District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

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State of New Mexico Energy Minerals and Natural Resources

Form C-101 Revised March 17, 1999

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit to appropriate District Office State Lease - 6 Copies Fee Lease - 5 Copies

AMENDED REPORT

APPL	ICATI	<u>ON FO</u>	R PERMIT			ENTE	R, DE	EPER	N, PLUGBA			D A ZONE		
			¹ Operator Name a	nd Addre	SS				² OGRID Number 25797					
	Permian Resources, Inc.								³ API Number					
³ Prope			⁵ Propert	Name	me 30 - 025-35596					No.				
25993 Hilbur						um					3	···· <u>···</u> ·······		
			······································		⁷ Surface	e Locat	ion				ŕ			
UL or lot no.	D 13 16S 35E 5		Feet from the North/South line		Feet from the	East/We	st line	County						
D						510		rth	250	West		Lea		
			⁸ Proposed I	Bottom	Hole Loc	ation If	Differ	ent Fr	om Surface	1				
UL or lot no. Section		Township	Range	Lot	ldn Feet	Feet from the 990		outh line	Feet from the 3300	East/West line West		County		
D	0 13 16S 3		35E		9!			orth				Lea		
	° Proposed Pool								¹⁰ Proposed Pool 2					
· · · · · · · · · · · · · · · · · · ·		No	rth Shoe Bar (Strawr	ı)					North Shoe	Bar (Wolf	camp)			
			¹² Well Type Cod				ary 14		⁴ Lease Type Code P		¹⁵ Ground Level Elevation 3968			
¹⁶ Multiple N			O ¹⁷ Proposed Depth 11,500		R ¹⁸ Formation Strawn				"Contractor Tmbr Sharp		²⁰ Spud Date 08/09/2003			
		k		Propo	sed Casing		ement	Progra						
Hole	Size		asing Size		g weight/foot		Setting D		Sacks of C	ement		Estimated TOC		
Hole Size			13 3/8		48		450		450		Surface			
11		8 5/8		24 & 32			4800		1050		Surface			
7 7/8		5 1/2		17			11250		850		<u>+</u> 4000			
												,		
Describe the	e blowout p	prevention p	If this application program, if any. Use 02, <u>Re-entry F</u>	e addition	al sheets if nec	essary.			202		Vity.	agethe 1		
²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief.							OIL CONSERVATION DIVISION							
best of my k	noviedge	and belief. MA	Ihitmi	,	3:	Appr	oved by:	Ì	m/ 30	1a	2			
Printed nam	ra Watso	n		Title	Title: Approval Date: Approval Date: Approv									
Title: Operations							Approval Date: Expiration Date:							
Date: 08-18-2003 Phone: 915/685-0113					l l	Conditions of Approval:								
						Attac	Attached							

DISTRICT J 1625 N. French Dr., Hobbs, NM 88240

DISTRICT II P.O. Drawer DD, Artesia, NM 88211-0719

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV 2040 South Pacheco, Santa Fe, NM 87505 Form C-102 Revised August 15, 2000 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505

□ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT **API** Number **Pool** Code Pool Name 30-025-35595 56270 NORTH SHOE BAR (STRAWN) Well Number **Property** Name **Property** Code 25993 HILBURN 3 **Operator** Name Elevation OGRID No. 25797 PERMIAN RESOURCES, INC. 3969 Surface Location North/South line East/West line UL or lot No. Section Township Range Lot Idn Feet from the Feet from the County LEA 250 D 13 16 S 35 E 510 NORTH WEST Bottom Hole Location If Different From Surface Feet from the North/South line Feet from the East/West line County UL or lot No. Section Township Range Lot Idn 330 WEST LEA 13 16 S 35 E 990 NORTH D **Dedicated** Acres Joint or Infill **Consolidation** Code Order No. 158.3 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 OPERATOR CERTIFICATION 416 ò ,066 648' 5 I hereby certify the the information 1345 1264 contained herein is true and complete to the (Bottom Hole Location) 250 -598' best of my knowledge and belief. $\frac{Plane \ Coordinate}{X = 781,844.2} \\ Y = 702,549.6$ 330 #3 (Surface Location) (Bottom Hole Location) Plane Coordinate X = 780,749.9 Plane Coordinate Signatu X = 780,749.9Y = 702,445.4Y = 702,280.8Michael Stewart N2232425.83 (New Bottom Hole Location) Printed Name $\frac{Plane Coordinate}{X = 780,833.9}$ X = 780,833.9Y = 701,966.6Agent Title Project Area August 20, 2003 158.3 Acres Date NW/4 Section 13, <u>o</u> T-16-S, R-35-E SURVEYOR CERTIFICATION I hereby certify that the well location shown ion this plat was plotted from field notes of actual surveys made by me or under my supervison and that the same is true and بتا مألبا مدينا correct to the best of my belief. entre MALUN -NULUN MCULLA/ Augus August 20, 2003 N MA LVA Signature & Seal of Professional Surveyor ÷. RESTRECT PROFESS TELLATO PROFESSION NOTE: a₩ G. Num. 2001-1037-S Plane Coordinates shown hereon are Transverse Mercator Grid and Conform to the "New Mexico Coordinate System", New Mexico East Zone, North American Datum of 1927. Distances shown hereon are mean horizontal surface values. Certificate No. MACON McDONALD 12185



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Hilburn No. 3 Re-Entry Proposal drill to 3rd BHL

Proposal to Re-enter previously TA'd wellbore and directionally drill to the Strawn formation at the following locations:

Surface Location:	510' FNL & 250' FWL, Section 13, T16S, R35E
Strawn Entry Point @ 11,285' TVD	
Bottom Hole Location	990' FNL & 330' FWL, Section 13, T16S, R35E
Bottom Hote Ecolution	@ 11,633' MD, 11,584' TVD.
	$(\omega, 11,055, \text{MD}, 11,564, 17D).$

Propose following:

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- 1 MIRU WSU. RIH w/ 2-3/8" tbg and tag existing TOC plug @ 9,653'. Circulate hole with mud and spot 200 sx Class "C" KO plug w/ 9/10% Halad-322 from 9,653' to 9,050'. RD WSU.
- MIRU TMBR / Sharp Rig # 23. NU 5000# double ram & Hydril annular BOP. PU 7-7/8" bit w/ motor and directional tools. KO cement plug @ 9,050' and directionally drill 7-7/8" hole to test Strawn formation. Proposed TD @ 11,633' MD, 11,584' TVD at a BHL of 990' FNL & 330' FWL, Section 13, T16S, R35E, Lea County, NM. Anticipated Strawn entry point @ 11,285' TVD.
- 3 Potential DST's in Wolfcamp formation (10,500') and Strawn formation. Open-hole log and evaluate.
- 4 If productive hydrocarbons are encountered, run \pm 11,633' of 5-1/2", 17 #/ft, N-80 and P110 casing. DV tool @ \pm 9400'. Cement 1st stage with \pm 350 sx Class Super "H" + 200 sx Premium Plus cement to circulate DV tool. Cement 2nd stage with \pm 510 sx Interfill "H" + 150 sx Premium Plus cement sufficient to bring cement to \pm 4,000' inside existing 8-5/8" casing. Total 1,210 sx cement. RD TMBR/Sharp Rig # 23.
- 5 Complete as Strawn producing well pending NMOCD hearing for unorthodox (nonstandard) well location in North Shoe Bar (Strawn) pool or as orthodox (standard) well location in North Shoe Bar (Strawn) pool should Permian be successful in obtaining revised field rules for 80 acre proration units with 330' well spacing from outer boundary consistent with off-setting Strawn pool field rules.

Hilburn No. 3 C-103

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Below is a recap of prior activity on the Hil	burn No. 3 for clarification purposes:					
Originally Permitted Location						
Surface Location:	510' FNL & 250' FWL, Section 13, T16S, R35E					
Strawn Entry Point @ 11332' MD	660' FNL & 510' FWL, Section 13, T16S, R35E					
End of Lateral BHL:	1980' FNL & 1980' FWL, Section 13, T16S, R35E					

- 11/19/01 MIRU TMBR / Sharp Rig # 23. Spudded 17-1/2" hole @ 1:30 AM. Drilled to 490'. Ran 490' of 13-3/8", 54.5 #/ft, H-40, casing. Cemented with 510 sx Class "C" + 2% CaCl & $\frac{1}{4}$ #/sx celloflake. Circulated 55 sx to pit.
- 11/30/01 Drilled 11" hole to 4825'. Ran and set 4825' of 8-5/8" (16 jts, 702' 32 #/ft, N-80 and 92 jts, 4126' 32 #/ft, J-55) casing. Cemented with 1400 sx 35/65 Poz "C" + 6% gel, 5% salt & ¼ #/sx celloflake plus 250 sx Class "C". Total 1650 sx. TOC by TS @ 506'.
- 12/20/01 Reached TD @ 11,627' MD, 11, 584' TVD at BHL 675' FNL & 599' FWL. Encountered Strawn formation top @ 11,358' MD, 11,324' TVD at a BHL 664' FNL & 518' FWL. Ran Dual Induction / MSFL, Z-Density / CNL / GR. Strawn porosity deemed non-productive. Plugged back to KO and drill to alternative BHL. Mix & spot 50 sx Class "H" plug w/ 2/10% R-3 from 11,358' to 11,258'. Mix and spot 270 sx Class "H" plug w/ 9/10% D31 from 9,700' to 9,200'. Plan to KO and drill to alternative BHL encountering Strawn @ 11,506' MD, 11,269' TVD at 420' FNL & 1,296' FWL.
- 1/7/02 Reached TD @ 11,820' MD, 11, 571' TVD at BHL 406' FNL & 1,344' FWL. Encountered Strawn formation top @ 11,601' MD, 11,370' TVD at a BHL 419' FNL & 1,259' FWL. Ran Dual Induction / MSFL, Z-Density / CNL / GR. Strawn porosity deemed non-productive. Proposed to plug back to TA and evaluate for alternative BHL.
- 1/12/02 Mix & spot 50 sx Class "H" plug from 11,565' to 11,465'. Mix and spot 50 sx Class "H" plug from 9,753' to 9,653'.
- 1/13/02 ND BOP & RD TMBR / Sharp Rig # 23. Install capping flange on wellhead.