District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 South First, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Form C-101 Revised March 17, 1999

Oil Conservation Division 2040 South Pacheco Santa Fe, NM 87505 Submit to appropriate District Office State Lease - 6 Copies Fee Lease - 5 Copies

AMENDED REPORT

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APPL	CATIC	ON FOR	PERMIT	TO DRII nd Address	LL, RE-E	NTEF	R, DEEPEN	, PLUGBAC	CK, OR		A ZONE
	Con	oco Inc., 101	Desta Drive, Suite	649W, Midla	ind, TX 79705	5		005073	³ API Nu	imber 4 0	5
³ Proper	ty Code 03105 /	3396			⁵ Property 1 Hardy "36"			30-025		⁶ Well No 31),),
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ate: 02/20/	01		Phone: 915/	686-556	5		ns of Approval:	UU) EA		Fult.	

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DISTRICT III							State Lease	-
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### PROPOSED MELL PLAN OUTLINE

VELUNAME LOCATION	-πείαν 30 διετε ∦31 1,800' FNL & 2,010' FWL, 5	Seo 38, 720S & RG7 <i>E (prior to</i> ste	KINGI	ан ала аларыман 2000 года алары алары түз		Ground Lever : Keny Bushing:	3,515' (es 11' AGL	
FORMATION Depth TOPS VID (them BL)	DALLING PRCSLEWS	TYPE OF FORWATION EVALUATION	nûlê SiZE	CAS.NG PROGRAM	FRAC GRAD	FORM. Pres. Grad.	Nuû Weight & Type	 Ja
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ົ <u>້, ໂດຍຊີຽຣເຊ</u> ີຍ, 1,400				8-5/8", 24#, 5-55 <u>ST&amp;C @ 1,50</u> 0'				
	Washouts in Sait Section		7-7/8"	Circulate Cement			10	
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0100						Less than 8.4		
arr - 10° an a' anna								
	or	Mua Loggers @ 2,600'		:				:
n	Ś							
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7 Rivers 2,970'		on @ 2,600'						
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	Mud loss in San Andres is possible.							
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Giorietta 5,255' Pacadok 5,525'	Mud loss and clifferential sticking possible in Glorietta							,
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······································		Pull GR-CNL-Car to Surf						
an a		SGR Interval to be phosen						
Site wa 7,830'	Staron up prior to arming	Second Log Bun:						
	into Strawn.	50 rotary slaewall cores	ć	5-172", 17#, J-55 T&C sat @ 7,950"				
	Offset data from:	Possible Truna Runa		ITÃO set @ 7,6501 Diroulate cament				
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	<u></u>			capa j				

DATE

05-Feb-01

Joe muck, Geologist

Devia Deleo, Drilling Engliseer

Joe Miller, Reservoir Engineer

### HARDY 38 STATE #31 PROPOSED CASING & CEMENT PLAN

Surface casing size: 8-6/8", 24#, U-56	5, ST&C	Casing OD:	3.825 in
Surface casing deprn:	1,500 ft	Casing ID:	8.097 in
nole size:	12.25 in	Shoe ji lengir:	40
Statio temperatura:	39 deg F		101 %
Circulating temperature:	85 aeg 7	Tai Excess:	106 %
ـخمْد:	405 sx	C. C 0.25 pps	Cenc Flake + 0.005 gps FP-6L
		+ 2% Soaium N	etashicate
Tái:	200 sx	Ci C 2% CaCi	+ 0.005 gps FP-6∟
Broganias		<u>L060</u>	<u></u>
S.u.ry Weight (ppg)		12.4	1.4.Ô
Slurry Mala (ofps)		2.15	1.34
Mix Water (gos)		12.33	6.35
Pump time - 70 BC (Em:N.V.)		6:25	2:20
Free Water (mis) @ 80 deg F @ 90 deg angle		0	ů
Fiuld Loss (cc/30 min) @ 1000 psi and 80 deg ;	F	854	900
Compressive Strength (ps.)			300
i 2 m/s @	89 aeg F	124	1200
24 ms @	89 aeg F	250	2500
	LT&C	Casing OD:	5.500 in
Production basing depth:	7,950 $\pi$	Casing iD:	4.892 in
Production casing depth: note size:	7,950 tt 7.878 in	Casing iD: Snoe jt length:	
Production basing depth: Hole size: Static temperature	7,950 tt 7.878 in 128 deg F	Casing ID: Shoe j: length: Lead Excess:	4.892 in
Production basing depth: Hole size: Static temperature	7,950 tt 7.878 in	Casing iD: Snoe jt length:	4.892 in 80 tt
Production basing depth: mole size: Static temperature Circulating temperature:	7,950 tt 7.878 in 128 deg F	Casing iD: Snoe j: length: Lead Excess: Tail Excess:	4.892 in 80 tt 51 % 51 %
Production casing depth: mole size: Static temperature Circulating temperature:	7,950 tr 7.878 in 128 deg F 122 deg F	Casing iD: Snoe j: length: Lead Excess: Tail Excess: 50:50 Poz:Cr C +	4.892 in 80 tt 51 %
Production casing size: 6-1/2", 17#, 055, Production casing depth: mole size: Static temperature Circulating temperature: Lead:	7,950 tr 7.878 in 128 deg F 122 deg F	Casing iD: Snoe j: length: Lead Excess: Tail Excess: 50:50 Poz:Cr C + Cello Flake + 0.0	4.892 in 80 ☆ 51 % 51 % 58 pwow NaCi + 0.25 pps
Production pasing depth: nole size: Static temperature Circulating temperature: Lead:	7,950 tr 7.876 in 128 ceg F 122 ceg F 585 sx	Casing iD: Snoe j: length: Lead Excess: Tail Excess: 50:50 Poz:Cr C + Cello Flake + 0.0	4.892 in 80 π 51 % 51 % 55 pwow NaCi + 0.25 pps 05 gps FP-6⊑ + 10% Bentonite C:CSE + 5% pwow NaCi +
Production pasing depth: nole size: Statio temperature Circulating temperature: Lead: Fail:	7,950 tr 7.876 in 128 ceg F 122 ceg F 585 sx	Casing iD: Snoe J: length: Lead Excess: Tali Excess: 50:50 Poz:Cr C + Ceiro Flake + 0.0 15:61:11 Poz:Cr 0	4.892 in 80 π 51 % 51 % 55 pwow NaCi + 0.25 pps 05 gps FP-6⊑ + 10% Bentonite C:CSE + 5% pwow NaCi +
Production pasing depth: nole size: Statio temperature Circulating temperature: Lead: Fail: <u>Properties</u> Siurry Weight (ppg)	7,950 tr 7.876 in 128 ceg F 122 ceg F 585 sx	Casing iD: Shoe (t) length: Lead Excess: Tail Excess: 50:50 Poz:Cr C + Cello Flake + 0.0 15:61:11 Poz:Cr C 1% FL-62 + 0.00	4.892 in 80 ft 51 % 51 % 55% pwow NaCi + 0.25 pps 05 gps FP-6L + 10% Bentonite C:CSE + 5% pwow NaCi + 05 gps FP-6L
Production pasing depth: nole size: Statio temperature Circulating temperature: Lead: Sain: Surry Weight (ppg) Surry Weight (ppg)	7,950 tr 7.876 in 128 ceg F 122 ceg F 585 sx	Casing iD: Shoe (t) length: Lead Excess: Tail Excess: 50:50 Poz:Cr C + Ceilo Flake + 0.00 15:61:11 Poz:Cr C 1% FL-82 + 0.00 Lead	4.892 in 80 ft 51 % 51 % 55 pwow NaCi + 0.25 pps 05 gps FP-6L + 10% Bentonite C:CSE + 5% pwow NaCi + 05 gps FP-6L
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Production pasing depth: nole size: Statio temperature Circulating temperature: Lead: Sain: Surry Weight (ppg) Surry Yield (cips) Mix Water (gps) Pumpitime - 70 BC (mm:MM)	7,950 tr 7.876 in 128 ceg F 122 ceg F 585 sx	Casing iD: Shoe (t) length: Lead Excess: Tail Excess: 50:50 Poz:Cr C + Cello Flake + 0.00 15:61:11 Poz:Cr C 1% FL-62 + 0.00 Lead 11.85 2.41	4.892 in 80 ft 51 % 51 % 56 pwow NaCi + 0.25 pps 05 gps FP-6L + 10% Bentonite C:CSE + 5% pwow NaCi + 05 gps FP-6L <u>Itsin</u> 1.3.8 1.49
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BUP SPECIFICATIONS



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# NEW LEXICO ENERGY, ML JERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON Governor Jennifer A. Salisbury Cabinet Secretary

March 19, 2001

Lori Wrotenbery Director Oil Conservation Division

Conoco, Inc. 10 Desta Drive – Suite 100W Midland, Texas 79705-4500 Attention: Kay Maddox

Telefax No. (915) 686-5780

Administrative Order NSL-4450-A

Dear Ms. Maddox:

Reference is made to the following: (i) your application dated February 12, 2001 but was not received by the New Mexico Oil Conservation Division ("Division") in Santa Fe until February 23, 2001; and (ii) the Division's records in Santa Fe and Hobbs, including the files on Division Cases No. 12182 and 12532 and Division Administrative Order NSL-4450: all concerning Conoco, Inc.'s request for an exception to Rule 4 of the "Special Pool Rules for the North Hardy-Strawn Pool," as promulgated by Division Order No. R-11221, issued in Case No. 12182 dated July 12, 1999, as amended by Division Order No. R-11221-A, dated February 2, 2001, for a non-standard oil well location within a standard 160-acre oil spacing and proration unit for the Undesignated North Hardy-Strawn Pool comprising the NW/4 of Section 36, Township 20 South, Range 37 East, NMPM, Lea County, New Mexico.

Division Administrative Order NSL-4450, dated May 23, 2000, in part granted Conoco, Inc. authority to dedicate this 160-acre unit to its State "KL" 36 Well No. 29 (API No. 30-025-34999), drilled at an unorthodox oil well location 330 feet from the North line and 2310 feet from the West line (Unit C) of Section 36. From the record in Case Nos. 12182 (reopened) and 12532 and the Division's well file, Conoco, Inc. drilled this well to a depth of 7,921 feet in July, 2000, tested the Strawn interval and found it to be non-productive. Conoco, Inc. plugged and abandoned this well in September, 2000.

The subject application has been duly filed under the provisions of Division Rule 104.F and the applicable provisions of the rules governing this pool.

By the authority granted me under the provisions of: (i) Rule 5 of these special pool rules; and (ii) Division Rule 104.F (2), the following described well to be drilled at an unorthodox infill oil well location within the above-described 160-acre unit is hereby approved:

## Hardy "36" Well No. 31 1900' FNL & 2310' FWL (Unit F).

Further, that portion of Division Administrative Order No. NSL-4450 pertaining to the

Administrative Order NSL-4450-A Conoco, Inc. March 19, 2001 Page 2

above-described State "KL" 36 Well No. 29 is hereby placed in abeyance until further notice.

Jurisdiction of this matter shall be further retained for the entry of any such subsequent orders, as the Division may deem necessary.

Sincerely,

Lori Wrotenbery Director

#### LW/MES/kv

cc: New Mexico Oil Conservation Division - Hobbs
New Mexico State Land Office - Santa Fe
W. Thomas Kellahin, Legal Counsel for Conoco, Inc. - Santa Fe
File: Case No. 12182
Case No. 12532
NSL-4450

CONFIDENTIAL LOGS ABOVE DATE DOES NOT 10 ELE Fr y <

WILL BE RELEASED