State of New Mexico Energy Minerals and Natural Resources

Form C-101 May 27, 2004

1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV

Oil Conservation Division 1220 South St.

Submit to appropriate District Office

☐ AMENDED REPORT

1220 S. St. Franc						Fe, N							
APPLI	CATION	FOR	Operator Name	and Addre	RILL, RE-	ENT	D	E E	N. PLUGBAC	CK, OF	R AD	D A ZONE	
Month - Year LCX ENERGY, LLC. 110 NORTH MARIENFELD							Nimber 218885						
1 1 "	D-ARTESIA,	NM)	SUITE 2 MIDLAND		AS 79701			MAY	API umber 15-	20570			
35932 1724 CASS NORTH COM.							Well No. 291					II No.	
Proposed Pool (75010) COLLINS RANCH-WOLFCAMP (75010)							¹⁰ Proposed Pool 2						
COLLINS RANCH-WOLFCAFF (75010) 7 Surface L							on						
UL or lot no. S		wnship 7S	Range 24E	Lot				outh line CH	Feet from the	East/Wes EAST	st line	County EDDY	
				sed Bott	om Hole Loca	ion If E	ifferen	t From S	Surface			· · · · · · · · · · · · · · · · · · ·	
UL or lot no. S		wnship 7 S	Range 24E	Lot	1		North S	outh line RTH	Feet from the 1980	East/Wes EAS	st line T	County EDDY	
ll we to se		1	C.w.u.m.		lditional We		rmatic				11.0		
" Work Typ E	e Code		12 Well Type Coo	ode Cable/Rota ROTARY					Lease Type Code P			"Ground Level Elevation 3825"	
¹⁶ Multi NO	¹⁶ Multiple ¹⁷ Proposed Dep			wolf CAMP				Contractor BIG DOG DRILLING			" Spud Date WHEN APPROVED		
Depth to Groundy	vater 10	00+.		Distance	e from nearest fres	h water w	or well 1 mile+ Distance from nearest surface water Cat Claw Draw . 4 Mi North					Mi North	
Pit: Liner: Sy	nthetic 🗓 _	12 mils	thick Clay	Pit Vol	ume: <u>18M</u> bbls			ng Method	<u>. </u>				
Closed-L	oop System	<u> </u>							Brine X Diesel O	il-based	LGas'é	Nir 🔲	
·			۱ <i>۲</i> ۱	Propos	sed Casing a	nd Ce	ment l	Prograi	<u>n</u>				
Hole Size			g Size	Casing weight foot		Setting Depth		Sacks of Ce	ment	Estimated TOC			
$17\frac{1}{2}$ " $12\frac{1}{2}$ "	,,	13 3/8" 8 5/8"			72# 24#		300 ' 1815'		350 1000		SURFACE:		
7 7/8"		5½"				MD-8721 TVD-496		 		1000' FS			
								,					
De LI		CS	ca 51/			BL		emp	Surve		<u></u>		
Describe the proposed program. If this application is to DEEPEN of PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary. 1. Surface casing set at 300' and cemented to surface. Intermediate casing set at 1815' and cemented to surface when originally drilled SEE ATTACHED SHEET FOR FURTHER DETAIL													
²³ I hereby certify that the information given above is true and complete to the best							OIL CONSERVATION DIVISION						
of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCD guidelines \overline{\mathbb{X}}, a general permit \overline{\mathbb{L}}, or an (attached) alternative OCD-approved play \overline{\mathbb{L}}.						Approved by: BRYAN G. ARRANT							
Printed name: J	oe T. J	anida	1001		ouer	Title:			DISTRICT	II GEO	OLO	GIST	
Title: Agen		//		//		Approv	al Date:	AY 0	1 2007 E	xpiration D	MA	Y 0 1 2008	
E-mail Address:		ca@va	lornet.c	om									
Date: 04/3	Date: 04/30/07 Phone: 505-391-8503						Conditions of Approval Anached						

LCX ENERGY, LLC

110 N. Marienfeld St., Suite 200 Midland, TX 79701

Horizontal Drilling Procedure Wolfcamp Wildcat Horizontals (Eddy Co., NM)

- 1. Weld on 13 3/8" casing head, nipple up BOPs. Drill out w/ 77/8" bit, drill first plug at surface. Continue in hole and drill out plugs at 700' and 70'. Test 8 5/8" casing to 1000#. Continue drilling out plugs to 5100"±. Log well with Baker Triple Combo log.
- 2. Set cement kick-off plug from TD to approx. 4800 ft with 150 sx H \pm 0.7% dispersant.
- 3. Dress cement top to desired kick-off point. Drill 7 7/8" curve and land lateral in pay zone (approx. 4900 ft TVD). Pickup lateral drilling assembly with an 7-7/8" bit and drill a +/-4000' lateral to 660' from lease line (approx. 4000 ft vertical section).
- 4. Run and set 5-1/2" 15.5# N80 or stronger production casing. Cement 5-1/2" with acid soluble cement through the lateral and 400 sx 50/50 Poz/C + 10% gel and tail in with 200 sx C + 200% CaCO3 (acid soluble cement) + fluid loss additive + retarder (as required), attempting to bring top of cement to 1,000'.

NO KNOWN PRESENCE OF ANY ${\rm H_2S}$ IN THE VICINITY OF THIS WELL

LCX Energy

#291

Magnitic Primment
Moore 10H7 2005

Dec. 10.5841: Date: April 10, 2006

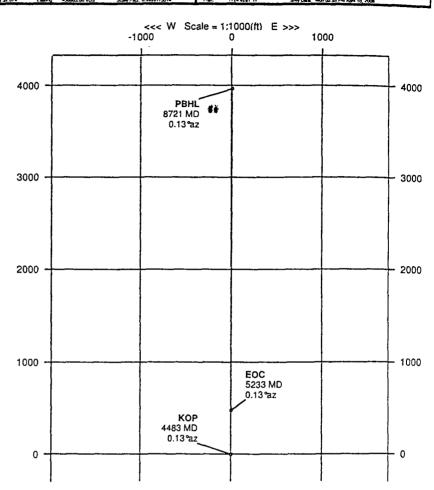
Let. NS 49 3-397

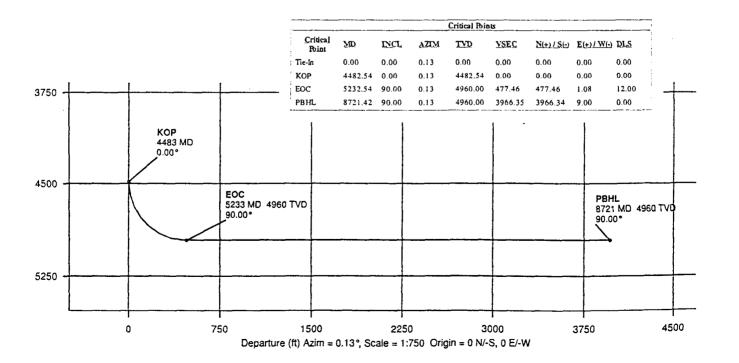
Northing: 655225.00 RLS

Ont Cyric - 0, 14020-1401

State: 1724 Case Horth Corn 201 TVD Ref. NS (2.00 Labors)







WINTREPID

Proposal

Report Date: April 10, 2006

Client: LCX Energy

Field: Eddy County, NM Nad 83

Structure / Slot: 1724 Cass North Com #291 / 1724 Cass North Com #291

Well: 1724 Cass North Com #291

Borehole: 1724 Cass North Com #291

UWI/AP#:

Survey Name / Date: 1724 #291_r1 / April 10, 2006 Tort / AHD / DDI / ERD ratio: 90.000* / 3966.35 ft / 5.798 / 0.800

Grid Coordinate System: NAD83 New Mexico State Planes, Eastern Zone, US Feet

Location Lat/Long: N 32 48 3.387, W 104 36 32.074

Location Grid N/E Y/X: N 655225.000 ftUS, E 456663.000 ftUS

Grid Convergence Angle: -0.14928645* Grid Scale Factor: 0.99991730 Survey / DLS Computation Method: Minimum Curvature / Lubinski

Vertical Section Azimuth: 0.130°

Vertical Section Origin: N 0.000 ft, E 0.000 ft

TVD Reference Datum: RKB

TVD Reference Elevation: 0.0 ft relative to

Sea Bed / Ground Level Elevation: 0.000 ft relative to

Magnetic Declination: 8.706°

Total Field Strength: 49402.953 nT

Magnetic Dip: 60.664*

Declination Date: April 10, 2006

Magnetic Declination Model: IGRF 2005

North Reference: Grid North

Total Corr Mag North -> Grid North: +8.855"

Local Coordinates Referenced To: Well Head

Comments	Measured Depth	inclination	Azimuth	TVD	Vertical Section	NS	EW	Closure	Closure Azimuth	DLS	Tool Face
	(ft)	(deg)	(deg)	(ft)	(ft)	(ft)	(ft)	(ft)	(deg)	(deg/100 ft)	(deg)
Tie-In	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13M
KOP	4482.54	0.00	0.13	4482.54	0.00	0.00	0.00	0.00	0.00	0.00	0.13M
	4500.00	2.10	0.13	4500.00	0.32	0.32	0.00	0.32	0.13	12.00	0.13M
	4600.00	14.10	0.13	4598.82	14.38	14.38	0.03	14.38	0.13	12.00	0.00G
	4700.00	26.10	0.13	4692.56	48.67	48.67	0.11	48.67	0.13	12.00	0.00G
	4800.00	38.10	0.13	4777.12	101.71	101.71	0.23	101.71	0.13	12.00	0.00G
	4900.00	50.10	0.13	4848.81	171.17	171.17	0.39	171.17	0.13	12.00	0.00G
	5000.00	62.10	0.13	4904.49	254.01	254.01	0.58	254.01	0.13	12.00	0.00G
	5100.00	74.10	0.13	4941.72	346.63	346.62	0.79	346.63	0.13	12.00	0.00G
	5200.00	86.10	0.13	4958.89	444.95	444.95	1.01	444.95	0.13	12.00	0.00G
EOC	5232.54	90.00	0.13	4960.00	477.46	477.46	1.08	477.46	0.13	12.00	0.00G
PBHL	8721.42	90.00	0.13	4960.00	3966.35	3966.34	9.00	3966.35	0.13	0.00	0.00G

MEXICO OIL CONSERVATION COMMISS WELL LOCATION AND ACREAGE DEDICATION PLAT

Porm C-102 Supersedes C-128 Ellective 14-83

All distances must be from the suter boundaries of the Section.

Operator			Lease		Well No.
PUBCO PA	ETROLEUM CO	RP.	Cass Nort	:h [*] Com "	1
Unit Letter Sect		Township	Ronge	County	
0	29	17 SOUTH	24 EAST		EDDY
Actual Factore Location		1/ 500111	24 1401	<u> </u>	TADBI
		COLONIA	9.40	71.05	
	nt from the	SOUTH line and		t from the EAST	line
Ground Level Elev.	Producing Form	nation	P∞1 Wildcat		Dedicated Acreage:
3824.5	<u> </u>		WIIdeat		320 Acres
If more than control interest and ro If more than on	one lease is yaity).	dedicated to the well	ledicated to the well, I	ntify the ownership th	nereof (both as to working all owners been consoli-
If answer is "f this form if nec No allowable w	No If an no," list the oceanry.)ill be assigne	d to the well until all	riptions which have ac	onsolidated (by comm	nunitization, unitization, approved by the Commis-
	1 1	PUECO		tained here	CERTIFICATION ertify that the Information con-
	PRODUC:	ING AREA		dane	knowledge and belief.
PR	OJECT AREA			Company Pubco Pe	esident Production etroleum Corporation 26, 1972
Z	676	NAME AND ADDRESS OF THE PARTY O	U.S. A.	Shown on the nates of or under my strike am knowledge to Date Surveyed JANU.	ARY 5, 1972
. Alvia	Kincaid	00 95. 2310 2840 2000	P. Johnson Jr. et ux	Registered Promotion Land S	n W West

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HO. OF COPICS MECEIVED			. •	, F D	31,-01	3-20570
DISTRIBUTION	и	EW MEXICO OIL CONS	ERVATION COMMIS	NOI	Form C-101	
SANTA FE			JAN 2 8 19	70	Revised 14-6	
FILE	+1		910012 00 12		J .	Type of Lease
u.s.g.s.	4-1		<i>t</i>		STATE	ree X
LAND OFFICE			F_{i_1, i_2, i_3}		.5. State Oil	& Gas Leane No.
OPERATOR .			• • •		mm	mmmm
ADDI ICATIO	W FOO DEDWY	TO DOUL DEEDEN	OD DI UC DACK		M/M	
APPLICATIO	N FUR PERMIT	TO DRILL, DEEPEN	, UR PLUG BACK		7 Unit Ame	ement Name
					// Old, rigit	enem pane
b. Type of Well DRILL X		DEEPEN	PL	JG BACK	8. Form or L	ease Name
OIL SAS TO			SINGLE ZONE	MULTIPLE	1	orth Com
2. Nume of Operator	OTHER		20#E []	ZONE L	9. Well No.	OI Ell GOM
Pubco Petroleum	Corporation	V				1
3. Address of Operator					10. Field can	d Pool, or Wildest
P. O. Box 869,	Albuquerque,	New Mexico 8710	3		Wild	cat
4. Location of Weil	0	LOCATED 660	FEET FROM THESO	uth	TITITI	
1					MMM	
AND 1980 FEET FROM	THE East	LINE OF SEC. 29	TWP. 173	24E	UIIIII	
					12. County	
		MMMM			Eddy	
					7777777	
			19. Proposed Depth	19A. Formatio	PA.	20. Rotary or C.T.
21. Elevations (Show whether DF)			<u> ვგეე '</u>	Morrow	·	Rotary
3824.5 GR	. 1	ind & Status Plug. Bond lanket	Ard Drilling Contract		1	. Date Work will start
23.		Tankee	niu billing		Tebrua	ry 10, 1972
		PROPOSED CASING A	ND CEMENT PROGRAM	ŀ		
SIZE OF HOLE	SIZE OF CASIN	G WEIGHT PER FOO	T SETTING DEP	TH SACKS OF	F CEMENT	EST. TOP
17-1/2"	13-3/3"	35#	3001		U_sxs.	circulate
12-1/4"	3-5/8"	24# J-55			0_axs	circulate
7-7/8"	4-1/2"	11.6#,10.5# 8	§ 3900'	40	O sxs.	7400*
	•	9.3	Ďiř'	•	,	•
Propose to drill Limestone, which significant show Electric Log, Bo potentially pro- the NewMexico Of	never is the ws will be te orehole Compeductive zones	lessor, using the sted. We anticonsated Sonic Gar. If a dry hole	ne above hole a ipate running mmaray, Microl	and casing the follow og. Will	program ing logs cement a as dire	. All : Induction cross all cted by
				•	79 A 803	AND PROPOSED NEW PRODUCT
					DRILL	NO 361-75
					J .	11 - Line
					-VOIRES	
IN ABOVE SPACE DESCRIBE PR	OPOSED PROGRAM:	IF PROPOSAL IS TO DEEPER	ON PLUS BACK, GIVE DAT	CM PRESENT PR	EXFIRE	AND PROPOSED HEW PRODUCT
TIVE ZONE, GIVE BLOWOUT PREVENTS	ER PROGRAM, IF ANY.					
I hereby certify that the information	a shove is true and c	omplete to the best of my	knowledge and belief.	-		
Stand -		Vice Pre	sident Product	fon	naa Jani	uary 26, 1972
1. 6, 10	been				Date	
(This space for S	L. St	3 ()		-		IAN 3 1 1972
APPROVED BY	prisity"	TITLE Sich	Liù eac	· 	DATE	
dequate Elevent	reventer.	Cement must h	e circulated to	Notify N.	110 C.C.	in cofficient
a que de la constante	Ĵ	surface behind			vilingså (cementing
surprient be well	.~	surface behind L	e/a / v / casing	the	- ez 570'	casing