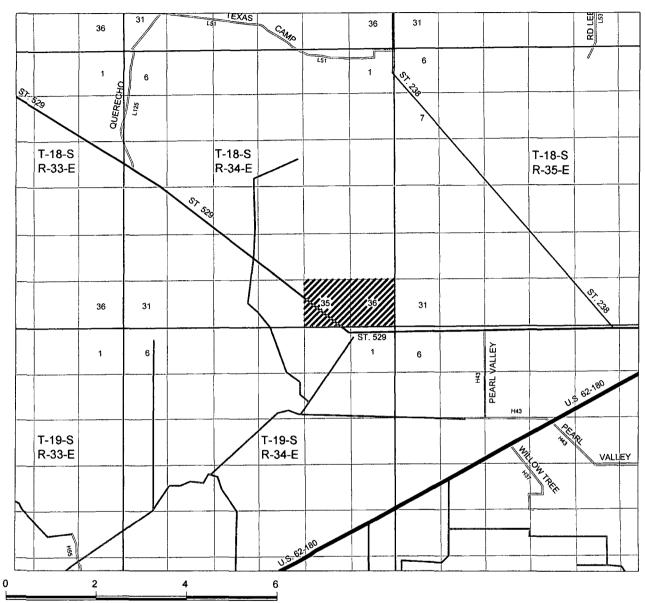


WEST TEXAS CONSULTANTS, INC. ENGINEERS PLANNERS SURVEYORS 405 S W 1st STREET ANDREWS, TEXAS 79714 (432) 523-2181



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: 500' FSL & 200' FEL

OPERATOR: DEVON ENERGY PRODUCTION COMPANY, LP.

WELL NAME: BUTTER CUP 36 STATE COM-1H



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 340 FEET TO THE BEGINNING OF A PROPOSED ROAD TO THE WEST AND THE LOCATION FLAG IS ON YOUR LEFT.

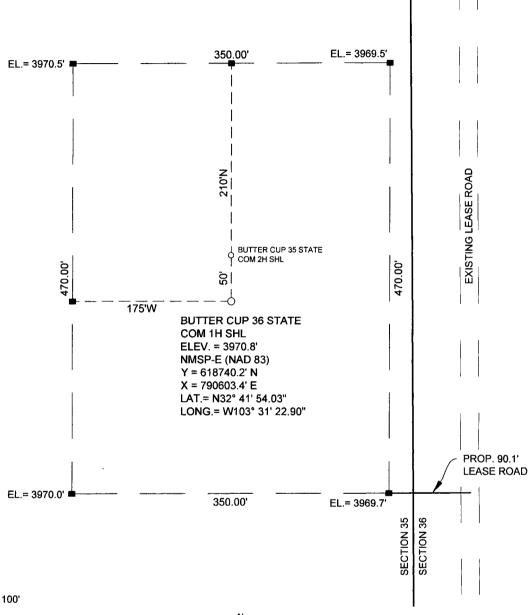


WEST TEXAS CONSULTANTS, INC. ENGINEERS PLANNERS SURVEYORS 405 S W 1st STREET ANDREWS, TEXAS 79714 (432) 523-2181



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: 500' FSL & 200' FEL

OPERATOR: DEVON ENERGY PRODUCTION COMPANY, LP

WELL NAME: BUTTER CUP 36 STATE COM-1H

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 340 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

DISTRICT 1
(IGS N Final Dr. Fisher, INC BEAD
PRICE (173) 199-4401 [bz. (373) 199-1732
DISTRICT 11
811.8 Final Br. Antein, INC 8220
Recen (177) 174-120 Fex (179) 74-972
DISTRICT 11
1000 Ros Resea 84. Antein, INC 8240
Final COS) 134-647 Final COS) 134-6477
DISTRICT INC 8203 134-6477
Prices (205) 134-6477
DISTRICT 10-503 134-6477
DISTRICT 10-503 134-6477
DISTRICT 10-503 134-6477
120 S. N. Fancas Dr. Sense 14. N.M 65705
Shower (205) 1-64-50 Final (163) 74-5-1407

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

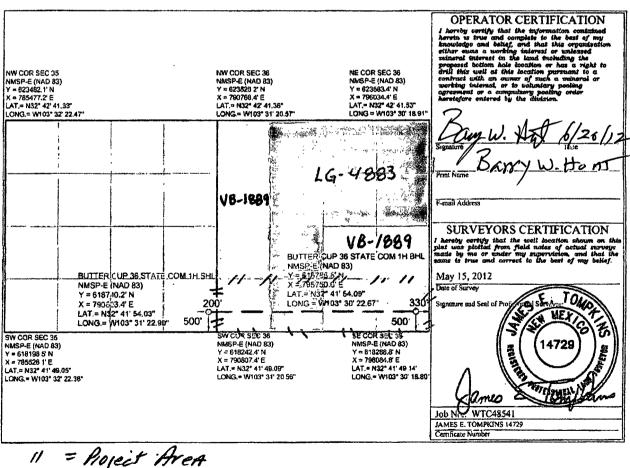
Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

	Pl Number		JL LOCA						
А	API Number			Pool Code Pool Name					
						UNDESI	GNATED BON	E SPRING	
Property Code					Property Name			Well Number	
				BUTT	ER CUP 36 ST	ATE COM		1H	
OGRIDN	ō				Operator Name		······································	Flevati	OKL
6137			DEVO	N ENERG	Y PRODUCTION	ON COMPANY, L	.,P.	3970.8'	
		·			Surface Locat	ion ·			
UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
Р	35	18 \$	34 E		500	SOUTH	200	EAST	LEA
		4	Bott	om Hole L	ocation If Diffe	rent From Surfac	e		
UL or lot no	Section	Township	Range	Lot libs	Feet from the	North/South line	Feet from the	East/West line	County
Р	36	18 S	34 E		500	SOUTH	330	EAST	LEA
Dedicated Acres	Iount or	Infill	Consolidated Con	c Order	No.				
160	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.



//	= Project Hre	A
	= LG-4883	
. ,	= VB-1889	

Butter Cup 36 State Com 1H 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 15,486' 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' - 10,011'	5.5"	0 - 10,011'	17#	LTC	P-110HC
8.75"	10,011' - 15,486'	5.5"	10,011' - 15,486'	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	2.27	1.69
5.5" BTC	1.73	2.14	6.10

4. Cement Program:

String	Slurry	Amount and Type of Cement
Surface	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 Całcium Chloride + 0.125 lbs/sack Poly-E- Flake, 14.8 ppg, 1.35 cf/sk
	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, 2.52 cf/sk
Troudenon	2 nd Lead	390 sacks EconoCem HLH Cement+ 0.1 HR-601 BWOC + .125 lb/sk Poly-E-Flake, 12.50 ppg, 1.95 cf/sk
	Tail	1400 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, 1.24 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' - 15,486'	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.

Drilling Program / Surface Use Plan Discipline-Specific Input Form

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

Butter Cup 35 State 217 35-18S-34E API#: 30-025-WELL NAME: 200 FEL & 500 FSL 35-18S-34E SURFACE LOCATION **BOTTOM HOLE LOCATION** BHL 330 FEL & 500 FSL 36-18S-34E (90 degree azimuth from surface loc 0.5 degree downdip PRIMARY OBJECTIVE: 3rd BONE SPRING SAND PLANNED TD: KB: 3985 GL: 3965 MUD CUT BRINE (confirm on location) CASING: RIG. RIG CONTACT: 3rd Bone Spring POOL NAME: Corbin PRODUCING FM.: 4600 psi ESTIMATED BHP/BHT: 130degF **GEOLOGISTS: ZACH POLAND AND STEVE BURNS** cell (after hours/weekends): 405-323-1411/ 405-301-4852 home: office: 405-228-8849/ 405-228-4346 mailing address: Devon Energy, 20 N Broadway, Oklahoma City, OK 73102-8260 email: Zach.Poland@dvn.com/ stephen.burns@dvn.com **REFERENCE WELLS WELL LOCATION** KNOWN OR POTENTIAL HAZARDS/REMARKS. No known hazards. No Pilot Hole All tops are 0 feet Vertical Section **GEOLOGIC MARKERS** KB: 3985 **PROGNOSIS MUDLOG** E-LOG FORMATION / CASING MD subsea MD subsea hi/lo MD subsea hi/lo **NOTES QUATERNARY** 3965 RUSTLER DOL. 1889 2096 SALADO SALT 2170 1815 BASE SALT 3340 -645 YATES SS 3445 540 QUEEN SS. 4720 -735 -1315 GRAYBURG 1 5300 DELAWARE -3001 6986 1ST BONE SPRING LM. 7975 -3990 1ST BONE SPRING SS. -5335 9320 2ND BONE SPRING LM -5535 9520

Total Depth

2ND BONE SPRING SS

3rd Bone Spring Sand

3rd Bone Spring Sand Target

3rd Bone Spring Lime

MUDLOGGING PROGRAM

Primary Pay Target OIL

....

-5875

-6015

-6435

-6635

9860

10000

10420

10620

DEVON ENERGY OPEN HOLE LOGGING PROGRAM

WELL NAME:	Butter Cup 35 State 2H 35-18S-34E API# 30-025-								
SURFACE LOCATION:	200 FEL & 500 FSL 35-18S-34E 330 FNL & 450 FWL, updip 2.5 degrees (estimated lateral length 4500')								
BOTTOM HOLE LOCATION									
PLANNED TD:	<u> </u>	PRIMARY OBJECTIVE:			· · · · · · · · · · · · · · · · · · ·				
KB: 3985	GL: 3965	MUD: CUT BRINE (confirm							
RIG:			ONTACT:	·					
PRODUCING FM.:	3rd Bone Spring		NAME: Corbin						
ESTIMATED BHP/BHT:	4600 psi 130degF								
LOTHWITED DIN /DITT.		GISTS: ZACH POLANI	AND STEVE	BURNS					
office. email: Zach.Poland@dvn.co	405-228-8849/ 405-228-4 m/ stephen burns@dvn.c	com mailing add	ress Devon Ener	1411/ 405-301-4852 home: gy, 20 N Broadway, Oklahoma	City, OK 73102-8260				
LOGGING ENGINEER:	***************************************		· · · · · · · · · · · · · · · · · · ·						
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1 3	3rd descent	2 3		3rd descent					
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	Ÿ - ·		1 .	2					
PLEASI	E CALL Zach Poland	or Steve Burns AS SO	ON AS YOU AF	RRIVE AT THE WELLSITE					
			.= ::						
					· · · · · · · · · · · · · · · · · · ·				
PLEASE INCLUDE NEUTRO	N-DENSITY LOGS ON A	LIMESTONE MATRIX							
PLEASE INCLUDE SONIC P									
No known hazards.	KNOW	/N OR POTENTIAL HA	ZARDS/REMA	RKS.					

		LOGGING INSTRU	ICTIONS						
CALIBRATIONS: Before & a	fter checks of all tools on			ters on logs					
IN-PIPE CHECKS: 20' or mo				ters on logs.	· · · · · · · · · · · · · · · · · · ·				
MAIN LOG LABELS: Label a				fluid levels, reneat logs					
TOOL DIAGRAM: Present to		ingo: Lasor oyolo onipo, opi	ioos, torioieri pane,	, maid totalo, topour togo.					
SCALES & PRESENTATION				·····					
2"/100 LOG: Spectral GR 0 t		to 16 inches (track 1) cable	tension (track 1): I	bulk density (2 to 3).	***************************************				
neutron porosity (0.30 to -0 10	······	The most of the state of the st		(2007)					
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	,,			-					
5"/100 LOG: Spectral GR 0 t	o 100 (track 1); caliper 6 t	to 16 inches (track 1): cable	tension (track 1): (crossplot porosity (0 30 to -0.10)).				
				lensity correction (-0.1 to 0.9) (tr					



PROJECT DETAILS: Lea County (NADB3)
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastem Zone
System Datum: Mean Sea Level
Local North: Grid



A Schlumberger Company

_!	South Lease L	(-)/North(+)	(200 usft/in)			•		
	330: Hard			SECTION DETAILS 3. PETAM Dieg TFace VSect Target 3. 0. 0.0. 0.00 0.00 0.0 3. 0.0. 0.00 0.00		Azimuths to Grid North True North: -0.44* Magnetic North: 7.04* Magnetic Fleid Strength: 48806.3snT Dip Angle: 60.61* Date: 64/2012 Model: IGRF2010	Plan Plan 82 (#14/OH)	
West(-)/East(+) (200 usft/in)				Sec MD Inc Azi TVD +44/2 1 00 0.00 000 0.0 0.0 2 100148 0.00 0.00 100148 0.0 3 100904 00 500 00.4 10584 7 5 0 4 154858 00.50 00.40 105248 456	8.2			
		S 10 10 TO 80 26 TH THE THE THE THE THE THE THE THE THE		WELL DETAILS: #1H Ground Elevation: XB = 19 @ 3389 8ustt (Mc/ay 8) Rig Name Mc/ay 8 Rig Name Mc/ay 8 Laittiude Longluide Slot 730603 400 32.698 -103 523	WELLBORE TARGET DETAILS (MAP CO-ORDINATES) TVD +N.S +EJ-W Northing Easting Shape 1H) 10824 8 4S.6 5146 618785 900 795750 000 Point			
Lea County (NAD83) Butter Cup 36 State Com	#1H OH #2 (#1H/OH)			N	Name Name PBHL(Buttar Cup 36 State #			## ## ## ## ## ## ## ##
Project: Site:	Well: Wellbore: Plan: Plan #							- 1 4 4

Committees for Committees of C

Date: 13 47, June 05 2012 Date.

Created By. Sam Biffle Checked